

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

**APPLICATION OF PERMIAN RESOURCES  
OPERATING, LLC FOR APPROVAL OF  
NON-STANDARD WELL LOCATION,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 23532**

**HEARING EXHIBITS**

Exhibit A	Self-Affirmed Statement of Chris Astwood
A-1	Application & Proposed Notice of Hearing
A-2	C-102
A-3	Plat of Tracts and Tract Ownership
A-4	Application for Permit to Drill
Exhibit B	Self-Affirmed Statement of Ira Bradford
B-1	Location Map
B-2	Stratigraphic Cross-Section
Exhibit C	Self-Affirmed Statement of Dana S. Hardy
C-1	Sample Notice Letter to All Interested Parties
C-2	Chart of Notice to All Interested Parties
C-3	Copies of Certified Mail Receipts and Returns
C-4	Affidavit of Publication for May 14, 2023

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

**APPLICATION OF PERMIAN RESOURCES  
OPERATING, LLC FOR APPROVAL OF  
NON-STANDARD WELL LOCATION,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 23532**

**SELF-AFFIRMED STATEMENT  
OF CHRIS ASTWOOD**

1. I am a Senior Landman at Permian Resources Operating, LLC (“Permian Resources”). I am over 18 years of age, have personal knowledge of the matters addressed herein, and am competent to provide this Self-Affirmed Statement. I have previously testified before the New Mexico Oil Conservation Division (“Division”), and my credentials as an expert in petroleum land matters were accepted and made a matter of record.

2. I am familiar with the land matters involved in the above-referenced case. Copies of Permian Resources’ application and proposed hearing notice are attached as **Exhibit A-1**.

3. Permian Resources seeks an order approving a non-standard location (“NSL”) for the Eric Cartman 31 State Com #505H well (API No. 30-025-50160) (“Well”).

4. The Well will produce from the Ojo Chiso; Bone Spring Pool (Code 96553) and will be dedicated to a 160-acre, more or less, standard horizontal spacing unit (“Unit”) comprised of the W/2 E/2 of Section 31, Township 21 South, Range 35 East, Lea County, New Mexico.

5. Standard statewide setbacks for horizontal oil wells require that the completed lateral be located no closer than 330 feet from the outer boundary of the unit and that the first and last take points be located no closer than 100 feet from the outer boundary of the unit. 19.15.16.15(C) NMAC.

6. The completed interval of the Well will be less than 330 feet from the eastern boundary of the existing 160-acre horizontal spacing unit.

7. The surface hole location of the Well is approximately 135 feet FNL and 415 Feet FEL (Unit A) of Section 31, and the bottom hole is located approximately 100 feet SHL and 1,330 feet FEL (Unit O) of Section 31. The first take point will be approximately 100 feet FNL and 1,330 feet FEL (Unit B) of Section 31, and the last take point will be located approximately 100 feet FSL and 1,330 FEL (Unit O) of Section 31.

8. The C-102 for the Well is attached as **Exhibit A-2**.

9. Due to the current spacing of the producing wells in this section, Permian Resources has planned the Eric Cartman 6 State Com #501H, Eric Cartman 6 State Com #502H, Eric Cartman 31 State Com #504H, and Eric Cartman State Com #506H wells with at least 1,000 feet of spacing between each well located in the east half of the Section. This spacing pattern causes the Eric Cartman State Com #505H well to be drilled less than 330' feet from the eastern boundary of the spacing unit.

10. On March 24, 2023, Permian Resources filed an administrative application for approval of the NSL and a protest was submitted. After Permian Resources filed its hearing application, the protest was withdrawn.

11. A plat of tracts included in the Unit and the associated ownership interests is attached as **Exhibit A-3**. The map also identifies the interest owners in the tracts surrounding the Unit, who were provided notice of Permian Resources' application.

12. Permian Resources' comprehensive development plan in this Unit protects correlative rights and prevents the drilling of unnecessary wells. Permian Resources will have the

ability to best locate its wells within this development area, and Permian Resources' plan to drill at an NSL will allow it to effectively produce the underlying reserves.

13. Permian Resources' Application for Permit to Drill ("APD") is attached as **Exhibit A-4**. The APD was approved by the Division on May 19, 2023.

14. Permitting Permian Resources to place the Well at a NSL will allow Permian Resources to fully develop the Unit and will thereby prevent waste.

15. Permian Resources has already located well sites in this Unit.

16. Permian Resources has contracts in place for the takeaway of gas and water.

17. For the reasons set out above, it is my opinion that granting Permian Resources' application would best prevent waste and protect correlative rights. Permian Resources should be permitted to proceed with its development plan.

18. The attached exhibits were either prepared by me or under my supervision or were compiled from company business records.

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

  
Chris Astwood

6/29/2023  
Date

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

**APPLICATION OF PERMIAN RESOURCES  
OPERATING, LLC FOR APPROVAL OF  
NON-STANDARD WELL LOCATION,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 23532**

**APPLICATION**

In accordance with 19.15.15.13 NMAC, Permian Resources Operating, LLC (OGRID No. 372165) (“Applicant”) applies for an order approving a non-standard location (“NSL”) for the Eric Cartman 31 State Com #505H well (API No. 30-025-50160) (“Well”). In support of its application, Applicant states the following.

1. Applicant is a working interest owner in the Unit and has the right to drill wells thereon.
2. The Well will be drilled for purposes of production from the Ojo Chiso; Bone Spring Pool (Code 96553) and will be dedicated to a 160-acre, more or less, standard horizontal spacing unit (“Unit”) comprised of the W/2 E/2 of Section 31, Township 21 South, Range 35 East, Lea County, New Mexico.
3. Standard statewide setbacks for horizontal oil wells require that the completed lateral be located no closer than 330 feet from the outer boundary of the unit and that the first and last take points be located no closer than 100 feet from the outer boundary of the unit. 19.15.16.15(C) NMAC.
4. The surface hole of the Well is located approximately 135 feet FNL and 415 feet FEL (Unit A) of Section 31, and the bottom hole is located approximately 100 feet FSL and 1,330 feet FEL (Unit O) of Section 31. The first take point will be located approximately 100 feet FNL

**Permian Resources Operating, LLC  
Case No. 23532  
Exhibit A-1**

and 1,330 feet FEL (Unit B) of Section 31, and the last take point will be located approximately 100 feet FSL and 1,330 feet FEL (Unit O) of Section 31.

5. The completed interval of the Well will be less than 330' from the eastern boundary of the existing 160-acre horizontal spacing unit.

6. Due to the current spacing of the producing wells in this section, Applicant has planned the Eric Cartman 6 State Com #501H, Eric Cartman 6 State Com #502H, Eric Cartman 31 State Com #504H, and Eric Cartman 31 State Com #506H wells with at least 1,000 feet of spacing between each well located in the east half of the Section. This spacing pattern causes the Eric Cartman State Com #505H well to be drilled less than 330' from the eastern boundary of the spacing unit.

7. On March 24, 2023, Applicant filed an administrative application for approval of the NSL requested herein and a protest was submitted. As a result, Applicant now requests a hearing before the Division.

8. Approval of the NSL will allow Applicant to use its preferred well spacing plan for horizontal wells in this area and thereby maximize recovery, protect correlative rights, and prevent waste.

WHEREFORE, Applicant requests that this application be set for hearing before an Examiner of the Oil Conservation Division on June 1, 2023, and, after notice and hearing as required by law, the Division enter an order approving the non-standard location of the Eric Cartman 31 State Com #505H well.

Respectfully submitted,

HINKLE SHANOR LLP

/s/ Dana S. Hardy

Dana S. Hardy

Jaclyn M. McLean

Yarithza Peña

P.O. Box 2068

Santa Fe, NM 87504-2068

Phone: (505) 982-4554

dhardy@hinklelawfirm.com

jmclean@hinklelawfirm.com

ypena@hinklelawfirm.com

*Counsel for Permian Resources Operating,  
LLC*

**Application of Permian Resources Operating, LLC for Approval of Non-Standard Well Location, Lea County, New Mexico.** Applicant seeks an order approving a non-standard location (“NSL”) for the Eric Cartman 31 State Com #505H well (API No. 30-025-50160) (“Well”). The Well will be drilled for purposes of production from the Ojo Chiso; Bone Spring Pool (Code 96553) and will be dedicated to a 160-acre, more or less, standard horizontal spacing unit (“Unit”) comprised of the W/2 E/2 of Section 31, Township 21 South, Range 35 East, Lea County, New Mexico. The surface hole of the Well is located approximately 135 feet FNL and 415 feet FEL (Unit A) of Section 31, and the bottom hole is located approximately 100 feet FSL and 1,330 feet FEL (Unit O) of Section 31. The first take point will be located approximately 100 feet FNL and 1,330 feet FEL (Unit B) of Section 31, and the last take point will be approximately 100 feet FSL and 1,330 feet FEL (Unit O) of Section 31. The completed interval of the Well will be less than 330’ from the eastern boundary of the existing 160-acre horizontal spacing unit. The Well is located approximately 14 miles west of Eunice, New Mexico.

