

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

**APPLICATION OF APACHE CORPORATION FOR  
APPROVAL OF A NON-STANDARD HORIZONTAL  
WELL SPACING UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 24141**

**APPLICATION OF AVANT OPERATING, LLC  
FOR COMPULSORY POOLING AND APPROVAL  
OF NON-STANDARD SPACING UNIT,  
LEA COUNTY, NEW MEXICO**

**CASE NO. 24254**

**NOTICE OF AMENDED EXHIBIT PACKET**

Apache Corporation, applicant in the above referenced cases, gives notice that it is filing the attached **Amended Exhibit Packet** for this case. The Amended Exhibits correctly reflect the pool name and pool code in the Compulsory Pooling Checklist and C-102s (Exhibit A-1) as the Lusk; Bone Spring, East (Pool Code 41442), and corrects the legal description of Tract 5 in Slide 7 of Exhibit B to be W/2 W/2, W/2 NE/4, SE/4 NE/4, SE/4 of Section 14-19S-32E. These Amended Exhibits are being submitted at the request of the Hearing Examiner following the hearing in these cases on May 29-30, 2024. Apache requests that they be accepted into the evidentiary record.

Respectfully submitted,

HOLLAND & HART LLP



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Michael H. Feldewert  
Adam G. Rankin  
Paula M. Vance  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
(505) 988-4421  
(505) 983-6043 Facsimile  
mfeldewert@hollandhart.com  
agrarkin@hollandhart.com  
pmvance@hollandhart.com

**ATTORNEYS FOR APACHE CORPORATION**

**CERTIFICATE OF SERVICE**

I hereby certify that on June 3, 2024, I served a copy of the foregoing document to the following counsel of record via Electronic Mail to:

Dana S. Hardy  
Jaclyn M. McLean  
HINKLE SHANOR LLP  
P.O. Box 2068  
Santa Fe, NM 87504-2068  
(505) 982-4554  
(505) 982-8623 FAX  
*dhardy@hinklelawfirm.com*  
*jmclean@hinklelawfirm.com*

***Attorneys for Avant Operating, LLC***

Robert W. ("Eli") Kiefaber  
Blake C. Jones  
Steptoe & Johnson PLLC  
1780 Hughes Landing Blvd., Suite 750  
The Woodlands, TX 77380  
TEL: (281) 203-5730  
FAX: (281) 203-5701  
*eli.kiefaber@steptoe-johnson.com*

***Attorneys for Northern Oil and Gas, Inc.***



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Adam G. Rankin

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
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**APPLICATION OF APACHE CORPORATION FOR  
APPROVAL OF A NON-STANDARD HORIZONTAL  
WELL SPACING UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 24141**

**APPLICATION**

Apache Corporation (“Apache” or “Applicant”) (OGRID No. 873), through its undersigned attorneys, files this application with the Oil Conservation Division, pursuant to the provisions of NMSA 1978, § 70-2-17, for an order (a) approving a non-standard 1280-acre, more or less, horizontal well spacing unit in the Bone Spring formation underlying Sections 11 and 14, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico and (b) pooling all uncommitted interests in this acreage. In support of its application, Apache states:

1. Applicant is a working interest owner in the proposed horizontal spacing unit and has the right to drill thereon.
2. Due to the nature and configuration of the federal leases in the subject area, the Bureau of Land Management (“BLM”) will not approve the commingling of production at central facilities if the subject area is developed using standard horizontal well spacing units. See, e.g., 43 CFR 3173.14 (addressing authorized commingling). However, if the proposed non-standard spacing unit is approved by the Division, the BLM has stated it will issue a corresponding Communitization Agreement for the federal leases within the subject area to allow commingling and the corresponding reduction of the necessary surface facilities.
3. Applicant seeks to minimize cost and surface disturbance by consolidating facilities and commingling production from existing and future wells in the proposed non-standard spacing



unit. To allow the proposed wells to be dedicated to a federal Communitization Agreement, Applicant requires approval of a corresponding non-standard horizontal well spacing unit in the Bone Spring formation.

4. Applicant seeks to initially dedicate the above-referenced horizontal spacing unit to the following proposed wells to be drilled from shared surface locations in the S2S2 of Section 14:

- **Dustbowl 11-14 Fed Com 101H** and **Dustbowl 11-14 Fed Com 201H** wells, with first take points in the SW4SW4 (Unit M) of Section 14 and last take points in the NW4NW4 (Unit D) of Section 11;
- **Dustbowl 11-14 Fed Com 102H** and **Dustbowl 11-14 Fed Com 202H** wells, with first take points in the SE4SW4 (Unit N) of Section 14 and last take points in the NE4NW4 (Unit C) of Section 11;
- **Dustbowl 11-14 Fed Com 103H** and **Dustbowl 11-14 Fed Com 203H** wells, with first take points in the SW4SE4 (Unit O) of Section 14 and last take points in the NW4NE4 (Unit B) of Section 11; and
- **Dustbowl 11-14 Fed Com 104H** and **Dustbowl 11-14 Fed Com 204H** wells, with first take points in the SE4SE4 (Unit P) of Section 14 and last take points in the NE4NE4 (Unit A) of Section 11.

5. Applicant has sought and been unable to obtain voluntary agreement for the development of these lands from all the interest owners in the subject spacing unit.

6. Approval of the non-standard unit will allow Apache to efficiently locate surface facilities for the recovery of oil and gas underlying the subject lands, reduce surface disturbance, and lower operating costs.

7. The pooling of interests will allow Applicant to obtain a just and fair share of the oil and gas underlying the subject lands, avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, Applicant requests that this application be set for hearing before an Examiner of the Oil Conservation Division, on February 1, 2024, and, after notice and hearing as required by law, the Division enter an order:

- A. Approving the proposed non-standard horizontal well spacing unit;
- B. Pooling all uncommitted interests in the horizontal spacing unit and approving the initial wells thereon;
- C. Designating Applicant as the operator of this spacing unit and the horizontal wells to be drilled thereon;
- D. Authorizing Applicant to recover its costs of drilling, equipping, and completing the wells;
- E. Approving the actual operating charges and costs of supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- F. Imposing a 200% charge for the risk assumed by Applicant in drilling and completing the wells against any working interest owner who does not voluntarily participate in the drilling of the wells.

Respectfully submitted,

HOLLAND & HART LLP

By:  \_\_\_\_\_

Michael H. Feldewert  
Adam G. Rankin  
Paula M. Vance  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
(505) 988-4421  
(505) 983-6043 Facsimile  
mfeldewert@hollandhart.com  
agrarkin@hollandhart.com  
pmvance@hollandhart.com

**ATTORNEYS FOR APACHE CORPORATION**

**CASE \_\_\_\_\_: Application of Apache Corporation for Approval of a Non-Standard Horizontal Well Spacing Unit and Compulsory Pooling, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order (a) approving a non-standard 1280-acre horizontal well spacing unit in the Bone Spring formation underlying Sections 11 and 14, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico and (b) pooling all uncommitted interests in this acreage. Applicant seeks to initially dedicate the above-referenced horizontal spacing unit to the following proposed wells to be drilled from shared surface locations in the S2S2 of Section 14:


- **Dustbowl 11-14 Fed Com 101H and Dustbowl 11-14 Fed Com 201H** wells, with first take points in the SW4SW4 (Unit M) of Section 14 and last take points in the NW4NW4 (Unit D) of Section 11;
- **Dustbowl 11-14 Fed Com 102H and Dustbowl 11-14 Fed Com 202H** wells, with first take points in the SE4SW4 (Unit N) of Section 14 and last take points in the NE4NW4 (Unit C) of Section 11;
- **Dustbowl 11-14 Fed Com 103H and Dustbowl 11-14 Fed Com 203H** wells, with first take points in the SW4SE4 (Unit O) of Section 14 and last take points in the NW4NE4 (Unit B) of Section 11; and
- **Dustbowl 11-14 Fed Com 104H and Dustbowl 11-14 Fed Com 204H** wells, with first take points in the SE4SE4 (Unit P) of Section 14 and last take points in the NE4NE4 (Unit A) of Section 11.

Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 33 miles west of Hobbs, New Mexico.

**REVISED COMPULSORY POOLING APPLICATION CHECKLIST****ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

<b>Case: 24141</b>	<b>APPLICANT'S RESPONSE</b>
<b>Date</b>	<b>May 29, 2024</b>
Applicant	<b>Apache Corporation</b>
Designated Operator & OGRID (affiliation if applicable)	<b>Apache Corporation (OGRID No. 873)</b>
Applicant's Counsel:	<b>Holland &amp; Hart LLP</b>
Case Title:	<b>Application of Apache Corporation for Approval of a Non-Standard Horizontal Well Spacing Unit and Compulsory Pooling, Lea County, New Mexico.</b>
Entries of Appearance/Intervenors:	<b>Avant Operating, LLC; Northern Oil and Gas, Inc.</b>
Well Family	<b>Dustbowl 11-14 Fed Com wells</b>
<b>Formation/Pool</b>	
Formation Name(s) or Vertical Extent:	<b>Bone Spring</b>
Primary Product (Oil or Gas):	<b>Statewide rules</b>
Pooling this vertical extent:	<b>N/A</b>
Pool Name and Pool Code:	<b>Lusk; Bone Spring, East [41442]</b>
Well Location Setback Rules:	<b>Statewide rules</b>
<b>Spacing Unit</b>	
Type (Horizontal/Vertical)	<b>Horizontal</b>
Size (Acres)	<b>1280-acres</b>
Building Blocks:	<b>40 acres</b>
Orientation:	<b>South-North</b>
Description: TRS/County	<b>Sections 11 and 14, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico</b>
Standard Horizontal Well Spacing Unit (Y/N), If No, describe and is approval of non-standard unit requested in this application?	<b>No, approval of the non-standard unit is requested in the application.</b>
<b>Other Situations</b>	
Depth Severance: Y/N. If yes, description	<b>No</b>
Proximity Tracts: If yes, description	<b>No</b>
Proximity Defining Well: if yes, description	<b>N/A</b>
Applicant's Ownership in Each Tract	<b>Exhibit B, Slides 6 &amp; 7</b>
<b>Well(s)</b>	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	<b>Add wells as needed</b>
Well #1	<b>Dustbowl 11-14 Fed Com 101H (API pending)</b> SHL: 200' FSL, 1890' FWL (Unit N) of Section 14 BHL: 50' FNL, 430' FWL (Unit D) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location

Well #2	<b><u>Dustbowl 11-14 Fed Com 102H (API pending)</u></b> SHL: 200' FSL, 1950' FWL (Unit N) of Section 14 BHL: 50' FNL, 1973' FWL (Unit C) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location
Well #3	<b><u>Dustbowl 11-14 Fed Com 103H (API pending)</u></b> SHL: 275' FSL, 654' FEL (Unit P) of Section 14 BHL: 50' FNL, 1765' FEL (Unit B) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location
Well #4	<b><u>Dustbowl 11-14 Fed Com 104H (API pending)</u></b> SHL: 275' FSL, 594' FEL (Unit P) of Section 14 BHL: 50' FNL, 330' FEL (Unit A) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location
Well #5	<b><u>Dustbowl 11-14 Fed Com 201H (API pending)</u></b> SHL: 200' FSL, 1860' FWL (Unit N) of Section 14 BHL: 50' FNL, 330' FWL (Unit D) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location
Well #6	<b><u>Dustbowl 11-14 Fed Com 202H (API pending)</u></b> SHL: 200' FSL, 1920' FWL (Unit N) of Section 14 BHL: 50' FNL, 1873' FWL (Unit C) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location
Well #7	<b><u>Dustbowl 11-14 Fed Com 203H (API pending)</u></b> SHL: 275' FSL, 684' FEL (Unit P) of Section 14 BHL: 50' FNL, 1865' FEL (Unit B) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location
Well #8	<b><u>Dustbowl 11-14 Fed Com 204H (API pending)</u></b> SHL: 275' FSL, 624' FEL (Unit P) of Section 14 BHL: 50' FNL, 430' FEL (Unit A) of Section 11 Target: Bone Spring Orientation: South-North Completion: Standard Location
Horizontal Well First and Last Take Points	<b>Exhibit A-1</b>
Completion Target (Formation, TVD and MD)	<b>Exhibit A-2</b>
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	<b>\$9,000</b>
Production Supervision/Month \$	<b>\$900</b>
Justification for Supervision Costs	<b>Exhibit A</b>
Requested Risk Charge	<b>200%</b>
<b>Notice of Hearing</b>	
Proposed Notice of Hearing	<b>See Application</b>
Proof of Mailed Notice of Hearing (20 days before hearing)	<b>Exhibit F</b>

Proof of Published Notice of Hearing (10 days before hearing)	Exhibit G
<b>Ownership Determination</b>	
Land Ownership Schematic of the Spacing Unit	Exhibit B, Slide 6
Tract List (including lease numbers and owners)	Exhibit B, Slide 7
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to notice requirements.	Exhibit B, Slide 10
Pooled Parties (including ownership type)	Exhibit B, Slides 6 & 8
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above & below)	N/A
<b>Joinder</b>	
Sample Copy of Proposal Letter	Exhibit A-2
List of Interest Owners (ie Exhibit A of JOA)	Exhibit B, Slide 6
Chronology of Contact with Non-Joined Working Interests	Exhibit B, Slide 9
Overhead Rates In Proposal Letter	Exhibit A-2
Cost Estimate to Drill and Complete	Exhibit A-2
Cost Estimate to Equip Well	Exhibit A-2
Cost Estimate for Production Facilities	Exhibit A-2
<b>Geology</b>	
Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibit B, Slide 13
Gunbarrel/Lateral Trajectory Schematic	Exhibit B, Slide 13
Well Orientation (with rationale)	Exhibit C
Target Formation	Exhibit B, Slide 13
HSU Cross Section	Exhibit B, Slide 16
Depth Severance Discussion	N/A
<b>Forms, Figures and Tables</b>	
C-102	Exhibit A-1
Tracts	Exhibit B, Slide 7
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit B, Slide 6
General Location Map (including basin)	Exhibit B, Slide 11
Well Bore Location Map	Exhibit B, Slides 16-18
Structure Contour Map - Subsea Depth	Exhibit B, Slides 14 & 15
Cross Section Location Map (including wells)	Exhibit B, Slide 16
Cross Section (including Landing Zone)	Exhibit B, Slide 16
<b>Additional Information</b>	
Special Provisions/Stipulations	N/A
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
<b>Printed Name</b> (Attorney or Party Representative):	Michael H. Feldewert
<b>Signed Name</b> (Attorney or Party Representative):	
<b>Date:</b>	5/22/2024

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

**APPLICATION OF APACHE CORPORATION FOR  
APPROVAL OF A NON-STANDARD HORIZONTAL  
WELL SPACING UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**Case No. 24141**

**APPLICATION OF AVANT OPERATING, LLC  
FOR COMPULSORY POOLING AND APPROVAL  
OF NON-STANDARD SPACING UNIT,  
LEA COUNTY, NEW MEXICO**

**Case No. 24254**

**SELF-AFFIRMED STATEMENT OF BLAKE JOHNSON, LANDMAN**

1. My name is Blake Johnson and I am employed by Apache Corporation (“Apache”) as a petroleum landman. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. I am familiar with the applications filed in these matters and the status of the lands in the subject area.

2. Apache seeks an order (a) approving a non-standard 1280-acre, more or less, horizontal well spacing unit in the Bone Spring formation underlying Sections 11 and 14, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico and (b) pooling all uncommitted interests in this acreage.

3. This acreage is comprised of federal lands. There are no depth severances within the Bone Spring formation underlying this acreage.

4. Apache seeks approval of a non-standard spacing unit to allow the commingling of production at central facilities, and to minimize cost and surface disturbance. Due to the nature and configuration of the federal leases in the subject area, the Bureau of Land Management (“BLM”) will not approve the commingling of

**BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A  
Submitted by: Apache Corporation  
Hearing Date: May 29, 2024  
Case No. 24141**



production at central facilities if the subject area is developed using standard horizontal well spacing units. See, e.g., 43 CFR 3173.14 (addressing authorized commingling). However, if the proposed non-standard spacing unit is approved by the Division, the BLM has stated it will issue a corresponding Communitization Agreement for the federal leases within the subject area to allow commingling and the corresponding reduction of the necessary surface facilities.

5. Apache seeks to initially dedicate the proposed horizontal spacing unit to the following proposed eight wells to be drilled from two well pads with in the S2S2 of Section 14:

- **Dustbowl 11-14 Fed Com 101H and Dustbowl 11-14 Fed Com 201H** wells, with first take points in the SW4SW4 (Unit M) of Section 14 and last take points in the NW4NW4 (Unit D) of Section 11;
- **Dustbowl 11-14 Fed Com 102H and Dustbowl 11-14 Fed Com 202H** wells, with first take points in the SE4SW4 (Unit N) of Section 14 and last take points in the NE4NW4 (Unit C) of Section 11;
- **Dustbowl 11-14 Fed Com 103H and Dustbowl 11-14 Fed Com 203H** wells, with first take points in the SW4SE4 (Unit O) of Section 14 and last take points in the NW4NE4 (Unit B) of Section 11; and
- **Dustbowl 11-14 Fed Com 104H and Dustbowl 11-14 Fed Com 204H** wells, with first take points in the SE4SE4 (Unit P) of Section 14 and last take points in the NE4NE4 (Unit A) of Section 11.

6. **Apache Exhibit A-1** contains Form C-102's in numerical order for the proposed initial wells. These forms demonstrate that the completed intervals for each well will meet the standard setback requirements for horizontal oil wells.

7. These Form C-102s have not been filed with the Division but were filed with the BLM in the Fall of 2023 due to the time necessary to obtain approved federal drilling permits. Apache has a term assignment for a portion of this acreage that requires Apache to spud wells no later than the end of March of 2025. In addition, this acreage is in the Lesser Prairie Chicken habitat and operators cannot obtain any necessary drilling waivers until after the BLM has approved the drilling permits. Once these drilling permits are approved by the BLM, and Apache obtains approval from the Division for a non-standard spacing unit, Apache intends to sundry these permits to change the dedicated acreage for each well from 320-acres to 1280-acres.

8. The application filed by Avant Operating, LLC (“Avant”) under Case 24254 seeks to pool this same acreage for Avant’s proposed “Grayling” wells. Accordingly, the primary issue in these consolidated cases is who should be the operator of the proposed 1280-acre spacing unit. To address this issue, Apache has created a series of slides that comprise **Apache Exhibit B**. The first two slides contain a cover sheet and a general index of the topics addressed. I will address Slides 3 through 10 and the additional exhibits attached to this statement.

9. **Slide 3 of Apache Exhibit B** is a general location map showing the proposed horizontal spacing unit and the lateral trajectory of Apache’s initial eight wells, with four to be in the 1st Bone Spring Sand and four to be in the 2nd Bone Spring Sand intervals of the Bone Spring formation. Apache anticipates developing other potentially productive intervals in the Bone Spring and Wolfcamp formations at a later time when more information is available about these intervals and additional gas takeaway capacity exists in this area. This phased development approach also reduces the need for Apache to oversize the facility, which will be discussed later by our engineer.

10. **Slide 4 of Apache Exhibit B** compares the general spacing and depth of Apache's proposed Dustbowl wells with Avant's proposed Grayling wells in the 1st and 2nd Bone Spring intervals. It demonstrates that the primary difference is Apache has proposed four wells in each interval per section while Avant has proposed six wells in each interval per section. There are also differences in the depths of the proposed wells based on the information provided in Avant's well proposal letter.

11. Since Apache has a term assignment for a portion of this acreage that requires Apache to spud wells no later than the end of March of 2025, Apache has been working diligently to move development of this acreage forward. In addition to filing federal drilling permits in the Fall of 2023, and its pooling application in January of 2024, **Slide 5 of Apache Exhibit B** notes other efforts Apache has undertaken since August of 2022 to meet the drilling deadline.

12. **Slides 6, 7 and 8 of Exhibit B** identify the federal tracts comprising the proposed spacing unit, the working interest in each tract and the consolidated working interest for the proposed spacing unit.

13. Slide 6 of Exhibit B demonstrates Apache and its affiliate ZPZ Delaware I, LLC own over 46% of the subject acreage, and that almost 52% of the working interest favor of Apache's development plan. In contrast, Avant holds only 1.6% of the acreage, and with partners Legion Production Partners and Double Cabin Minerals, LLC, only has control of 26% of the working interest.

14. The working interest owners that remain to be pooled are identified on Slide 6 and Slide 8 identifies a group of overriding royalty owners that Apache also seeks to pool. Apache

has provided the law firm of Holland & Hart, LLP, with the names and addresses of the mineral owners that remain to be pooled and instructed that they be notified of this hearing.

15. **Slide 9 of Exhibit B** contains a chronology of the contacts with the working interest owners that Apache seeks to pool. It demonstrates that Apache has undertaken good faith efforts to reach agreement with these working interest owners on an initial development plan.

16. **Exhibit A-2** attached hereto contains a sample of the well proposal letters and AFEs sent to the working interest owners Apache seeks to pool. The costs reflected in these AFEs are consistent with what Apache and other operators have incurred for drilling similar horizontal wells in the area in the subject formation.


17. Apache requests that the overhead and administrative costs for drilling and producing the proposed wells be set at \$9,000 per month while drilling and \$900 per month while producing. These costs are consistent with what Apache and other operators are charging in this area for similar wells.

18. **Slide 10 of Exhibit B** is a plat identifying the tracts that adjoin the proposed non-standard spacing unit and a list of the affected parties in these tracts. Apache instructed the law firm of Holland & Hart, LLP to provide notice of this hearing to these additional affected parties.

19. In compiling these addresses of the parties to be pooled and the parties affected by the request for a non-standard spacing unit, Apache has conducted a diligent search of all public records in the county where the proposed unit is located, reviewed telephone directories, and conducted computer searches.

20. Exhibits A-1 and A-2, attached hereto, and Slides 1 through 10 of Apache Exhibit B were either prepared by me or compiled under the direction of Apache's land department.

21. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

  
Blake Johnson

5/22/24  
Date

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Table with 3 columns: 1 API Number, 2 Pool Code, 3 Pool Name, 4 Property Code, 5 Property Name, 6 Well Number, 7 GRID NO., 8 Operator Name, 9 Elevation.

10 Surface Location

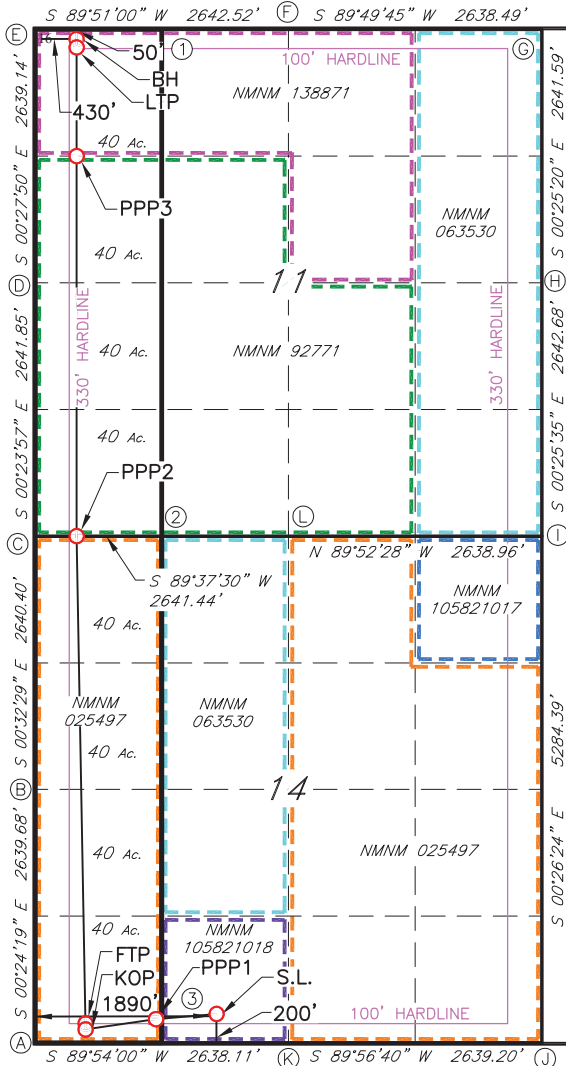
Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet From the, East/West line, County.

11 Bottom Hole Location If Different From Surface

Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Table with 4 columns: 12 Dedicated Acres, 13 Joint or Infill, 14 Consolidation Code, 15 Order No.

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION (SL)
N: 602048.4 - E: 724163.3
LAT: 32.6536725° N
LONG: 103.7393015° W
PROPOSED PENETRATION POINT 1 (PPP1)
138' FSL - 1319' FWL SEC.14
N: 601985.0 - E: 723592.8
LAT: 32.6535069° N
LONG: 103.7411559° W
MD: 4360.4 - TVD: 4243.2
KICK OFF POINT (KOP)
50' FSL & 531' FWL - SEC.14
N: 601897.4 - E: 722806.1
LAT: 32.6532784° N
LONG: 103.7347137° W
MD: 8200.0 - TVD: 8016.6
FIRST TAKE POINT (FTP)
100' FSL & 525' FWL - SEC 14
N: 601946.0 - E: 722799.7
LAT: 32.6534120° N
LONG: 103.7347335° W
MD: 8604.4 - TVD: 8414.7
PROPOSED PENETRATION POINT 2 (PPP2)
0' FSL - 430' FWL SEC.11
N: 607126.7 - E: 722663.6
LAT: 32.6676535° N
LONG: 103.7440823° W
MD: 13935.4 - TVD: 8732.7
PROPOSED PENETRATION POINT 3 (PPP3)
1320' FNL - 430' FWL SEC.11
N: 611085.3 - E: 722633.2
LAT: 32.6785346° N
LONG: 103.7441096° W
MD: 17894.2 - TVD: 8708.8
LAST TAKE POINT (LTP)
100' FNL - 430' FWL SEC.11
N: 612304.7 - E: 722622.5
LAT: 32.6818861° N
LONG: 103.7441227° W
MD: 19100.0 - TVD: 8700.2
BOTTOM HOLE (BH)
N: 612354.7 - E: 722622.1
LAT: 32.6820235° N
LONG: 103.7441231° W
MD: 19163.0 - TVD: 8700.0

17 OPERATOR CERTIFICATION
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Signature \_\_\_\_\_ Date \_\_\_\_\_
Printed Name \_\_\_\_\_
E-mail Address \_\_\_\_\_
18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
05/09/2019
Date of Survey
Signature and Seal of Professional Surveyor
DALE E. BELL
NEW MEXICO
14400
10/23/23
14400
Certificate Number

Job No.: LS23080748R



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1625 N. French Dr., Hobbs, NM 88240  
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1220 South St. Francis Dr.  
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Form C-102  
Revised August 1, 2011  
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code <b>41442</b>		<sup>3</sup> Pool Name <b>Lusk; Bone Spring, East</b>	
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>DUSTBOWL 11-14 FED COM</b>			<sup>6</sup> Well Number <b>101H</b>
<sup>7</sup> OGRID NO. <b>873</b>		<sup>8</sup> Operator Name <b>APACHE CORPORATION</b>			<sup>9</sup> Elevation <b>3619'</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>N</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>200</b>	<b>SOUTH</b>	<b>1890</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>D</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>430</b>	<b>WEST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

<p><sup>16</sup></p> <p style="text-align: center;"><u>CORNER DATA</u> NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1912" N: 601845.1 - E: 722275.1</p> <p>B: FOUND BRASS CAP "1912" N: 604484.2 - E: 722256.5</p> <p>C: FOUND BRASS CAP "1912" N: 607123.9 - E: 722231.5</p> <p>D: FOUND BRASS CAP "1912" N: 609765.1 - E: 722213.1</p> <p>E: CALCULATED CORNER N: 612403.5 - E: 722191.7</p> <p>F: FOUND BRASS CAP "1912" N: 612410.4 - E: 724833.7</p> <p>G: FOUND BRASS CAP "1912" N: 612418.3 - E: 727471.6</p> <p>H: FOUND BRASS CAP "1912" N: 609777.4 - E: 727491.0</p> <p>I: FOUND BRASS CAP "1912" N: 607135.4 - E: 727510.7</p> <p>J: FOUND BRASS CAP "1912" N: 601852.3 - E: 727551.2</p> <p>K: FOUND BRASS CAP "1912" N: 601849.7 - E: 724912.6</p> <p>L: FOUND BRASS CAP "1912" N: 607141.1 - E: 724872.3</p> <p style="text-align: center;"><u>CALCULATED POINTS</u></p> <p>1: N: 612407.2 - E: 723511.7 2: N: 607132.5 - E: 723551.9 3: N: 601847.4 - E: 723593.9</p>	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <hr/> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p><b>05/09/2019</b> Date of Survey</p> <p>Signature and Seal of Professional Surveyor _____</p> <div style="text-align: center;"> </div> <p><b>14400</b> Certificate Number</p>
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code <b>41442</b>		3 Pool Name <b>Lusk; Bone Spring, East</b>	
4 Property Code		5 Property Name <b>DUSTBOWL 11-14 FED COM</b>			6 Well Number <b>102H</b>
7 OGRID NO. <b>873</b>		8 Operator Name <b>APACHE CORPORATION</b>			9 Elevation <b>3620'</b>

10 Surface Location

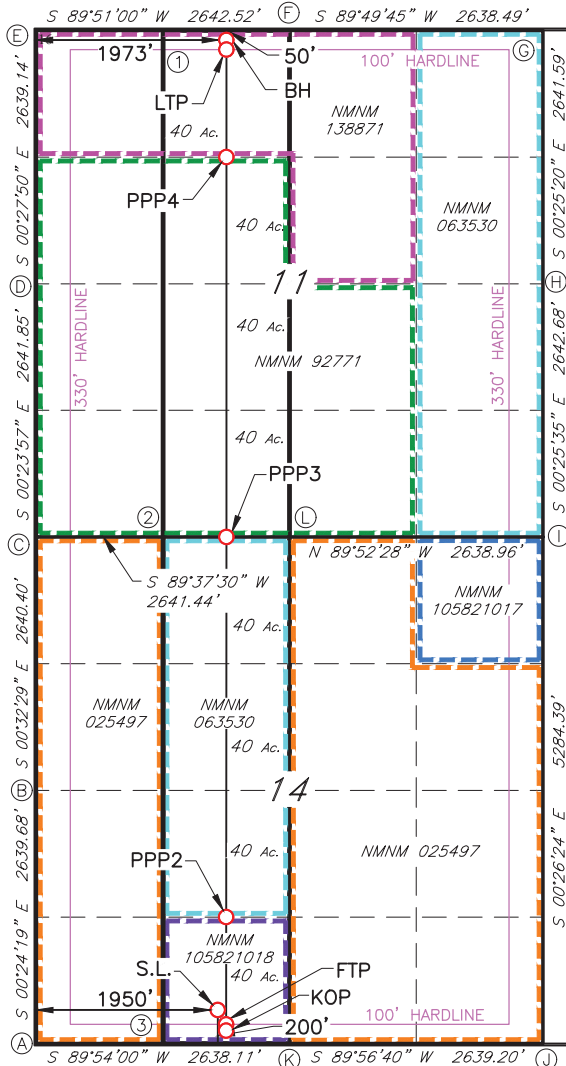
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>N</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>200</b>	<b>SOUTH</b>	<b>1950</b>	<b>WEST</b>	<b>LEA</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1973</b>	<b>WEST</b>	<b>LEA</b>

12 Dedicated Acres <b>320</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



**GEODETIC DATA**  
NAD 83 GRID - NM EAST

**SURFACE LOCATION (SL)**  
N: 602048.5 - E: 724223.3  
LAT: 32.6536718° N  
LONG: 103.7391064° W

**KICK OFF POINT (KOP)**  
50' FSL & 1973' FEL - SEC.14  
N: 601899.2 - E: 724247.3  
LAT: 32.6532612° N  
LONG: 103.7390311° W  
MD: 8200.0 - TVD: 8197.5

**FIRST TAKE POINT (FTP)**  
100' FSL & 1973' FWL - SEC.14  
N: 601948.6 - E: 724247.0  
LAT: 32.6533968° N  
LONG: 103.7390314° W  
MD: 8442.1 - TVD: 8134.5

