

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Centennial Resource Production, LLC 1001 17th Street, Suite 1800 Denver, CO 80202		² OGRID Number 372165
		³ Reason for Filing Code/ Effective Date RT 4/28/21
⁴ API Number 30 - 0 25-46300	⁵ Pool Name Red Hills; Bone Spring, North	⁶ Pool Code 96434
⁷ Property Code 318010	⁸ Property Name Raider Federal Com	⁹ Well Number 502H

II. ¹⁰ Surface Location

UL or lot no. P	Section 21	Township 24S	Range 34E	Lot Idn	Feet from the 300	North/South Line South	Feet from the 1040	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no. B	Section 16	Township 24S	Range 34E	Lot Idn	Feet from the 101	North/South line North	Feet from the 2305	East/West line East	County Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 4/28/21	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
371960	Lucid Energy Group	G
329971	Oryx Delaware Oil Gathering NM, LLC	O

IV. Well Completion Data

²¹ Spud Date 2/28/21	²² Ready Date 4/28/21	²³ TD 21,259MD/10,786TVD	²⁴ PBTD 21,217	²⁵ Perforations 11,466 - 21,213	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2	13-3/8	1335	1130		
12-1/4	9-5/8	5404	1015		
8-3/4, 8-1/2	5-1/2	21,253	2545		
Request tubing exception					

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Kanicia Castillo			Approved by: KURT SIMMONS		
Title: Sr. Regulatory Analyst			Title: NMOCD, SANTA FE		
E-mail Address: kanicia.castillo@cdevinc.com			Approval Date: 07/16/2021		
Date: 4/28/21		Phone: 720-499-1537	RT C-104 EXPIRES 07/28/2021		

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) 746-3460 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 30-025-46300	² Pool Code 96434	³ Pool Name Red Hills; Bone Spring, North
⁴ Property Code 318010	⁵ Property Name RAIDER FEDERAL COM	⁶ Well Number #502H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3497.5'