Page 2

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

<sup>1</sup> API Number 30-025-50160		<sup>2</sup> Pool Code 96553		<sup>3</sup> Pool Name Ojo Chiso; Bone Spring	
<sup>4</sup> Property Code 332793		<sup>5</sup> Property Name ERIC CARTMAN 31 STATE COM			<sup>6</sup> Well Number 505H
<sup>7</sup> OGRID No. 372165		<sup>8</sup> Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			<sup>9</sup> Elevation 3612.8'

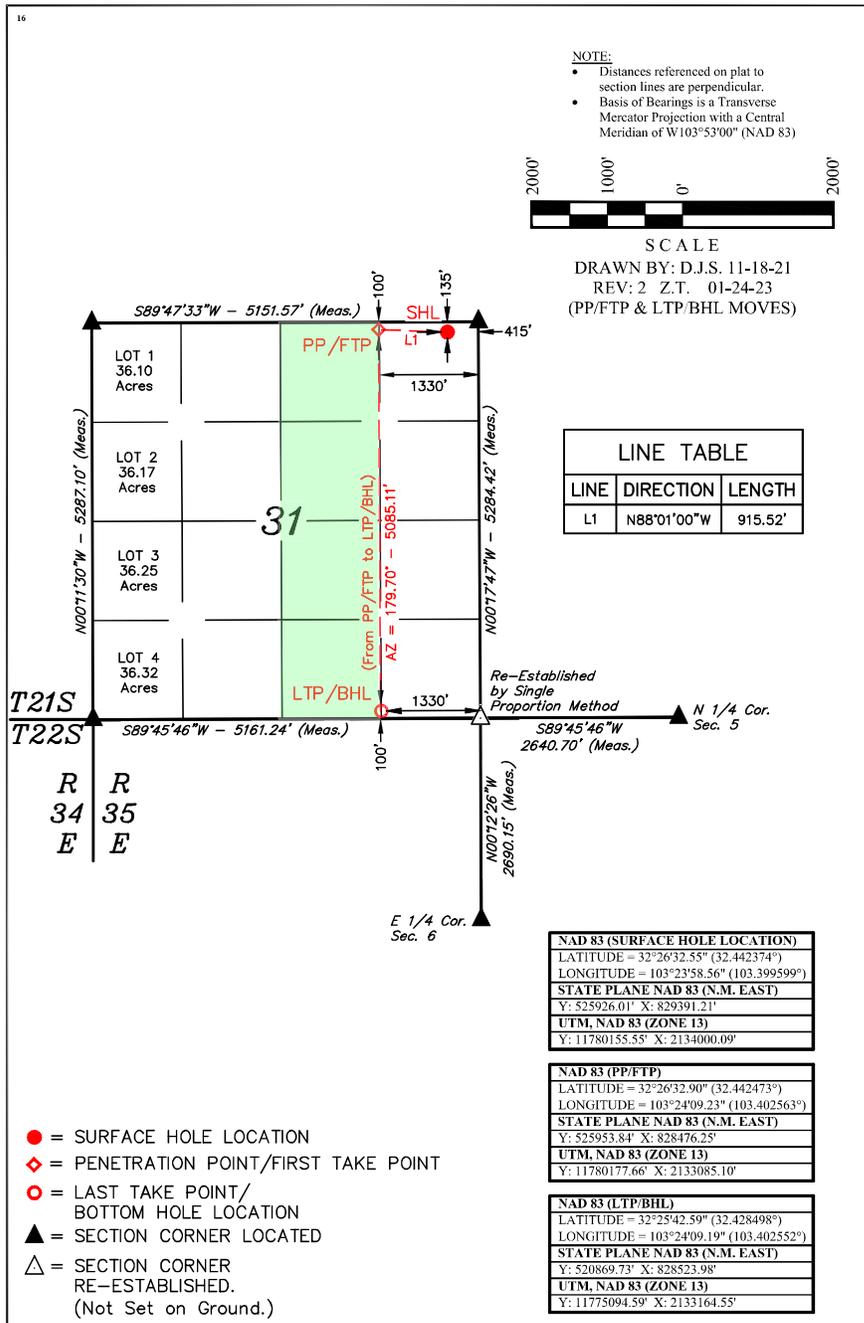
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	21S	35E		135	NORTH	415	EAST	LEA

<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
O	31	21S	35E		100	SOUTH	1330	EAST	LEA
<sup>12</sup> Dedicated Acres 160		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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



**<sup>17</sup> 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]* 1/25/23  
 Signature Date  
**Meghan Twele**  
 Printed Name  
 meghan.twele@permianres.com  
 E-mail Address

**<sup>18</sup> 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.

November 12, 2021  
 Date of Survey  
 Signature and Seal of Professional Surveyor:  
*[Signature]*  
 23782  
 01-24-23  
 PROFESSIONAL SURVEYOR

Certificate Number:

Received by OCD: 2/6/2023 10:54:47 AM

Released to Imaging: 2/8/2023 11:40:35 AM

Exhibit

Ownership Map

Section 31 - Township 21 South - Range 35 East, Lea County, New Mexico  
 Sections 6, 7, 18 - Township 22 South - Range 35 East, Lea County, New Mexico

	V0-6397	Op Rights: PR: 0.62500 Chev: 0.25000 Fuel: 0.05000 Gahr: 0.05000 MN: 0.02500	Record Title: PR: 1.0000
	31		
	V0-6419	Op Rights: PR: 1.0000	Record Title: PR: 1.0000
Op Rights: Surface - 4,500' Alpha: 0.06000 COG: 0.91500 Fall: 0.01500 Ruth: 0.01000	Record Title: COG: 1.0000	LG-3609	Op Rights: PR: 1.0000  Record Title: PR: 1.0000
4,500' - 12,800' Alpha: 0.16910 Ruth: 0.01000 Henry: 0.00500 COG: 0.63590 Barry: 0.01000	6	Tract 3	Op Rights: PR: 1.0000  Record Title: PR: 1.0000
Jan: 0.03000 Fall: 0.01500 Craig: 0.0200 Lynn: 0.03000 Patco: 0.05500 Rod: 0.02000	LG-893	Tract 2	Op Rights: PR: 1.0000  Record Title: PR: 1.0000
Below 12,800' Alpha: 0.06000 Ruth: 0.01000 Isra : 0.93000	Tract 1		
		VB-2440	
	7	Op Rights: PR: 0.62500 MRC: 0.37500	Record Title: PR: 0.62500 MRC: 0.37500
	L-6377	Op Rights: PR: 0.90000 Atlas: 0.10000	Record Title: PR: 0.90000 Atlas: 0.10000
	VC-0049	Op Rights: PR: 1.0000	Record Title: PR: 1.0000
	18		
	VC-0076	Op Rights: PR: 1.0000	Record Title: PR: 1.0000

Permian Resources Operating, LLC  
 Case No. 23532  
 Exhibit A-3

Owner Addresses	
Chev	Chevron Midcontinent, LP 6301 Deauville Blvd. Midland, TX 79706
Fuel	Fuel Products, Inc. P.O. Box 3098 Midland, TX 79702
Gahr	Gahr Energy Company P.O. Box 1889 Midland, TX 79702
MN	Mark K. Nearburg 710 Dragon Lakeway, TX 78734
PR	Permian Resources Operating, LLC 300 N. Marienfeld Street, Ste. 1000 Midland, TX 79701
Alpha	Alpha Energy Partners, LLC P.O. Box 10701 Midland, TX 79702
COG	COG Operating, LLC 600 W. Illinois Ave. Midland, TX 79701
Fall	Fall Creek of San Angelo 3619 South Jackson San Angelo, TX 76904
Ruth	Ruth E. Tull P. O. Box 11005 Midland, TX 79702
Barry	Barry Hopkins P. O. Box 11005 Midland, TX 79702
Craig	Craig Bishop P. O. Box 11005 Midland, TX 79702
Henry	Henry Hwang P. O. Box 11005 Midland, TX 79702
Jan	Jan Parsley Sheffield Trust P. O. Box 11005 Midland, TX 79702
Lynn	Lynn Parsley Maxwell Trust P. O. Box 11005 Midland, TX 79702
Patco	Patco, Ltd P. O. Box 11005 Midland, TX 79702
Rod	Rodney L. Seale 4908 Pinecroft Dr. Farmington, NM 87402
Atlas	Atlas OBO Energy, LP 15603 Kuykendahl Road, Suite 200 Houston, TX 77090
MRC	MRC Permian Company 5400 LBJ Fwy., Suite 1500 Dallas, Texas 75240
Isra	Isramco Energy, LLC 11767 Katy Freeway, Suite 711 Houston, TX 77079

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011  
Permit 312047

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202		2. OGRID Number 372165
4. Property Code 332793		3. API Number 30-025-50160
5. Property Name ERIC CARTMAN 31 STATE COM		6. Well No. 505H

**7. Surface Location**

UL - Lot A	Section 31	Township 21S	Range 35E	Lot Idn A	Feet From 135	N/S Line N	Feet From 415	E/W Line E	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot P	Section 31	Township 21S	Range 35E	Lot Idn P	Feet From 100	N/S Line S	Feet From 1320	E/W Line E	County Lea
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**9. Pool Information**