**PROPOSED PENETRATION POINT 2 (PPP2)**  
1320' FNL - 1973' FWL SEC.14  
N: 603168.2 - E: 724238.4  
LAT: 32.6567491° N  
LONG: 103.7390371° W  
MD: 9787.6 - TVD: 8757.5

**PROPOSED PENETRATION POINT 3 (PPP3)**  
0' FSL - 1973' FWL SEC.11  
N: 607136.8 - E: 724207.2  
LAT: 32.6676576° N  
LONG: 103.7390661° W  
MD: 13756.4 - TVD: 8732.7

**PROPOSED PENETRATION POINT 4 (PPP4)**  
1320' FNL - 1973' FWL SEC.11  
N: 611089.2 - E: 724176.2  
LAT: 32.6785214° N  
LONG: 103.7390950° W  
MD: 17789.0 - TVD: 8707.9

**LAST TAKE POINT (LTP)**  
100' FNL - 1973' FWL SEC.11  
N: 612308.7 - E: 724165.1  
LAT: 32.6818736° N  
LONG: 103.7391089° W  
MD: 18928.5 - TVD: 8700.2

**BOTTOM HOLE (BH)**  
N: 612358.7 - E: 724164.7  
LAT: 32.6820110° N  
LONG: 103.7391093° W  
MD: 18979.5 - TVD: 8700.0

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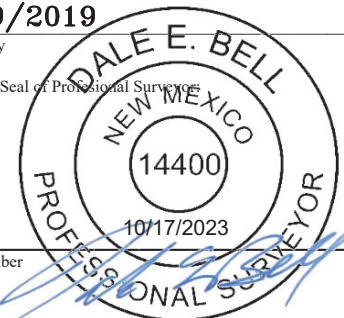
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
E-mail Address \_\_\_\_\_

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**05/09/2019**

Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor \_\_\_\_\_



**14400**

Certificate Number

Job No.: LS23080750R



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WELL LOCATION AND ACREAGE DEDICATION PLAT

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<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>DUSTBOWL 11-14 FED COM</b>			<sup>6</sup> Well Number <b>102H</b>
<sup>7</sup> OGRID NO. <b>873</b>		<sup>8</sup> Operator Name <b>APACHE CORPORATION</b>			<sup>9</sup> Elevation <b>3620'</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>N</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>200</b>	<b>SOUTH</b>	<b>1950</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1973</b>	<b>WEST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code <b>41442</b>		3 Pool Name <b>Lusk; Bone Spring, East</b>	
4 Property Code		5 Property Name <b>DUSTBOWL 11-14 FED COM</b>			6 Well Number <b>103H</b>
7 GRID NO. <b>873</b>		8 Operator Name <b>APACHE CORPORATION</b>			9 Elevation <b>3618'</b>

10 Surface Location

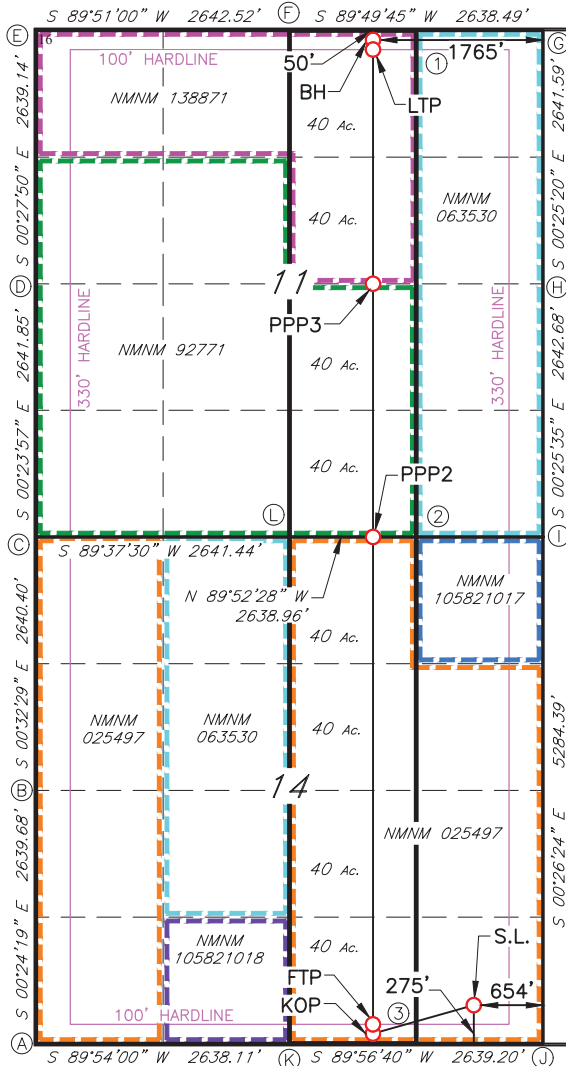
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>P</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>275</b>	<b>SOUTH</b>	<b>654</b>	<b>EAST</b>	<b>LEA</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>B</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1765</b>	<b>EAST</b>	<b>LEA</b>

12 Dedicated Acres <b>320</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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**GEODETIC DATA**  
NAD 83 GRID - NM EAST

**SURFACE LOCATION (SL)**  
N: 602126.6 - E: 726894.7  
LAT: 32.6538452° N  
LONG: 103.7304256° W

**KICK OFF POINT (KOP)**  
75' FSL & 1765' FEL - SEC.14  
N: 601925.9 - E: 725783.9  
LAT: 32.6533109° N  
LONG: 103.7340382° W  
MD: 8304.3 - TVD: 8189.0

**FIRST TAKE POINT (FTP)**  
100' FSL & 1765' FEL - SEC.14  
N: 601950.6 - E: 725723.7  
LAT: 32.6533785° N  
LONG: 103.7340385° W  
MD: 8475.2 - TVD: 8357.1

**PROPOSED PENETRATION POINT 2 (PPP2)**  
0' FNL - 1765' FEL SEC.14  
N: 607139.2 - E: 725743.9  
LAT: 32.6676406° N  
LONG: 103.7340728° W  
MD: 13844.9 - TVD: 8732.7

**PROPOSED PENETRATION POINT 3 (PPP3)**  
2635' FSL - 1765' FEL SEC.11  
N: 609773.2 - E: 725723.6  
LAT: 32.6748806° N  
LONG: 103.7340902° W  
MD: 16479.0 - TVD: 8716.1

**LAST TAKE POINT (LTP)**  
100' FNL - 1765' FEL SEC.11  
N: 612313.0 - E: 725704.0  
LAT: 32.6818617° N  
LONG: 103.7341072° W  
MD: 19020.0 - TVD: 8700.3

**BOTTOM HOLE (BH)**  
N: 612364.4 - E: 725703.4  
LAT: 32.6820030° N  
LONG: 103.7341083° W  
MD: 19070.4 - TVD: 8700.0

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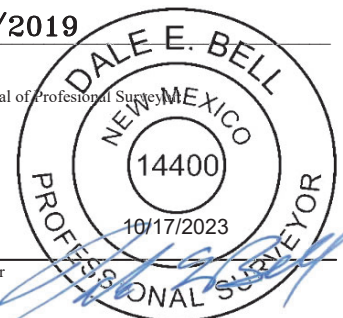
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
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Certificate Number

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<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>DUSTBOWL 11-14 FED COM</b>			<sup>6</sup> Well Number <b>103H</b>
<sup>7</sup> OGRID NO. <b>873</b>		<sup>8</sup> Operator Name <b>APACHE CORPORATION</b>			<sup>9</sup> Elevation <b>3618'</b>

<sup>10</sup> Surface Location

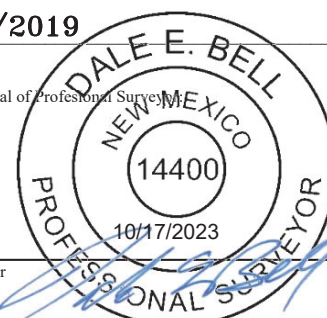
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>P</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>275</b>	<b>SOUTH</b>	<b>655</b>	<b>EAST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>B</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1765</b>	<b>EAST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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<p><sup>16</sup></p> <p style="text-align: center;"><u>CORNER DATA</u> NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1912" N: 601845.1 - E: 722275.1</p> <p>B: FOUND BRASS CAP "1912" N: 604484.2 - E: 722256.5</p> <p>C: FOUND BRASS CAP "1912" N: 607123.9 - E: 722231.5</p> <p>D: FOUND BRASS CAP "1912" N: 609765.1 - E: 722213.1</p> <p>E: CALCULATED CORNER N: 612403.5 - E: 722191.7</p> <p>F: FOUND BRASS CAP "1912" N: 612410.4 - E: 724833.7</p> <p>G: FOUND BRASS CAP "1912" N: 612418.3 - E: 727471.6</p> <p>H: FOUND BRASS CAP "1912" N: 609777.4 - E: 727491.0</p> <p>I: FOUND BRASS CAP "1912" N: 607135.4 - E: 727510.7</p> <p>J: FOUND BRASS CAP "1912" N: 601852.3 - E: 727551.2</p> <p>K: FOUND BRASS CAP "1912" N: 601849.7 - E: 724912.6</p> <p>L: FOUND BRASS CAP "1912" N: 607141.1 - E: 724872.3</p> <p style="text-align: center;"><u>CALCULATED POINTS</u></p> <p>1: N: 612414.6 - E: 726151.6 2: N: 607138.2 - E: 726191.5 3: N: 601851.0 - E: 726231.9</p>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <hr/> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p><b>05/09/2019</b> Date of Survey</p> <p>Signature and Seal of Professional Surveyor  </p> <p><b>14400</b> Certificate Number</p>
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Job No.: LS23080752R

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code <b>41442</b>		3 Pool Name <b>Lusk; Bone Spring, East</b>	
4 Property Code		5 Property Name <b>DUSTBOWL 11-14 FED COM</b>			6 Well Number <b>104H</b>
7 OGRID NO. <b>873</b>		8 Operator Name <b>APACHE CORPORATION</b>			9 Elevation <b>3618'</b>

10 Surface Location

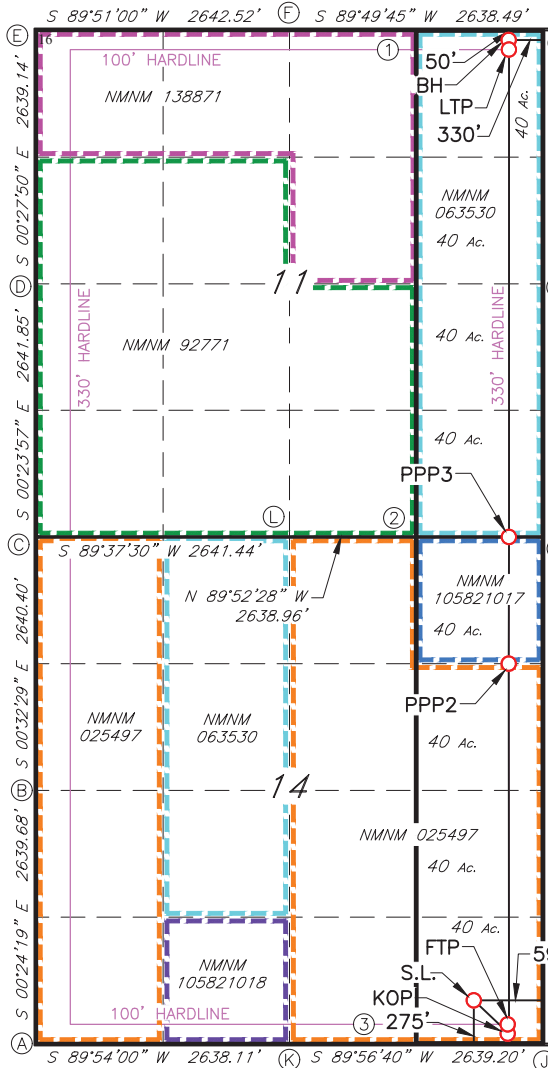
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>P</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>275</b>	<b>SOUTH</b>	<b>594</b>	<b>EAST</b>	<b>LEA</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>A</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>330</b>	<b>EAST</b>	<b>LEA</b>

12 Dedicated Acres <b>320</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



**GEODETIC DATA**  
NAD 83 GRID - NM EAST

**SURFACE LOCATION (SL)**  
N: 602127.3 - E: 726954.9  
LAT: 32.6538462° N  
LONG: 103.7302301° W

**KICK OFF POINT (KOP)**  
50' FSL & 330' FEL - SEC.14  
N: 601901.0 - E: 727219.8  
LAT: 32.6532200° N  
LONG: 103.7293735° W  
MD: 8199.2 - TVD: 8189.0

**FIRST TAKE POINT (FTP)**  
100' FSL & 330' FEL - SEC.14  
N: 601951.9 - E: 727219.4  
LAT: 32.6533600° N  
LONG: 103.7293738° W  
MD: 8446.9 - TVD: 8431.9

**PROPOSED PENETRATION POINT 2 (PPP2)**  
1322' FNL - 330' FEL SEC.14  
N: 605814.6 - E: 727191.1  
LAT: 32.6639773° N  
LONG: 103.7293944° W  
MD: 12440.1 - TVD: 8701.0

**PROPOSED PENETRATION POINT 3 (PPP3)**  
0' FNL - 330' FEL SEC.14  
N: 607136.1 - E: 727181.4  
LAT: 32.6676095° N  
LONG: 103.7294015° W  
MD: 13761.5 - TVD: 8732.7

**LAST TAKE POINT (LTP)**  
100' FNL - 330' FEL SEC.11  
N: 612317.3 - E: 727143.6  
LAT: 32.6818511° N  
LONG: 103.7294285° W  
MD: 18943.0 - TVD: 8720.1

**BOTTOM HOLE (BH)**  
N: 612368.4 - E: 727143.4  
LAT: 32.6819914° N  
LONG: 103.7294282° W  
MD: 18994.1 - TVD: 8700.0

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

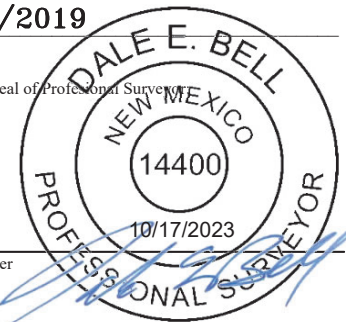
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
E-mail Address \_\_\_\_\_

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

**05/09/2019**

Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor \_\_\_\_\_



**14400**  
Certificate Number

Job No.: LS23080754R

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code <b>41442</b>		<sup>3</sup> Pool Name <b>Lusk; Bone Spring, East</b>	
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>DUSTBOWL 11-14 FED COM</b>			<sup>6</sup> Well Number <b>104H</b>
<sup>7</sup> OGRID NO. <b>873</b>		<sup>8</sup> Operator Name <b>APACHE CORPORATION</b>			<sup>9</sup> Elevation <b>3618'</b>

<sup>10</sup> Surface Location

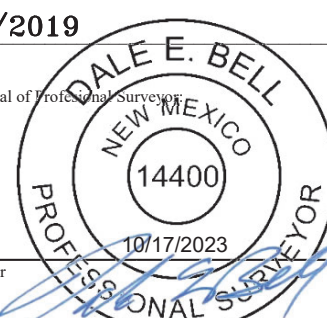
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>P</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>275</b>	<b>SOUTH</b>	<b>595</b>	<b>EAST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>A</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>330</b>	<b>EAST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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<p><sup>16</sup></p> <p style="text-align: center;">CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1912" N: 601845.1 - E: 722275.1</p> <p>B: FOUND BRASS CAP "1912" N: 604484.2 - E: 722256.5</p> <p>C: FOUND BRASS CAP "1912" N: 607123.9 - E: 722231.5</p> <p>D: FOUND BRASS CAP "1912" N: 609765.1 - E: 722213.1</p> <p>E: CALCULATED CORNER N: 612403.5 - E: 722191.7</p> <p>F: FOUND BRASS CAP "1912" N: 612410.4 - E: 724833.7</p> <p>G: FOUND BRASS CAP "1912" N: 612418.3 - E: 727471.6</p> <p>H: FOUND BRASS CAP "1912" N: 609777.4 - E: 727491.0</p> <p>I: FOUND BRASS CAP "1912" N: 607135.4 - E: 727510.7</p> <p>J: FOUND BRASS CAP "1912" N: 601852.3 - E: 727551.2</p> <p>K: FOUND BRASS CAP "1912" N: 601849.7 - E: 724912.6</p> <p>L: FOUND BRASS CAP "1912" N: 607141.1 - E: 724872.3</p> <p style="text-align: center;">CALCULATED POINTS</p> <p>1: N: 612414.6 - E: 726151.6 2: N: 607138.2 - E: 726191.5 3: N: 601851.0 - E: 726231.9</p>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <hr/> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p><b>05/09/2019</b> Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <div style="text-align: center;">  </div> <p><b>14400</b> Certificate Number</p> <p style="text-align: right;">10/17/2023</p>
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Job No.: LS23080754R



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WELL LOCATION AND ACREAGE DEDICATION PLAT

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4 Property Code		5 Property Name <b>DUSTBOWL 11-14 FED COM</b>			6 Well Number <b>201H</b>
7 OGRID NO. <b>873</b>		8 Operator Name <b>APACHE CORPORATION</b>			9 Elevation <b>3620'</b>

10 Surface Location

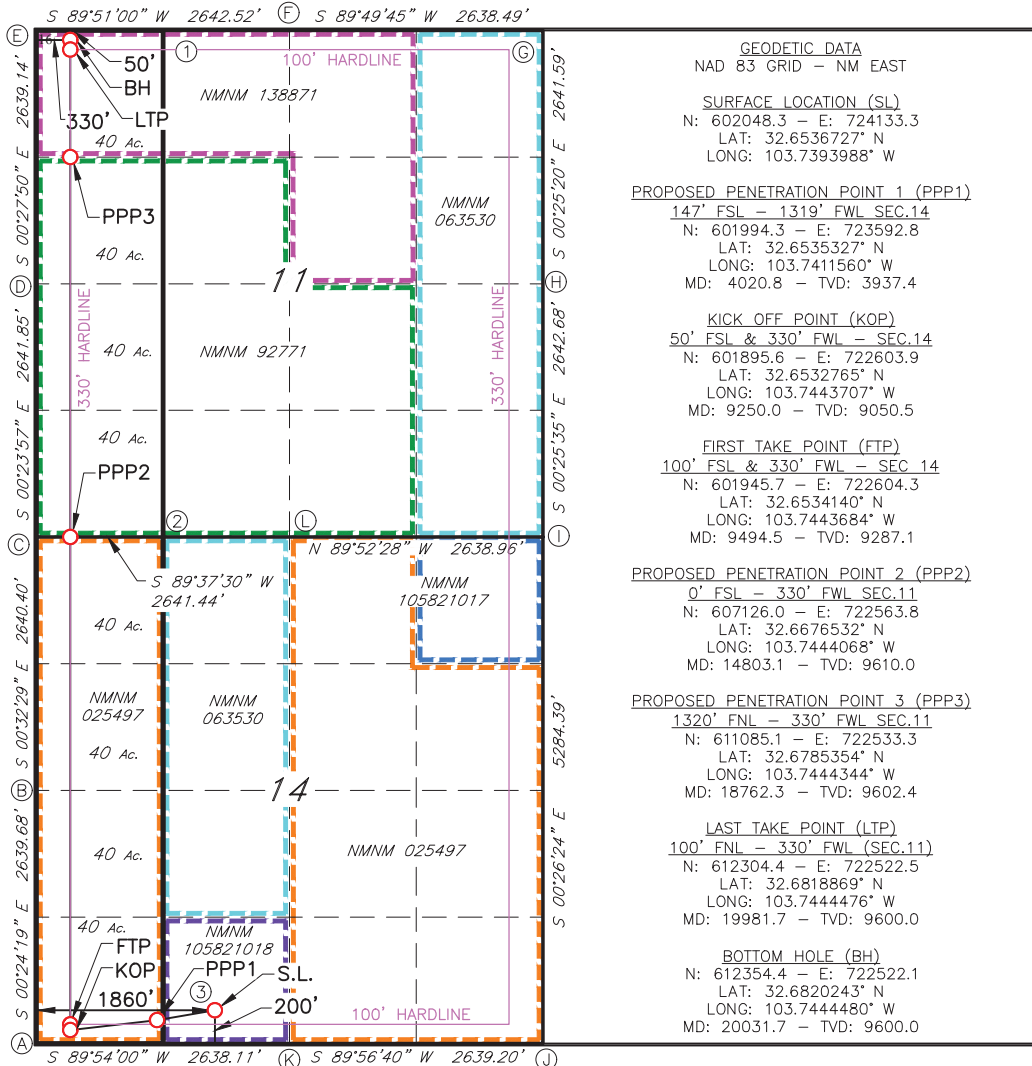
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<b>N</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>200</b>	<b>SOUTH</b>	<b>1860</b>	<b>WEST</b>	<b>LEA</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>D</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>330</b>	<b>WEST</b>	<b>LEA</b>

12 Dedicated Acres <b>320</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
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**05/09/2019**  
Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor \_\_\_\_\_  
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Certificate Number \_\_\_\_\_



Job No.: LS23080747R

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<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>DUSTBOWL 11-14 FED COM</b>			<sup>6</sup> Well Number <b>201H</b>
<sup>7</sup> OGRID NO. <b>873</b>		<sup>8</sup> Operator Name <b>APACHE CORPORATION</b>			<sup>9</sup> Elevation <b>3620'</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>N</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>200</b>	<b>SOUTH</b>	<b>1860</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>D</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>330</b>	<b>WEST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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4 Property Code		5 Property Name <b>DUSTBOWL 11-14 FED COM</b>			6 Well Number <b>202H</b>
7 OGRID NO. <b>873</b>		8 Operator Name <b>APACHE CORPORATION</b>			9 Elevation <b>3620'</b>

10 Surface Location

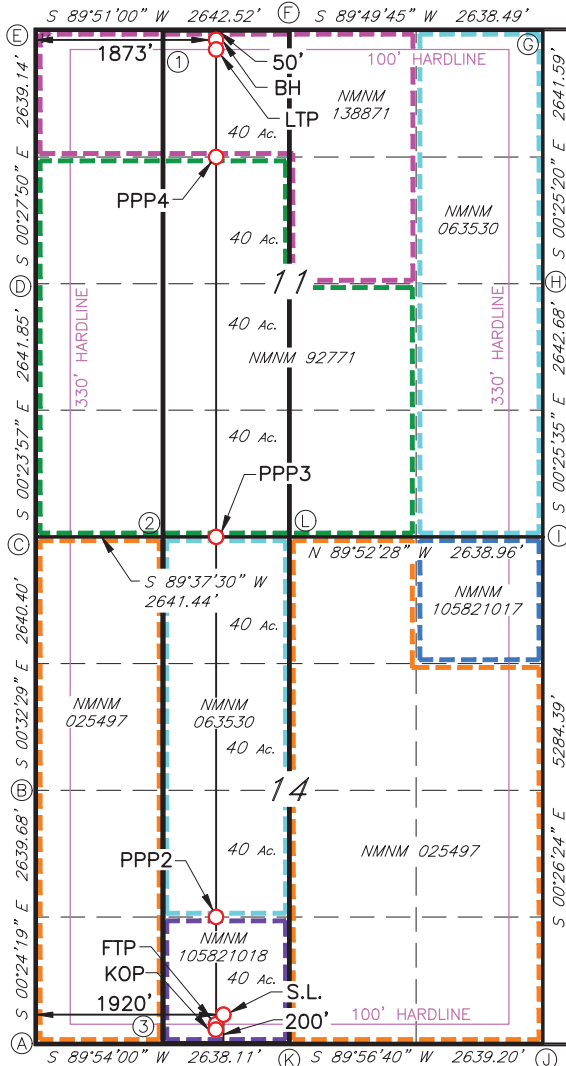
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>N</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>200</b>	<b>SOUTH</b>	<b>1920</b>	<b>WEST</b>	<b>LEA</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1873</b>	<b>WEST</b>	<b>LEA</b>

12 Dedicated Acres <b>320</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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**GEODETIC DATA**  
NAD 83 GRID - NM EAST

**SURFACE LOCATION (SL)**  
N: 602048.4 - E: 724193.3  
LAT: 32.6536721° N  
LONG: 103.7392040° W

**KICK OFF POINT (KOP)**  
50' FSL & 1873' FWL - SEC.14  
N: 601898.4 - E: 724147.0  
LAT: 32.6532605° N  
LONG: 103.7393558° W  
MD: 9049.7 - TVD: 9046.0

**FIRST TAKE POINT (FTP)**  
100' FSL & 1873' FWL - SEC 14  
N: 601948.4 - E: 724147.0  
LAT: 32.6533978° N  
LONG: 103.7393562° W  
MD: 9296.2 - TVD: 9284.9

**PROPOSED PENETRATION POINT 2 (PPP2)**  
1320' FSL - 1873' FWL SEC.14  
N: 603168.0 - E: 724134.0  
LAT: 32.6567502° N  
LONG: 103.7393762° W  
MD: 10646.39 - TVD: 9617.6

**PROPOSED PENETRATION POINT 3 (PPP3)**  
0' FSL - 1873' FWL SEC.11  
N: 607136.1 - E: 724102.9  
LAT: 32.6676573° N  
LONG: 103.7394052° W  
MD: 14614.6 - TVD: 9610.0

**PROPOSED PENETRATION POINT 4 (PPP4)**  
1320' FNL - 1873' FWL SEC.11  
N: 611088.9 - E: 724071.8  
LAT: 32.6785223° N  
LONG: 103.7394343° W  
MD: 18567.6 - TVD: 9602.4

**LAST TAKE POINT (LTP)**  
100' FNL - 1873' FWL SEC.11  
N: 612308.4 - E: 724065.1  
LAT: 32.6818744° N  
LONG: 103.7394339° W  
MD: 19787.2 - TVD: 9600.0

**BOTTOM HOLE (BH)**  
N: 612358.4 - E: 724064.7  
LAT: 32.6820118° N  
LONG: 103.7394343° W  
MD: 19836.8 - TVD: 9600.0

17 OPERATOR CERTIFICATION

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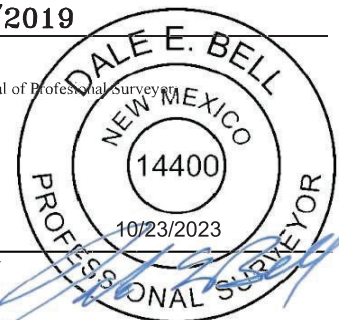
Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
E-mail Address \_\_\_\_\_

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**05/09/2019**

Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor \_\_\_\_\_



**14400**

Certificate Number

Job No.: LS23080749R



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OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code <b>41442</b>		<sup>3</sup> Pool Name <b>Lusk; Bone Spring, East</b>	
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>DUSTBOWL 11-14 FED COM</b>			<sup>6</sup> Well Number <b>202H</b>
<sup>7</sup> OGRID NO. <b>873</b>		<sup>8</sup> Operator Name <b>APACHE CORPORATION</b>			<sup>9</sup> Elevation <b>3620'</b>

<sup>10</sup> Surface Location


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>N</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>200</b>	<b>SOUTH</b>	<b>1920</b>	<b>WEST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1873</b>	<b>WEST</b>	<b>LEA</b>

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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<p><sup>16</sup></p> <p style="text-align: center;"><u>CORNER DATA</u> NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1912" N: 601845.1 - E: 722275.1</p> <p>B: FOUND BRASS CAP "1912" N: 604484.2 - E: 722256.5</p> <p>C: FOUND BRASS CAP "1912" N: 607123.9 - E: 722231.5</p> <p>D: FOUND BRASS CAP "1912" N: 609765.1 - E: 722213.1</p> <p>E: CALCULATED CORNER N: 612403.5 - E: 722191.7</p> <p>F: FOUND BRASS CAP "1912" N: 612410.4 - E: 724833.7</p> <p>G: FOUND BRASS CAP "1912" N: 612418.3 - E: 727471.6</p> <p>H: FOUND BRASS CAP "1912" N: 609777.4 - E: 727491.0</p> <p>I: FOUND BRASS CAP "1912" N: 607135.4 - E: 727510.7</p> <p>J: FOUND BRASS CAP "1912" N: 601852.3 - E: 727551.2</p> <p>K: FOUND BRASS CAP "1912" N: 601849.7 - E: 724912.6</p> <p>L: FOUND BRASS CAP "1912" N: 607141.1 - E: 724872.3</p> <p style="text-align: center;"><u>CALCULATED POINTS</u></p> <p>1: N: 612407.2 - E: 723511.7 2: N: 607132.5 - E: 723551.9 3: N: 601847.4 - E: 723593.9</p>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <hr/> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p><b>05/09/2019</b> Date of Survey</p> <p>Signature and Seal of Professional Surveyor  </p> <p><b>14400</b> Certificate Number</p>
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code <b>41442</b>		3 Pool Name <b>Lusk; Bone Spring, East</b>	
4 Property Code		5 Property Name <b>DUSTBOWL 11-14 FED COM</b>			6 Well Number <b>203H</b>
7 OGRID NO. <b>873</b>		8 Operator Name <b>APACHE CORPORATION</b>			9 Elevation <b>3618'</b>

10 Surface Location

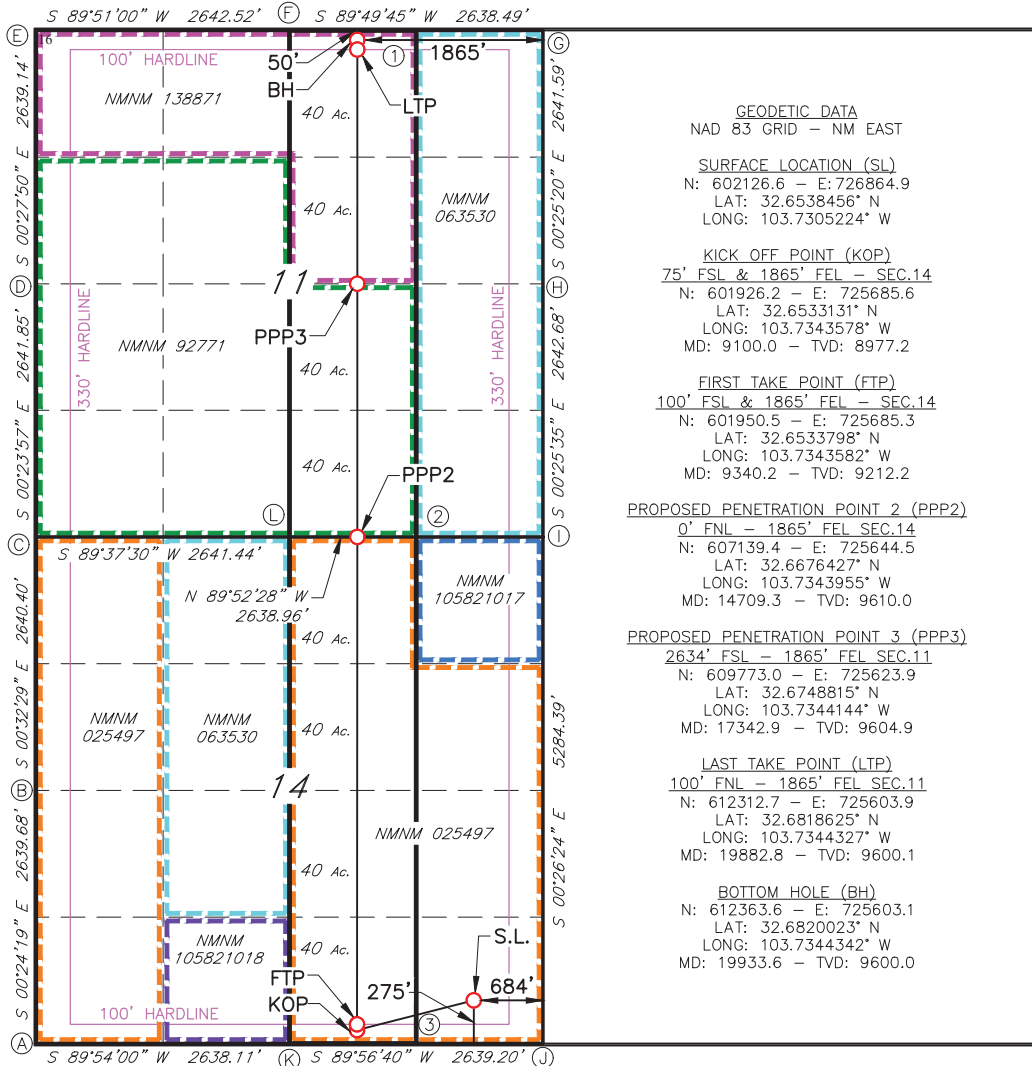
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>P</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>275</b>	<b>SOUTH</b>	<b>684</b>	<b>EAST</b>	<b>LEA</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>B</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1865</b>	<b>EAST</b>	<b>LEA</b>