OJO CHISO;BONE SPRING	96553
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3612
16. Multiple N	17. Proposed Depth 14865	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 2/24/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1835	1560	0
Int1	12.25	9.625	40	5525	1351	0
Prod	8.5	5.5	20	14865	1255	9507
Prod	8.75	5.5	20	10251	806	0

**Casing/Cement Program: Additional Comments**

Drilling 8.75-hole size for the curve and 8.5-hole size for the lateral for the 5.5 production casing string.
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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Pipe	10000	5000	CAMERON

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.  Signature:	<b>OIL CONSERVATION DIVISION</b>		
	Printed Name: Electronically filed by Sarah Ferreyros	Approved By: Paul F. Kautz	
	Title: Regulatory Lead	Title: Geologist	
	Email Address: Sarah.Ferreyros@cdevinc.com	Approved Date: 5/19/2022	Expiration Date: 5/19/2024
	Date: 4/26/2022	Phone: 720-499-1454	Conditions of Approval Attached

**Permian Resources Operating, LLC**  
**Case No. 23532**  
**Exhibit A-4**

Page 2 of 3

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  
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1000 Rio Brazos Road, Aztec, NM 87410  
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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

<sup>1</sup> API Number		<sup>2</sup> Pool Code 96553		<sup>3</sup> Pool Name Ojo Chiso; Bone Spring	
<sup>4</sup> Property Code		<sup>5</sup> Property Name ERIC CARTMAN 31 STATE COM			<sup>6</sup> Well Number 505H
<sup>7</sup> OGRID No. 372165		<sup>8</sup> Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			<sup>9</sup> Elevation 3612.8'

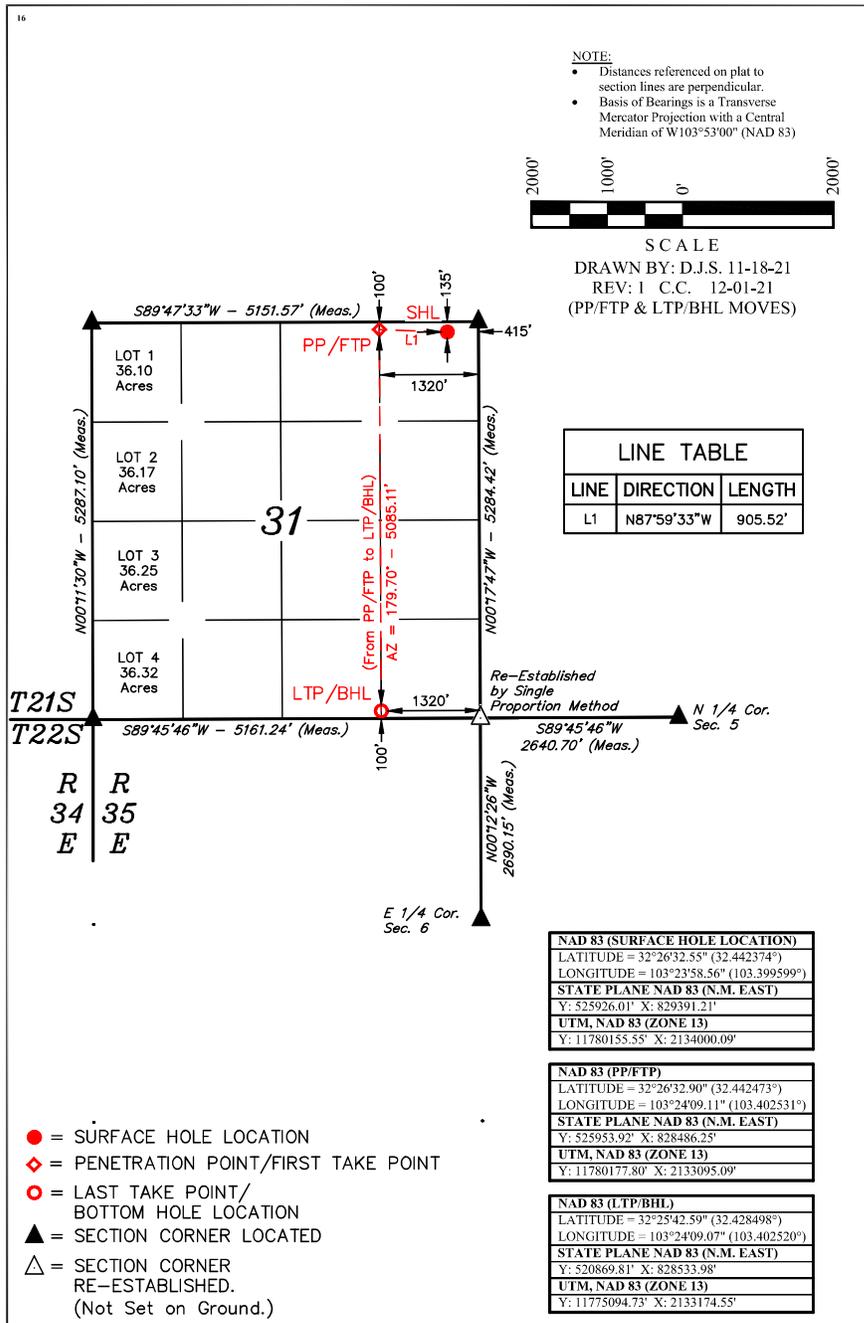
<sup>10</sup> Surface Location

UL or lot no. A	Section 31	Township 21S	Range 35E	Lot Idn	Feet from the 135	North/South line NORTH	Feet from the 415	East/West line EAST	County LEA
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. P	Section 31	Township 21S	Range 35E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 1320	East/West line EAST	County LEA
<sup>12</sup> Dedicated Acres 320		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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



**<sup>17</sup> 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.

**Meghan Twele**  
Signature  
Date: 2022.04.03 20:38:18 -0600

**Meghan Twele**  
Printed Name  
Date: 2022.04.03 20:38:18 -0600

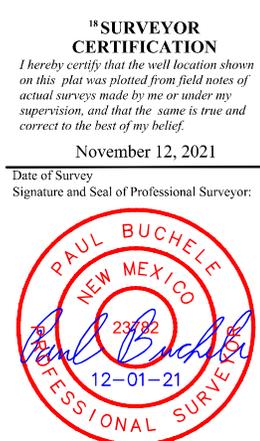
**meghan.twele@cdevinc.com**  
E-mail Address

**<sup>18</sup> 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.

November 12, 2021

Date of Survey  
Signature and Seal of Professional Surveyor:



Certificate Number:

Received by OCD: 5/19/2022 3:30:00 PM

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

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Comments

Permit 312047

**PERMIT COMMENTS**

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-50160
	Well: ERIC CARTMAN 31 STATE COM #505H

Created By	Comment	Comment Date
mtwele	Spudder rig will preset surface casing	4/4/2022

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions

Permit 312047

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-50160
	Well: ERIC CARTMAN 31 STATE COM #505H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** Centennial Resource Prod, LLC OGRID: 372165 Date: 02 / 01 / 22

**II. Type:**  Original  Amendment due to  19.15.27.9.D(6)(a) NMAC  19.15.27.9.D(6)(b) NMAC  Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Eric Cartman 31 State Com 504H		A-31-21S-35E	135FNL&445FEL	3,800	4,560	17,100
Eric Cartman 31 State Com 505H		A-31-21S-35E	135FNL&415FEL	3,800	4,560	17,100
Eric Cartman 31 State Com 506H		A-31-21S-35E	135FNL&385FEL	3,800	4,560	17,100

**IV. Central Delivery Point Name:** Tour Bus South [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Eric Cartman 31 State Com 504H		02/29/2023	02/22/2023	06/10/2023	06/29/2023	06/10/2023
Eric Cartman 31 State Com 505H		02/24/2023	03/09/2023	06/10/2023	06/10/2023	06/10/2023
Eric Cartman 31 State Com 506H		03/11/2023	03/24/2023	06/10/2023	06/10/2023	06/10/2023

**VI. Separation Equipment:**  Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:**  Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:**  Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**Section 2 – Enhanced Plan**  
**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  will  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator  does  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

*If Operator checks this box, Operator will select one of the following:*

**Well Shut-In.**  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Page 8

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: <b>Stewart MacCallum</b>
Title: <b>Director of Marketing</b>
E-mail Address: <b>Stewart.MacCallum@cdevinc.com</b>
Date:
Phone: <b>(720) 499-1458</b>
<b>OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:

Centennial Resource Production, LLC (372165)

## Natural Gas Management Plan Descriptions

### VI. Separation Equipment:

Centennial utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

### VII. Operational Practices:

#### *Drilling*

During Centennial's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

#### *Flowback*

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Centennial routes gas through a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

#### *Production*

Per 19.15.27.8.D, Centennial's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

#### *Performance Standards*

Centennial utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Centennial's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Centennial's flare stacks, both currently installed and for future installation, are:

- 1) Appropriately sized and designed to ensure proper combustion efficiency.
- 2) Equipped with an automatic ignitor or continuous pilot.
- 3) Anchored and located at least 100 feet from the well and storage tanks.