12 Dedicated Acres <b>320</b>	13 Joint or Infill	14 Consolidation Code	15 Order No.
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Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
E-mail Address \_\_\_\_\_

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**05/09/2019**  
Date of Survey \_\_\_\_\_  
Signature and Seal of Professional Surveyor \_\_\_\_\_

**14400**  
Certificate Number

**DALE E. BELL**  
NEW MEXICO  
14400  
10/17/2023  
PROFESSIONAL SURVEYOR

Job No.: LS23080751R

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<sup>7</sup> GRID NO. <b>873</b>		<sup>8</sup> Operator Name <b>APACHE CORPORATION</b>			<sup>9</sup> Elevation <b>3618'</b>

<sup>10</sup> Surface Location


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>P</b>	<b>14</b>	<b>19S</b>	<b>32E</b>		<b>275</b>	<b>SOUTH</b>	<b>685</b>	<b>EAST</b>	<b>LEA</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>B</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>1865</b>	<b>EAST</b>	<b>LEA</b>

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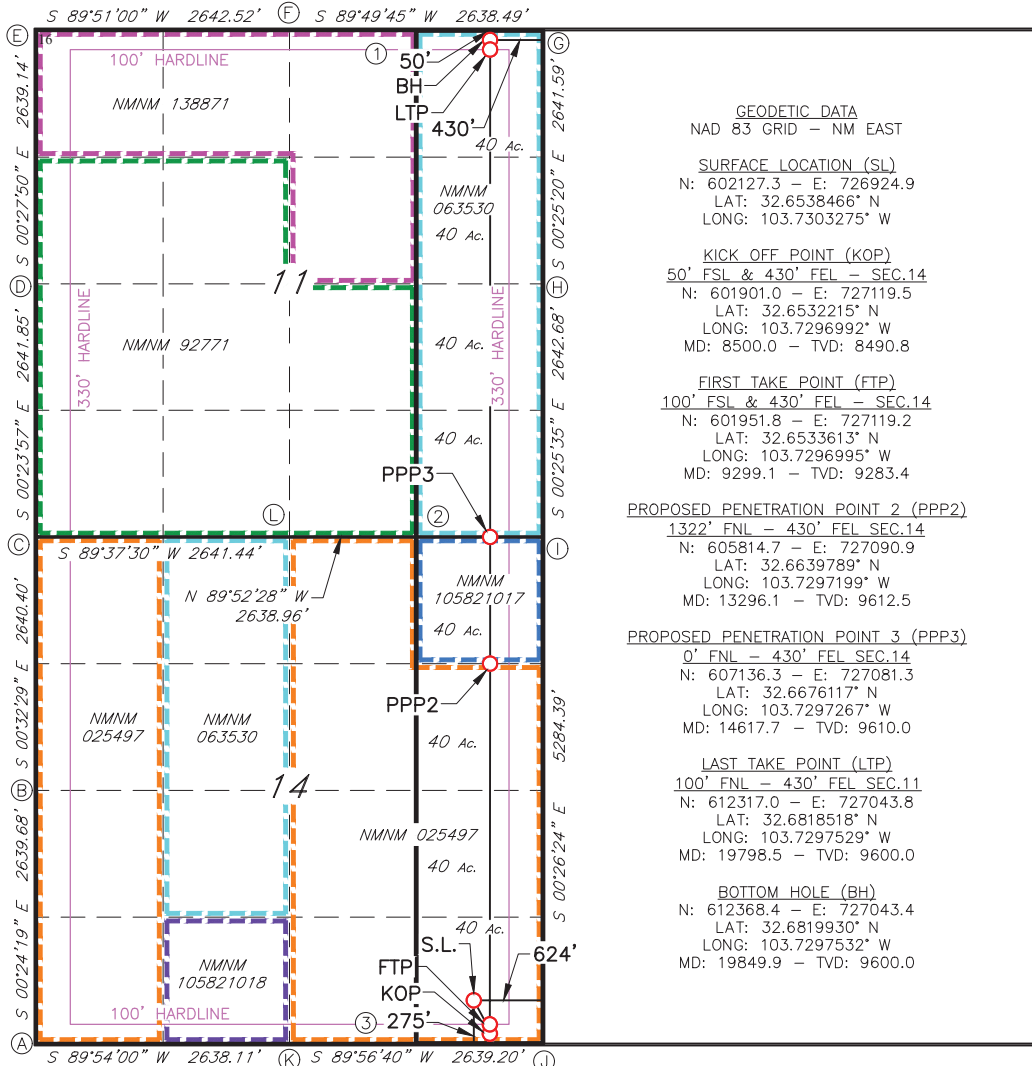
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>A</b>	<b>11</b>	<b>19S</b>	<b>32E</b>		<b>50</b>	<b>NORTH</b>	<b>430</b>	<b>EAST</b>	<b>LEA</b>

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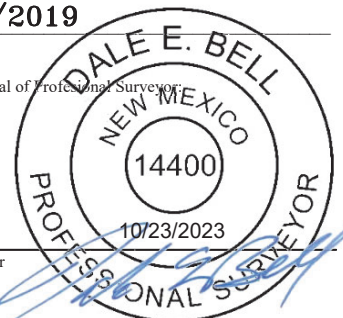
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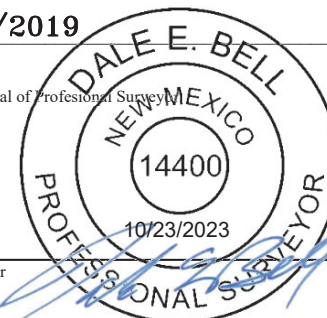
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Job No.: LS23080753R





September 20, 2023

WI Partner  
Address  
City, ST ZIP

VIA CERTIFIED MAIL, RRR

**RE: Dustbowl 11-14 Federal Com Unit**  
All of Sections 11 and 14  
Township 19 South, Range 32 East  
Lea County, New Mexico

Dear Working Interest Owner:

Apache Corporation ("Apache") hereby proposes to form a 1280-acre unit covering all of the above captioned acreage and further proposes to drill the following wells to target the Bone Spring formation:

**Dustbowl 11-14 Federal Com 101H**

- Surface Location: 200' FSL and 1890' FWL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 430' FWL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 430' FWL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 430' FWL, Section 11-T19S-R32E
- TVD: 8700'

**Dustbowl 11-14 Federal Com 102H**

- Surface Location: 200' FSL and 1950' FWL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 1973' FWL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 1973' FWL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 1973' FWL, Section 11-T19S-R32E
- TVD: 8700'

**Dustbowl 11-14 Federal Com 103H**

- Surface Location: 275' FSL and 655' FEL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 1765' FEL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 1765' FEL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 1765' FEL, Section 11-T19S-R32E
- TVD: 8700'

**Dustbowl 11-14 Federal Com 104H**

- Surface Location: 275' FSL and 595' FEL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 330' FEL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 330' FEL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 330' FEL, Section 11-T19S-R32E
- TVD: 8700'

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A-2  
Submitted by: Apache Corporation  
Hearing Date: May 29, 2024  
Case No. 24141

Dustbowl Federal Com Unit  
September 20, 2023  
Page 2 of 4

**Dustbowl 11-14 Federal Com 201H**

- Surface Location: 200' FSL and 1860' FWL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 330' FWL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 330' FWL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 330' FWL, Section 11-T19S-R32E
- TVD: 9600'

**Dustbowl 11-14 Federal Com 202H**

- Surface Location: 200' FSL and 1920' FWL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 1873' FWL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 1873' FWL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 1873' FWL, Section 11-T19S-R32E
- TVD: 9600'

**Dustbowl 11-14 Federal Com 203H**

- Surface Location: 275' FSL and 685' FEL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 1865' FEL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 1865' FEL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 1865' FEL, Section 11-T19S-R32E
- TVD: 9600'

**Dustbowl 11-14 Federal Com 204H**

- Surface Location: 275' FSL and 625' FEL, Section 14-T19S-R32E
- Bottom Hole Location: 50' FNL and 430' FEL, Section 11-T19S-R32E
- First Take Point: 100' FSL and 430' FEL, Section 14-T19S-R32E
- Last Take Point: 100' FNL and 430' FEL, Section 11-T19S-R32E
- TVD: 9600'

Regarding the above proposed wells, please find enclosed Apache's AFEs detailing estimated costs. Should you wish to participate, please specify your elections where indicated and return with (1) copy of each executed AFE to the attention of the undersigned.

Also enclosed is an AFE for the facility which will service the proposed wells. The estimated cost of the Dustbowl 11-14 Federal Com facility is \$12,000,000, and costs will be shared proportionally by working interest owners in the wells across the sections. An election to participate in the wells will be an election to participate in this facility with your proportionate share of the working interest, and this facility AFE is not a separate election.

Apache is proposing the formation of the unit under the terms of the enclosed modified 1989 AAPL Model Form Operating Agreement ("JOA") covering all of Sections 11 and 14, Township 19 South, Range 32 East, Lea County, New Mexico, with the following general provisions:

- 100% / 300% Non-consenting penalty
- Drilling / Producing Rate of \$9,000 / \$900
- Apache named as Operator

The JOA will be provided under separate cover; please sign and return the JOA signature pages if you elect to participate in the proposed wells. If you would like to pursue another type of agreement (farmout, term assignment, etc.) please contact me for further discussion.

Dustbowl Federal Com Unit  
September 20, 2023  
Page 3 of 4

If we do not reach an agreement within thirty (30) days from the date of this letter, Apache may apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well(s).

Should you have any questions, please contact the undersigned at [leslie.mullin@apachecorp.com](mailto:leslie.mullin@apachecorp.com) or 281-302-2602.

Sincerely,

**APACHE CORPORATION**

Leslie E. Mullin, CPL  
Senior Landman

Enclosures



Dustbowl Federal Com Unit  
September 20, 2023  
Page 4 of 4

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 101H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 101H

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 102H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 102H

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 103H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 103H

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 104H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 104H

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 201H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 201H

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 202H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 202H

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 203H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 203H

\_\_\_\_\_ Elect to participate in the Dustbowl 11-14 Federal Com 204H

\_\_\_\_\_ Elect NOT to participate in the Dustbowl 11-14 Federal Com 204H

**SOUTHWEST OIL & GAS INCOME FUND VIII-A LP**

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0228	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 201H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 201H

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63541	Lodging			\$1,500	\$1,500	\$1,500
63543	Transportation			\$500	\$500	\$500
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000			\$65,000	\$65,000
70005	Catering and Groceries			\$1,000	\$1,000	\$1,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$30,000	\$601,800	\$601,800
70008	Communications	\$5,000		\$15,000	\$20,000	\$20,000
70011	Company Supervision	\$5,000		\$7,500	\$12,500	\$12,500
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70016	Construction			\$6,000	\$6,000	\$6,000
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000			\$939,000	\$939,000
70021	Contract Supervision			\$25,000	\$25,000	\$25,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$5,000	\$787,000	\$787,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$5,000	\$5,000	\$5,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$3,000	\$162,400	\$162,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000



**AUTHORIZATION FOR EXPENDITURE**

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
70121	Automation			\$30,000	\$30,000	\$30,000
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$5,000	\$5,000	\$5,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$5,000	\$5,000	\$5,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$3,500	\$3,500	\$3,500
	<b>Sub Total:</b>	\$3,488,500	\$6,158,400	\$295,500	\$9,942,400	\$9,942,400

**Operated O&G - Tangible**

71004	Communication System			\$1,000	\$1,000	\$1,000
71012	Flow Lines			\$55,000	\$55,000	\$55,000
71018	Instrumentation & Automation Equipment			\$20,000	\$20,000	\$20,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$6,000	\$6,000	\$6,000
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$45,000	\$68,000	\$68,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800	\$2,000	\$6,800	\$6,800
71036	Pipe Valves Fittings and Anodes			\$15,000	\$15,000	\$15,000
71040	Production Casing	\$860,000			\$860,000	\$860,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$166,625	\$166,625	\$166,625
71056	Wellhead Assembly	\$46,000	\$2,600	\$55,000	\$103,600	\$103,600
71105	Gas Lift			\$20,000	\$20,000	\$20,000
	<b>Sub Total:</b>	\$1,216,000	\$7,400	\$395,625	\$1,619,025	\$1,619,025
	<b>Grand Total:</b>	\$4,704,500	\$6,165,800	\$691,125	\$11,561,425	\$11,561,425





**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0229	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 202H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 202H

<u>Account</u>	<u>Description</u>	<u>Drilling</u>	<u>Completion</u>	<u>Equipping</u>	<u>Total Gross Est. (\$)</u>	<u>Total Net Est. (\$)</u>
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63541	Lodging			\$1,500	\$1,500	\$1,500
63543	Transportation			\$5,000	\$5,000	\$5,000
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000			\$65,000	\$65,000
70005	Catering and Groceries			\$1,000	\$1,000	\$1,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$30,000	\$601,800	\$601,800
70008	Communications	\$5,000		\$15,000	\$20,000	\$20,000
70011	Company Supervision	\$5,000		\$17,500	\$22,500	\$22,500
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70016	Construction			\$6,000	\$6,000	\$6,000
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000			\$939,000	\$939,000
70021	Contract Supervision			\$25,000	\$25,000	\$25,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$15,000	\$797,000	\$797,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$5,000	\$5,000	\$5,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$3,000	\$162,400	\$162,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000



**AUTHORIZATION FOR EXPENDITURE**

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
70121	Automation			\$30,000	\$30,000	\$30,000
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$15,000	\$15,000	\$15,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$15,000	\$15,000	\$15,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$3,500	\$3,500	\$3,500
	<b>Sub Total:</b>	\$3,488,500	\$6,158,400	\$340,000	\$9,986,900	\$9,986,900

**Operated O&G - Tangible**

71004	Communication System			\$2,000	\$2,000	\$2,000
71012	Flow Lines			\$45,000	\$45,000	\$45,000
71018	Instrumentation & Automation Equipment			\$20,000	\$20,000	\$20,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$6,000	\$6,000	\$6,000
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$45,000	\$68,000	\$68,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800		\$4,800	\$4,800
71036	Pipe Valves Fittings and Anodes			\$1,500	\$1,500	\$1,500
71040	Production Casing	\$860,000			\$860,000	\$860,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$146,625	\$146,625	\$146,625
71056	Wellhead Assembly	\$46,000	\$2,600	\$55,000	\$103,600	\$103,600
71105	Gas Lift			\$20,000	\$20,000	\$20,000
	<b>Sub Total:</b>	\$1,216,000	\$7,400	\$351,125	\$1,574,525	\$1,574,525
	<b>Grand Total:</b>	\$4,704,500	\$6,165,800	\$691,125	\$11,561,425	\$11,561,425





**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0230	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 203H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 203H

<u>Account</u>	<u>Description</u>	<u>Drilling</u>	<u>Completion</u>	<u>Equipping</u>	<u>Total Gross Est. (\$)</u>	<u>Total Net Est. (\$)</u>
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63541	Lodging			\$1,500	\$1,500	\$1,500
63543	Transportation			\$500	\$500	\$500
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000			\$65,000	\$65,000
70005	Catering and Groceries			\$1,000	\$1,000	\$1,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$6,000	\$577,800	\$577,800
70008	Communications	\$5,000			\$5,000	\$5,000
70011	Company Supervision	\$5,000			\$5,000	\$5,000
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000		\$20,000	\$959,000	\$959,000
70021	Contract Supervision			\$25,000	\$25,000	\$25,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$10,000	\$792,000	\$792,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$10,000	\$10,000	\$10,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$6,000	\$165,400	\$165,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000
70121	Automation			\$30,000	\$30,000	\$30,000





## AUTHORIZATION FOR EXPENDITURE

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$15,000	\$15,000	\$15,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$15,000	\$15,000	\$15,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$5,500	\$5,500	\$5,500
	<b>Sub Total:</b>	<b>\$3,488,500</b>	<b>\$6,158,400</b>	<b>\$298,000</b>	<b>\$9,944,900</b>	<b>\$9,944,900</b>
<b>Operated O&amp;G - Tangible</b>						
71004	Communication System			\$1,000	\$1,000	\$1,000
71012	Flow Lines			\$55,000	\$55,000	\$55,000
71018	Instrumentation & Automation Equipment			\$25,000	\$25,000	\$25,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$8,500	\$8,500	\$8,500
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$45,000	\$68,000	\$68,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800	\$2,000	\$6,800	\$6,800
71036	Pipe Valves Fittings and Anodes			\$15,000	\$15,000	\$15,000
71040	Production Casing	\$860,000			\$860,000	\$860,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$146,625	\$146,625	\$146,625
71056	Wellhead Assembly	\$46,000	\$2,600	\$55,000	\$103,600	\$103,600
71105	Gas Lift			\$30,000	\$30,000	\$30,000
	<b>Sub Total:</b>	<b>\$1,216,000</b>	<b>\$7,400</b>	<b>\$393,125</b>	<b>\$1,616,525</b>	<b>\$1,616,525</b>
	<b>Grand Total:</b>	<b>\$4,704,500</b>	<b>\$6,165,800</b>	<b>\$691,125</b>	<b>\$11,561,425</b>	<b>\$11,561,425</b>



**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0231	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 204H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 204H

<u>Account</u>	<u>Description</u>	<u>Drilling</u>	<u>Completion</u>	<u>Equipping</u>	<u>Total Gross Est. (\$)</u>	<u>Total Net Est. (\$)</u>
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63541	Lodging			\$1,500	\$1,500	\$1,500
63543	Transportation			\$500	\$500	\$500
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000			\$65,000	\$65,000
70005	Catering and Groceries			\$1,000	\$1,000	\$1,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$30,000	\$601,800	\$601,800
70008	Communications	\$5,000		\$15,000	\$20,000	\$20,000
70011	Company Supervision	\$5,000		\$7,500	\$12,500	\$12,500
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70016	Construction			\$6,000	\$6,000	\$6,000
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000		\$20,000	\$959,000	\$959,000
70021	Contract Supervision			\$25,000	\$25,000	\$25,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$5,000	\$787,000	\$787,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$5,000	\$5,000	\$5,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$3,000	\$162,400	\$162,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000



**AUTHORIZATION FOR EXPENDITURE**

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
70121	Automation			\$30,000	\$30,000	\$30,000
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$5,000	\$5,000	\$5,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$5,000	\$5,000	\$5,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$3,500	\$3,500	\$3,500
<b>Sub Total:</b>		<b>\$3,488,500</b>	<b>\$6,158,400</b>	<b>\$315,500</b>	<b>\$9,962,400</b>	<b>\$9,962,400</b>

**Operated O&G - Tangible**

71004	Communication System			\$1,000	\$1,000	\$1,000
71012	Flow Lines			\$55,000	\$55,000	\$55,000
71018	Instrumentation & Automation Equipment			\$20,000	\$20,000	\$20,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$6,000	\$6,000	\$6,000
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$45,000	\$68,000	\$68,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800	\$2,000	\$6,800	\$6,800
71036	Pipe Valves Fittings and Anodes			\$15,000	\$15,000	\$15,000
71040	Production Casing	\$860,000			\$860,000	\$860,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$146,625	\$146,625	\$146,625
71056	Wellhead Assembly	\$46,000	\$2,600	\$55,000	\$103,600	\$103,600
71105	Gas Lift			\$20,000	\$20,000	\$20,000
<b>Sub Total:</b>		<b>\$1,216,000</b>	<b>\$7,400</b>	<b>\$375,625</b>	<b>\$1,599,025</b>	<b>\$1,599,025</b>
<b>Grand Total:</b>		<b>\$4,704,500</b>	<b>\$6,165,800</b>	<b>\$691,125</b>	<b>\$11,561,425</b>	<b>\$11,561,425</b>





**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0232	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 101H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 101H

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63541	Lodging			\$1,500	\$1,500	\$1,500
63543	Transportation			\$500	\$500	\$500
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000			\$65,000	\$65,000
70005	Catering and Groceries			\$1,000	\$1,000	\$1,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$30,000	\$601,800	\$601,800
70008	Communications	\$5,000		\$15,000	\$20,000	\$20,000
70011	Company Supervision	\$5,000		\$7,500	\$12,500	\$12,500
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70016	Construction			\$6,000	\$6,000	\$6,000
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000		\$15,000	\$954,000	\$954,000
70021	Contract Supervision			\$20,000	\$20,000	\$20,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$5,000	\$787,000	\$787,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$5,000	\$5,000	\$5,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$3,000	\$162,400	\$162,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000



**AUTHORIZATION FOR EXPENDITURE**

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
70121	Automation			\$30,000	\$30,000	\$30,000
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$5,000	\$5,000	\$5,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$5,000	\$5,000	\$5,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$3,500	\$3,500	\$3,500
	<b>Sub Total:</b>	\$3,488,500	\$6,158,400	\$305,500	\$9,952,400	\$9,952,400
<b>Operated O&amp;G - Tangible</b>						
71004	Communication System			\$1,000	\$1,000	\$1,000
71012	Flow Lines			\$50,000	\$50,000	\$50,000
71018	Instrumentation & Automation Equipment			\$20,000	\$20,000	\$20,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$6,000	\$6,000	\$6,000
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$30,000	\$53,000	\$53,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800	\$2,000	\$6,800	\$6,800
71036	Pipe Valves Fittings and Anodes			\$15,000	\$15,000	\$15,000
71040	Production Casing	\$858,000			\$858,000	\$858,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$140,250	\$140,250	\$140,250
71056	Wellhead Assembly	\$46,000	\$2,600	\$55,000	\$103,600	\$103,600
71105	Gas Lift			\$20,000	\$20,000	\$20,000
	<b>Sub Total:</b>	\$1,214,000	\$7,400	\$349,250	\$1,570,650	\$1,570,650
	<b>Grand Total:</b>	\$4,702,500	\$6,165,800	\$654,750	\$11,523,050	\$11,523,050





**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0233	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 102H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 102H

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63541	Lodging			\$1,500	\$1,500	\$1,500
63543	Transportation			\$500	\$500	\$500
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000		\$1,000	\$66,000	\$66,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$30,000	\$601,800	\$601,800
70008	Communications	\$5,000		\$15,000	\$20,000	\$20,000
70011	Company Supervision	\$5,000		\$7,500	\$12,500	\$12,500
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70016	Construction			\$6,000	\$6,000	\$6,000
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000		\$15,000	\$954,000	\$954,000
70021	Contract Supervision			\$20,000	\$20,000	\$20,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$5,000	\$787,000	\$787,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$5,000	\$5,000	\$5,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$3,000	\$162,400	\$162,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000
70121	Automation			\$30,000	\$30,000	\$30,000





**AUTHORIZATION FOR EXPENDITURE**

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$5,000	\$5,000	\$5,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$5,000	\$5,000	\$5,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$3,500	\$3,500	\$3,500
	<b>Sub Total:</b>	<b>\$3,488,500</b>	<b>\$6,158,400</b>	<b>\$305,500</b>	<b>\$9,952,400</b>	<b>\$9,952,400</b>
<b>Operated O&amp;G - Tangible</b>						
71004	Communication System			\$1,000	\$1,000	\$1,000
71012	Flow Lines			\$50,000	\$50,000	\$50,000
71018	Instrumentation & Automation Equipment			\$20,000	\$20,000	\$20,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$6,000	\$6,000	\$6,000
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$30,000	\$53,000	\$53,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800	\$2,000	\$6,800	\$6,800
71036	Pipe Valves Fittings and Anodes			\$15,000	\$15,000	\$15,000
71040	Production Casing	\$858,000			\$858,000	\$858,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$140,250	\$140,250	\$140,250
71056	Wellhead Assembly	\$46,000	\$2,600		\$48,600	\$48,600
71065	Cuttings Containment & Disposal			\$55,000	\$55,000	\$55,000
71105	Gas Lift			\$20,000	\$20,000	\$20,000
	<b>Sub Total:</b>	<b>\$1,214,000</b>	<b>\$7,400</b>	<b>\$349,250</b>	<b>\$1,570,650</b>	<b>\$1,570,650</b>
	<b>Grand Total:</b>	<b>\$4,702,500</b>	<b>\$6,165,800</b>	<b>\$654,750</b>	<b>\$11,523,050</b>	<b>\$11,523,050</b>



**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0234	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 103H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 103H

<u>Account</u>	<u>Description</u>	<u>Drilling</u>	<u>Completion</u>	<u>Equipping</u>	<u>Total Gross Est. (\$)</u>	<u>Total Net Est. (\$)</u>
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63541	Lodging			\$1,500	\$1,500	\$1,500
63543	Transportation			\$500	\$500	\$500
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000			\$65,000	\$65,000
70005	Catering and Groceries			\$1,000	\$1,000	\$1,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$30,000	\$601,800	\$601,800
70008	Communications	\$5,000		\$15,000	\$20,000	\$20,000
70011	Company Supervision	\$5,000		\$7,500	\$12,500	\$12,500
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70016	Construction			\$6,000	\$6,000	\$6,000
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000		\$15,000	\$954,000	\$954,000
70021	Contract Supervision			\$20,000	\$20,000	\$20,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$5,000	\$787,000	\$787,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$5,000	\$5,000	\$5,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70048	Load Out and Tie Down			\$3,000	\$3,000	\$3,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$3,000	\$162,400	\$162,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000





**AUTHORIZATION FOR EXPENDITURE**

<u>Account</u>	<u>Description</u>	<u>Drilling</u>	<u>Completion</u>	<u>Equipping</u>	<u>Total Gross Est. (\$)</u>	<u>Total Net Est. (\$)</u>
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000
70121	Automation			\$30,000	\$30,000	\$30,000
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$5,000	\$5,000	\$5,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$5,000	\$5,000	\$5,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$3,500	\$3,500	\$3,500
	<b>Sub Total:</b>	<b>\$3,488,500</b>	<b>\$6,158,400</b>	<b>\$308,500</b>	<b>\$9,955,400</b>	<b>\$9,955,400</b>

**Operated O&G - Tangible**

71004	Communication System			\$1,000	\$1,000	\$1,000
71012	Flow Lines			\$50,000	\$50,000	\$50,000
71018	Instrumentation & Automation Equipment			\$20,000	\$20,000	\$20,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$6,000	\$6,000	\$6,000
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$30,000	\$53,000	\$53,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800	\$2,000	\$6,800	\$6,800
71036	Pipe Valves Fittings and Anodes			\$12,000	\$12,000	\$12,000
71040	Production Casing	\$858,000			\$858,000	\$858,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$140,250	\$140,250	\$140,250
71056	Wellhead Assembly	\$46,000	\$2,600	\$55,000	\$103,600	\$103,600
71105	Gas Lift			\$20,000	\$20,000	\$20,000
	<b>Sub Total:</b>	<b>\$1,214,000</b>	<b>\$7,400</b>	<b>\$346,250</b>	<b>\$1,567,650</b>	<b>\$1,567,650</b>
	<b>Grand Total:</b>	<b>\$4,702,500</b>	<b>\$6,165,800</b>	<b>\$654,750</b>	<b>\$11,523,050</b>	<b>\$11,523,050</b>



**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0235	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl 11-14 Federal Com 104H	<b>AFE Type:</b>	New Well - Operated
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Drill, complete and equip the Dustbowl 11-14 Fed Com 104H

<u>Account</u>	<u>Description</u>	<u>Drilling</u>	<u>Completion</u>	<u>Equipping</u>	<u>Total Gross Est. (\$)</u>	<u>Total Net Est. (\$)</u>
<b>Operated O&amp;G - Intangible</b>						
63517	Outside Printing and Typesetting			\$1,000	\$1,000	\$1,000
63539	Business Expense			\$500	\$500	\$500
63543	Transportation			\$500	\$500	\$500
70003	Bits Coreheads and Reamers	\$92,000			\$92,000	\$92,000
70004	Casing Crews	\$65,000			\$65,000	\$65,000
70005	Catering and Groceries			\$1,000	\$1,000	\$1,000
70006	Cement and Cementing Services	\$276,000			\$276,000	\$276,000
70007	Chemicals		\$571,800	\$30,000	\$601,800	\$601,800
70008	Communications	\$5,000		\$15,000	\$20,000	\$20,000
70011	Company Supervision	\$5,000		\$7,500	\$12,500	\$12,500
70012	Company Vehicle and/or Boat	\$500			\$500	\$500
70016	Construction			\$6,000	\$6,000	\$6,000
70017	Contract Labor	\$198,000	\$153,500	\$20,000	\$371,500	\$371,500
70019	Contract Rigs - Daywork	\$939,000		\$15,000	\$954,000	\$954,000
70021	Contract Supervision			\$20,000	\$20,000	\$20,000
70022	Directional Drilling	\$469,000			\$469,000	\$469,000
70025	Drilling Fluids	\$406,000			\$406,000	\$406,000
70026	Electrical Contract			\$5,000	\$5,000	\$5,000
70031	Equipment Rental	\$205,000	\$82,000	\$35,000	\$322,000	\$322,000
70034	Formation and Well Stimulation Pumping Service		\$1,384,000		\$1,384,000	\$1,384,000
70035	Formation Testing		\$3,700		\$3,700	\$3,700
70037	Fuel	\$161,000	\$621,000	\$5,000	\$787,000	\$787,000
70041	Hazard Surveys			\$2,000	\$2,000	\$2,000
70043	Hook-Up - Onshore			\$5,000	\$5,000	\$5,000
70046	Land and Site Reclamation	\$6,000			\$6,000	\$6,000
70047	Legal and Curative	\$15,000			\$15,000	\$15,000
70049	Logging		\$311,300		\$311,300	\$311,300
70051	Metering			\$2,500	\$2,500	\$2,500
70054	LOE-Other	\$9,000	\$150,400	\$3,000	\$162,400	\$162,400
70064	Rig Mobilization	\$118,000			\$118,000	\$118,000
70065	Road and Site Preparation	\$68,000	\$12,000		\$80,000	\$80,000
70067	Salt Water Disposal		\$11,400	\$5,000	\$16,400	\$16,400
70069	Coiled Tubing		\$539,700		\$539,700	\$539,700
70070	Supplies	\$15,000		\$3,000	\$18,000	\$18,000
70072	Surveys		\$600		\$600	\$600
70074	Trucking and Hauling	\$60,000		\$15,000	\$75,000	\$75,000
70076	Tubular Inspection/Testing	\$19,000			\$19,000	\$19,000
70077	Water	\$52,000	\$828,700		\$880,700	\$880,700
70078	Wellsite Damages, Loss, Right-of-Way	\$30,000	\$15,000		\$45,000	\$45,000
70093	Laboratory Testing			\$5,000	\$5,000	\$5,000
70116	Containment Disposal Expense	\$190,000		\$2,000	\$192,000	\$192,000
70121	Automation			\$30,000	\$30,000	\$30,000





**AUTHORIZATION FOR EXPENDITURE**

<u>Account</u>	<u>Description</u>	<u>Drilling</u>	<u>Completion</u>	<u>Equipping</u>	<u>Total Gross Est. (\$)</u>	<u>Total Net Est. (\$)</u>
70169	Camp Rentals	\$39,000			\$39,000	\$39,000
70186	Flowback Tester		\$7,400	\$50,000	\$57,400	\$57,400
70187	Pump Truck Service			\$5,000	\$5,000	\$5,000
70198	Sand/Proppant		\$1,109,100		\$1,109,100	\$1,109,100
70242	Slickline Services			\$5,000	\$5,000	\$5,000
70243	Mud Logging	\$27,000			\$27,000	\$27,000
70248	Fishing & Milling			\$3,000	\$3,000	\$3,000
70285	Water Transfer		\$184,900		\$184,900	\$184,900
70289	Frac Plugs		\$40,200		\$40,200	\$40,200
70291	Frac Valve / Frac Tree		\$131,700		\$131,700	\$131,700
70529	Safety Case	\$19,000			\$19,000	\$19,000
70904	Tree Running			\$3,500	\$3,500	\$3,500
70911	Hydro Test & Commissioning			\$3,500	\$3,500	\$3,500
	<b>Sub Total:</b>	\$3,488,500	\$6,158,400	\$304,000	\$9,950,900	\$9,950,900
<b>Operated O&amp;G - Tangible</b>						
71004	Communication System			\$1,000	\$1,000	\$1,000
71012	Flow Lines			\$50,000	\$50,000	\$50,000
71018	Instrumentation & Automation Equipment			\$21,000	\$21,000	\$21,000
71019	Intermediate Casing	\$232,000			\$232,000	\$232,000
71026	Electrical Materials			\$6,000	\$6,000	\$6,000
71027	Metering Equipment			\$5,000	\$5,000	\$5,000
71032	Other Subsurface Equipment	\$23,000		\$30,000	\$53,000	\$53,000
71033	Other Surface Equipment			\$5,000	\$5,000	\$5,000
71034	Personnel Safety Systems		\$4,800	\$2,000	\$6,800	\$6,800
71036	Pipe Valves Fittings and Anodes			\$15,000	\$15,000	\$15,000
71040	Production Casing	\$858,000			\$858,000	\$858,000
71050	Surface Casing	\$55,000			\$55,000	\$55,000
71053	Tubing			\$140,250	\$140,250	\$140,250
71056	Wellhead Assembly	\$46,000	\$2,600	\$55,000	\$103,600	\$103,600
71105	Gas Lift			\$20,500	\$20,500	\$20,500
	<b>Sub Total:</b>	\$1,214,000	\$7,400	\$350,750	\$1,572,150	\$1,572,150
	<b>Grand Total:</b>	\$4,702,500	\$6,165,800	\$654,750	\$11,523,050	\$11,523,050



**AUTHORIZATION FOR EXPENDITURE**

<b>AFE Number:</b>	32-23-0260	<b>API#:</b>	
<b>Project Name:</b>	Dustbowl CTB & CGC New Construction	<b>AFE Type:</b>	Production Facility (New)
<b>Initiated Date:</b>	Sep 12, 2023		
<b>Operator:</b>	APACHE CORPORATION	<b>State:</b>	New Mexico
<b>Well Name:</b>		<b>County:</b>	LEA

**Justification:**  
 Requested funds are being used to construct a production Central Tank Battery (CTB) with Central Gas Compression (CGC) for the New Mexico Dustbowl development lease. The Dustbowl CTB & CGC facility will serve as the Central Tank Battery (CTB) and Central Gas Compression for all the approved wells in the Dustbowl lease. Funds are assigned for the initial construction of the facility and the first production of (4) 1st BSS and (4) 2nd BSS wells.

Account	Description	Drilling	Completion	Equipping	Total Gross Est. (\$)	Total Net Est. (\$)
<b>Leasehold Accounts</b>						
70541	Surface Bonus / Extension Payments				\$10,000	\$10,000
	<b>Sub Total:</b>	\$0	\$0	\$0	\$10,000	\$10,000
<b>Operated O&amp;G - Intangible</b>						
70009	Company Labor				\$50,000	\$50,000
70017	Contract Labor				\$3,000,000	\$3,000,000
70021	Contract Supervision				\$300,000	\$300,000
70027	Engineering Design and Drafting				\$500,000	\$500,000
70031	Equipment Rental				\$50,000	\$50,000
70065	Road and Site Preparation				\$300,000	\$300,000
70072	Surveys				\$30,000	\$30,000
70074	Trucking and Hauling				\$30,000	\$30,000
70077	Water				\$20,000	\$20,000
70091	Compressor Rental-Labor & Materials				\$75,000	\$75,000
70121	Automation				\$75,000	\$75,000
	<b>Sub Total:</b>	\$0	\$0	\$0	\$4,430,000	\$4,430,000
<b>Operated O&amp;G - Tangible</b>						
71012	Flow Lines				\$1,500,000	\$1,500,000
71018	Instrumentation & Automation Equipment				\$200,000	\$200,000
71026	Electrical Materials				\$200,000	\$200,000
71027	Metering Equipment				\$300,000	\$300,000
71033	Other Surface Equipment				\$300,000	\$300,000
71036	Pipe Valves Fittings and Anodes				\$1,000,000	\$1,000,000
71043	Pumps				\$140,000	\$140,000
71046	Separators				\$3,300,000	\$3,300,000
71051	Tanks				\$450,000	\$450,000
71052	Treaters				\$170,000	\$170,000
	<b>Sub Total:</b>	\$0	\$0	\$0	\$7,560,000	\$7,560,000
	<b>Grand Total:</b>	\$0	\$0	\$0	\$12,000,000	\$12,000,000





# Apache Corporation Dustbowl 11-14 Fed Com Unit

Sections 11 and 14, T19S-R32E, Lea County, NM

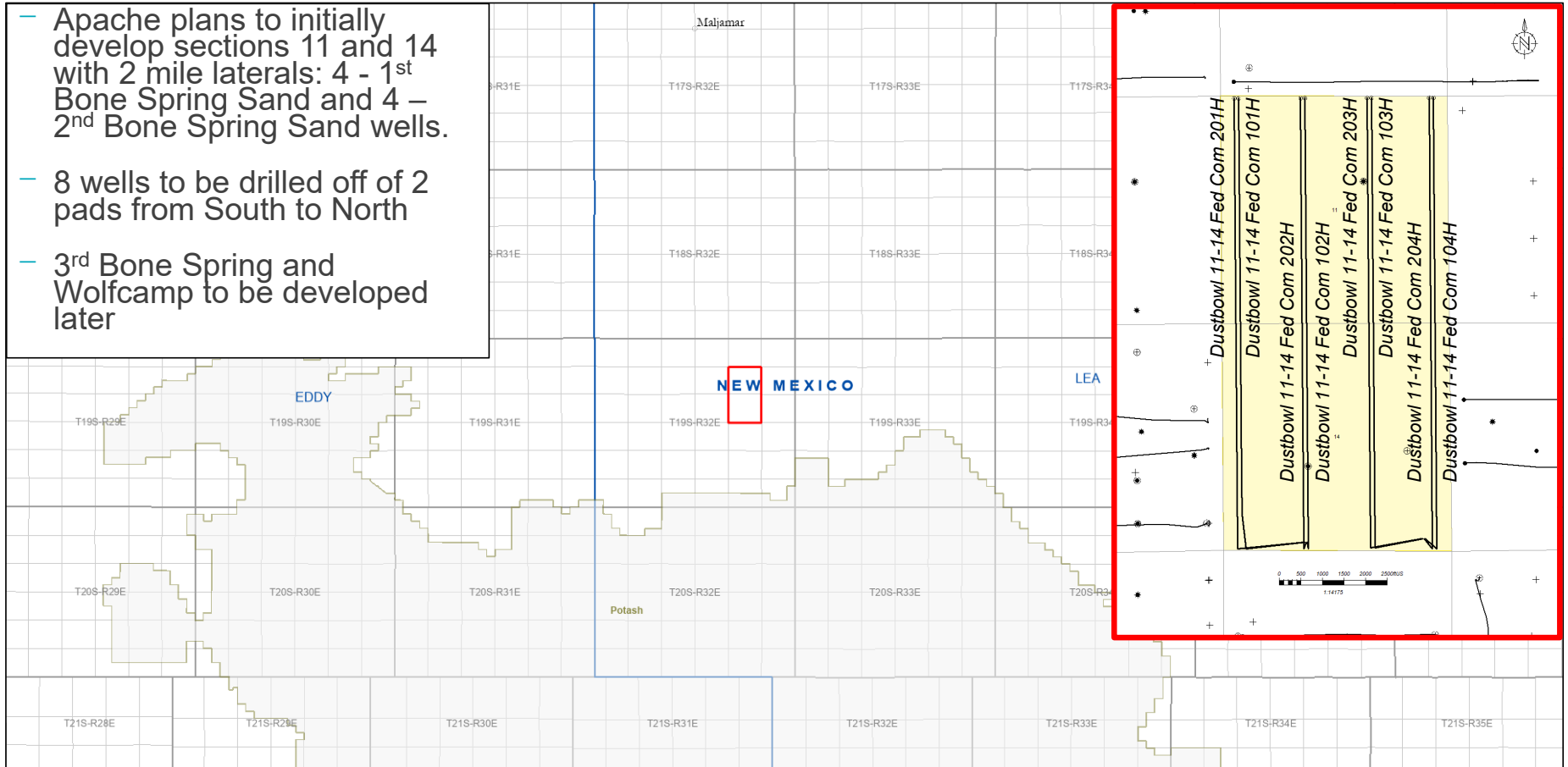
# Apache Dustbowl 11-14 Fed Com Unit

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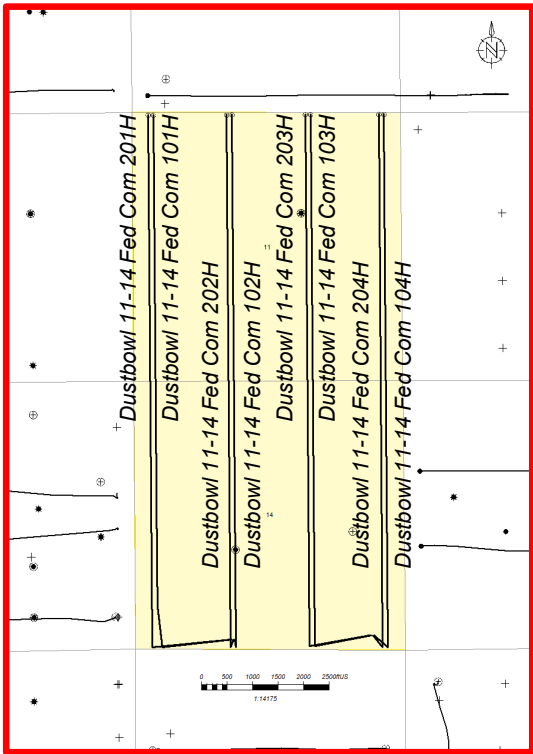
- Overview
- Development Plans
- Working Interest by Tract and Unit
  - Apache/ZPZ Delaware I LLC own 46.01% of 1280 acre unit
  - Avant and related entities own 26.82% of 1280 acre unit
- Partner Contacts
  - 5.96% of Working Interest Owners have agreed to Apache JOA
- Geology
- Operator Experience
- Spacing and Well performance
- AFE Comparison
- Drilling/Completion
- Compliance
- Surface/Facility/Gas Takeaway

# Overview

- Apache plans to initially develop sections 11 and 14 with 2 mile laterals: 4 - 1<sup>st</sup> Bone Spring Sand and 4 - 2<sup>nd</sup> Bone Spring Sand wells.
- 8 wells to be drilled off of 2 pads from South to North
- 3<sup>rd</sup> Bone Spring and Wolfcamp to be developed later

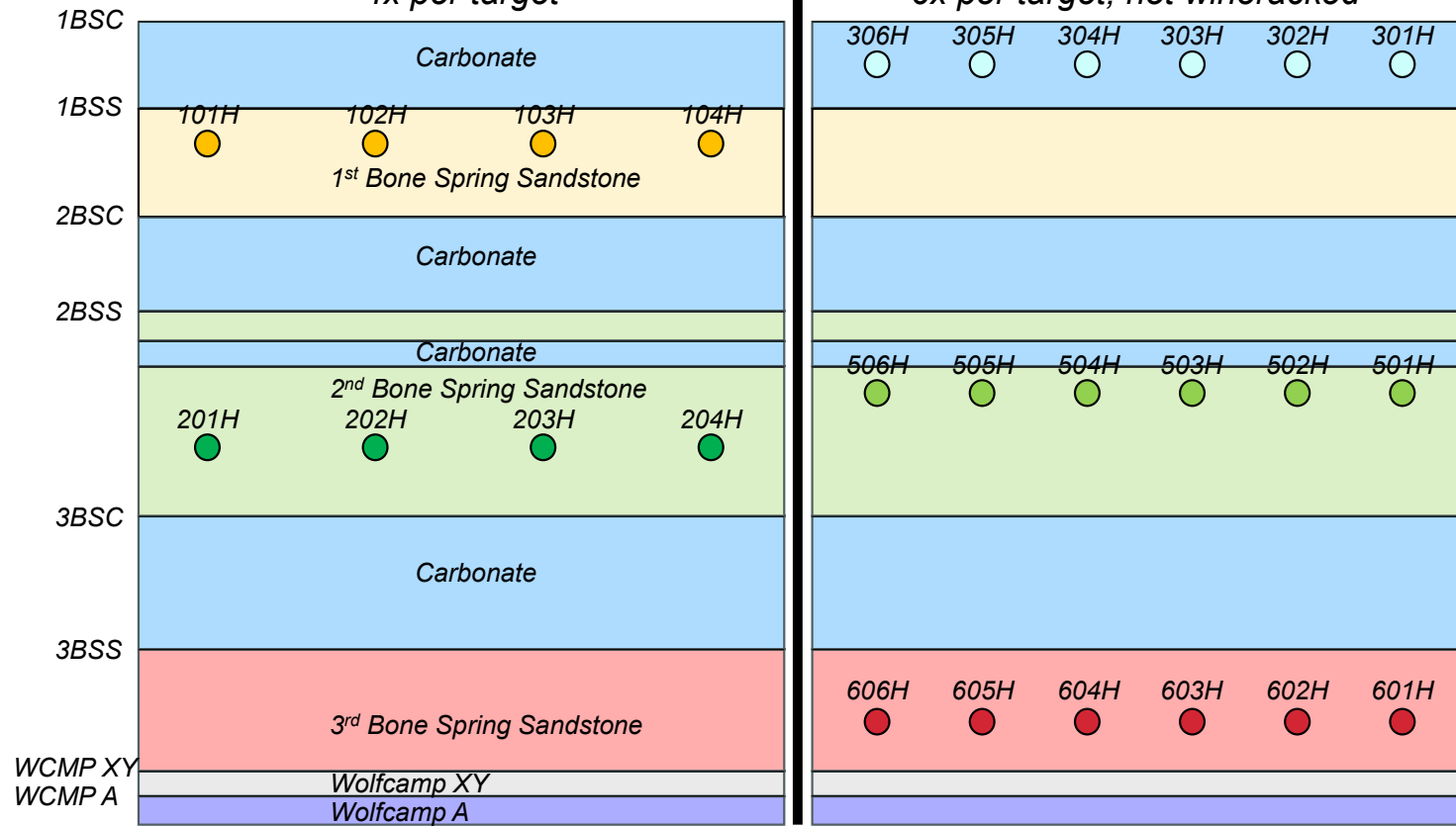


# Targeting: APA vs Avant (South to North)



**APA Dustbowl Planned Development**  
4x per target

**Avant Grayling Planned Development**  
6x per target, not wineracked

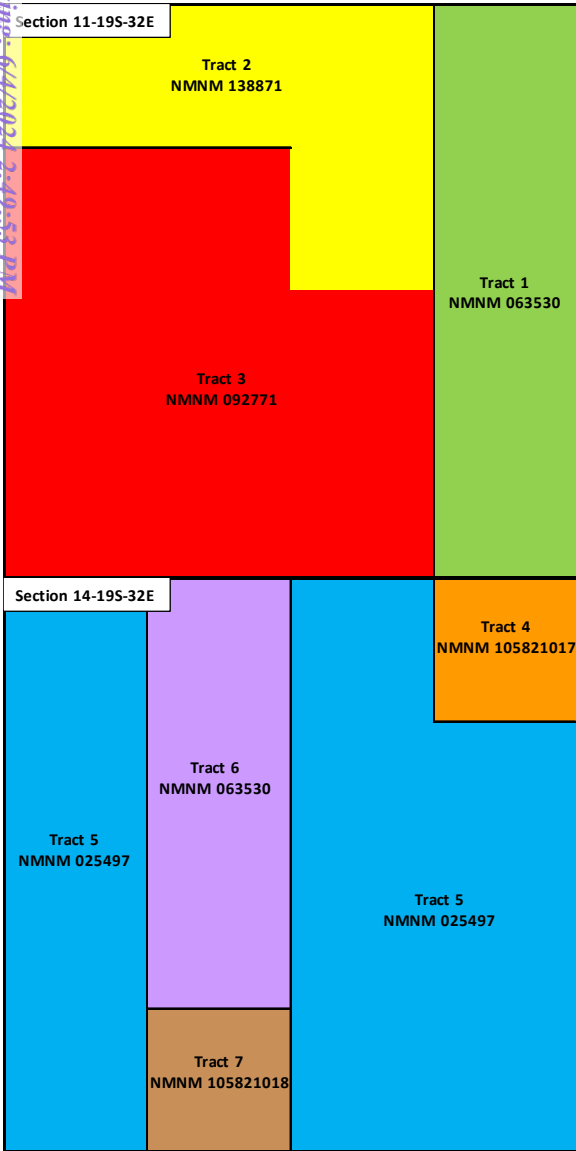


# Development Plan Preparation Timeline

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- **August 2022**: Apache nominated 80 open acres in tracts 4 and 7 in Section 14 for next available BLM sale. Auction held May 2023.
- **August 2023**: Begin discussions with BLM regarding Lesser Prairie Chicken.
- **September 2023**: Surveyors begin working on updated plats; brokers and Title Attorney begins title update. Detailed well proposal, AFEs and JOA sent to working interest owners for 1<sup>st</sup> BSS and 2<sup>nd</sup> BSS development.
- **Late 2023**: Begin discussions with midstream companies; 4 proposals now in hand.
- **December 2024**: Projected spud for Dustbowl wells; spud will be no later than March 2025 due to term assignment.
  - When permits issue and OCD pooling orders granted, Apache plans to accelerate this development



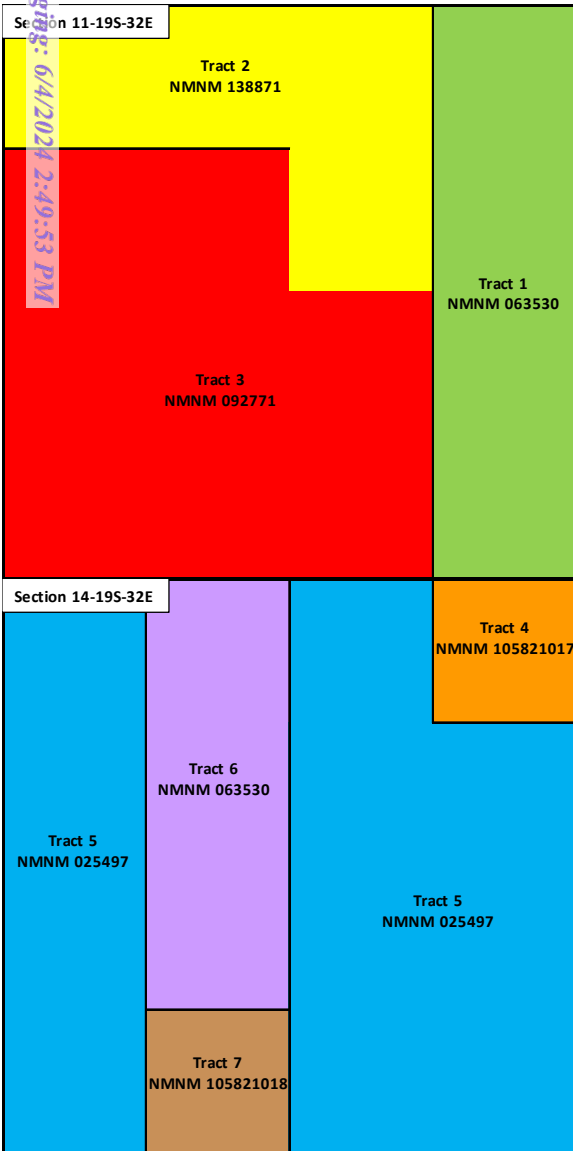


# Consolidated WI Ownership by Unit

Spacing Unit Ownership	WI	Negotiation Status
Apache Corporation/ZPZ Delaware I LLC	46.008673%	JOA
Wadi Petroleum, Inc./Red Bird Ventures, Inc./Minoco 1980 III Oil and Gas Program/Roy L. McKay/Southwest Royalties, Inc./McKay Oil Corporation	4.6875%	Southwest Royalties, Inc. JOA/ Pool remaining entities
CXA Oil & Gas Holdings, L.P.	5.579193%	JOA
Roy E. Guinnup	0.300781%	JOA
Northern Oil and Gas, Inc.	15.712496%	Pool
Legion Production Partners, LLC	24.399738%	Pool
Avant Operating, LLC	1.614211%	Pool
Double Cabin Minerals, LLC	0.807105%	Pool
Rock Products, Inc.	0.123495%	Pool
Osprey Oil and Gas, LLC	0.123495%	Pool
Westlawn Fortuna, Inc.	0.041748%	Pool
Compass Oil & Gas, LP	0.601563%	Pool
<b>TOTAL</b>	<b>100.000000%</b>	
<b>INTEREST TO BE POOLED</b>	<b>48.033305%</b>	

**Apache's WI of 46%**  
**Partner Support 5.96%**  
**Apache+Partner Support= 51.96%**

## Section Plat: All of Sections 11 and 14, 19S-32E



Tract 1: E/2 E/2 of Section 11-19S-32E (NMNM 0063530)		WI
Apache Corporation		25.000000%
Northern Oil and Gas, Inc.		37.500000%
Wadi Petroleum, Inc./Red Bird Ventures, Inc./Minoco 1980 III Oil and Gas Program/Roy L. McKay/Southwest Royalties, Inc./McKay Oil Corporation		37.500000%
<b>TOTAL</b>		<b>100.000000%</b>

Tract 2: W/2 NE/4, N/2 NW/4 of Section 11-19S-32E (NMNM 138871)		WI
Apache Corporation		100.000000%
<b>TOTAL</b>		<b>100.000000%</b>

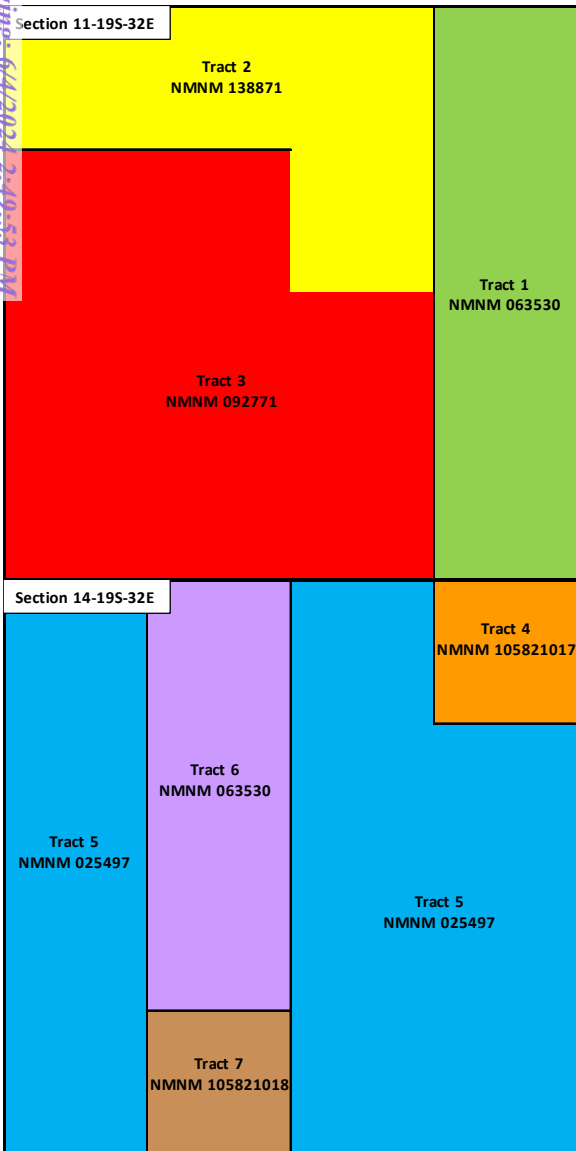
Tract 3: S/2 NW/4, SW/4, W/2 SE/4 of Section 11-19S-32E (NMNM 092771)		WI
Apache Corporation/ZPZ Delaware I LLC		50.000000%
Legion Production Partners, LLC		35.000000%
Avant Operating, LLC		7.500000%
Double Cabin Minerals, LLC		7.500000%
<b>TOTAL</b>		<b>100.000000%</b>

Tract 4: NE/4 NE/4 of Section 14-19S-32E (NMNM 105821017)		WI
Legion Production Partners, LLC		100.000000%
<b>TOTAL</b>		<b>100.000000%</b>

Tract 7: SE/4 SW/4 of Section 14-19S-32E (NMNM 10521018)		WI
Legion Production Partners, LLC		100.000000%
<b>TOTAL</b>		<b>100.000000%</b>

Tract 5: W/2 W/2, W/2 NE/4, SE/4 NE/4, SE/4 of Section 14-19S-32E (NMNM 0025497)		WI
Apache Corporation		40.876968%
CXA Oil & Gas Holdings, L.P.		12.752441%
Roy E. Guinnup		0.687500%
Northern Oil and Gas, Inc.		25.199991%
Legion Production Partners, LLC		12.913688%
Avant Operating, LLC		3.689625%
Double Cabin Minerals, LLC		1.844813%
Rock Products, Inc.		0.282275%
Osprey Oil and Gas, LLC		0.282275%
Westlawn Fortuna, Inc.		0.095425%
Compass Oil & Gas, LP		1.375000%
<b>TOTAL</b>		<b>100.000000%</b>

Tract 6: E/2 NW/4, NE/4 SW/4 of Section 14-19S-32E (NMNM 0063530)		WI
Apache Corporation		40.876968%
CXA Oil & Gas Holdings, L.P.		12.752441%
Roy E. Guinnup		0.687500%
Northern Oil and Gas, Inc.		25.199991%
Legion Production Partners, LLC		12.913688%
Avant Operating, LLC		3.689625%
Double Cabin Minerals, LLC		1.844813%
Rock Products, Inc.		0.282275%
Osprey Oil and Gas, LLC		0.282275%
Westlawn Fortuna, Inc.		0.095425%
Compass Oil & Gas, LP		1.375000%
<b>TOTAL</b>		<b>100.000000%</b>



# Consolidated ORRI by Unit

Ameritrust Texas N.A. or its successor, Trustee for the Wilma Donohue Moleen Foundation
Apache Corporation
Beverly Jean Renfro Barr, Trustee of the Family Trust u/w/o Richard K. Barr
Black Shale Minerals, LLC
BR2 Holdings, LLC
Cayuga Royalties, LLC
Cibolo Oil & Gas, LLC
Cibolo Royalties I, LLC
Crystal Van Lom, Trustee of the Revocable Trust of Brooks Tymon Moleen
Double Cabin Minerals, LLC
Franklin Mountain Royalty Investments
G.P.C. Oil & Gas Corporation
G.P.C. Oil & Gas Corporation
Gary W. Sweaney
Geronimo Holding Corporation
Goodman Energy, L.L.C.
Guard Income Fund, LP
James G. Smith and Alyssa C. Smith, Co-Trustees of the Smith Family Irrevocable Trust u/a/d February 20, 2018
Jamie E. Jennings and George J. Lee, Trustees, or their successors in trust, of the Jennings-Lee Trust, dated September 18, 2017, f/b/o Jamie E. Jennings, Separate Property
Jennings Production Company, a joint venture
Kay Sweaney Sorvillo

Linda Bray Hagood, Trustee of the Trust created for Linda Bray Hagood u/w/o Raymond E. Bray, dec.
LNV Corporation
Monticello Minerals LLC
Nadel and Gussman Permian, L.L.C.
Nancy J. Allen
Northern Oil and Gas, Inc.
Pegasus Resources II, LLC
Prevail Energy LLC
Pruet Family Management, LLC
Ray and Karen Westall
Richard H. Sweaney, III
Richard H. Sweaney, III, Gary Wayne Sweaney, and Kay La Verne Sorvillo a/k/a Kay Sweaney Sorvillo, remaindermen, subject to a life estate in favor of Richard H. Sweaney
Richard W. Schmidt
Sharon Bray Webb, Trustee of the Trust created for Sharon Bray Webb u/w/o Raymond E. Bray, dec.
Skyline Minerals, LLC
STR Corporation
Susan Jennings Croft, Katie Elizabeth Croft and Justin Jennings Croft, as Co-Trustees, or their successors in trust, of the Croft Living Trust, created by Trust Agreement dated September 25, 2020
Susannah D. Adelson, Trustee of the James Adelson & Family 2015 Trusts
Syghan, LP
Thomas Albert Bray, Trustee of the Trust created for Thomas Albert Bray u/w/o Raymond E. Bray, dec.
Travis and Patricia Bowles
TWR IV, LLC
Zunis Energy, LLC

# WI Owner Contacts

## Compass Operating

- 7/31/23: email to Luke Musselman advising of upcoming well proposals
- 8/1/23: follow-up phone call with Luke Musselman discussing Apache's near and longer term development plans
- 10/3/23: email with Luke Musselman to confirm mailing address and that JOA will be forthcoming
- 10/15/23: emailed Luke Musselman to see if there are any JOA questions
- 11/10/23: email exchange with Luke Musselman; JOA review still pending
- 12/6/23: answered insurance question via email for Luke Musselman
- 1/4/24: emailed follow up with interest info from updated title to Luke Musselman
- 1/10/24: ongoing emails with Luke Musselman regarding Compass' interest

## McKay Oil Corporation/Roy L. McKay

- 10/10/23: phone call with Roy McKay regarding development plans and title requirements. Sent follow-up email with related documents
- 10/19/23: follow-up email to Roy McKay regarding parties who received assignments from McKay
- 11/15/23: phone call with Roy McKay inquiring about progress on review and JOA; resent email with title requirement
- 2/20/24: emailed draft stipulation to resolve title issue
- 2/21/24: emailed with Damon Richards (attorney) regarding stipulation

## Minoco 1980 III Oil and Gas Program

- 9/12-23-10/10/23: sent proposals to 3 potential mailing addresses; have been unable to locate additional contact info

## Northern Oil and Gas, Inc.

- 7/26/2023: email to Adam Dirlam, Katie Jackson, Stefanie Ottmar advising of upcoming well proposals
- 8/2/2023: left VM to follow-up with Andrew Voelker regarding Apache's near and longer term development plans. Followed up with email.
- 8/9/23: left VM to follow-up with Andrew Voelker
- 9/25/23: phone call with Brandon Stamp to discuss development plans. Followed up with email detailing Northern's preliminary interest.
- 1/2/24: email exchange with Brandon Stamp regarding interpreting of assignments into Northern
- 1/10/24 and 1/16/24: email follow-up with Brandon Stamp and Andrew Voelker regarding JOA and non-standard spacing plan
- 1/30/24: phone call with Brandon Stamp re: interest questions and support
- 2/8/24: met with Brandon Stamp at NAPE to discuss drilling plans and JOA status
- 2/23/24: emailed Brandon Stamp for any update on technical evaluation of development plans
- 4/11/24- Today- Multiple video calls to discuss development plan with Andrew Voelker

## Osprey Oil and Gas, LLC

- 1/17/24: email exchange with Brandon Gianfala regarding WI/NRI and JOA
- 2/14/24: follow up email to Brandon Gianfala re: JOA status

## Red Bird Ventures, Inc.

- 9/7/23: emailed Kevin Dice re: upcoming proposals and inquiring about status of McKay Fed #2 payout. Kevin replied and copied Meaghan Beacon at Wadi for input.
- 10/4/23: provided preliminary WI numbers and again requested payout information
- 11/15/23: provided preliminary interest info again to Kevin Dice
- 2/20/24: emailed draft stipulation to resolve title issue

## Rock Products Inc.

- 1/10/24: phone call with Eric Gibson regarding Dustbowl plans and timing. Requested email address for JOA.