Centennial's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

Centennial Resource Production, LLC (372165)

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

*Measurement or estimation*

Centennial measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

**VIII. Best Management Practices:**

Centennial utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary





# **Centennial Resources Development, Inc.**

**Lea County, NM (NAD83 - UTM Zone 13)  
Eric Cartman 31 State Com  
505H**

**OH**

**Plan: Plan 1 01-14-22**

## **Standard Planning Report**

**26 January, 2022**





Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well 505H
<b>Company:</b>	Centennial Resources Development, Inc.	<b>TVD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Project:</b>	Lea County, NM (NAD83 - UTM Zone 13)	<b>MD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Site:</b>	Eric Cartman 31 State Com	<b>North Reference:</b>	True
<b>Well:</b>	505H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 01-14-22		

<b>Project</b>	Lea County, NM (NAD83 - UTM Zone 13)		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		Using geodetic scale factor

<b>Site</b>	Eric Cartman 31 State Com				
<b>Site Position:</b>	<b>Northing:</b>	11,769,930.04 usft	<b>Latitude:</b>	32° 24' 51.993607 N	
<b>From:</b>	Map	<b>Easting:</b>	2,129,750.21 usft	<b>Longitude:</b>	103° 24' 49.918274 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	505H					
<b>Well Position</b>	<b>+N/-S</b>	10,162.58 usft	<b>Northing:</b>	11,780,155.55 usft	<b>Latitude:</b>	32° 26' 32.547419 N
	<b>+E/-W</b>	4,401.74 usft	<b>Easting:</b>	2,134,000.09 usft	<b>Longitude:</b>	103° 23' 58.555430 W
<b>Position Uncertainty</b>	1.00 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	3,612.80 usft	

<b>Wellbore</b>	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	3/14/2022	6.40	60.16	47,793.71669045

<b>Design</b>	Plan 1 01-14-22		
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<b>Audit Notes:</b>	
<b>Version:</b>	<b>Phase:</b> PLAN <b>Tie On Depth:</b> 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	190.12

<b>Plan Survey Tool Program</b>	<b>Date</b> 1/26/2022
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Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,864.97	Plan 1 01-14-22 (OH)	MWD+IFR1+MS OWSG MWD + IFR1 + Mult

<b>Plan Sections</b>	
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,999.82	10.00	272.27	2,994.75	3.44	-86.95	1.00	1.00	0.00	272.27	
7,212.29	10.00	272.27	7,143.25	32.37	-817.73	0.00	0.00	0.00	0.00	
8,212.11	0.00	0.00	8,138.00	35.82	-904.67	1.00	-1.00	0.00	180.00	
9,507.68	0.00	0.00	9,433.57	35.82	-904.67	0.00	0.00	0.00	0.00	
10,251.01	89.20	179.96	9,910.99	-434.98	-904.37	12.00	12.00	0.00	179.96	
14,864.97	89.20	179.96	9,975.41	-5,048.49	-901.41	0.00	0.00	0.00	0.00	BHL - Eric Cartman



Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well 505H
<b>Company:</b>	Centennial Resources Development, Inc.	<b>TVD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Project:</b>	Lea County, NM (NAD83 - UTM Zone 13)	<b>MD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Site:</b>	Eric Cartman 31 State Com	<b>North Reference:</b>	True
<b>Well:</b>	505H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 01-14-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,786.80	0.00	0.00	1,786.80	0.00	0.00	0.00	0.00	0.00	0.00
<b>Rustler</b>									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP, Begin 1.00°/100' Build</b>									
2,100.00	1.00	272.27	2,099.99	0.03	-0.87	0.12	1.00	1.00	0.00
2,198.85	1.99	272.27	2,198.81	0.14	-3.45	0.47	1.00	1.00	0.00
<b>Salado</b>									
2,200.00	2.00	272.27	2,199.96	0.14	-3.49	0.48	1.00	1.00	0.00
2,300.00	3.00	272.27	2,299.86	0.31	-7.85	1.07	1.00	1.00	0.00
2,400.00	4.00	272.27	2,399.68	0.55	-13.95	1.91	1.00	1.00	0.00
2,500.00	5.00	272.27	2,499.37	0.86	-21.79	2.98	1.00	1.00	0.00
2,600.00	6.00	272.27	2,598.90	1.24	-31.36	4.29	1.00	1.00	0.00
2,700.00	7.00	272.27	2,698.26	1.69	-42.67	5.84	1.00	1.00	0.00
2,800.00	8.00	272.27	2,797.40	2.21	-55.72	7.62	1.00	1.00	0.00
2,900.00	9.00	272.27	2,896.30	2.79	-70.49	9.64	1.00	1.00	0.00
2,999.82	10.00	272.27	2,994.75	3.44	-86.95	11.89	1.00	1.00	0.00
<b>Hold 10.00° Inc at 272.27° Azm</b>									
3,000.00	10.00	272.27	2,994.93	3.44	-86.98	11.90	0.00	0.00	0.00
3,100.00	10.00	272.27	3,093.41	4.13	-104.33	14.27	0.00	0.00	0.00
3,200.00	10.00	272.27	3,191.89	4.82	-121.67	16.64	0.00	0.00	0.00
3,300.00	10.00	272.27	3,290.37	5.50	-139.02	19.02	0.00	0.00	0.00
3,400.00	10.00	272.27	3,388.86	6.19	-156.37	21.39	0.00	0.00	0.00
3,408.37	10.00	272.27	3,397.10	6.25	-157.82	21.59	0.00	0.00	0.00
<b>Castile</b>									
3,500.00	10.00	272.27	3,487.34	6.88	-173.72	23.76	0.00	0.00	0.00
3,600.00	10.00	272.27	3,585.82	7.56	-191.07	26.14	0.00	0.00	0.00
3,700.00	10.00	272.27	3,684.30	8.25	-208.41	28.51	0.00	0.00	0.00
3,800.00	10.00	272.27	3,782.78	8.94	-225.76	30.88	0.00	0.00	0.00
3,841.09	10.00	272.27	3,823.24	9.22	-232.89	31.86	0.00	0.00	0.00
<b>Base of Salt</b>									
3,900.00	10.00	272.27	3,881.26	9.62	-243.11	33.26	0.00	0.00	0.00
4,000.00	10.00	272.27	3,979.74	10.31	-260.46	35.63	0.00	0.00	0.00
4,100.00	10.00	272.27	4,078.23	11.00	-277.81	38.00	0.00	0.00	0.00
4,200.00	10.00	272.27	4,176.71	11.69	-295.15	40.38	0.00	0.00	0.00
4,276.85	10.00	272.27	4,252.39	12.21	-308.49	42.20	0.00	0.00	0.00
<b>Capitan</b>									
4,300.00	10.00	272.27	4,275.19	12.37	-312.50	42.75	0.00	0.00	0.00
4,400.00	10.00	272.27	4,373.67	13.06	-329.85	45.12	0.00	0.00	0.00
4,500.00	10.00	272.27	4,472.15	13.75	-347.20	47.50	0.00	0.00	0.00
4,600.00	10.00	272.27	4,570.63	14.43	-364.55	49.87	0.00	0.00	0.00
4,700.00	10.00	272.27	4,669.11	15.12	-381.89	52.24	0.00	0.00	0.00
4,800.00	10.00	272.27	4,767.59	15.81	-399.24	54.62	0.00	0.00	0.00
4,900.00	10.00	272.27	4,866.08	16.49	-416.59	56.99	0.00	0.00	0.00
5,000.00	10.00	272.27	4,964.56	17.18	-433.94	59.36	0.00	0.00	0.00
5,100.00	10.00	272.27	5,063.04	17.87	-451.29	61.73	0.00	0.00	0.00
5,200.00	10.00	272.27	5,161.52	18.55	-468.64	64.11	0.00	0.00	0.00
5,300.00	10.00	272.27	5,260.00	19.24	-485.98	66.48	0.00	0.00	0.00
5,400.00	10.00	272.27	5,358.48	19.93	-503.33	68.85	0.00	0.00	0.00
5,500.00	10.00	272.27	5,456.96	20.61	-520.68	71.23	0.00	0.00	0.00
5,559.76	10.00	272.27	5,515.81	21.02	-531.05	72.65	0.00	0.00	0.00
<b>Cherry Canyon</b>									
5,600.00	10.00	272.27	5,555.45	21.30	-538.03	73.60	0.00	0.00	0.00



Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well 505H
<b>Company:</b>	Centennial Resources Development, Inc.	<b>TVD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Project:</b>	Lea County, NM (NAD83 - UTM Zone 13)	<b>MD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Site:</b>	Eric Cartman 31 State Com	<b>North Reference:</b>	True
<b>Well:</b>	505H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 01-14-22		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,700.00	10.00	272.27	5,653.93	21.99	-555.38	75.97	0.00	0.00	0.00	
5,800.00	10.00	272.27	5,752.41	22.67	-572.72	78.35	0.00	0.00	0.00	
5,900.00	10.00	272.27	5,850.89	23.36	-590.07	80.72	0.00	0.00	0.00	
5,908.16	10.00	272.27	5,858.93	23.42	-591.49	80.91	0.00	0.00	0.00	
<b>Manzanita Lime</b>										
6,000.00	10.00	272.27	5,949.37	24.05	-607.42	83.09	0.00	0.00	0.00	
6,100.00	10.00	272.27	6,047.85	24.73	-624.77	85.47	0.00	0.00	0.00	
6,200.00	10.00	272.27	6,146.33	25.42	-642.12	87.84	0.00	0.00	0.00	
6,300.00	10.00	272.27	6,244.81	26.11	-659.46	90.21	0.00	0.00	0.00	
6,400.00	10.00	272.27	6,343.30	26.79	-676.81	92.59	0.00	0.00	0.00	
6,500.00	10.00	272.27	6,441.78	27.48	-694.16	94.96	0.00	0.00	0.00	
6,600.00	10.00	272.27	6,540.26	28.17	-711.51	97.33	0.00	0.00	0.00	
6,700.00	10.00	272.27	6,638.74	28.86	-728.86	99.71	0.00	0.00	0.00	
6,800.00	10.00	272.27	6,737.22	29.54	-746.20	102.08	0.00	0.00	0.00	
6,900.00	10.00	272.27	6,835.70	30.23	-763.55	104.45	0.00	0.00	0.00	
7,000.00	10.00	272.27	6,934.18	30.92	-780.90	106.82	0.00	0.00	0.00	
7,055.98	10.00	272.27	6,989.31	31.30	-790.61	108.15	0.00	0.00	0.00	
<b>Brushy Canyon</b>										
7,100.00	10.00	272.27	7,032.67	31.60	-798.25	109.20	0.00	0.00	0.00	
7,200.00	10.00	272.27	7,131.15	32.29	-815.60	111.57	0.00	0.00	0.00	
7,212.29	10.00	272.27	7,143.25	32.37	-817.73	111.86	0.00	0.00	0.00	
<b>Begin 1.00°/100' Drop</b>										
7,300.00	9.12	272.27	7,229.74	32.95	-832.28	113.85	1.00	-1.00	0.00	
7,400.00	8.12	272.27	7,328.61	33.54	-847.26	115.90	1.00	-1.00	0.00	
7,500.00	7.12	272.27	7,427.73	34.07	-860.51	117.72	1.00	-1.00	0.00	
7,600.00	6.12	272.27	7,527.06	34.52	-872.03	119.29	1.00	-1.00	0.00	
7,700.00	5.12	272.27	7,626.58	34.91	-881.82	120.63	1.00	-1.00	0.00	
7,800.00	4.12	272.27	7,726.25	35.23	-889.87	121.73	1.00	-1.00	0.00	
7,900.00	3.12	272.27	7,826.05	35.48	-896.18	122.59	1.00	-1.00	0.00	
8,000.00	2.12	272.27	7,925.94	35.66	-900.75	123.22	1.00	-1.00	0.00	
8,100.00	1.12	272.27	8,025.90	35.77	-903.58	123.61	1.00	-1.00	0.00	
8,200.00	0.12	272.27	8,125.89	35.82	-904.66	123.75	1.00	-1.00	0.00	
8,212.11	0.00	0.00	8,138.00	35.82	-904.67	123.76	1.00	-1.00	0.00	
<b>Begin Vertical Hold</b>										
8,326.63	0.00	0.00	8,252.53	35.82	-904.67	123.76	0.00	0.00	0.00	
<b>Bone Spring Lime</b>										
8,510.63	0.00	0.00	8,436.53	35.82	-904.67	123.76	0.00	0.00	0.00	
<b>Avalon</b>										
9,451.63	0.00	0.00	9,377.53	35.82	-904.67	123.76	0.00	0.00	0.00	
<b>First Bone Spring Sand</b>										
9,507.68	0.00	0.00	9,433.57	35.82	-904.67	123.76	0.00	0.00	0.00	
<b>KOP2, Begin 12.00°/100' Build</b>										
9,588.11	9.65	179.96	9,513.62	29.06	-904.67	130.41	12.00	12.00	0.00	
<b>Second Bone Spring Shale</b>										
9,600.00	11.08	179.96	9,525.32	26.92	-904.67	132.51	12.00	12.00	0.00	
9,700.00	23.08	179.96	9,620.73	-2.40	-904.65	161.37	12.00	12.00	0.00	
9,800.00	35.08	179.96	9,707.97	-50.91	-904.62	209.12	12.00	12.00	0.00	
9,900.00	47.08	179.96	9,783.21	-116.50	-904.58	273.68	12.00	12.00	0.00	
10,000.00	59.08	179.96	9,843.18	-196.30	-904.53	352.23	12.00	12.00	0.00	
10,099.12	70.97	179.96	9,884.95	-285.99	-904.47	440.52	12.00	12.00	0.00	
<b>Second Bone Spring Sand</b>										
10,100.00	71.08	179.96	9,885.24	-286.82	-904.47	441.34	12.00	12.00	0.00	
10,200.00	83.08	179.96	9,907.56	-384.11	-904.40	537.10	12.00	12.00	0.00	



Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well 505H
<b>Company:</b>	Centennial Resources Development, Inc.	<b>TVD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Project:</b>	Lea County, NM (NAD83 - UTM Zone 13)	<b>MD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Site:</b>	Eric Cartman 31 State Com	<b>North Reference:</b>	True
<b>Well:</b>	505H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 01-14-22		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,251.01	89.20	179.96	9,910.99	-434.98	-904.37	587.17	12.00	12.00	0.00	
<b>LP, Hold 89.20° Inc at 179.96° Azm</b>										
10,300.00	89.20	179.96	9,911.67	-483.97	-904.34	635.39	0.00	0.00	0.00	
10,400.00	89.20	179.96	9,913.07	-583.96	-904.28	733.81	0.00	0.00	0.00	
10,500.00	89.20	179.96	9,914.47	-683.95	-904.21	832.23	0.00	0.00	0.00	
10,600.00	89.20	179.96	9,915.86	-783.94	-904.15	930.66	0.00	0.00	0.00	
10,700.00	89.20	179.96	9,917.26	-883.93	-904.08	1,029.08	0.00	0.00	0.00	
10,800.00	89.20	179.96	9,918.65	-983.92	-904.02	1,127.50	0.00	0.00	0.00	
10,900.00	89.20	179.96	9,920.05	-1,083.91	-903.95	1,225.92	0.00	0.00	0.00	
11,000.00	89.20	179.96	9,921.45	-1,183.90	-903.89	1,324.34	0.00	0.00	0.00	
11,100.00	89.20	179.96	9,922.84	-1,283.89	-903.83	1,422.77	0.00	0.00	0.00	
11,200.00	89.20	179.96	9,924.24	-1,383.88	-903.76	1,521.19	0.00	0.00	0.00	
11,300.00	89.20	179.96	9,925.64	-1,483.87	-903.70	1,619.61	0.00	0.00	0.00	
11,400.00	89.20	179.96	9,927.03	-1,583.86	-903.63	1,718.03	0.00	0.00	0.00	
11,500.00	89.20	179.96	9,928.43	-1,683.85	-903.57	1,816.46	0.00	0.00	0.00	
11,600.00	89.20	179.96	9,929.82	-1,783.84	-903.50	1,914.88	0.00	0.00	0.00	
11,700.00	89.20	179.96	9,931.22	-1,883.83	-903.44	2,013.30	0.00	0.00	0.00	
11,800.00	89.20	179.96	9,932.62	-1,983.82	-903.38	2,111.72	0.00	0.00	0.00	
11,900.00	89.20	179.96	9,934.01	-2,083.81	-903.31	2,210.14	0.00	0.00	0.00	
12,000.00	89.20	179.96	9,935.41	-2,183.80	-903.25	2,308.57	0.00	0.00	0.00	
12,100.00	89.20	179.96	9,936.80	-2,283.79	-903.18	2,406.99	0.00	0.00	0.00	
12,200.00	89.20	179.96	9,938.20	-2,383.78	-903.12	2,505.41	0.00	0.00	0.00	
12,300.00	89.20	179.96	9,939.60	-2,483.77	-903.05	2,603.83	0.00	0.00	0.00	
12,400.00	89.20	179.96	9,940.99	-2,583.76	-902.99	2,702.26	0.00	0.00	0.00	
12,500.00	89.20	179.96	9,942.39	-2,683.75	-902.93	2,800.68	0.00	0.00	0.00	
12,600.00	89.20	179.96	9,943.79	-2,783.74	-902.86	2,899.10	0.00	0.00	0.00	
12,700.00	89.20	179.96	9,945.18	-2,883.73	-902.80	2,997.52	0.00	0.00	0.00	
12,800.00	89.20	179.96	9,946.58	-2,983.72	-902.73	3,095.94	0.00	0.00	0.00	
12,900.00	89.20	179.96	9,947.97	-3,083.71	-902.67	3,194.37	0.00	0.00	0.00	
13,000.00	89.20	179.96	9,949.37	-3,183.70	-902.61	3,292.79	0.00	0.00	0.00	
13,100.00	89.20	179.96	9,950.77	-3,283.69	-902.54	3,391.21	0.00	0.00	0.00	
13,200.00	89.20	179.96	9,952.16	-3,383.68	-902.48	3,489.63	0.00	0.00	0.00	
13,300.00	89.20	179.96	9,953.56	-3,483.67	-902.41	3,588.05	0.00	0.00	0.00	
13,400.00	89.20	179.96	9,954.96	-3,583.66	-902.35	3,686.48	0.00	0.00	0.00	
13,500.00	89.20	179.96	9,956.35	-3,683.65	-902.28	3,784.90	0.00	0.00	0.00	
13,600.00	89.20	179.96	9,957.75	-3,783.65	-902.22	3,883.32	0.00	0.00	0.00	
13,700.00	89.20	179.96	9,959.14	-3,883.64	-902.16	3,981.74	0.00	0.00	0.00	
13,800.00	89.20	179.96	9,960.54	-3,983.63	-902.09	4,080.17	0.00	0.00	0.00	
13,900.00	89.20	179.96	9,961.94	-4,083.62	-902.03	4,178.59	0.00	0.00	0.00	
14,000.00	89.20	179.96	9,963.33	-4,183.61	-901.96	4,277.01	0.00	0.00	0.00	
14,100.00	89.20	179.96	9,964.73	-4,283.60	-901.90	4,375.43	0.00	0.00	0.00	
14,200.00	89.20	179.96	9,966.13	-4,383.59	-901.83	4,473.85	0.00	0.00	0.00	
14,300.00	89.20	179.96	9,967.52	-4,483.58	-901.77	4,572.28	0.00	0.00	0.00	
14,400.00	89.20	179.96	9,968.92	-4,583.57	-901.71	4,670.70	0.00	0.00	0.00	
14,500.00	89.20	179.96	9,970.31	-4,683.56	-901.64	4,769.12	0.00	0.00	0.00	
14,600.00	89.20	179.96	9,971.71	-4,783.55	-901.58	4,867.54	0.00	0.00	0.00	
14,700.00	89.20	179.96	9,973.11	-4,883.54	-901.51	4,965.97	0.00	0.00	0.00	
14,800.00	89.20	179.96	9,974.50	-4,983.53	-901.45	5,064.39	0.00	0.00	0.00	
14,864.97	89.20	179.96	9,975.41	-5,048.49	-901.41	5,128.33	0.00	0.00	0.00	
<b>TD at 14864.97</b>										