## Wadi Petroleum, Inc.

- 8/16/2023: email to Meaghan Beacon advising of upcoming well proposals
- 9/19/23: followed up with Meaghan Beacon regarding status of Sun McKay Fed #2 payout
- 10/4/23: follow up to Meaghan Beacon requesting payout information
- 10/23/23: email response to Kirk Dice re: potential for offer on interest and requesting info on payout of Sun McKay #2
- 10/30/23: email to Meaghan Beacon confirming elections may be deferred while JOA is under review
- 2/20/24: emailed draft stipulation to resolve title issue

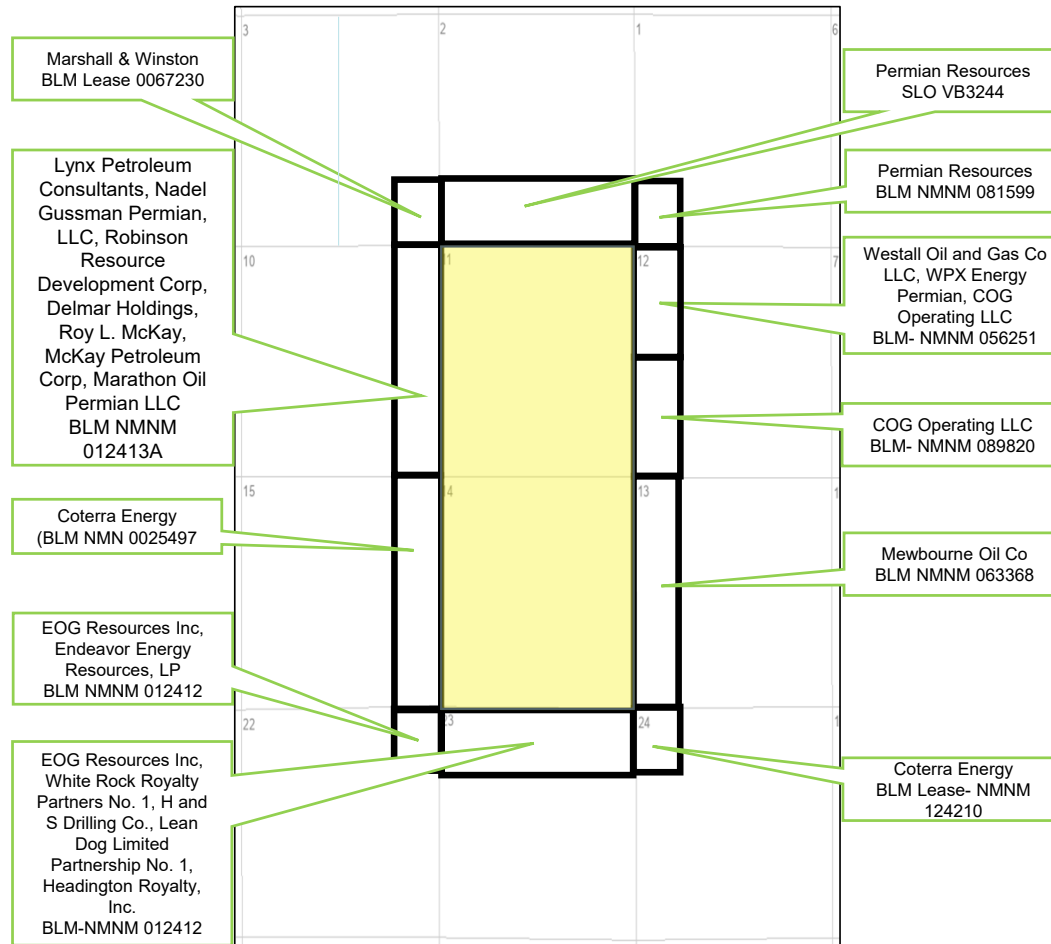
## Westlawn Fortuna, Inc. (Ellipsis)

- 10/4/23: received email from Steven Reker indicating they've bought DENM's interest. Requested assignment information (not yet recorded)
- 10/10/23: emailed Steven Reker and Adam Howard with requested development info
- 11/10/23: follow up email with Steven Reker and Adam Howard that I have recorded assignment and sharing JOA. Also sending JOA by mail.
- 11/13/23: email exchange with Pete Marshall that they are reviewing and he will be main contact
- 11/14/23: email with Steven Reker regarding development plans
- 12/6: emailed Steven Reker on JOA status
- 12/13/23: phone call with Pete Marshall regarding status, still reviewing JOA and will reach back out
- 1/3/24: called Pete Marshall re: duplicate assignment
- 1/4/24: forwarded digital JOA copy and title update info from attorney to Pete Marshall
- 2/15/24: inquired with Pete Marshall on any JOA questions
- 2/27/24: met with Pete Marshall to discuss development and timing

## Avant Operating, LLC/Legion Production Partners, LLC/Double Cabin Minerals, LLC

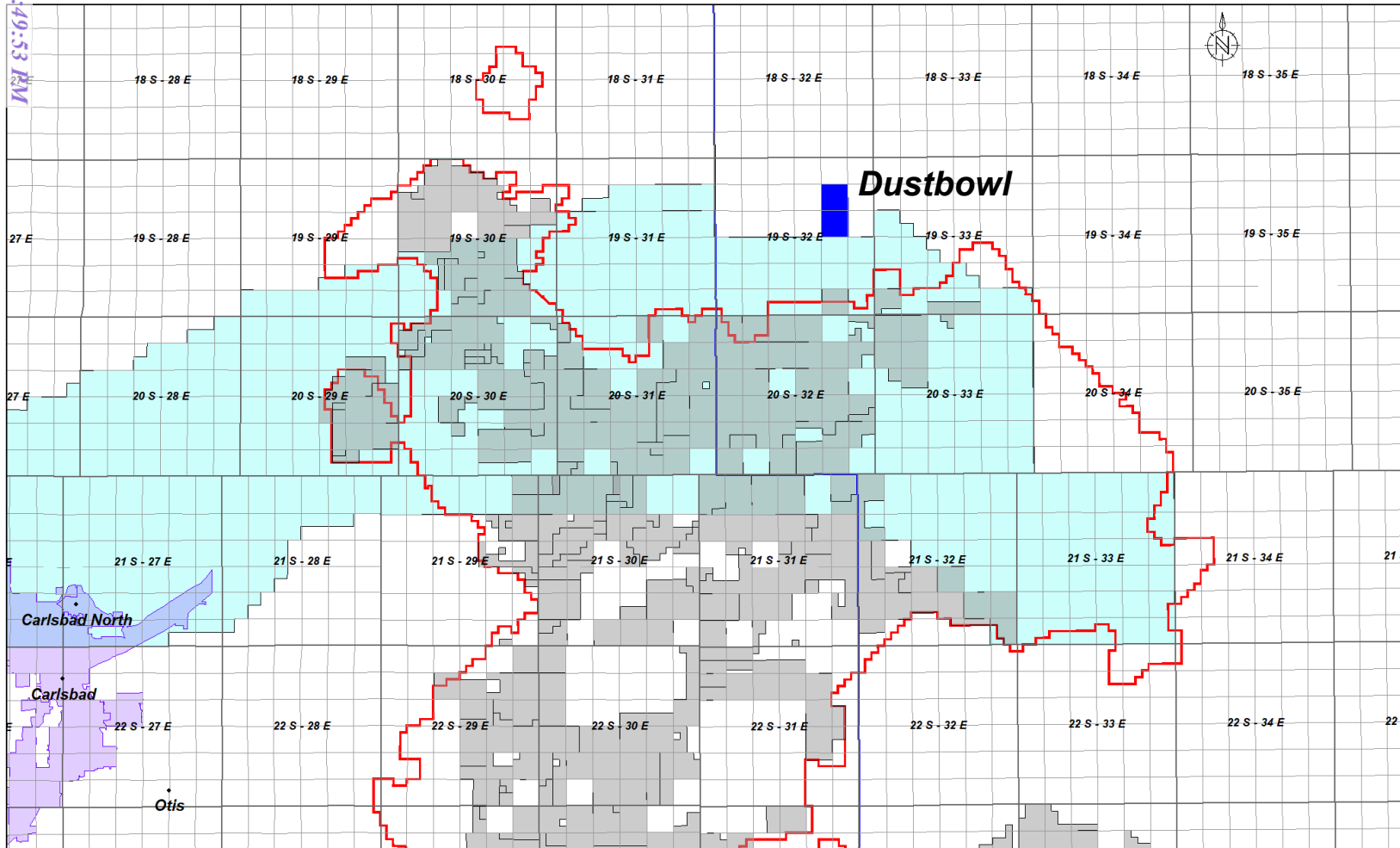
- 6/20/23-12/7/23: trade discussions with Chris Leyendecker
- 4/11/24-Today- Phone call with and emails with Chris Leyendecker

# OFFSET OPERATOR/OWNER MAP



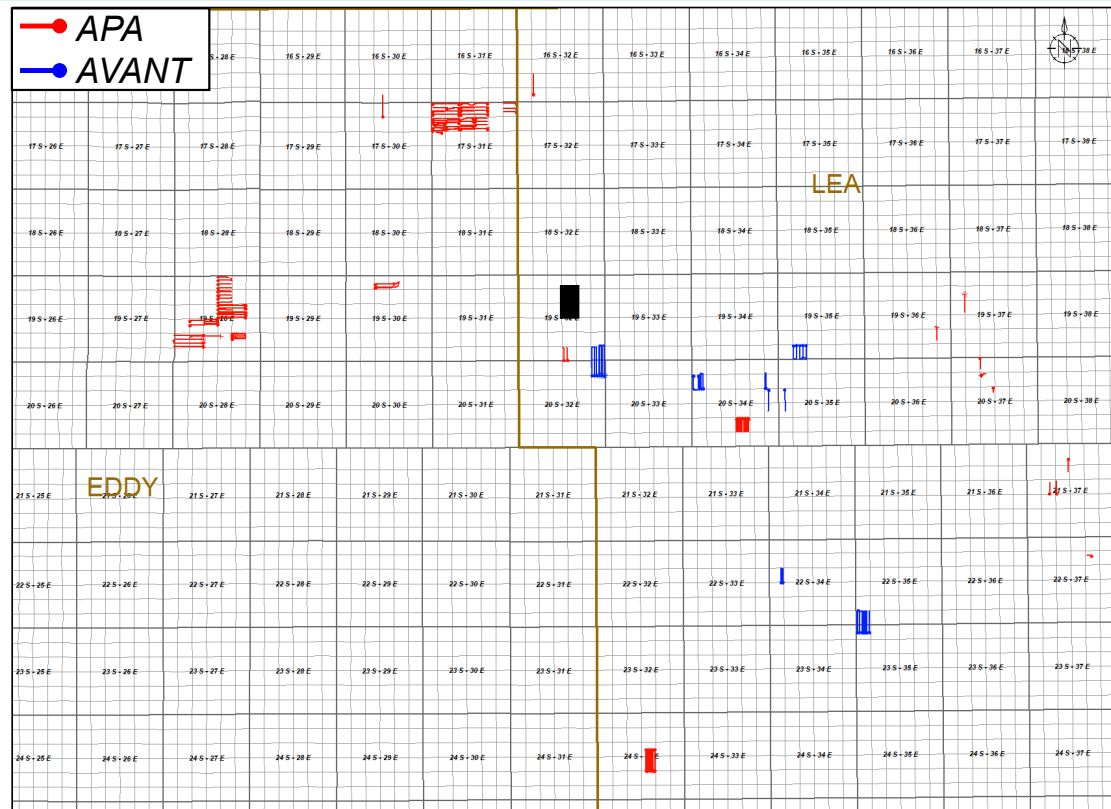


# Dustbowl Location Map



- Potash Boundary
- 4 String Required
- APA Dustbowl Development
- Potash Leases
- City Boundaries
- City

# Operator Experience

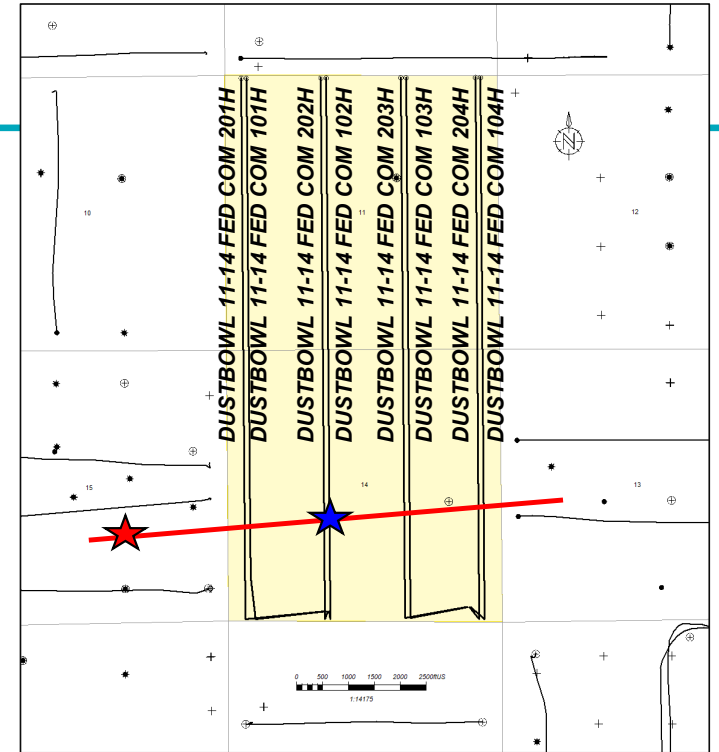
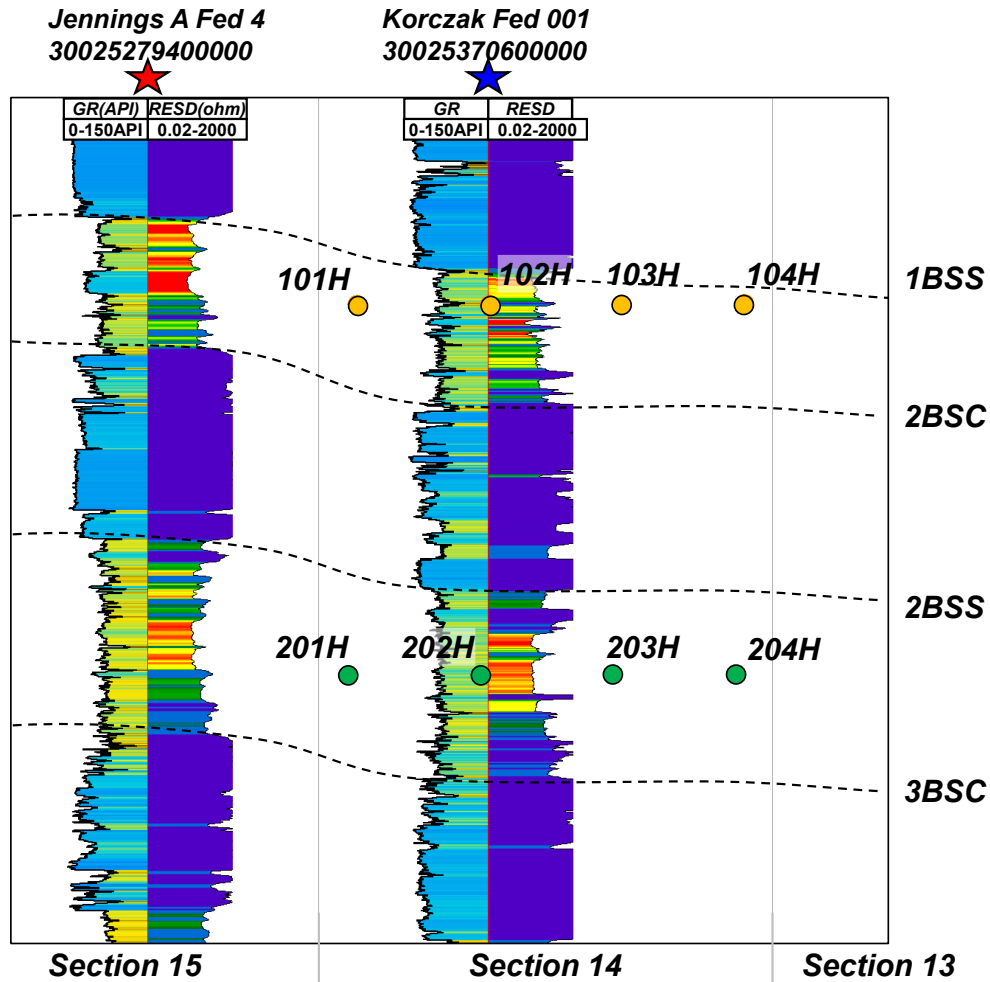


■ APA Dustbowl Development

APA		AVANT	
First Spud in DB	9/1/10	First Spud in DB	9/8/21
Drilled Horizontals	155	Drilled Horizontals	23 (10 Acquired Wells)

Source: Enverus on 3/26/2024

# APA Dustbowl Development



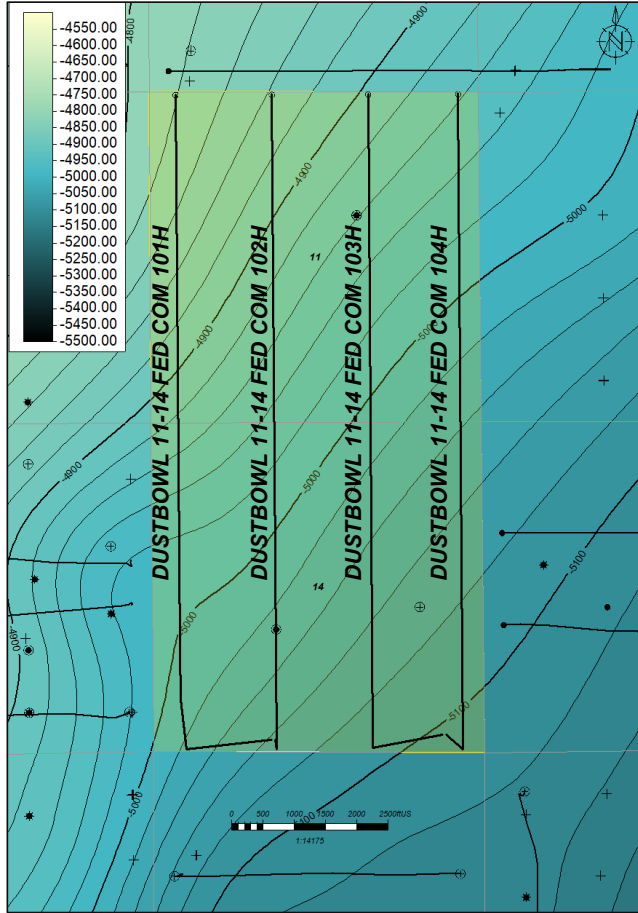
**Dustbowl 11-14 Fed Com Development Planned Targets**

- (4) 1<sup>st</sup> Bone Spring Sand
- (4) 2<sup>nd</sup> Bone Spring Sand

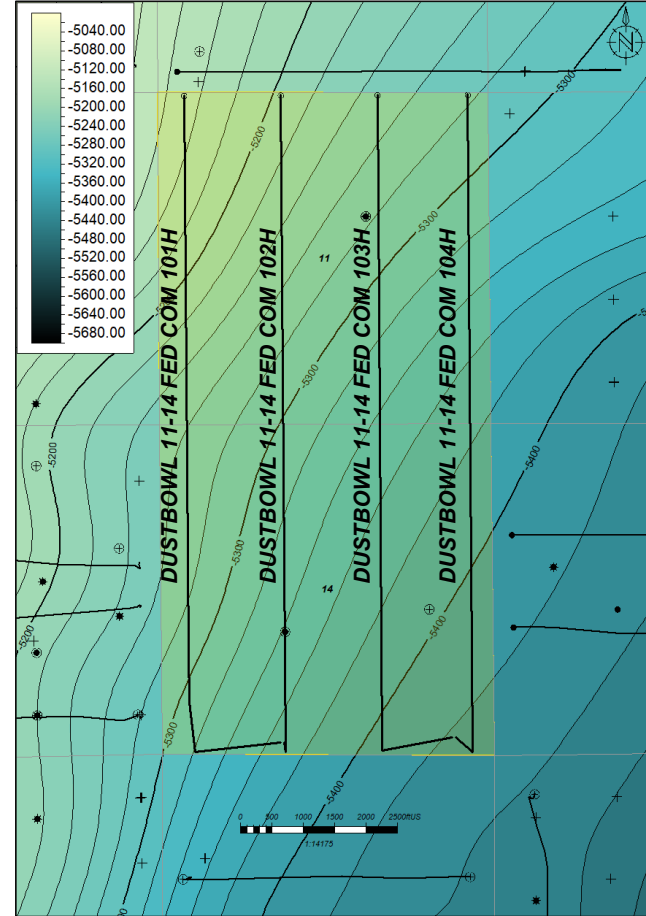
Apache plans to develop sections 11 and 14 with 2 mile laterals, 4 – 1<sup>st</sup> Bone Spring Sand wells and 4 – 2<sup>nd</sup> Bone Spring Sand wells. The laterals will be drilled off 2 pads from South to North

# 1<sup>st</sup> Bone Spring Sandstone Maps (SSTVD)

Top 1<sup>st</sup> Bone Spring Sandstone C.I. 20'

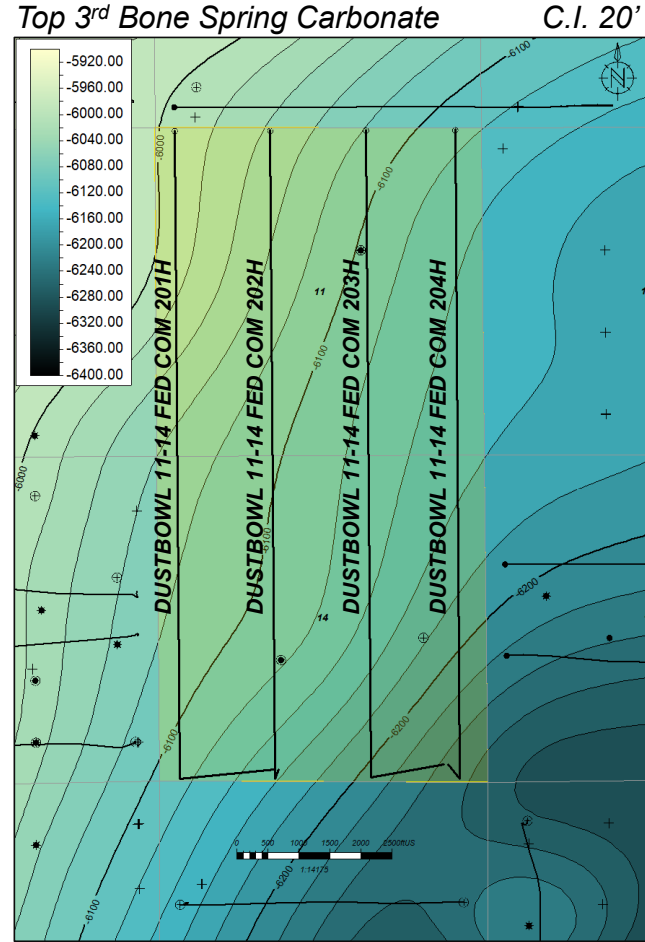
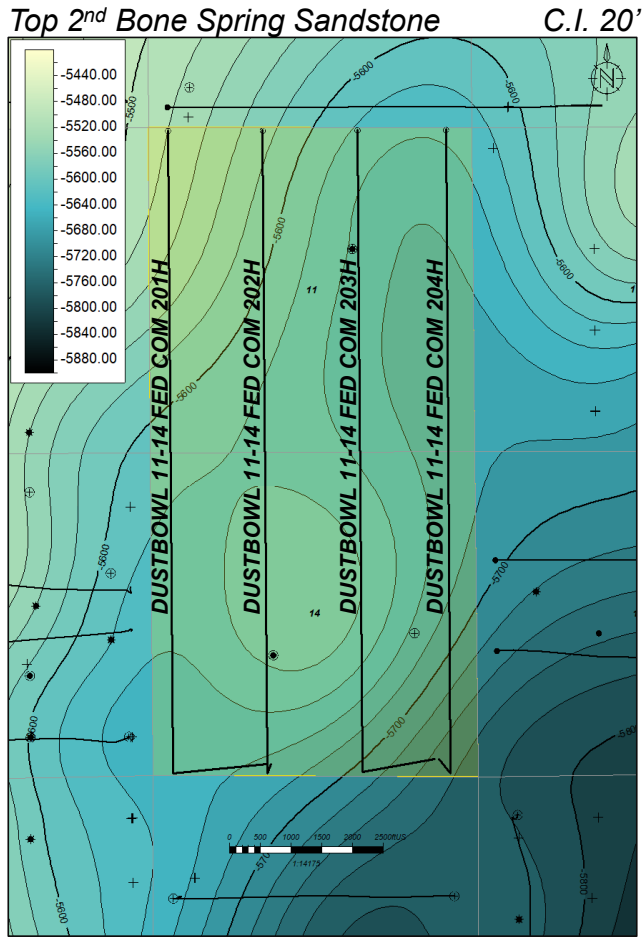


Top 2<sup>nd</sup> Bone Spring Carbonate C.I. 20'