Planning Report



<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well 505H
<b>Company:</b>	Centennial Resources Development, Inc.	<b>TVD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Project:</b>	Lea County, NM (NAD83 - UTM Zone 13)	<b>MD Reference:</b>	RKB @ 3638.80usft (TBD)
<b>Site:</b>	Eric Cartman 31 State Com	<b>North Reference:</b>	True
<b>Well:</b>	505H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1 01-14-22		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Eric Cartman 3'	0.00	0.00	9,905.53	35.82	-904.67	11,780,177.80	2,133,095.09	32° 26' 32.90	103° 24' 9.11
- hit/miss target center by 194.43usft at 9892.10usft MD (9777.79 TVD, -110.76 N, -904.58 E)									
- Point									
BHL - Eric Cartman 3'	0.80	179.96	9,975.41	-5,048.49	-901.41	11,775,094.73	2,133,174.55	32° 25' 42.59	103° 24' 9.07
- plan hits target center									
- Rectangle (sides W0.00 H5,084.79 D20.00)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,786.80	1,786.80	Rustler		0.80	190.12	
2,198.85	2,198.81	Salado		0.80	190.12	
3,408.37	3,397.10	Castile		0.80	190.12	
3,841.09	3,823.24	Base of Salt		0.80	190.12	
4,276.85	4,252.39	Capitan		0.80	190.12	
5,559.76	5,515.81	Cherry Canyon		0.80	190.12	
5,908.16	5,858.93	Manzanita Lime		0.80	190.12	
7,055.98	6,989.31	Brushy Canyon		0.80	190.12	
8,326.63	8,252.53	Bone Spring Lime		0.80	190.12	
8,510.63	8,436.53	Avalon		0.80	190.12	
9,451.63	9,377.53	First Bone Spring Sand		0.80	190.12	
9,588.11	9,513.62	Second Bone Spring Shale		0.80	190.12	
10,099.12	9,884.95	Second Bone Spring Sand		0.80	190.12	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,000.00	2,000.00	0.00	0.00	KOP, Begin 1.00°/100' Build	
2,999.82	2,994.75	3.44	-86.95	Hold 10.00° Inc at 272.27° Azm	
7,212.29	7,143.25	32.37	-817.73	Begin 1.00°/100' Drop	
8,212.11	8,138.00	35.82	-904.67	Begin Vertical Hold	
9,507.68	9,433.57	35.82	-904.67	KOP2, Begin 12.00°/100' Build	
10,251.01	9,910.99	-434.98	-904.37	LP, Hold 89.20° Inc at 179.96° Azm	
14,864.97	9,975.41	-5,048.49	-901.41	TD at 14864.97	

Intent  As Drilled

API #

Operator Name: Centennial Resource Production, LLC	Property Name: Eric Cartman 31 State Com	Well Number 505H
---	---	---------------------

Kick Off Point (KOP)

UL A	Section 31	Township 21S	Range 35E	Lot A	Feet 100	From N/S N	Feet 1320	From E/W E	County LEA
Latitude 32.442473					Longitude -103.402531				NAD 83

First Take Point (FTP)

UL A	Section 31	Township 21S	Range 35E	Lot A	Feet 100	From N/S N	Feet 1320	From E/W E	County Lea
Latitude 32.442473					Longitude -103.402531				NAD 83

Last Take Point (LTP)

UL P	Section 31	Township 21S	Range 35E	Lot P	Feet 100	From N/S S	Feet 1320	From E/W E	County Lea
Latitude 32.428498					Longitude -103.402520				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?  Yes

Is this well an infill well?  Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name: Centennial Resource Prod, LLC	Property Name: Eric Cartman 31 State Com	Well Number 505H
---	---	---------------------

KZ 06/29/2018

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

APPLICATION OF PERMIAN RESOURCES  
OPERATING, LLC FOR APPROVAL OF  
NON-STANDARD WELL LOCATION,  
LEA COUNTY, NEW MEXICO.

CASE NO. 23532

SELF-AFFIRMED STATEMENT  
OF IRA BRADFORD

1. I am a geologist for Permian Resources Operating, LLC (“Permian Resources”). I am over 18 years of age, have personal knowledge of the matters addressed herein, and am competent to provide this Self-Affirmed Statement. I have previously testified before the New Mexico Oil Conservation Division (“Division”), and my credentials as an expert in geology matters were accepted as a matter of record.

2. I am familiar with the geological matters that pertain to the above-referenced case.

3. **Exhibit B-1** is a location map of the Eric Cartman 6 State Com #501H, Eric Cartman 6 State Com #502H, Eric Cartman 31 State Com #504H, Eric Cartman 31 State Com #505H, and Eric Cartman 31 State Com #506H wells in relation to the tracts surrounding the Unit. The approximate wellbore paths for the proposed wells are represented by solid orange lines.

4. **Exhibit B-1** also shows a cross-section line in black running North to South reflecting three wells penetrating the Bone Spring Formation that I used to construct a stratigraphic cross-section from North to South. These wells contain good logs and I consider them to be representative of the geology in the subject area.

5. **Exhibit B-2** is a stratigraphic cross section of the Bone Spring formation, flattened on the WFMP formation, that will be produced by Permian Resources’ wells.

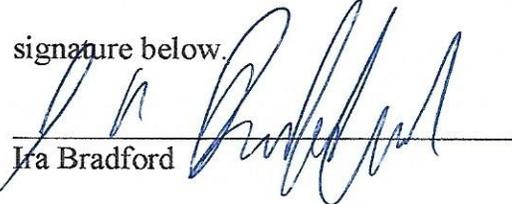
Permian Resources Operating, LLC  
Case No. 23532  
Exhibit B

6. In my opinion, the Eric Cartman 31 State Com #505H well will not adversely affect the other Wells in the Unit or development in the adjacent tracts. The proposed NSL for the well will allow for efficient recovery of hydrocarbons in conjunction with the other wells drilled concurrently in the Second Bone Spring in this unit.

7. In my opinion, granting Permian Resources' application will serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

8. The attached exhibits were either prepared by me or under my supervision or were compiled from company business records.