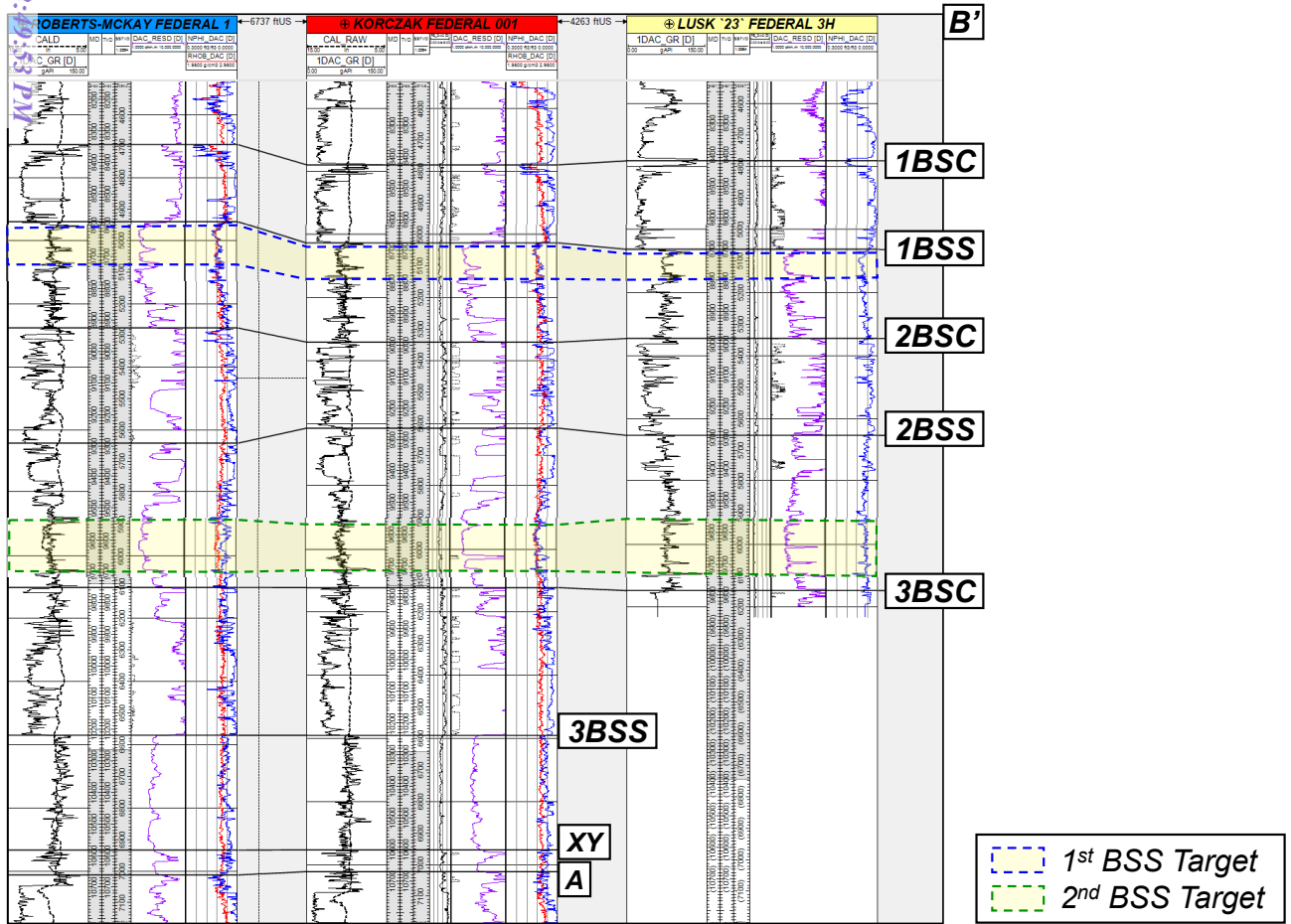




# 2<sup>nd</sup> Bone Spring Sandstone Maps (SSTVD)

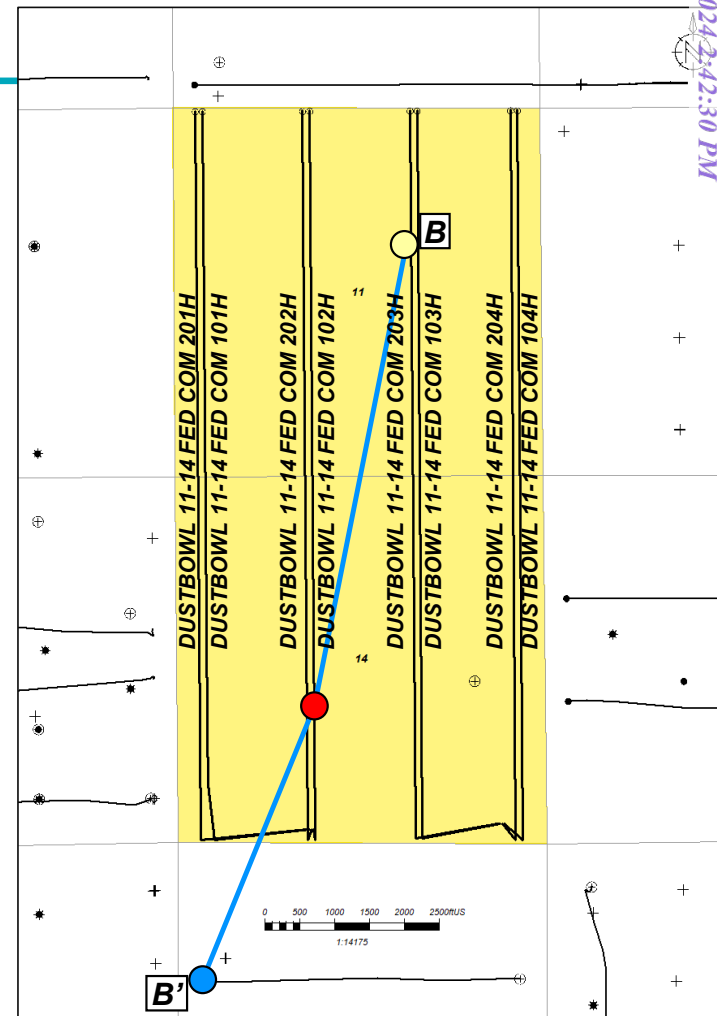


# Cross Section Map B-B'

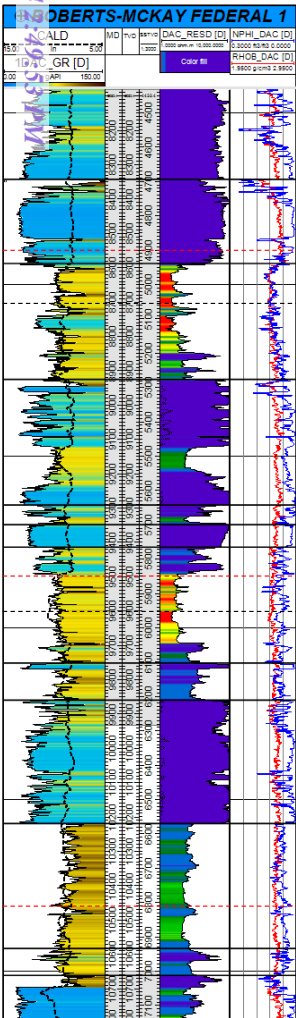


Flattened on 3rd Bone Spring Carbonate

## Dustbowl 1st and 2nd BSS Development

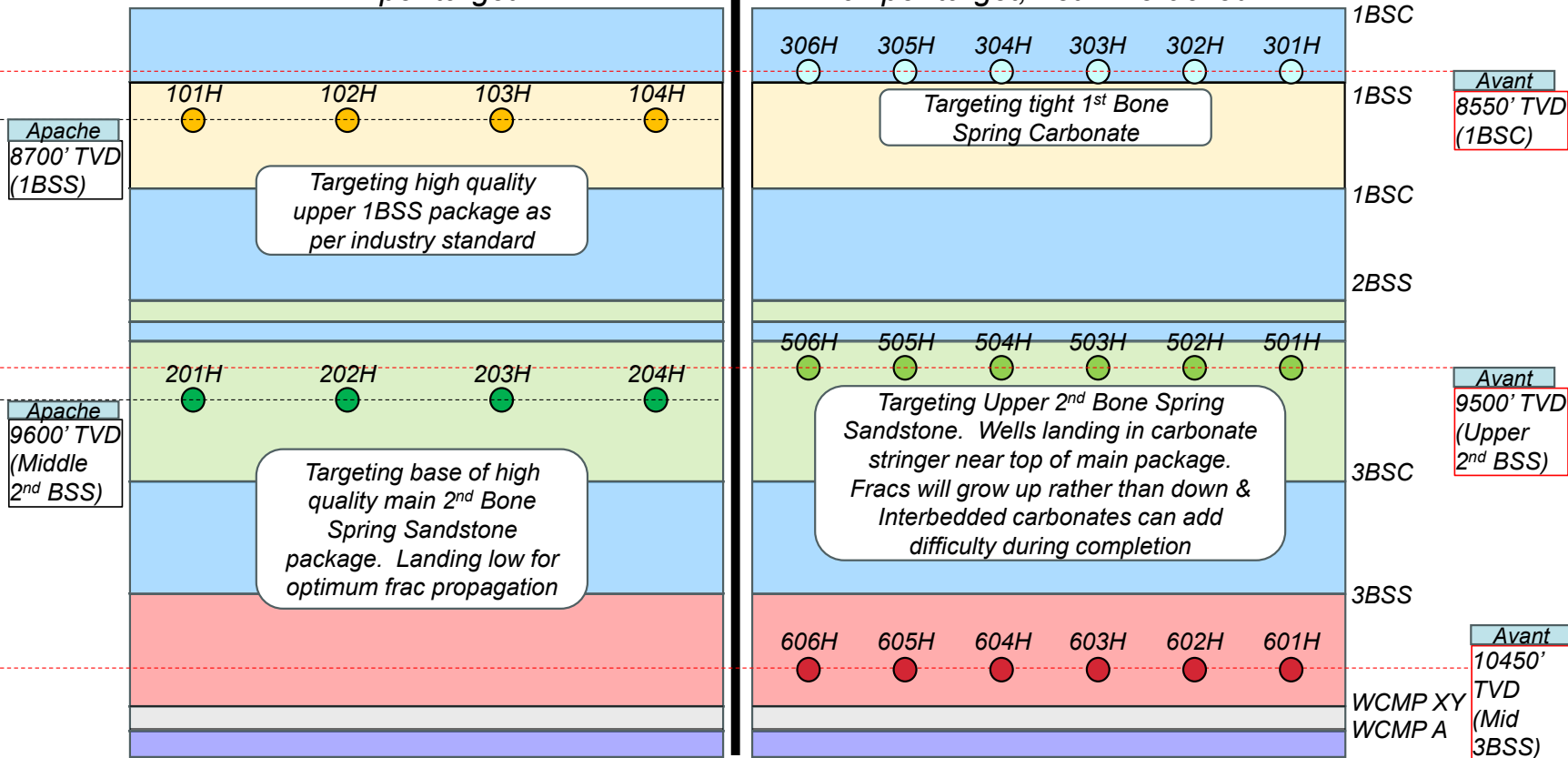


# Targeting: APA vs Avant North to South (Proposed)



### APA Dustbowl Planned Development 4x per target

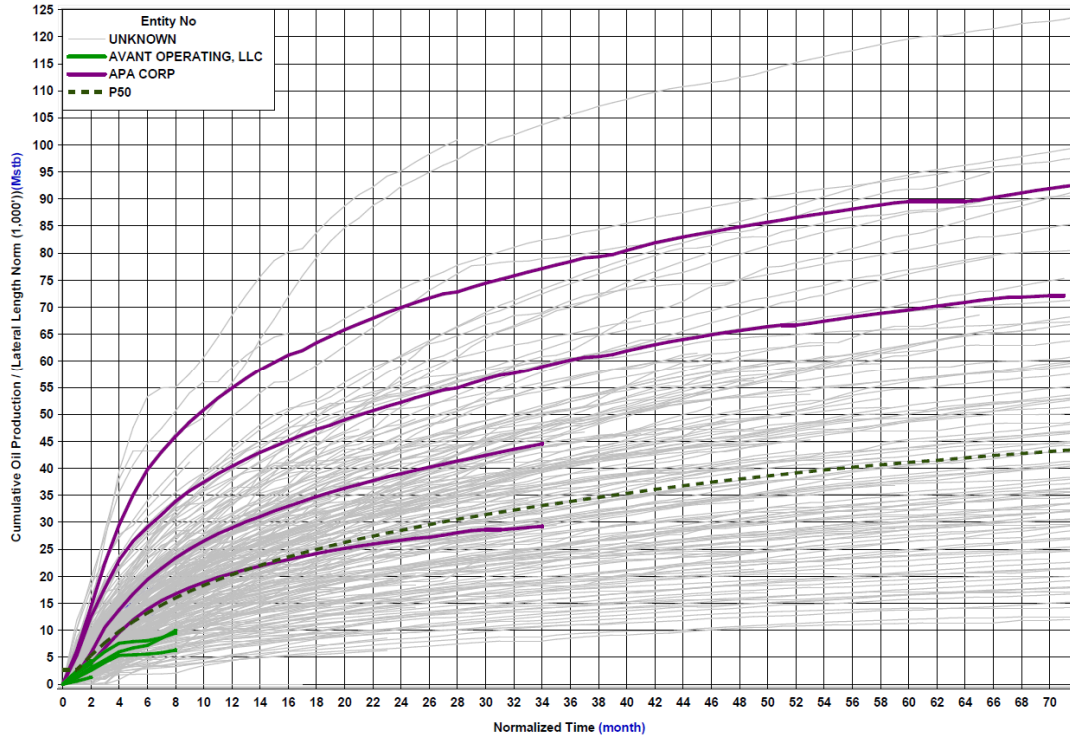
### Avant Grayling Planned Development 6x per target, not wineracked



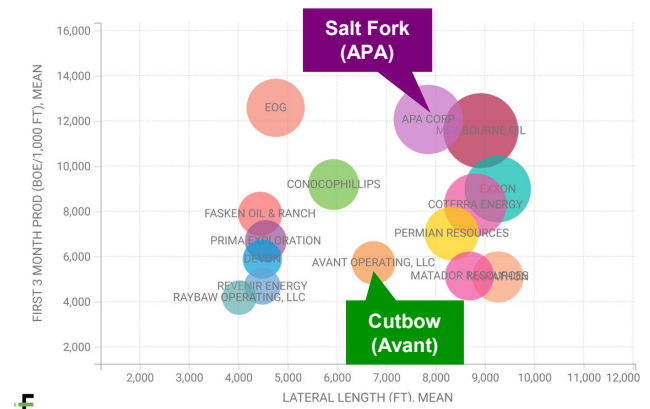
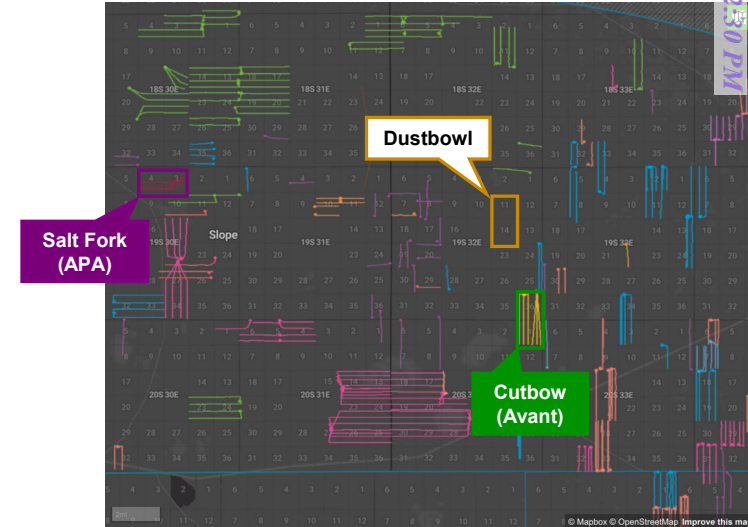


# Historical Well Performance

All Operators



- **APA's Salt Fork** (2<sup>nd</sup> & 3<sup>rd</sup> Bone Spring, 4x spacing) well performance greatly outperforms that of **Avant's Cutbow** (3<sup>rd</sup> Bone Spring, 6x spacing), as well as the P50 curve for all operators.



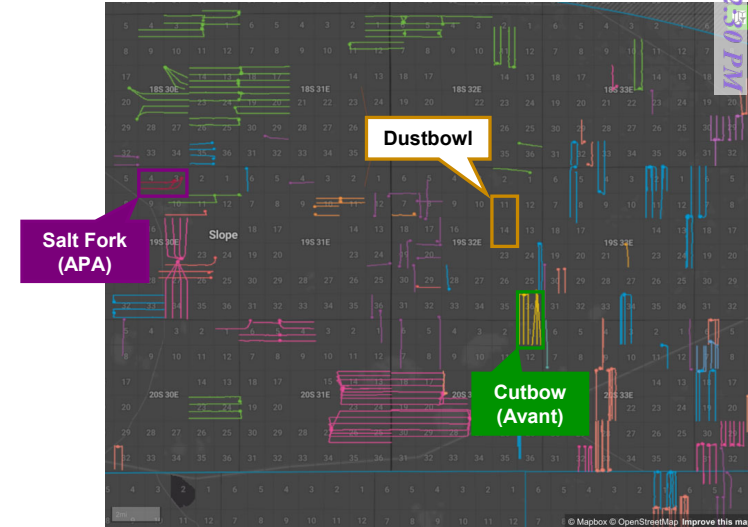
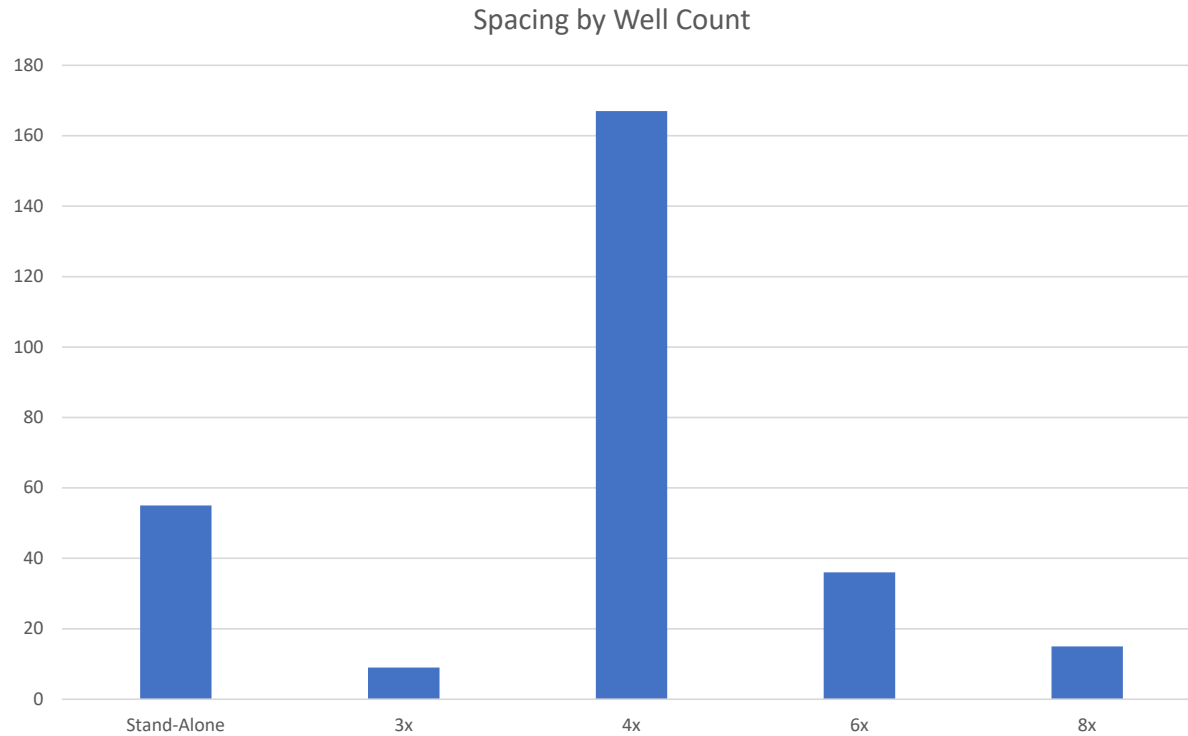
Source: Enverus on 3/13/2024

\*Data filtered to 1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> Bone Springs Landing Zone post 1/1/2015 First Production Date



# Typical Development Well Spacing

All Operators



- Vast majority of operators are developing their respective pads at 4x spacing
- Stand-Alone wells are likely step out development tests

Source: Enverus on 3/13/2024

\*Data filtered to 1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> Bone Springs Landing Zone post 1/1/2015 First Production Date

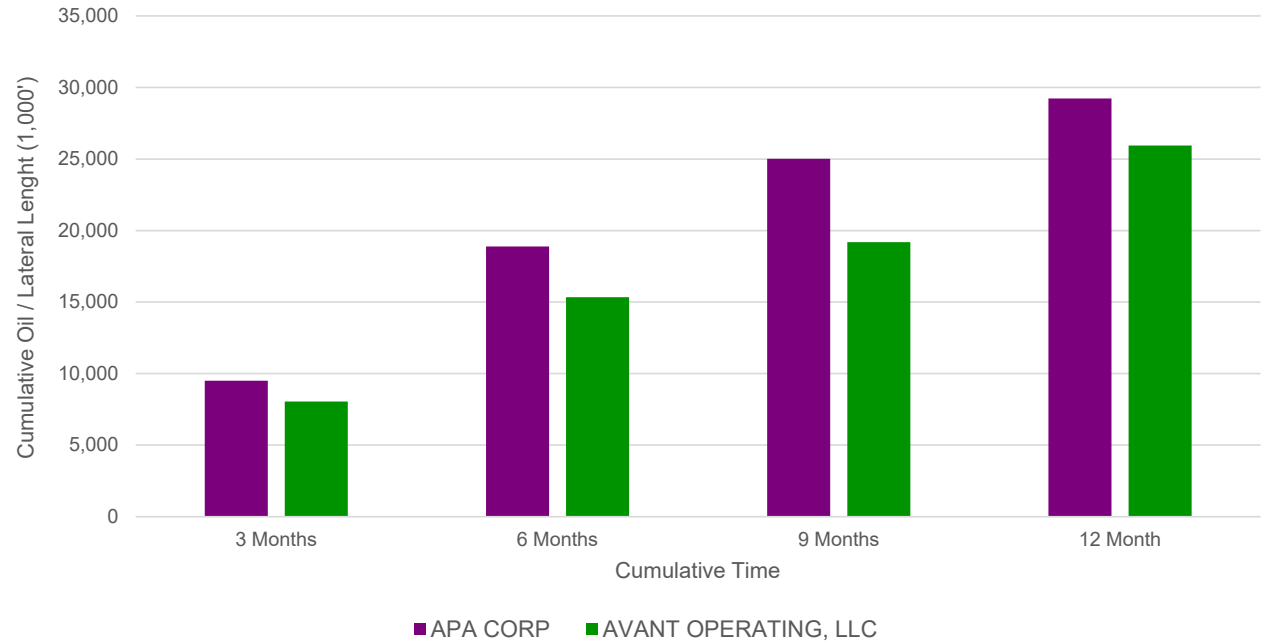
# Historical Well Performance

## APA and Avant Comparison by Quarter

- Apache consistently **outperforms** Avant, regardless of timeframe used in analysis
- This outperformance is distinct despite the observation that Apache’s completions historically are **smaller** than Avant’s in both proppant intensity & fluid intensity



Normalized Cumulative Oil by Operator



Operator	Proppant Intensity (lbs/ft)	Fluid Intensity (bbl/ft)
Apache	1,915	46
Avant	2,540	69

Source: Enverus on 3/5/2024

\*Data filtered to 1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> Bone Springs Landing Zone post 1/1/2015 First Production Date

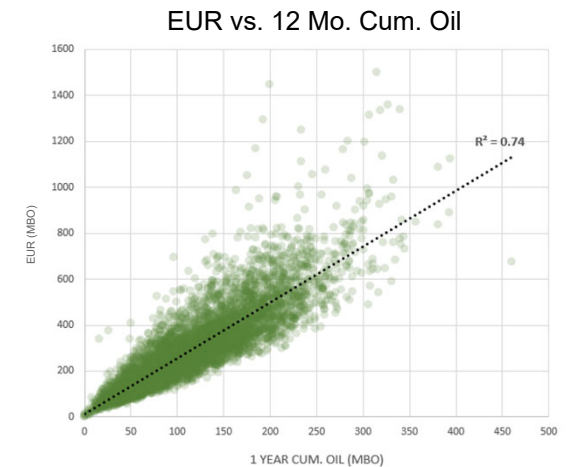
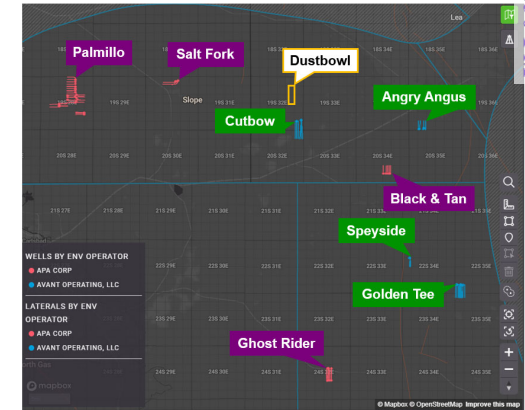
# Dustbowl

## Projected Total Recovery

- APA **outperforms** Avant in all three Bone Springs landing zones
- Using 12-month cumulative production as a proxy for EUR, APA (4x) is still projected to **outperform** Avant in total recovery, even with Avant (6x) increasing the well count per section

Landing Zone	9 Month Cumulative Oil / 1,000' (MBo) per Well			Cumulative Dustbowl With Spacing (MBo)		
	APA Corp	Avant	Delta	APA Corp (4x)	Avant (6x)	Delta
1st Bone Spring	51.9	31.5	65%	207.5	189.2	10%
2nd Bone Spring	29.6	15.7	89%	118.5	93.9	26%
3rd Bone Spring	18.3	8.6	112%	73.1	51.6	42%

Landing Zone	12 Month Cumulative Oil / 1,000' (MBo) per Well			Cumulative Dustbowl With Spacing (MBo)		
	APA Corp	Avant	Delta	APA Corp (4x)	Avant (6x)	Delta
1st Bone Spring	62.9	36.5	72%	251.6	219.3	15%
2nd Bone Spring	34.1	17.5	95%	136.4	104.8	30%
3rd Bone Spring	21.7	-	-	86.9	-	-



Source: Enverus on 3/5/2024

\*Data filtered to 1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> Bone Springs Landing Zone post 1/1/2015 First Production Date

# Total AFE Costs & Economics

- Avant's development proposal requires 27.3% more capital for lower expected recovery
  - The resulting finding cost (\$/BO) shows enhanced economic efficiency in Apache's development proposal

Target Formation	Apache Total AFE	Avant Total AFE	Delta
1 <sup>st</sup> Bone Spring	\$52,092,200	\$66,126,660	26.9%
2 <sup>nd</sup> Bone Spring	\$52,245,700	\$66,712,002	27.7%
<b>TOTAL</b>	<b>\$104,337,900</b>	<b>\$132,838,662</b>	<b>27.3%</b>

Target Formation	Apache Total 1YR Cum (MBO)	Avant Total 1YR Cum (MBO)	Delta	Apache FDC (\$/BO)*	Avant FDC (\$/BO)*
1 <sup>st</sup> Bone Spring	251.6	219.3	14.7%	20.8	30.2
2 <sup>nd</sup> Bone Spring	136.4	104.8	30.1%	38.2	63.6
<b>TOTAL</b>	<b>388.0</b>	<b>324.1</b>	<b>19.7%</b>	<b>26.9</b>	<b>41.0</b>

\*FDC calculated at the 1YR Cum mark, 10k LL

# Drilling Comparison

Operator	Landing Zone	Spud to TD Days per Well*	Well Count	Total Spud to TD Days per LZ	Total Spud to TD Days
Apache	1 <sup>st</sup> BS	12.6 days	4	50.4	103 days (3.4 months)
	2 <sup>nd</sup> BS	13.1 days	4	52.4	
Avant	1 <sup>st</sup> BS	12.6 days	6	75.6	155 days (5.1 months)
	2 <sup>nd</sup> BS	13.1 days	6	78.6	

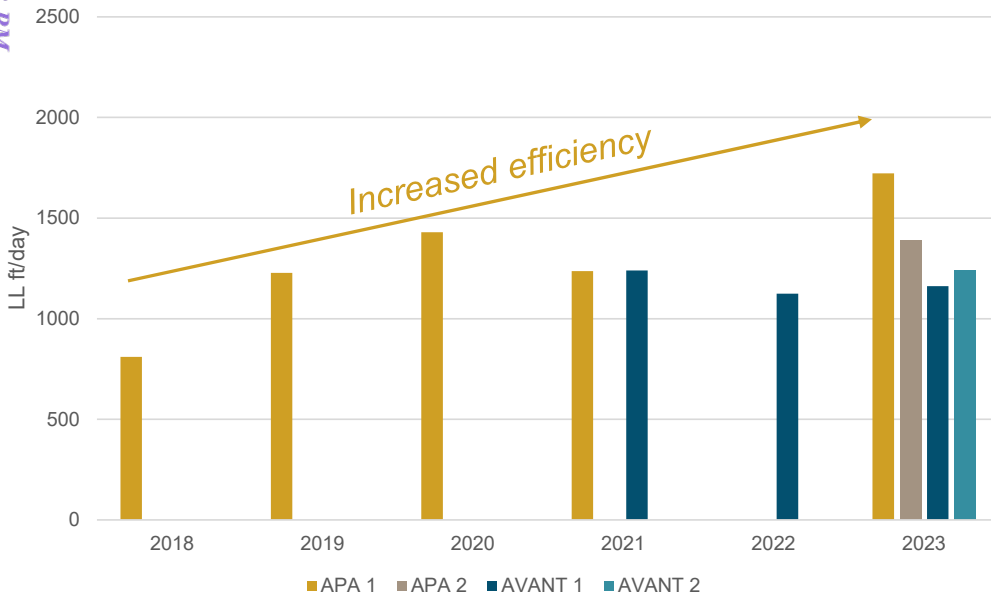
\*assuming similar performance, days based on Avant AFE days

- Apache’s development plan will have considerably less disturbance time to Lesser Prairie Chicken restricted area
  - Approximately **52 fewer days** to complete project



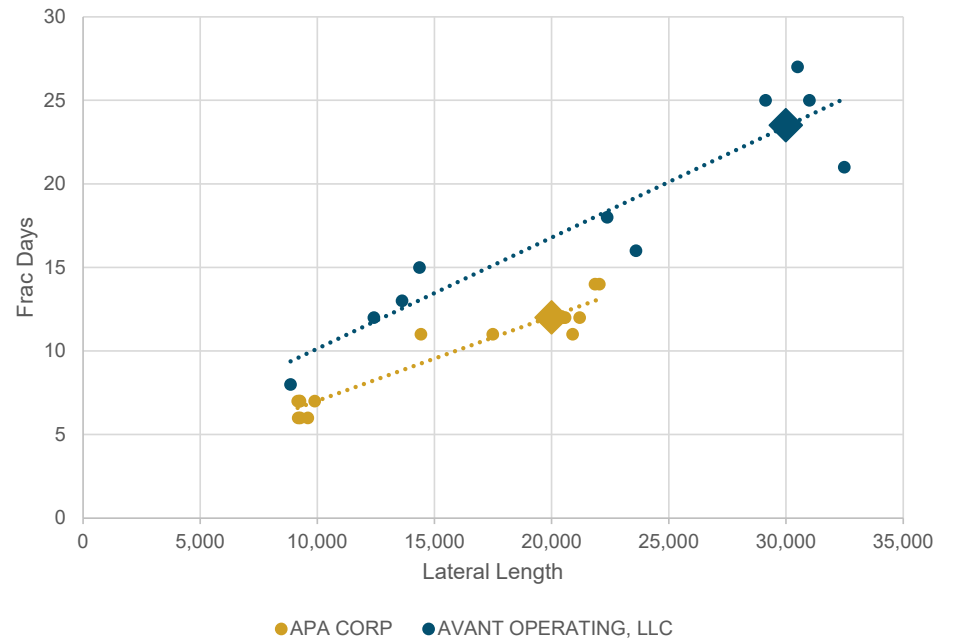
# Completion Comparison

Frac Operations Efficiency by Fleet



LL/day Avg	2023	2021-2023
APACHE	1,556	1,449
AVANT	1,202	1,192

Lateral Length vs Frac Days, by Pad



Frac Operations Duration Projection  
 Assumes 10,000' LL/well and developments frac'd in 2 parts  
**APACHE 4x: 12 days per job / 48 total**  
**AVANT 6x: 24 days per job / 96 total**

**More LL/day + optimized spacing = 48 fewer days of surface disturbance to Lesser Prairie Chicken restricted area**

# Compliance / Filing Irregularities

- Avant has 30 well completions producing without Authorization to Transport (via NMOCD)

Source: <https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/Reporting/Production/WellCompletionsProducingNoTransportAuthorization.aspx>

Well Completions Producing without Authorization to Transport  
330396 Operator(s) , All District(s) , Printed on: Tuesday, May 07 2024

OgrId	Operator	WellName	API	Pool Name	Pool Number	Well Completion Status Code	Last Production	Earliest Production
330396	Avant Operating, LLC	ANGRY ANGLUS 32 STATE COM # 701H	30-025-51567	KLEIN RANCH/WOLFCAMP	96989	New, Not Drilled	2/2024	12/2023
330396	Avant Operating, LLC	ANGRY ANGLUS 32 STATE COM # 702H	30-025-51568	KLEIN RANCH/WOLFCAMP	96989	New, Not Drilled	2/2024	12/2023
330396	Avant Operating, LLC	ANGRY ANGLUS 32 STATE COM # 703H	30-025-51622	KLEIN RANCH/WOLFCAMP	96989	New, Not Drilled	2/2024	1/2024
330396	Avant Operating, LLC	ANGRY ANGLUS 32 STATE COM # 704H	30-025-51623	KLEIN RANCH/WOLFCAMP	96989	New, Not Drilled	2/2024	1/2024
330396	Avant Operating, LLC	ANGRY ANGLUS 32 STATE COM # 705H	30-025-51624	KLEIN RANCH/WOLFCAMP	96989	New, Not Drilled	2/2024	1/2024
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 304H	30-025-51499	GEMBONE SPRING	27220	New, Not Drilled	2/2024	2/2024
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 305H	30-025-51500	GEMBONE SPRING	27220	New, Not Drilled	2/2024	2/2024
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 306H	30-025-51501	GEMBONE SPRING	27220	New, Not Drilled	2/2024	2/2024
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 601H	30-025-50701	GEMBONE SPRING	27220	New, Not Drilled	2/2024	4/2023
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 602H	30-025-50674	GEMBONE SPRING	27220	New, Not Drilled	2/2024	4/2023
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 603H	30-025-50635	GEMBONE SPRING	27220	New, Not Drilled	2/2024	4/2023
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 604H	30-025-51035	GEMBONE SPRING	27220	New, Not Drilled	2/2024	10/2023
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 605H	30-025-51187	GEMBONE SPRING	27220	New, Not Drilled	2/2024	10/2023
330396	Avant Operating, LLC	CUTBOW 36 1 FEDERAL COM # 606H	30-025-51036	GEMBONE SPRING	27220	New, Not Drilled	2/2024	10/2023
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 304H	30-025-49327	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	12/2022
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 305H	30-025-49328	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	12/2022
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 306H	30-025-49329	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	12/2022
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 307H	30-025-49406	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	12/2022
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 505H	30-025-49331	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	12/2022
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 506H	30-025-49332	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	12/2022
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 601H	30-025-50629	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	7/2023
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 602H	30-025-50630	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	7/2023
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 603H	30-025-50896	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	7/2023
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 604H	30-025-49390	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	7/2023
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 605H	30-025-49391	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	7/2023
330396	Avant Operating, LLC	GOLDEN TEE 31 FEDERAL COM # 606H	30-025-49392	ANTELOPE RIDGE/BONE SPRING, NORTH	2205	New, Not Drilled	2/2024	7/2023
330396	Avant Operating, LLC	SPEYSIDE 18 FEDERAL # 301H	30-025-51301	GRAMA RIDGE/BONE SPRINGS, WEST	28432	New, Not Drilled	2/2024	11/2023
330396	Avant Operating, LLC	SPEYSIDE 18 FEDERAL # 302H	30-025-51302	GRAMA RIDGE/BONE SPRINGS, WEST	28432	New, Not Drilled	2/2024	11/2023
330396	Avant Operating, LLC	SPEYSIDE 18 FEDERAL # 601H	30-025-51305	GRAMA RIDGE/BONE SPRINGS, WEST	28432	New, Not Drilled	2/2024	11/2023
330396	Avant Operating, LLC	SPEYSIDE 18 FEDERAL # 602H	30-025-51306	GRAMA RIDGE/BONE SPRINGS, WEST	28432	New, Not Drilled	2/2024	11/2023

# Gas Waste Flaring

## Upstream Natural Gas Waste Summary Report<sup>1,2</sup>

Reporting Periods: October 2021 (first required quarterly report) to April 2024 Printed On: Tuesday, May 07 2024

OGRID	Operator	Capture Percentage	Volumetric Loss	Gas Produced	Gas Sold
330396	Avant Operating, LLC	75.80	1,563,759	6,463,024	4,709,798

- Apache **exceeding** its 98% Target Gas Capture Rate at 99.40%
- Avant **not meeting** its 98% Target Gas Capture Rate at 75.80%
  - Since 2022: 1,226 flare incidents reported; Avant operating 88 total active wells in NM
  - 5<sup>th</sup> worst flaring offender in NM\*
  - Flaring trend shows no improvement in flaring volume since 4Q21

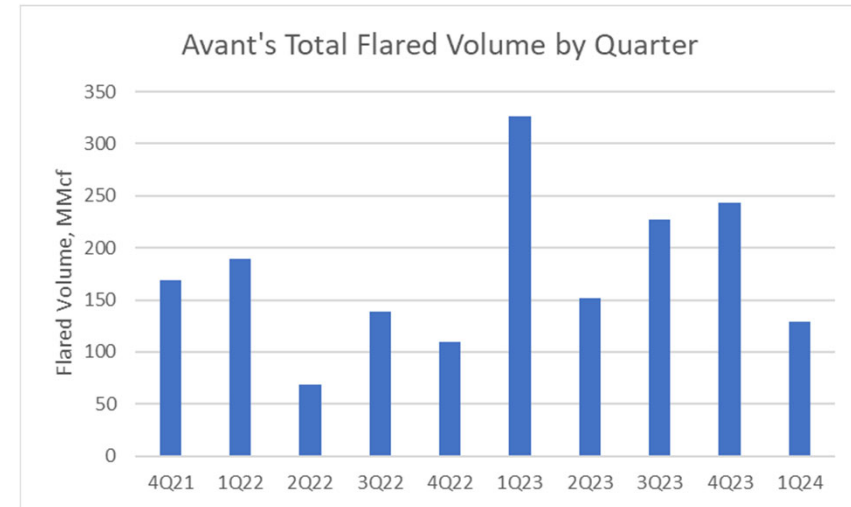
Sources:

1) <https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Reporting/NaturalGasWaste/UpstreamNaturalGasWasteOperatorSummary.aspx>

2) <https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/Data/Incidents/Incidents.aspx>

3) Enverus

\*Companies producing >10 BCF since 2022



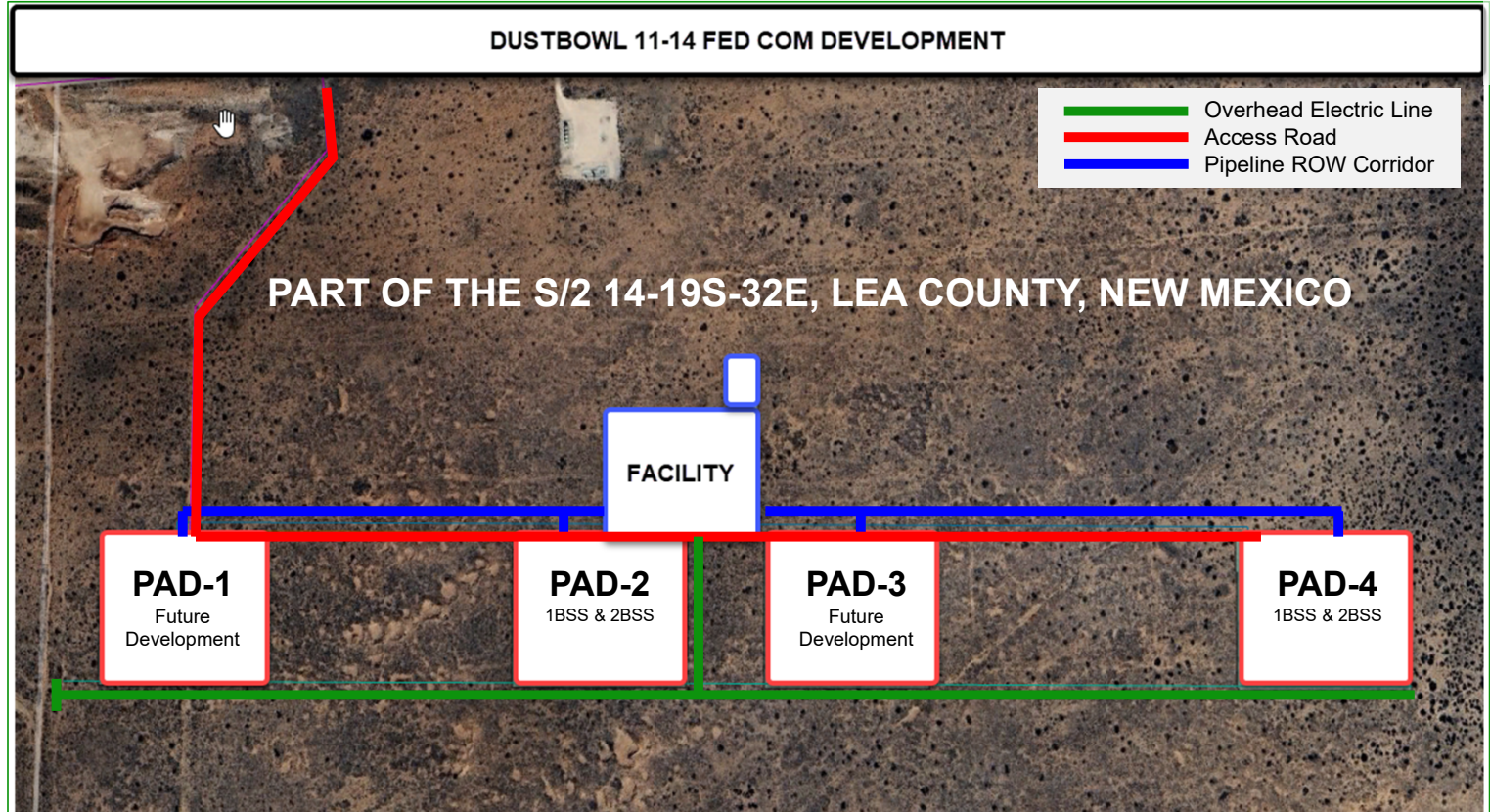
# Surface Infrastructure & Gas Takeaway

### Facility Plans

- Designed for multi-stage development to minimize surface impact and allow for smaller facility
- APA facility cost - \$12MM
- Avant facility cost - \$27MM
- Drill pads planned for optimum multi-well development

### Gas Takeaway Plans

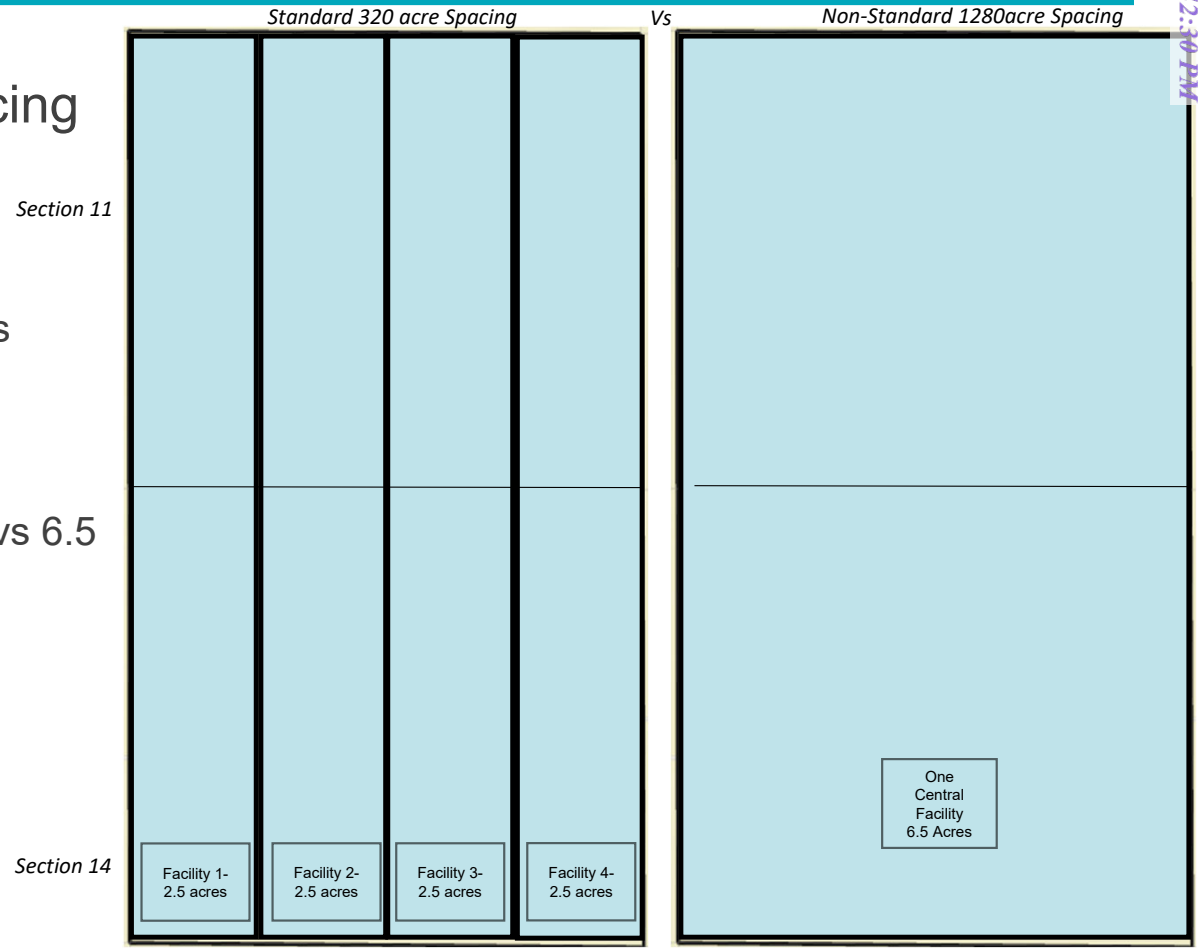
- The Dustbowl development is located in a highly constrained area for NM gas takeaway.
- Apache identified five midstream counterparties to service Dustbowl gas production.
- APA will commit to an increased capital investment specifically for gas takeaway reliability consistent with our gas capture rate goal described on slide 27
  - This investment will service gas for all owners, including royalty or other working interest partners.
  - Apache has a high level of confidence that reliable gas takeaway is secured.



\*Arc survey completed, in process filing for all required easement to allow Apache to hit target drilling dates

# Non-standard Spacing Unit

- Creation of a non-standard spacing unit allows for the following
  - Reduction in facility costs of approximately \$2MM
    - \$3.5MM per facility x 4 facilities vs \$12MM for a single facility
  - Reduction in surface footprint of approximately 3.5 acres
    - 2.5 acres per facility x 4 facilities vs 6.5 acres for a single facility





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**APPLICATION OF APACHE CORPORATION FOR  
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WELL SPACING UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**Case No. 24141**

**APPLICATION OF AVANT OPERATING, LLC  
FOR COMPULSORY POOLING AND APPROVAL  
OF NON-STANDARD SPACING UNIT,  
LEA COUNTY, NEW MEXICO**

**Case No. 24254**

**SELF-AFFIRMED STATEMENT OF DREW CHENOWETH, GEOLOGIST**

1. My name is Drew Chenoweth, and I am employed by Apache Corporation (“Apache”) as a petroleum geologist. I am familiar with the applications filed in these consolidated cases and have conducted a geologic study of the lands in the subject area.

2. I have been employed by Apache since 2017 and my responsibilities have included the Permian Basin of New Mexico. I am a member of AAPG and have been a member of this organization since 2008. I have previously testified before the Division as an expert in petroleum geology and my credentials have been accepted and made a matter of public record.

3. I will address Slides 11 through 18 of Exhibit B, which discuss Apache’s initial development plans in the 1st and 2nd Sands of the Bone Spring formation.

4. **Slide 11 of Apache Exhibit B** shows the general location of the proposed Dustbowl horizontal well spacing unit in relation to the Potash Area, the 4 string casing requirement AOI and the City of Carlsbad.

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5. **Slide 12 of Apache Exhibit B** demonstrates that Apache's drilling and completion experience in the Delaware Basin of New Mexico is superior to Avant. Apache has drilled and completed 155 horizontal wells in the Delaware Basin dating back to 2010. In contrast, Avant did not drill a horizontal well in this area until September of 2021 and has only drilled 13 horizontal wells in the Delaware Basin of New Mexico. The black rectangle designates the Dustbowl development.

6. **Slide 13 of Apache Exhibit B** depicts Apache's initial development plan for the 1st and the 2nd Bone Spring Sands. The initial wells are placed evenly across Sections 11 and 14 and will be drilled from south to north from well pads in the S2S2 of Section 14. The target intervals are reflected in the type logs depicted on the left side of this slide. These logs contain gamma ray and resistivity tracks and are representative of the geology underlying the proposed spacing unit. This exhibit demonstrates that Apache plans to place the initial wells in the heart of the productive sands and avoid landing in or drilling through the carbonate intervals of the 1<sup>st</sup> and 2<sup>nd</sup> Bone Spring.

7. **Slides 14 and 15 of Apache Exhibit B** contain subsea structure maps I created for the Sandstone and Carbonate intervals at the top and bottom of the 1st and 2nd Bone Spring Sand target intervals. I have outlined and shaded Sections 11 and 14 on each structure map and identified the general location of the initial wells. Based on well control data, the regional structure of these intervals is dipping to the southeast. I do not observe any faults, pinch outs, or other geologic impediments to developing the 1st and 2nd Bone Spring Sands with horizontal wells.

8. **Slide 16 of Apache Exhibit B** is a stratigraphic cross section B to B" that I prepared the using the logs from the three wells shown on the right side of this slide.

These logs contain gamma ray, caliper, deep resistivity, bulk density and neutron porosity tracks and are representative of the geology underlying the proposed spacing unit. On the left side of this slide, the 1st Bone Spring Sand target is shaded in yellow and depicted with a blue dash line, while the 2nd Bone Spring Sand target is shaded in yellow and depicted with green dash lines. This exhibit demonstrates that the target intervals underlying the subject area are suitable for development by horizontal wells and that the acreage comprising the proposed horizontal spacing unit is productive and will contribute proportionately to the production from the wells.

9. In my opinion, the standup (north/south) orientation of the proposed wells is the preferred orientation for horizontal well development in this area because of industry accepted regional stress orientation as published extensively by Lund Snee and Zoback (2016,2018, 2022). Another verification of this standup orientation is the orientation of offset developments.

10. I have reviewed the well proposal letter Avant sent to Apache. It reflects that Avant intends to drill its proposed Grayling wells from the N2N2 of Section 11 south into Section 14 at a TVD of 8550 feet for its proposed 1st Bone Spring wells and a TVD of 9500 feet for its proposed 2nd Bone Spring wells. I have also reviewed Avant's pooling application filed in Case 24254. The application departs from the well proposal letter by stating Avant plans to drill from the S2S2 of Section 14 north into Section 11 at these proposed depths.

11. **Slides 17 and 18 of Apache Exhibit B** plot Avant's proposed TVD's under both scenarios, with Slide 17 depicting Avant's proposed depths if drilling from North to South (as set forth in Avant's well proposal letter) and Slide 18 depicting Avant's

proposed depths if drilling from South to North (as set forth in Avant's pooling application.) In each scenario, the depths proposed by Avant:

- a. Place Avant's 1st Bone Spring wells in the 1st Bone Spring Carbonate rather than the high-quality 1st Bone Spring Sand targeted by Apache and other operators in this area.
- b. Place Avant's 2nd Bone Spring wells in the upper part of the 2nd Bone Spring Sandstones near a carbonate stringer, rather than in the higher quality lower part of the 2nd Bone Spring Sandstones targeted by Apache and other operators in this area.

12. Since the fractures utilized by horizontal wells will tend to grow up rather than down, the placement of Avant's proposed well depths in or near the Bone Spring carbonates will not efficiently and effectively develop the high quality sand targets.

13. In addition, the placement of Avant's wells in or near the Bone Spring tight carbonates can add difficulty during completions because of the potential inability of the fracs to initiate during completion.

14. In my opinion, the Apache's proposed initial development plan for the 1st and 2nd Bone Spring Sands is superior to that proposed by Avant.

15. In my opinion, the granting of Apache's application and the denial of Avant's application is in the best interest of conservation, the prevention of waste, and protection of correlative rights.

16. **Slides 11 through 18 of Apache Exhibit B** were either prepared by me or compiled under my direction and supervision.

17. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

  
Drew Chenoweth

5/21/24  
Date



**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
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**APPLICATION OF APACHE CORPORATION FOR  
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**Case No. 24254**

**SELF-AFFIRMED STATEMENT OF LUCAS EMMETT, ENGINEER**

1. My name is Lucas Emmett and I have been employed by Apache Corporation (“Apache”) as a petroleum engineer since July 2013. My responsibilities include the Permian Basin of New Mexico, and I am familiar with the applications filed in these consolidated cases.

2. My educational background and work experience is accurately summarized in **Apache Exhibit D-1**, attached hereto. I have been a member of the Society of Petroleum Engineers since December 2021. I believe my credentials qualify me to testify as an expert witness in petroleum reservoir and engineering matters.

3. I will discuss slides 19-22 of Apache Exhibit B, which address Apache’s experience and results in the subject area as compared to Avant.

4. With the heterogeneous geology in the area, a thorough understanding of the reservoir quality is key to understanding and predicting performance. Apache’s extensive drilling and completion experience in the Delaware Basin has allowed the company to improve performance and gain a thorough understanding of the reservoir

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Bone Spring formation in this area, as evident by comparing the normalized first three months of cumulative production versus offset operators shown in the bubble chart in the bottom right-hand corner of the slide.

6. **Slide 20 of Apache Exhibit B** contains a bar graph showing the preferred well spacing around the Dustbowl subject area. It demonstrates that a vast majority of operators reflected on the production graph in Slide 19 have utilized 4 well per section spacing to develop the Bone Spring formation, not the 6 well per section spacing proposed by Avant. Accordingly, the P50 curve on Slide 19, which Avant's proposed six well per spacing fails to meet, is principally the product of four well per section spacing.

7. **Slide 21 of Apache Exhibit B** expands the study area to look at cumulative normalized well production by quarter for Apache and Avant. The expanded study area is identified in the bottom left of this slide. The chart in the middle demonstrates that Apache outperforms Avant no matter the time frame. The table at the bottom of this slides demonstrates Apache outperforms Avant even though Apache's completions are historically smaller than Avant's in both proppant intensity and fluid intensity.

8. **Slide 22 of Apache Exhibit B** shows that in this expanded study area, Apache outperforms Avant no matter what Bone Spring interval is examined. In the bottom right-hand corner, the graph shows the relationship for Apache operated horizontal unconventional wells within the Permian Basin comparing their initial 12 months of cumulative oil production versus expected ultimate recoveries (EUR). The R-Squared equating to 0.74 indicates that these two variables have a strong correlation, and consequently, Apache is utilizing 12 months of cumulative production normalized by lateral foot as a proxy for EUR as is common in the industry to eliminate the subjective

nature of applying individual type curves upon public data. This slide further shows the cumulative production at 9 months and 12 months for the 1st, 2nd, and 3rd Bone Spring per intervals for Apache and Avant. Apache utilized a 9 month data point because Avant did not have any 3rd Bone Spring production for 12 months at the time of the analysis. The cumulative values are scaled up linearly, with Apache credited with 4 wells per section and Avant credited with 6 wells per section for the cumulative oil recovery from each interval. Apache's four wells per section have a higher total recovery than Avant's six wells per section, event with Avant receiving credit for 50% more wells in each Bone Spring interval.

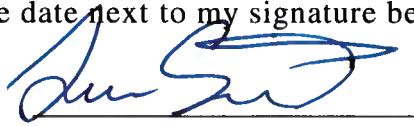
9. Apache has learned a significant amount from our extensive drilling and completion experience in this area, which we will be able to incorporate in future development. Our long history in the Delaware Basin and historical performance in the Bone Spring formation provide a competitive advantage and demonstrates why working interest owners in this area prefer Apache to develop the Bone Spring formation.

10. In my opinion, the granting of Apache's application and the denial of Avant's competing application will provide all working interest owners, including the 52% working interest controlled by Apache, with a development plan that:

- a. Is consistent with that utilized by most operators in this area;
- b. Has a proven track record of success; and
- c. Is in the best interest of conservation, the prevention of waste, and protection of correlative rights.

11. **Apache Exhibit D-1 and Slides 19 through 22 of Apache Exhibit B** were either prepared by me or compiled under my direction and supervision.

12. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.



Lucas Emmett

5/21/2024

Date

## Lucas Emmett

6107 Maxie Street  
Houston, TX 77007

Phone: (979) 203-1414  
E-Mail: lucasemmett@gmail.com

### Experience

**Senior Reservoir Engineer, Apache Corporation (Houston, TX) 9/2023 - Current**

- Provide technical production and operations expertise within the reservoir function.
- Perform DFIT analyses to provide key reservoir metrics for numerous landing zones.
- Plan strategy on completions order and analyze real-time fracture growth via offset pressure monitor wells.

**Project Manager, Apache Corporation (Houston, TX) 6/2023 – 9/2023**

- Led development of multidisciplinary projects from inception to rollout.
- Tracked project statuses to provide regular updates as necessary to senior management.

**Senior Optimization Engineer, Apache Corporation (Houston, TX) 10/2020 – 6/2023**

- Supported all production optimization efforts for the Austin Chalk and Legacy assets.
- Performed root cause failure analysis on high failure rate wells and gave recommendations to improve run life.
- Proactively provided and remotely implemented recommendations to reduce downhole rod lift equipment wear to prolong run lives by reducing polish rod velocity, cycles per day, gearbox loading, and fluid pound severity.
- Performed nodal analysis to optimize rod lift, ESP, and gas lift well performance.

**Production Engineer, Apache Corporation (Houston and Midland, TX) 7/2016 – 10/2020**

- Supported multiple foreman areas in the Permian Basin overseeing ~1,000 wells. Led failure meetings and reviewed chemical programs. Outlooked production and LOE for budgeting and performance tracking.
- Designed and supervised completions for numerous new drills and an extensive recompletion program. Designed artificial lift equipment primarily utilizing ESP and rod lift systems.
- Recommended both proactive and remedial workovers including cement squeezes, lift conversions, liner installs, and routine failures. Generated AFEs and work procedures while assuring prudent and compliant operations.
- Evaluated non-op proposals and made recommendations based upon economics and JOA limitations.

**Rotational Petroleum Engineer, Apache Corporation (Houston and Midland, TX) 7/2013 – 7/2016**

- Gained experience in multiple disciplines including production, field operations, completions, and reservoir primarily in the Permian Basin.
- Worked unconventional assets in the Midland Basin and conventional assets on the Central Basin Platform and the Northwestern Shelf.

**Reservoir Engineering Intern, Anadarko Petroleum (Denver, CO) 5/2012 – 8/2012**

**Production Engineering Intern, Anadarko Petroleum (Buffalo, TX) 5/2011 – 8/2011**

**Production Engineering Intern, Southwestern Energy (Damascus, AR) 5/2010 – 8/2010**

### Education

**The University of Texas at Austin May 2013**

Bachelor of Science in Petroleum Engineering, Overall GPA: 3.72/4.00

### Skills

Proficient with ARIES, Avocet, CygNet, ForeSite, Harmony, IHS, InSpatial, OFM, PROSPER, Rodstar, Spotfire, WellFlo, WellTest, and WellView. Experienced with the Railroad Commission of Texas and the New Mexico Oil Conservation Division.

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. D-1  
Submitted by: Apache Corporation  
Hearing Date: May 29, 2024  
Case No. 24141



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

**APPLICATION OF APACHE CORPORATION FOR  
APPROVAL OF A NON-STANDARD HORIZONTAL  
WELL SPACING UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**Case No. 24141**

**APPLICATION OF AVANT OPERATING, LLC  
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OF NON-STANDARD SPACING UNIT,  
LEA COUNTY, NEW MEXICO**

**Case No. 24254**

**SELF-AFFIRMED STATEMENT OF EVAN ROBACK, ENGINEER**

1. My name is Evan Roback and I have been employed by Apache Corporation (“Apache”) as a petroleum engineer since 2018. My responsibilities include the Permian Basin of New Mexico, and I am familiar with the applications filed in these consolidated cases.

2. My educational background and work experience is accurately summarized in **Apache Exhibit E-1**, attached hereto. I am a licensed professional engineer by the state of Texas since January 2023 and a member of the Society of Petroleum Engineers since 2014. I believe my credentials qualify me to testify as an expert witness in petroleum engineering matters.

3. I will discuss **Slides 23-29 of Apache Exhibit B**, which address the capital costs for Apache’s four wells per section and Avant’s proposed six wells per section development plans, address Apache’s ability to mitigate the impact of development in the Lesser Prairie Chicken restricted area, note the gas capacity constraints in the subject

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area and Avant's failure to address these constraints, and discuss the efficiencies gained by approval of the requested non-standard spacing unit.

### **Capital Costs**

4. **Slide 23 of Apache Exhibit B** examines the capital costs for Apache's four wells per section and Avant's proposed six wells per section spacing for the 1st and 2nd Bone Spring intervals. The costs reflected in the chart in the middle of this slide are taken from the AFE's submitted to the working interest owners by Apache and Avant. The one-year cumulative production numbers shown in the chart at the bottom of this slide are taken from the 12-month cumulative production shown in Slide 22 for the 1st and 2nd Bone Spring intervals. When you analyze the data, it demonstrates that:

- a. Avant's six well per zone per section development proposal requires on average 27.3% more capital for lower expected recovery (388 MBO vs. 324.2 MBO)
- b. The dollar cost per barrel of oil for Apache is 26.9 while the dollar cost per barrel of oil for Avant is 41.0.

These resulting findings demonstrate enhanced economic efficiency in Apache's four well per section development proposal.

### **Lesser Prairie Chicken Impact**

5. Sections 11 and 14 are within the BLM Lesser Prairie Chicken restricted area. Since August of 2023, Apache has engaged in discussions with the BLM about the drilling restrictions in this area and efforts to mitigate the impact of development on the Lesser Prairie Chicken.

6. **Slide 24 of Apache Exhibit B** compares the impact of Apache's initial four well per section drilling plan with Avant six well per section drilling plan for the 1st and

2nd Bone Spring intervals, assuming the same drill duration per well between operators. This assumption is reasonable given Apache's substantial drilling experience in the area. Apache's initial drilling plan will result in 52 fewer days to complete the drilling project compared to Avant's drilling plan. This additional drilling time will seriously impact the Lesser Prairie Chicken and likely result in BLM imposed drilling delays or drilling windows. It is also important to note that this analysis does not include Avant's suggestion that it will also drill the 3rd Bone Spring interval in conjunction with drilling the 1st and 2nd Bone Spring intervals.

7. **Slide 25 of Apache Exhibit B** similarly compares the impact of Apache's completion time for its four well per section development plan with Avant's six well per section development plan for the 1st and 2nd Bone Spring intervals. This analysis begins with the chart on the left that compares Apache's increasing lateral length per day completion efficiency by frac fleet since 2018 (gold bars), with Avant's performance since it began completion operations in 2021 (dark bars). You first note that Apache has increased the lateral length per day since 2018 while Avant shows no notable change since its first completions in 2021. The chart underneath this time graph summarizes the lateral length per day data between 2021-2023 and 2023 alone. It reflects that because of Apache's extensive completion experience in the Delaware Basin, Apache's lateral length per day averages much greater than that of Avant, regardless of timeframe. As a result, it takes Apache less time to complete a well efficiently and effectively.

8. The chart on the right of **Slide 25** shows frac operation efficiency (lateral length vs frac days) by pad. It is important to note that on all lateral length comparable pads, Apache completes frac operations in fewer days. As a result, Apache's four well

per section development plan will result in approximately 48 fewer days to complete the wells when compared to the time that will be required to complete Avant's six well per section development plan. Again, this analysis does not include Avant's suggestion that it will also complete the 3rd Bone Spring interval in conjunction with the 1st and 2nd Bone Spring intervals.

9. Apache's proposed development plan will provide less disturbance to the Lesser Prairie Chicken.

#### **Avant's History of Noncompliance**

10. Apache understands that one of the factors that the Division examines in competing pooling cases is the ability of a party to prudently operate the property and thereby prevent waste. As a result, Apache has examined Avant's compliance history and found the following from the Division's public records:

- a. **Slide 26 of Apache Exhibit B** lists thirty wells that have been completed and producing without Avant filing the necessary authorizations to transport.
- b. This list includes wells producing as far back as December of 2022, and involve Avant's Angry Angus wells, Cutbow wells, Golden Tee wells and Speyside wells.
- c. This chart was generated based on information on the Division's website as of May 7, 2024.

11. **Slide 27 of Apache Exhibit B** reflects Avant's chronic inability to avoid unauthorized gas flaring and Avant's low gas capture percentage.

- a. Division records reflect Avant is operating 88 active wells in New Mexico and since 2022 has reported 1,226 flaring incidents.
- b. This ranks Avant as the 5th worst flaring offender in New Mexico for companies producing greater than 10 BCF since 2022.
- c. The chart in the bottom right corner of this slide demonstrates that Avant has been unable or unwilling to improve on its flared volumes since the fourth quarter of 2021, when flaring volume was first required to be reported.
- d. Avant's reported gas capture rate is 75.80%. In comparison, Apache operates many more wells than Avant and has a gas capture rate of 99.40%.

#### **The Gas Capacity Constraints**

12. Despite Avant's existing gas flaring and gas capture problems, it has nonetheless proposed to concurrently develop the subject acreage with 6 wells per section in three benches of the Bone Spring formation for a total of 18 additional wells in an area that has highly constrained gas takeaway capability.

13. Apache has been in talks with midstream companies since 2023 and is aware of the gas takeaway constraints in this area. It is my opinion that gas takeaway capacity does not exist for the 18 wells proposed by Avant or to accommodate the large facility that Avant contemplates with its proposed AFEs. The most likely avenue for Avant to maintain production with these gas takeaway constraints is to flare, which they have utilized in their other major developments.

14. Because of the gas takeaway constraints, Apache has only proposed to initially develop the 1st and 2nd Bone Spring intervals, leaving the 3rd Bone Spring and



other intervals in the Wolfcamp formation for a later time when production naturally declines and there is takeaway ullage. This development strategy allows for lower peak gas rates which enables a higher percentage of gas takeaway and a smaller facility.

15. **Slide 28 of Apache Exhibit B** identifies Apache's planned surface facility for the initial development of the 1st and 2nd Bone Spring intervals, and for future development.

- a. Apache has designed the facility for multiple stages of development. As such, the facility size is smaller than is being proposed by Avant. This is more cost effective, economically advantageous, in-line with gas takeaway constraints, and environmentally friendly.
- b. Apache has identified five midstream operators to address the anticipated gas takeaway needs from this initial development plan.
- c. Apache has committed to an increased capital investment specifically for gas takeaway. At this time, Apache has a high level of confidence that reliable gas takeaway is secured for Apache's phased development plan and that no flaring is to be expected.
- d. Apache has also secured oil and water takeaway for this initial development.

16. **Slide 29 of Apache Exhibit B** identifies Apache's request for a 1280 non-standard spacing unit. The requested spacing unit will result in a capital reduction of \$2MM due to Apache's ability to utilize one central facility versus building four separate facilities if a non-standard spacing unit is not approved. Further, this plan will also result in a reduction of Apache's required surface footprint by 3.5 net acres.

17. Apache has a proven history of compliance with the Division's gas capture obligations and ability to phase development that matches the gas takeaway capacity in an area. Avant does not.

18. In my opinion, the granting of Apache's application and the denial of Avant's competing application:

- a. Will yield superior well performance at lower costs per barrel of oil;
- b. Will result in less disturbance of the Lesser Prairie Chicken habitat;
- c. Avoid the flaring of gas and better match the existing gas takeaway capacity in the subject area; and
- d. Is in the best interest of conservation, the prevention of waste, and protection of correlative rights.

19. Apache Exhibit E-1 and Slides 23 through 29 of Apache Exhibit B were either prepared by me or compiled under my direction and supervision.

20. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

  
\_\_\_\_\_  
Evan Roback

Date 5/21/2024

# Evan T. Roback, P.E.

Phone: (404) 788-0125

Email: [esrobac@gmail.com](mailto:esrobac@gmail.com)

## Technical Skills

- Conventional and unconventional reservoir engineering techniques for informing and optimizing field development and reservoir recovery
- Full field reservoir engineering integration with rate and pressure transient analysis, material balance, decline curve and volumetric analyses
- Dynamic reservoir simulation models with risk and uncertainty sensitivities
- Proficient with commonly used RE industry software (Aries, Harmony, tNav/Eclipse, Enersight, MBAL, Prosper, and more)
- Experience in other technical disciplines including field ops, drilling, completions, and production engineering
- Texas Licensed Professional Engineer #147325

## Work Experience

### **Reservoir Engineer – Apache Corporation; Houston, TX** **Jan 2024 – Present**

- Member of the Houston Delaware Basin team as the principal RE for New Mexico operations. Evaluated, optimized, and presented two development programs (7 wells) for 2024 planned operations
- Led integration effort in two Callon Petroleum AOIs during 1Q24, focusing on frac monitoring and well counts for optimization and value maximization

### **Reservoir Engineer – Apache Corporation; Houston, TX** **Jan 2020 – Dec 2023**

- Member of the Houston KPC team as the principal RE for Shushan Basin production. Update monthly forecasts for Shushan assets producing over 50 MBOD with 65+ MMBO recoverable reserves
- Worked closely with G&G counterparts to develop dynamic simulation models for multiple actively developing fields. Full tNav models showed 8 new locations in Berenice AEB-3D waterflood pattern (12 MMBO STOOIP) and 4 new locations in Ptah LBAH (8 MMBO STOOIP). “Lite” Rubis models for upcoming behind pipe development and Ptah-W high angle well evaluation
- Developed exploration evaluation methodology for characterizing risked exploration wells over the three-year plan duration. Methodology is underpinned by risk and uncertainty modeling, statistical analyses, and contingent well characterization
- Developed booking packages for 105 new drill wells (143 MMBOE) in the KPC JV to support proved reserves reporting. Booking packages include volumetric reserves analysis, full field reserves evaluation, subsurface mapping, and pressure depletion assessment

### **Engineer, Engineer Development Program – Apache Corporation; Midland, TX** **Jan 2018 - Dec 2020**

- **Reservoir Engineer** - Evaluated 7 non-op proposals for economic viability by generating expected production declines and projected cash flows
- **Production Engineer** - Completed a subsurface review of the Washington 33 State lease (NM Delaware Basin). Executed 8 projects because of this analysis, resulting in a total NPV of \$712k and 88.2 MBO of incremental reserves
- **Drilling Engineer** - Analyzed historical overpull data in Southern Midland Basin to predict future tight-hole conditions. Identified 8 wells to perform reamer runs based on analytics, saving ~\$120k per well
- **Operations Engineer** – Conducted plunger lift study within Southern Midland Basin

## Education

### **Texas A&M University, Dwight Look College of Engineering** **December 2017**

- B.S. in Petroleum Engineering, Minor in Business Administration

BEFORE THE OIL CONSERVATION DIVISION  
 Santa Fe, New Mexico  
 Exhibit No. E-1  
 Submitted by: Apache Corporation  
 Hearing Date: May 29, 2024  
 Case No. 24141

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF APACHE CORPORATION FOR  
APPROVAL OF A NON-STANDARD HORIZONTAL  
WELL SPACING UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 24141**

**SELF-AFFIRMED STATEMENT OF  
MICHAEL H. FELDEWERT**

1. I am attorney in fact and authorized representative of Apache Corporation (“Apache”), the Applicant herein. I have personal knowledge of this matter addressed herein and am competent to provide this self-affirmed statement.

2. The above-referenced application and notice of the hearing on this application was sent by certified mail to the affected parties on the date set forth in the letter attached hereto.

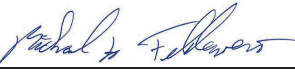
3. The spreadsheet attached hereto contains the names of the parties to whom notice was provided.

4. The spreadsheet attached hereto contains the information provided by the United States Postal Service on the status of the delivery of this notice as of May 21, 2024.

5. I caused a notice to be published to all parties subject to these proceedings. An affidavit of publication from the publication’s legal clerk with a copy of the notice publication is attached herein.

6. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statement are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.

**BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. F  
Submitted by: Apache Corporation  
Hearing Date: May 29, 2024  
Case No. 24141**

  
\_\_\_\_\_  
Michael H. Feldewert

05/21/24  
\_\_\_\_\_  
Date





**Michael H. Feldewert**  
**Partner**  
**Phone** (505) 988-4421  
mfeldewert@hollandhart.com

January 12, 2024

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: ALL AFFECTED PARTIES**

**Re: Application of Apache Corporation for Approval of Non-Standard 1280-acre Horizontal Well Spacing Unit and Compulsory Pooling, Lea County, New Mexico: *Dust Bowl 11-14 Fed Com wells***

Greetings:

This letter is to advise you that Apache Corporation filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on February 1, 2024, and the status of the hearing can be monitored through the Division’s website at <http://www.emnrd.nm.gov/oed/>.

It is anticipated that hearings will be held in a hybrid format with both in-person and virtual participation options. The meeting will be held in the Pecos Hall Hearing Room at the Wendall Chino Building, 1st Floor, 1220 South St. Francis Ave., Santa Fe, New Mexico. To participate virtually in the hearing, see the instructions posted on the OCD Hearings website: <https://www.emnrd.nm.gov/oed/hearing-info/>.

You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date. Parties appearing in cases are required to file a Pre-hearing Statement four business days in advance of a scheduled hearing that complies with the provisions of NMAC 19.15.4.13.B.

If you have any questions about this matter, please contact Leslie Mullin (281) 302-2602 or at [leslie.mullin@apachecorp.com](mailto:leslie.mullin@apachecorp.com)

Sincerely,

Michael H. Feldewert  
**ATTORNEY FOR APACHE CORPORATION**

**Location**  
110 North Guadalupe, Suite 1  
Santa Fe, NM 87501-1849

**Mailing Address**  
P.O. Box 2208  
Santa Fe, NM 87504-2208

**Contact**  
p: 505.988.4421 | f: 505.983.6043  
[www.hollandhart.com](http://www.hollandhart.com)

Holland & Hart LLP Anchorage Aspen Billings Boise Boulder Cheyenne Denver Jackson Hole Las Vegas Reno Salt Lake City Santa Fe Washington, D.C.

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9414811898765493412129	Alpha Energy Partners, LLC	PO Box 10701	Midland	TX	79702-7701	Your item was picked up at a postal facility at 12:44 pm on January 22, 2024 in MIDLAND, TX 79701.
9414811898765493412198	Apache Corporation	2000 Post Oak Blvd Ste 100	Houston	TX	77056-4497	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493412181	Avant Operating, LLC	1515 Wynkoop St Ste 700	Denver	CO	80202-2062	Your item was delivered to the front desk, reception area, or mail room at 2:23 pm on January 16, 2024 in DENVER, CO 80202.
9414811898765493412174	Bass Management Trust	201 Main St Ste 2600	Fort Worth	TX	76102-3134	Your item was delivered to the front desk, reception area, or mail room at 9:37 am on January 18, 2024 in FORT WORTH, TX 76102.
9414811898765493412310	Beverly Jean Renfro Barr, Trustee of the Family Trust u/w/o Richard K. Barr	8027 Chalk Knoll Dr	Austin	TX	78735-1706	Your item has been delivered to an agent for final delivery in AUSTIN, TX 78749 on January 16, 2024 at 8:59 pm.
9414811898765493412365	Black Shale Minerals, LLC	PO Box 2243	Longview	TX	75606-2243	Your item was picked up at the post office at 8:28 am on January 18, 2024 in LONGVIEW, TX 75601.
9414811898765493412303	BR2 Holdings, LLC	PO Box 980552	Houston	TX	77098-0552	Your item was picked up at a postal facility at 8:04 am on January 22, 2024 in HOUSTON, TX 77098.

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9414811898765493412389	Cayuga Royalties, LLC	PO Box 540711	Houston	TX	77254-0711	Your item could not be delivered on February 21, 2024 at 6:26 pm in HOUSTON, TX 77098. It was held for the required number of days and is being returned to the sender.
9414811898765493412334	Cibolo Oil & Gas, LLC	3600 Bee Caves Rd Ste 102	West Lake Hills	TX	78746-5374	Your item was delivered to an individual at the address at 12:03 pm on January 17, 2024 in AUSTIN, TX 78746.
9414811898765493412372	Cibolo Royalties I, LLC	3600 Bee Caves Rd Ste 102	West Lake Hills	TX	78746-5374	Your item was delivered to an individual at the address at 12:03 pm on January 17, 2024 in AUSTIN, TX 78746.
9414811898765493412013	Compass Oil & Gas, LP	400 W Illinois Ave Ste 1000	Midland	TX	79701-4633	Your item was delivered to an individual at the address at 2:29 pm on January 16, 2024 in MIDLAND, TX 79701.
9414811898765493412051	Crystal Van Lom, Trustee of the Brooks Moleen Trust	721 Mississippi Ave	El Paso	TX	79902-2417	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493412068	CXA OGH LP, Inc.	6000 Legacy Dr	Plano	TX	75024-3601	Your item was delivered to the front desk, reception area, or mail room at 12:06 pm on January 16, 2024 in PLANO, TX 75024.

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9414811898765493412006	CXA Oil & Gas Holdings, L.P.	1302 West Ave	Austin	TX	78701-1716	Your item was delivered to the front desk, reception area, or mail room at 11:56 am on January 16, 2024 in AUSTIN, TX 78701.
9414811898765493412099	CXA-19 Corporation	6000 Legacy Dr	Plano	TX	75024-3601	Your item was delivered to the front desk, reception area, or mail room at 12:06 pm on January 16, 2024 in PLANO, TX 75024.
9414811898765493412044	DENM HOLDCO LLC	3724 Hulen St	Fort Worth	TX	76107-6816	Your item was delivered to an individual at the address at 10:28 am on January 18, 2024 in FORT WORTH, TX 76107.
9414811898765493412082	Double Cabin Minerals, LLC	1515 Wynkoop St Ste 700	Denver	CO	80202-2062	Your item was delivered to the front desk, reception area, or mail room at 2:23 pm on January 16, 2024 in DENVER, CO 80202.
9414811898765493412075	Estate of Sol West, III	500 Main Ave SW Unit 1948	Cullman	AL	35055-4736	Your item was picked up at the post office at 1:46 pm on January 18, 2024 in CULLMAN, AL 35055.
9414811898765493412419	Franklin Mountain Royalty Investments	44 Cook St Ste 1000	Denver	CO	80206-5827	Your item was delivered to the front desk, reception area, or mail room at 6:36 pm on January 16, 2024 in DENVER, CO 80206.
9414811898765493412464	Gary W. Sweaney	12938 King Cir	Cypress	TX	77429-2936	Your item was delivered to an individual at the address at 1:46 pm on January 18, 2024 in CYPRESS, TX 77429.

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9414811898765493412426	Geronimo Holding Corporation	PO Box 804	Midland	TX	79702-0804	Your item was delivered to the front desk, reception area, or mail room at 10:18 am on January 18, 2024 in MIDLAND, TX 79701.
9414811898765493412402	Goodman Energy, L.L.C.	PO Box 2001	Edmond	OK	73083-2001	Your item was picked up at the post office at 11:01 am on January 16, 2024 in EDMOND, OK 73034.
9414811898765493412495	Guard Income Fund, LP	1515 Wynkoop St Ste 700	Denver	CO	80202-2062	Your item was delivered to the front desk, reception area, or mail room at 2:23 pm on January 16, 2024 in DENVER, CO 80202.
9414811898765493412488	H. E. Ware, Jr., Trustee of The Peggy P. Jennings Trust	1717 Main Street Ste 5310	Dallas	TX	75201	Your item has been delivered to the original sender at 10:10 am on February 15, 2024 in SANTA FE, NM 87501.
9414811898765493412471	James G Smith and Alyssa C Smith, Co-Trustees of the Smith Family Irrevocable Trust u/a/d February 20, 2018	26750 McLaughlin Blvd	Bonita Springs	FL	34134-3843	Your item was delivered to an individual at the address at 12:39 pm on January 19, 2024 in BONITA SPRINGS, FL 34134.
9414811898765493412556	Jamie E Jennings & George J Lee, Trustees, or their successors in trust, of the Jennings-Lee Trust, dated September 18, 2017, f/b/o Jam	PO Box 670326	Dallas	TX	75367-0326	Your item has been delivered and is available at a PO Box at 11:37 am on January 17, 2024 in DALLAS, TX 75230.
9414811898765493412563	Jamie E. Jennings, Ancillary Personal Representative of the Estate of Peggy P. Jennings, deceased	PO Box 670326	Dallas	TX	75367-0326	Your item has been delivered and is available at a PO Box at 11:37 am on January 17, 2024 in DALLAS, TX 75230.



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9414811898765493412525	Jamie E. Jennings, attorney-in-fact of the Peggy P. Jennings Trust	PO Box 670326	Dallas	TX	75367-0326	Your item has been delivered and is available at a PO Box at 11:37 am on January 17, 2024 in DALLAS, TX 75230.
9414811898765493412501	Jennings Production Company, LLC	PO Box 670326	Dallas	TX	75367-0326	Your item has been delivered and is available at a PO Box at 11:37 am on January 17, 2024 in DALLAS, TX 75230.
9414811898765493412594	JP Morgan Chase Bank N.A., Trustee for the Wilma Donohue Moleen Foundation	10 S Dearborn St Unit II1 -0111	Chicago	IL	60603-2300	Your item has been delivered and is available at a PO Box at 9:04 am on January 23, 2024 in CHICAGO, IL 60604.
9414811898765493412549	Kay Sweaney Sorvillo	3507 Stonehaven Dr	San Antonio	TX	78230-3216	Your item was picked up at the post office at 2:58 pm on January 17, 2024 in SAN ANTONIO, TX 78230.
9414811898765493412587	Legion Production Partners, LLC	1515 Wynkoop St Ste 700	Denver	CO	80202-2062	Your item was delivered to the front desk, reception area, or mail room at 2:24 pm on January 16, 2024 in DENVER, CO 80202.
9414811898765493412532	Linda Bray Hagood, Trustee of the Trust created for Linda Bray Hagood u/w/o Raymond E. Bray, dec.	1545 Chub St	Merritt Island	FL	32952-5713	Your item has been delivered to the original sender at 10:14 am on February 1, 2024 in SANTA FE, NM 87501.
9414811898765493412570	LNV Corporation	1970 Village Center Cir Ste 1	Las Vegas	NV	89134-6241	Your item was picked up at the post office at 10:14 am on February 1, 2024 in SANTA FE, NM 87501.

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9414811898765493410217	Lonsdale Resources, LLC	2626 Cole Ave Ste 300	Dallas	TX	75204-1094	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410255	McCombs Energy, Ltd.	755 E Mulberry Ave Ste 600	San Antonio	TX	78212-6013	Your item was delivered to an individual at the address at 11:03 am on January 16, 2024 in SAN ANTONIO, TX 78212.
9414811898765493410224	McKay Oil Corporaiton	PO Box 2014	Roswell	NM	88202-2014	Your item was picked up at the post office at 12:00 pm on January 17, 2024 in ROSWELL, NM 88201.
9414811898765493410200	Minoco 1980 III Oil and Gas Program	2029 Century Park E unit 2N	Los Angeles	CA	90067-2901	Your item has been delivered to the original sender at 12:56 pm on January 25, 2024 in SANTA FE, NM 87501.
9414811898765493410293	Monticello Minerals LLC	4128 Bryn Mawr Dr	Dallas	TX	75225-6736	Your item was delivered to an individual at the address at 3:31 pm on January 16, 2024 in DALLAS, TX 75225.
9414811898765493410248	Nadel and Gussman Permian, LLC	15 E 5th St Ste 3300	Tulsa	OK	74103-4340	Your item was delivered to the front desk, reception area, or mail room at 12:13 pm on January 16, 2024 in TULSA, OK 74103.
9414811898765493410231	Nancy J. Allen	2623 Overbrook Drive	Dallas	TX	75205	Your item was delivered to an individual at the address at 3:10 pm on January 18, 2024 in DALLAS, TX 75205.

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9414811898765493410811	Northern Oil and Gas, Inc.	4350 Baker Rd Ste 400	Minnetonka	MN	55343-8628	Your item has been delivered to an agent for final delivery in HOPKINS, MN 55343 on January 18, 2024 at 10:10 am.
9414811898765493410828	Osprey Oil and Gas, LLC	2400 Humble Ave	Midland	TX	79705-8511	Your item was picked up at the post office at 10:14 am on February 1, 2024 in SANTA FE, NM 87501.
9414811898765493410804	Pegasus Resources II, LLC	PO Box 470698	Fort Worth	TX	76147-0698	Your item has been delivered and is available at a PO Box at 9:42 am on January 22, 2024 in FORT WORTH, TX 76147.
9414811898765493410897	Pioneer Natural Resources USA, Inc.	5205 N O Connor Blvd Ste 200	Irving	TX	75039-3789	Your item was picked up at the post office at 12:04 pm on February 8, 2024 in SANTA FE, NM 87501.
9414811898765493410873	Pioneer Resources Producing L.P.	5205 N O Connor Blvd Ste 200	Irving	TX	75039-3789	Your item was picked up at the post office at 12:04 pm on February 8, 2024 in SANTA FE, NM 87501.
9414811898765493410767	Prevail Energy LLC	521 Dexter St	Denver	CO	80220-5035	Your item was delivered to an individual at the address at 3:23 pm on January 17, 2024 in DENVER, CO 80220.
9414811898765493410798	Prize Energy Resources, L.P.	1700 N Lincoln St Ste 3700	Denver	CO	80203-4553	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.

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9414811898765493410781	Pruet Family Management, LLC	217 W Capitol St Ste 201	Jackson	MS	39201-2004	Your item was picked up at a postal facility at 8:46 am on January 22, 2024 in JACKSON, MS 39206.
9414811898765493410774	Ray Westall and wife, Karen Westall	PO Box 4	Loco Hills	NM	88255-0004	Your item was picked up at a postal facility at 10:59 am on January 16, 2024 in LOCO HILLS, NM 88255.
9414811898765493410910	Red Bird Ventures, Inc.	15814 Champion Forest Dr PMB 250	Spring	TX	77379-7141	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410958	Richard H. Sweaney, III	1680 County Road 182	Purmela	TX	76566-3079	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410965	Richard H. Sweaney, III, Gary Wayne Sweaney, and Kay La Verne Sorvillo a/k/a Kay Sweaney Sorvillo, remaindermen, subject to a life esta	3507 Stonehaven Dr	San Antonio	TX	78230-3216	Your item was picked up at the post office at 2:58 pm on January 17, 2024 in SAN ANTONIO, TX 78230.
9414811898765493410927	Richard W. Schmidt	5410 Bee Caves Rd	West Lake Hills	TX	78746-5227	Your item has been delivered to an agent for final delivery in AUSTIN, TX 78746 on January 16, 2024 at 12:28 pm.
9414811898765493410903	Rock Products, Inc.	PO Box 278	Tome	NM	87060-0278	Your item was picked up at the post office at 3:33 pm on January 16, 2024 in TOME, NM 87060.

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9414811898765493410996	Roy E. Guinnup	2812 Wayside Ave Apt A	Fort Worth	TX	76110-2852	Your item was delivered to an individual at the address at 11:39 am on January 18, 2024 in FORT WORTH, TX 76110.
9414811898765493410941	Roy L. McKay and wife, Charlotte McKay	PO Box 2014	Roswell	NM	88202-2014	Your item was picked up at the post office at 12:00 pm on January 17, 2024 in ROSWELL, NM 88201.
9414811898765493410989	Samuel H. Jolliffe, IV	1943 8th St W	Billings	MT	59102-3417	Your item was picked up at a postal facility at 3:20 pm on January 19, 2024 in BILLINGS, MT 59102.
9414811898765493410934	Sharon Bray Webb, Trustee of the Trust created for Sharon Bray Webb u/w/o Raymond E Bray dec.	2731 Racquet Club Dr	Midland	TX	79705-7433	Your item has been delivered to an agent for final delivery in MIDLAND, TX 79705 on January 20, 2024 at 11:14 am.
9414811898765493410651	Skyline Minerals, LLC	2932 NW 122nd St Ste 6	Oklahoma City	OK	73120-1955	Your item was delivered to an individual at the address at 1:46 pm on January 16, 2024 in OKLAHOMA CITY, OK 73120.
9414811898765493410668	Southwest Royalties Inc.	PO Box 53570	Midland	TX	79710-3570	Your item has been delivered and is available at a PO Box at 11:04 am on January 16, 2024 in MIDLAND, TX 79705.
9414811898765493410620	STR Corporation	3200 First National Tower	Tulsa	OK	74103	Your item has been delivered to the original sender at 10:14 am on February 1, 2024 in SANTA FE, NM 87501.



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9414811898765493410699	Susan Jennings Croft, Katie Elizabeth Croft & Justin Jennings Croft as Co-Trustees, or their successors in trust, of the Croft Living Trust	11700 Preston Rd Ste 660 PMB 390	Dallas	TX	75230-2739	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410644	Susannah D. Adelson, Trustee of the James Adelson & Family 2015 Trusts	15 E 5th St Ste 3300	Tulsa	OK	74103-4340	Your item was delivered to the front desk, reception area, or mail room at 12:13 pm on January 16, 2024 in TULSA, OK 74103.
9414811898765493410637	Swenke Ventures, LLC	2825 Oak Lawn Ave Unit 190842	Dallas	TX	75219-4368	Your item departed our USPS facility in ALBUQUERQUE, NM 87101 on March 9, 2024 at 10:19 pm. The item is currently in transit to the destination.
9414811898765493410118	Sydhan, LP	PO Box 92349	Austin	TX	78709-2349	Your item has been delivered and is available at a PO Box at 10:44 am on January 18, 2024 in AUSTIN, TX 78709.
9414811898765493410156	Thomas Albert Bray, Trustee of the Trust created for Thomas Albert Bray u/w/o Raymond E. Bray, dec.	9104 Collingwood Dr	Austin	TX	78748-6012	Your item was delivered to the front desk, reception area, or mail room at 5:55 pm on January 16, 2024 in AUSTIN, TX 78748.
9414811898765493410163	Travis and Patricia Bowles	5911 S Indianapolis Pl	Tulsa	OK	74135-7804	Your item was delivered to an individual at the address at 4:59 pm on January 16, 2024 in TULSA, OK 74135.
9414811898765493410125	TWR IV LLC	3724 Hulen St	Fort Worth	TX	76107-6816	We now anticipate delivery of your package the next business day. We apologize for the delay.

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9414811898765493410101	Wadi Petroleum, Inc.	575 N Dairy Ashford Rd Ste 350	Houston	TX	77079-1356	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410149	Westlawn Fortuna, Inc.	3500 Maple Ave Ste 1080	Dallas	TX	75219-3905	Your item was delivered to an individual at the address at 12:24 pm on January 17, 2024 in DALLAS, TX 75219.
9414811898765493410187	ZPZ Delaware I LLC	2000 Post Oak Blvd Ste 100	Houston	TX	77056-4497	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410170	Zunis Energy, LLC	15 E 5th St	Tulsa	OK	74103-4345	Your item was delivered to the front desk, reception area, or mail room at 12:13 pm on January 16, 2024 in TULSA, OK 74103.
9414811898765493410361	Cimarex Energy Co.	600 N Marienfeld St Ste 600	Midland	TX	79701-4405	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410309	COG Operating LLC	600 W Illinois Ave	Midland	TX	79701-4882	Your item was picked up at a postal facility at 7:46 am on January 17, 2024 in MIDLAND, TX 79701.
9414811898765493410347	Coterra Energy	840 Gessner Rd Ste 1400	Houston	TX	77024-4152	Your item was delivered to an individual at the address at 10:52 am on January 19, 2024 in HOUSTON, TX 77024.

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9414811898765493410330	Delmar Holdings, LP	1302 West Ave	Austin	TX	78701-1716	Your item was delivered to the front desk, reception area, or mail room at 11:56 am on January 16, 2024 in AUSTIN, TX 78701.
9414811898765493410019	Endeavor Energy Resources LP	110 N Marienfeld St	Midland	TX	79701-4400	Your item was delivered to an individual at the address at 4:26 pm on January 16, 2024 in MIDLAND, TX 79701.
9414811898765493410064	EOG Resources Inc.	5509 Champions Dr	Midland	TX	79706-2843	Your item was picked up at a postal facility at 8:37 am on January 18, 2024 in MIDLAND, TX 79702.
9414811898765493410026	H and S Drilling Company	PO Box 701620	Tulsa	OK	74170-1620	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410002	Headington Royalty, Inc.	1501 N Hardin Blvd Ste 100	McKinney	TX	75071-2343	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765493410095	Lean Dog Limited Partnership No. 1	PO Box 25203	Dallas	TX	75225-1203	Your item was picked up at the post office at 1:05 pm on January 16, 2024 in DALLAS, TX 75225.
9414811898765493410088	Lynx Petroleum Consultants	PO Box 1708	Hobbs	NM	88241-1708	Your item was picked up at the post office at 2:16 pm on January 18, 2024 in HOBBS, NM 88240.

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9414811898765493410033	Marathon Oil Permian LLC	990 Town And Country Blvd	Houston	TX	77024-2217	Your item was delivered to an individual at the address at 12:25 pm on January 19, 2024 in HOUSTON, TX 77024.
9414811898765493410071	Marshall & Winston, Inc.	PO Box 50880	Midland	TX	79710-0880	Your item has been delivered and is available at a PO Box at 12:35 pm on January 19, 2024 in MIDLAND, TX 79705.
9414811898765493410415	McKay Petroleum Corp	PO Box 2014	Roswell	NM	88202-2014	Your item was picked up at the post office at 12:00 pm on January 17, 2024 in ROSWELL, NM 88201.
9414811898765493410460	Mewbourne Oil Co	500 W Texas Ave Ste 1020	Midland	TX	79701-4279	Your item was delivered to an individual at the address at 1:52 pm on January 16, 2024 in MIDLAND, TX 79701.
9414811898765493410422	Nadel and Gussman Permian, LLC	15 E 5th St Ste 3300	Tulsa	OK	74103-4340	Your item was delivered to the front desk, reception area, or mail room at 12:24 pm on January 18, 2024 in TULSA, OK 74103.
9414811898765493410408	Permian Resources Operating, LLC	300 N Marienfeld St Ste 1000	Midland	TX	79701-4688	Your item was delivered to an individual at the address at 1:49 pm on January 16, 2024 in MIDLAND, TX 79701.
9414811898765493410484	Roy L. McKay	PO Box 2014	Roswell	NM	88202-2014	Your item was picked up at the post office at 12:00 pm on January 17, 2024 in ROSWELL, NM 88201.

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9414811898765493410477	Westall Oil Gas Co LLC	PO Box 68	Loco Hills	NM	88255-0068	Your item was picked up at a postal facility at 10:59 am on January 16, 2024 in LOCO HILLS, NM 88255.
9414811898765493410514	White Rock Royalty Partners No. 1	427 S Boston Ave Ste 711	Tulsa	OK	74103-4112	Your item has been delivered to the original sender at 9:28 am on February 23, 2024 in SANTA FE, NM 87501.
9414811898765493410552	WPX Energy Permian LLC	333 W Sheridan Ave	Oklahoma City	OK	73102-5010	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.



# Affidavit of Publication

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

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Blake Ovard, Editor of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
January 17, 2024  
and ending with the issue dated  
January 17, 2024.

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearings before a hearing examiner on the following cases. The hearings will be conducted in a hybrid fashion, both in-person at the Energy, Minerals, Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1st Floor, Santa Fe, NM 87505 and via the WebEx virtual meeting platform (sign-in information below) on Thursday, February 1, 2024, beginning at 8:15 a.m. To participate in the hearings, see the instructions posted below. The docket may be viewed at <https://www.emnrd.nm.gov/ocd/hearing-info/> or obtained from Sheila Apodaca, at [Sheila.Apodaca@emnrd.nm.gov](mailto:Sheila.Apodaca@emnrd.nm.gov). Documents filed in these cases may be viewed at <https://ocdimage.emnrd.nm.gov/Imaging/Default.aspx>. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in a hearing, contact Sheila Apodaca at [Sheila.Apodaca@emnrd.nm.gov](mailto:Sheila.Apodaca@emnrd.nm.gov), or the New Mexico Relay Network at 1-800-659-1779, no later than January 22, 2024.

Persons may view and participate in the hearings through the following link: <https://nmemnrd.webex.com/nmemnrd/j.php?MTID=meb90f968526fc5f785d1ce1d6f8879>

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Access code: 2480 175 1754  
Panelist password: JQjGcxpM862 (57542976 from phones and video systems)

**STATE OF NEW MEXICO TO:**  
All named parties and persons  
having any right, title, interest  
or claim in the following case  
and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All affected interest owners, including: Alpha Energy Partners, LLC; Apache Corporation; Avant Operating, LLC; Bass Management Trust; Beverly Jean Renfro Barr, Trustee of the Family Trust u/w/o Richard K. Barr; Black Shale Minerals, LLC; BR2 Holdings, LLC; Cayuga Royalties, LLC; Cibolo Oil & Gas, LLC; Cibolo Royalties I, LLC; Compass Oil & Gas, LP; Crystal Van Lom, Trustee of the Brooks Moleen Trust; CXA OGH LP, Inc.; CXA Oil & Gas Holdings, L.P.; CXA-19 Corporation; DENM HOLDCO LLC; Double Cabin Minerals, LLC; Estate of Sol West, III, his or her heirs and devisees; Franklin Mountain Royalty Investments; Gary W. Sweaney, his heirs and devisees; Geronimo Holding Corporation; Goodman Energy, L.L.C.; Guard Income Fund, LP; H. E. Ware, Jr., Trustee of the Peggy P. Jennings Trust; James G. Smith and Alyssa C. Smith, Co-Trustees of the Smith Family Irrevocable Trust u/a/d February 20, 2018; Jamie E. Jennings and George J. Lee, Trustees, or their successors in trust, of the Jennings-Lee Trust, dated September 18, 2017, f/b/o Jamie E. Jennings, Separate Property; Jamie E. Jennings, Ancillary Personal Representative of the Estate of Peggy P. Jennings, deceased, her heirs and devisees; Jamie E. Jennings, attorney-in-fact of the Peggy P. Jennings Trust; Jennings Production Company, LLC; JP Morgan Chase Bank N.A., Trustee for the Wilma Donohue Moleen Foundation; Kay Sweaney Sorvillo, her heirs and devisees; Legion Production Partners, LLC; Linda Bray Hagood, Trustee of the Trust created for Linda Bray Hagood u/w/o Raymond E. Bray, dec.; LNV Corporation; Lonsdale Resources, LLC; McCombs Energy, Ltd.; McKay Oil Corporation; Minoco 1980 III Oil and Gas Program; Monticello Minerals LLC; Nadel and Gussman Permian, LLC; Nancy J. Allen, her heirs and devisees; Northern Oil and Gas, Inc.; Osprey Oil and Gas, Inc.; Pioneer Natural Resources USA, Inc.; Pioneer Resources

- Dustbowl 11-14 Fed Com 101H and Dustbowl 11-14 Fed Com 201H wells, with first take points in the SW4SW4 (Unit M) of Section 14 and last take points in the NW4NW4 (Unit D) of Section 11;
  - Dustbowl 11-14 Fed Com 102H and Dustbowl 11-14 Fed Com 202H wells, with first take points in the SE4SW4 (Unit N) of Section 14 and last take points in the NE4NW4 (Unit C) of Section 11;
  - Dustbowl 11-14 Fed Com 103H and Dustbowl 11-14 Fed Com 203H wells, with first take points in the SW4SE4 (Unit O) of Section 14 and last take points in the NW4NE4 (Unit B) of Section 11; and
  - Dustbowl 11-14 Fed Com 104H and Dustbowl 11-14 Fed Com 204H wells, with first take points in the SE4SE4 (Unit P) of Section 14 and last take points in the NE4NE4 (Unit A) of Section 11.
- Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 33 miles west of Hobbs, New Mexico.

#0286544



Editor

Sworn and subscribed to before me this  
17th day of January 2024.



Business Manager

My commission expires  
January 29, 2027

(Seal) STATE OF NEW MEXICO  
NOTARY PUBLIC  
GUSSIE RUTH BLACK  
COMMISSION # 1087526  
COMMISSION EXPIRES 01/29/2027

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HOLLAND & HART LLC  
PO BOX 2208  
SANTA FE, NM 87504-2208

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. G  
Submitted by: Apache Corporation  
Hearing Date: May 29, 2024  
Case No. 24141



LEGAL

LEGAL

LEGAL

LEGAL

LEGAL NOTICE  
January 17, 2024STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
SANTA FE, NEW MEXICO

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**Case No. 24141: Application of Apache Corporation for Approval of a Non-Standard Horizontal Well Spacing Unit and Compulsory Pooling, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order (a) approving a non-standard 1280-acre horizontal well spacing unit in the Bone Spring formation underlying Sections 11 and 14, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico and (b) pooling all uncommitted interests in this acreage. Applicant seeks to initially dedicate the above-referenced horizontal spacing unit to the following proposed wells to be drilled from shared surface locations in the S2S2 of Section 14:

- Dustbowl 11-14 Fed Com 101H and Dustbowl 11-14 Fed Com 201H wells, with first take points in the SW4SW4 (Unit M) of Section 14 and last take points in the NW4NW4 (Unit D) of Section 11;
- Dustbowl 11-14 Fed Com 102H and Dustbowl 11-14 Fed Com 202H wells, with first take points in the SE4SW4 (Unit N) of Section 14 and last take points in the NE4NW4 (Unit C) of Section 11;
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Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 33 miles west of Hobbs, New Mexico.  
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