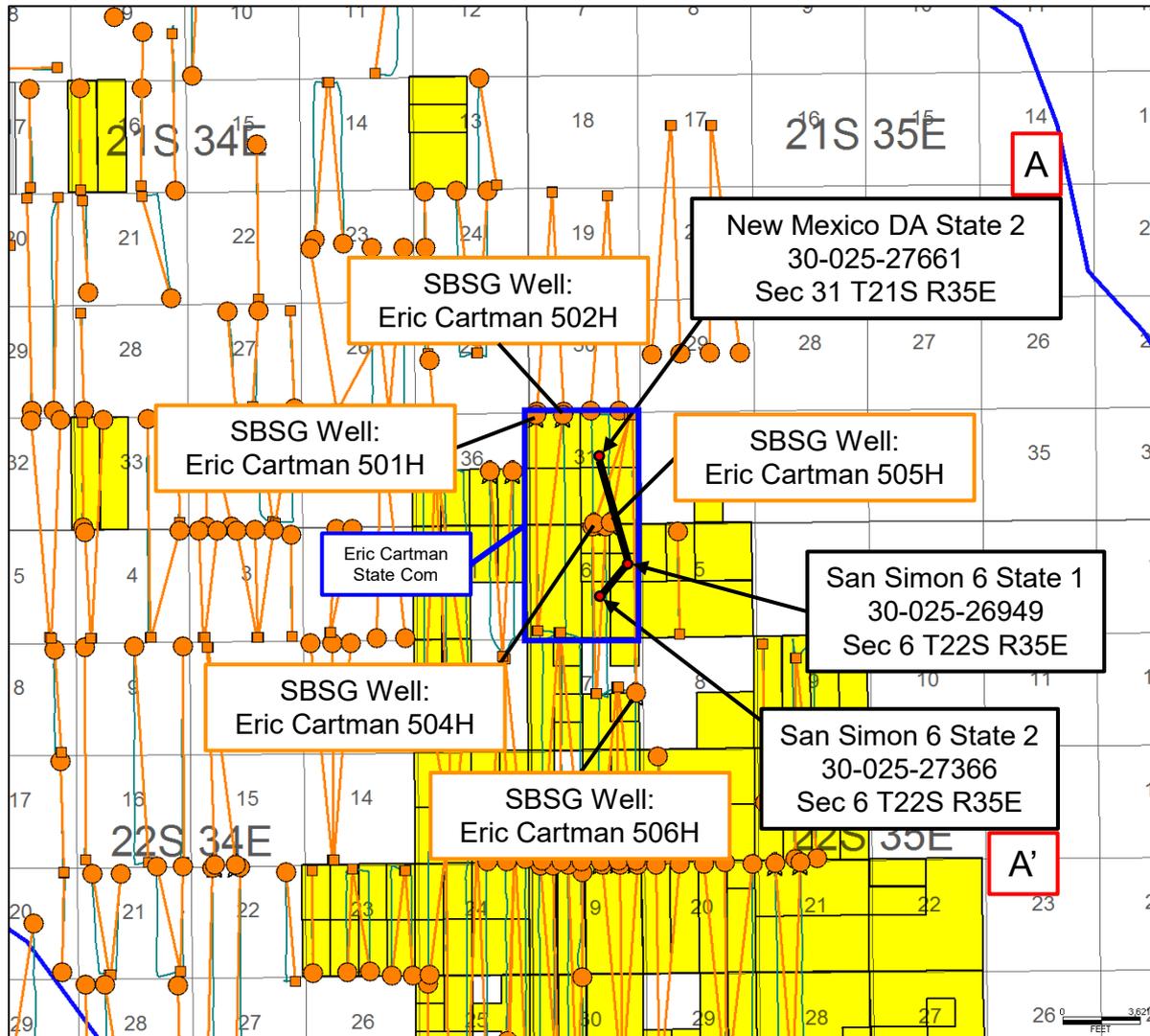
9. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm my testimony above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date identified next to my signature below.

  
Ira Bradford

6/30/2023  
Date

# Cross-Section Locator Map

Eric Cartman 31 State Com - NSL



Permian Resources



### Proposed Wells



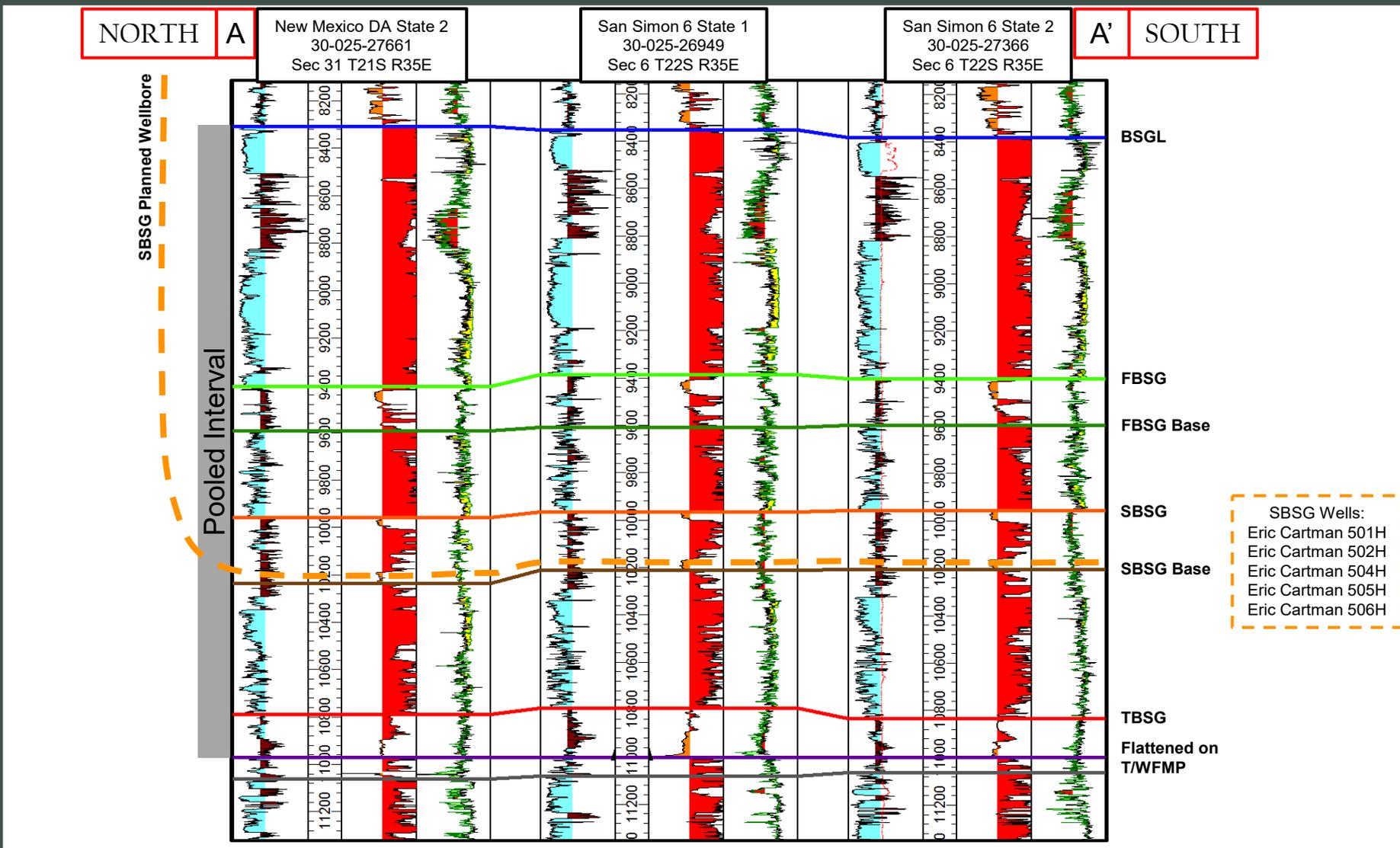
### Producing Wells





# Stratigraphic Cross-Section A-A'

Eric Cartman 31 State Com – NSL



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

**APPLICATION OF PERMIAN RESOURCES  
OPERATING, LLC FOR APPROVAL OF  
NON-STANDARD WELL LOCATION,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 23532**

**SELF-AFFIRMED STATEMENT  
OF DANA S. HARDY**

1. I am attorney in fact and authorized representative of Permian Resources Operating, LLC, the Applicant herein.

2. I am familiar with the Notice Letter attached as **Exhibit C-1** and caused the Notice Letter, along with the Application in this case, to be sent to the parties set out in the chart attached as **Exhibit C-2**.

3. Exhibit C-2 also provides the date each Notice Letter was sent and the date each return was received.

4. Copies of the certified mail green cards and white slips are attached as **Exhibit C-3** as supporting documentation for proof of mailing and the information provided on Exhibit C-2.

5. On May 14, 2023, I caused a notice to be published to all interested parties in the Hobbs News-Sun. An Affidavit of Publication from the Legal Clerk of the Hobbs News-Sun, along with a copy of the notice publication, is attached as **Exhibit C-4**.

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

/s/ Dana S. Hardy  
Dana S. Hardy

June 30, 2023  
Date

**Permian Resources Operating, LLC  
Case No. 23532  
Exhibit C**



hinklelawfirm.com

# HINKLE SHANOR LLP

ATTORNEYS AT LAW

P.O. BOX 2068

SANTA FE, NEW MEXICO 87504

505-982-4554 (FAX) 505-982-8623

WRITER:  
Dana S. Hardy, Partner  
dhardy@hinklelawfirm.com

May 9, 2023

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

## TO ALL PARTIES ENTITLED TO NOTICE

**Re: Case No. 23532 – Application of Permian Resources Operating, LLC for Approval of Non-Standard Well Location, Lea County, New Mexico.**

To whom it may concern:

This letter is to advise you that the enclosed application was filed with the New Mexico Oil Conservation Division. The hearing will be conducted on **June 1, 2023**, beginning at 8:15 a.m.

Hearings are currently conducted remotely. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: <https://www.emnrd.nm.gov/ocd/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.

Pursuant to Division Rule 19.15.4.13.B, a party who intends to present evidence at the hearing shall file a pre-hearing statement and serve copies on other parties, or the attorneys of parties who are represented by counsel, at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. Mountain Time, on the Thursday preceding the scheduled hearing date. The statement must be submitted through the OCD E-Permitting system (<https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/>) or via e-mail to [ocd.hearings@emnrd.nm.gov](mailto:ocd.hearings@emnrd.nm.gov) and should include: the names of the parties and their attorneys, a concise statement of the case, the names of all witnesses the party will call to testify at the hearing, the approximate time the party will need to present its case, and identification of any procedural matters that are to be resolved prior to the hearing.

Please contact Chris Astwood with Permian Resources at 432-315-0102 if you have questions regarding this matter.

Sincerely,

/s/ Dana S. Hardy

Dana S. Hardy

Enclosure

**Permian Resources Operating, LLC**  
**Case No. 23532**  
**Exhibit C-1**

PO BOX 10  
ROSWELL, NEW MEXICO 88202  
(575) 622-6510  
FAX (575) 623-9332

7601 JEFFERSON ST NE · SUITE 180  
ALBUQUERQUE, NEW MEXICO 87109  
505-858-8320  
(FAX) 505-858-8321

PO BOX 2068  
SANTA FE, NEW MEXICO 87504  
(505) 982-4554  
FAX (505) 982-8623

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

**APPLICATION OF PERMIAN RESOURCES  
OPERATING, LLC FOR APPROVAL OF  
NON-STANDARD WELL LOCATION,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 23532**

**NOTICE LETTER CHART**

<b>PARTY</b>	<b>NOTICE LETTER SENT</b>	<b>RETURN RECEIVED</b>
Chevron Midcontinent, LP 1400 Smith Street Houston, TX 77002	05/09/23	05/22/23
Fuel Products, Inc. P.O. Box 3098 Midland, TX 79702	05/09/23	05/18/23
Gahr Energy Company P.O. Box 1889 Midland, TX 79702	05/09/23	05/18/23
MRC Permian Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	05/09/23	05/15/23
Mark K. Nearburg 710 Dragon Lakeway, TX 78734	05/09/23	Per USPS Tracking (Last Checked 06/28/23):  05/12/23 – Item delivered to individual at the address.
State Land Office 310 Old Santa Fe Trl Santa Fe, NM 87501	05/09/23	05/15/23

**Permian Resources Operating, LLC  
Case No. 23532  
Exhibit C-2**

7022 1670 0002 1181 6316

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Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

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Total Postage and Fees \$ \_\_\_\_\_

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 MAY 22 2023  
 SANTA FE TRAIN STATION  
 SANTA FE, NM 87501-USPS

Send To  
 Chevron Midcontinent, LP  
 1400 Smith Street  
 Houston, TX 77002  
 23532 - PRO Eric Cartman

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)  <i>Ant. Alayo</i></p> <p>C. Date of Delivery  <i>5-15-23</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes      If YES, enter delivery address below <input type="checkbox"/> No</p> <p><b>RECEIVED</b>      MAY 22 2023      Hinkle Shanor LLP      Santa Fe, NM 87504</p>
<p>1. Article Addressed to:</p> <p>Chevron Midcontinent, LP          1400 Smith Street          Houston, TX 77002          23532 - PRO Eric Cartman</p> <p>9590 9402 7635 2122 8750 20</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>7022 1670 0002 1181 6316</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

Permian Resources Operating, LLC  
 Case No. 23532  
 Exhibit C-3

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul> <p>1. Article Addressed to:</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Fuel Products, Inc. P.O. Box 3098 Midland, TX 79702</p> <p style="text-align: right; font-size: 0.8em;">23532 – PRO Eric Cartman</p> </div>  <p style="text-align: center; font-size: 1.2em;">9590 9402 7635 2122 8750 37</p> <p>2. Article Number (Transfer from service label)</p> <p style="font-size: 1.2em; font-weight: bold;">7022 1670 0002 1181 6354</p>	<p>A. Signature</p> <p><input checked="" type="checkbox"/> <i>[Signature]</i> <span style="float: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</span></p> <p>B. Received by (Printed Name) <span style="float: right;">C. Date of Delivery</span></p> <p><i>[Signature]</i> <span style="float: right;">5/15/23</span></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type</p> <table style="width: 100%; font-size: 0.8em;"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
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<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Collect on Delivery Restricted Delivery																	
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

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7022 1670 0002 1181 6347

Gahr Energy Company P.O. Box 1889 Midland, TX 79702 23532 - PRO Eric Cartman	
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PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt

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Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage \$ \_\_\_\_\_

Total Postage and Fees \$ \_\_\_\_\_

MRC Permian Company  
 5400 LBJ Freeway, Suite 1500  
 Dallas, TX 75240  
 23532 - PRO Eric Cartman

PS Form 3800, April 2015 PSN 7530-02-000-8047 See Reverse for Instructions

*Postmark Here*  
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 SANTA FE, NM 87501-0505

7022 1670 0002 1181 6323

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<p>1. Article Addressed to:</p> <p>MRC Permian Company          5400 LBJ Freeway, Suite 1500          Dallas, TX 75240          23532 - PRO Eric Cartman</p> <p>9590 9402 4821 9032 2142 02</p>	<p>3. Service Type <i>Hinkle Shanor LLP</i> <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from carrier label)</p> <p>7022 1670 0002 1181 6323</p>	<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>

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Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage \$ \_\_\_\_\_

Total Postage and Fees \$ \_\_\_\_\_

State Land Office  
 310 Old Santa Fe Trl  
 Santa Fe, NM 87501  
 23532 - PRO Eric Cartman

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SANTA FE MAIN ST  
 MAY - 9 2023  
 NM 87501-USPS

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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<p>1. Article Addressed to:</p> <p>State Land Office          310 Old Santa Fe Trl          Santa Fe, NM 87501          23532 - PRO Eric Cartman</p> <p>9590 9402 7635 2122 8750 13</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>7022 1670 0002 1181 6309</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

7022 1670 0002 1161 6330

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<b>OFFICIAL USE</b>	
Certified Mail Fee	\$ _____
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____
Postage	\$ _____
<b>Total Postage and Fees</b>	<b>\$ _____</b>
<b>Sent To</b>	
<b>Str</b>	Mark K. Nearburg
	710 Dragon
<b>City</b>	Lakeway, TX 78734
	23532 - PRO Eric Cirtman
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



# USPS Tracking®

FAQs >

Tracking Number:

Remove X

## 70221670000211816330

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### Latest Update

Your item was delivered to an individual at the address at 3:51 pm on May 12, 2023 in AUSTIN, TX 78734.

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Feedback

#### Delivered

**Delivered, Left with Individual**

AUSTIN, TX 78734

May 12, 2023, 3:51 pm

#### Departed USPS Regional Facility

AUSTIN TX DISTRIBUTION CENTER

May 12, 2023, 8:06 am

#### Arrived at USPS Regional Facility

AUSTIN TX DISTRIBUTION CENTER

May 11, 2023, 11:26 am

#### In Transit to Next Facility

May 10, 2023

#### Departed USPS Facility

ALBUQUERQUE, NM 87101

May 9, 2023, 11:03 pm

#### Arrived at USPS Facility

ALBUQUERQUE, NM 87101  
May 9, 2023, 9:07 pm

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**FAQs**

# Affidavit of Publication

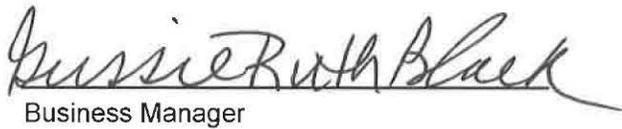
STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher 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 not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 14, 2023  
and ending with the issue dated  
May 14, 2023.

  
Publisher

Sworn and subscribed to before me this  
14th day of May 2023.

  
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

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

**LEGAL NOTICE**  
May 14, 2023

This is to notify all interested parties, including Chevron Midcontinent, LP; Fuel Products, Inc.; Gahr Energy Company; Mark K. Nearburg; MRC Permian Company; New Mexico State Land Office; and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Permian Resources Operating, LLC (Case No. 23532). The hearing will be conducted remotely on June 1, 2023, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website for that date <https://www.emnrd.nm.gov/oed/hearing-info/>. Applicant applies for an order approving a non-standard location ("NSL") for the Eric Cartman 31 State Com #505H well (API No. 30-025- 50160) ("Well"). The Well will be drilled for purposes of production from the Ojo Chiso; Bone Spring Pool (Code 96553) and will be dedicated to a 160-acre, more or less, standard horizontal spacing unit ("Unit") comprised of the W/2 E/2 of Section 31, Township 21 South, Range 35 East, Lea County, New Mexico. The surface hole of the Well is located approximately 135 feet FNL and 415 feet FEL (Unit A) of Section 31, and the bottom hole is located approximately 100 feet FSL and 1,330 feet FEL (Unit O) of Section 31. The first take point will be located approximately 100 feet FNL and 1,330 feet FEL (Unit B) of Section 31, and the last take point will be approximately 100 feet FSL and 1,330 feet FEL (Unit O) of Section 31. The completed interval of the Well will be less than 330' from the eastern boundary of the existing 160-acre horizontal spacing unit. The Well is located approximately 14 miles west of Eunice, New Mexico.  
#00278586

02107475

00278586

GILBERT  
HINKLE, SHANOR LLP  
PO BOX 2068  
SANTA FE, NM 87504

**Permian Resources Operating, LLC**  
**Case No. 23532**  
**Exhibit C-4**