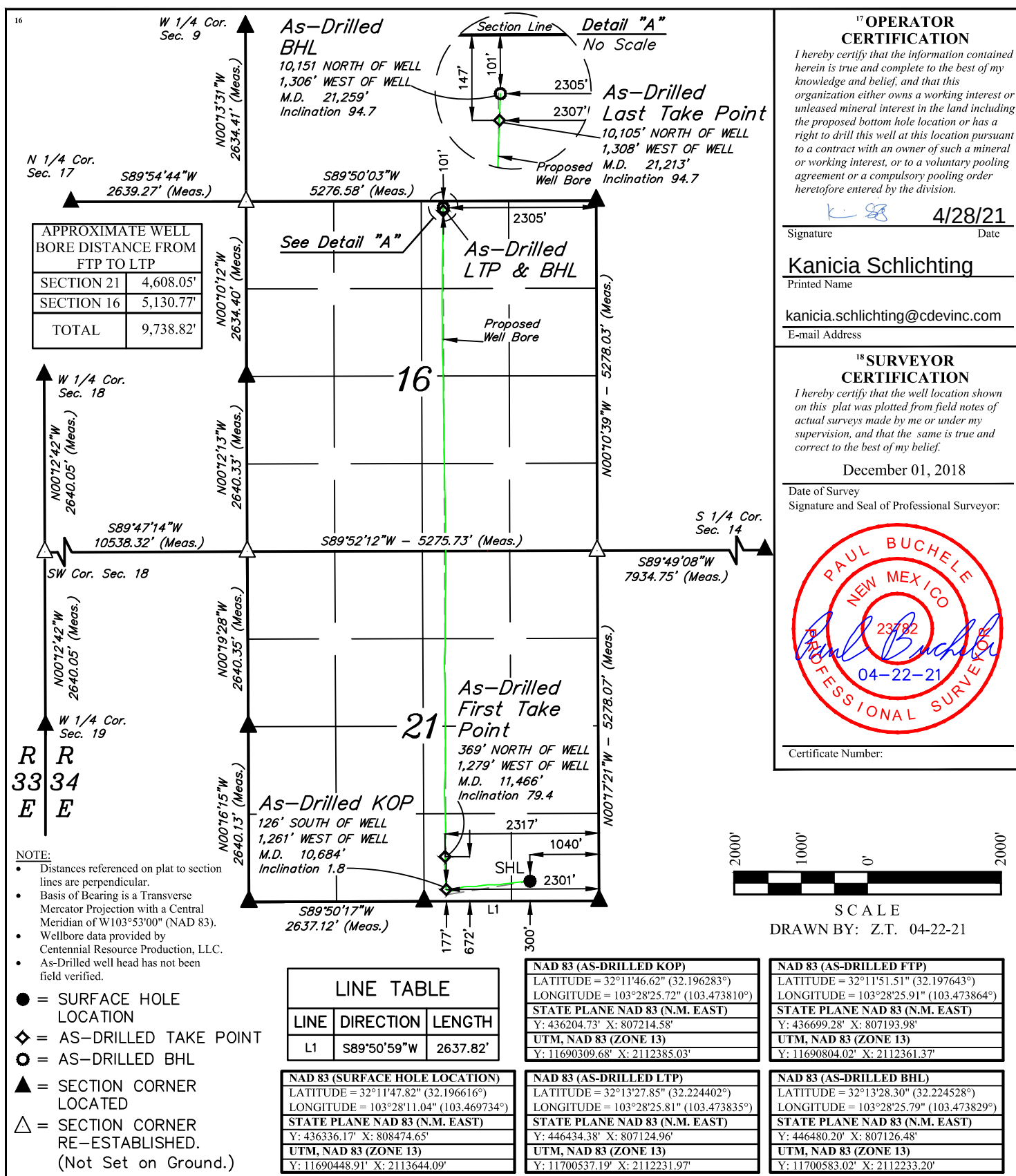
¹⁰Surface Location

UL or lot no. P	Section 21	Township 24S	Range 34E	Lot Idn	Feet from the 300	North/South line SOUTH	Feet from the 1040	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 16	Township 24S	Range 34E	Lot Idn	Feet from the 101	North/South line NORTH	Feet from the 2305	East/West line EAST	County LEA
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.





Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - UTM Zone 13)
Raider Federal Com
502H**

OH / 67469

Survey: Phoenix MWD Surveys

Standard Survey Report

31 March, 2021





Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3523.50usft (H&P 296)
Site:	Raider Federal Com	MD Reference:	RKB @ 3523.50usft (H&P 296)
Well:	502H	North Reference:	True
Wellbore:	OH / 67469	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 296)	Database:	USA Compass

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

Site	Raider Federal Com		
Site Position:		Northing:	11,690,439.89 usft
From:	Map	Easting:	2,112,954.42 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 47.826895 N
		Longitude:	103° 28' 19.068805 W
		Grid Convergence:	0.81 °

Well	502H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 47.819079 N
		Longitude:	103° 28' 11.041145 W
		Ground Level:	3,497.50 usft

Wellbore	OH / 67469				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	3/1/2021	6.41	59.78	47,634.87045727

Design	Surveys (H&P 296)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.98	

Survey Program	Date	3/31/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
129.00	21,259.00	Phoenix MWD Surveys (OH / 67469)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

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
129.00	0.64	98.10	129.00	-0.10	0.71	-0.10	0.50	0.50	0.00
First Phoenix MWD Survey									
220.00	0.53	8.80	219.99	0.24	1.28	0.24	0.91	-0.12	-98.13
309.00	0.60	358.49	308.99	1.12	1.33	1.11	0.14	0.08	-11.58
399.00	0.55	1.97	398.99	2.02	1.33	2.02	0.07	-0.06	3.87
487.00	0.38	11.01	486.98	2.73	1.40	2.73	0.21	-0.19	10.27
577.00	0.48	0.73	576.98	3.40	1.47	3.40	0.14	0.11	-11.42
667.00	0.42	356.48	666.98	4.10	1.45	4.10	0.08	-0.07	-4.72
757.00	0.23	324.66	756.98	4.58	1.33	4.58	0.28	-0.21	-35.36
847.00	0.18	302.73	846.98	4.80	1.10	4.80	0.10	-0.06	-24.37



Survey Report



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Site:	Raider Federal Com	MD Reference:	RKB @ 3523.50usft (H&P 296)
Well:	502H	North Reference:	True
Wellbore:	OH / 67469	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 296)	Database:	USA Compass

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)
938.00	0.12	319.06	937.97	4.95	0.92	4.95	0.08	-0.07	17.95
1,029.00	0.09	309.48	1,028.97	5.07	0.80	5.07	0.04	-0.03	-10.53
1,120.00	0.15	161.49	1,119.97	5.00	0.78	5.00	0.25	0.07	-162.63
1,212.00	0.15	108.14	1,211.97	4.85	0.94	4.85	0.15	0.00	-57.99
1,273.00	0.22	192.49	1,272.97	4.71	0.99	4.71	0.42	0.11	138.28
1,409.00	0.31	322.23	1,408.97	4.75	0.71	4.75	0.35	0.07	95.40
1,504.00	0.46	335.16	1,503.97	5.30	0.39	5.30	0.18	0.16	13.61
1,598.00	0.22	13.03	1,597.97	5.81	0.27	5.81	0.34	-0.26	40.29
1,693.00	0.34	312.58	1,692.97	6.18	0.10	6.18	0.32	0.13	-63.63
1,787.00	0.22	20.23	1,786.97	6.54	-0.04	6.54	0.35	-0.13	71.97
1,881.00	0.13	72.55	1,880.97	6.74	0.13	6.74	0.19	-0.10	55.66
1,975.00	0.13	189.50	1,974.97	6.67	0.21	6.67	0.24	0.00	124.41
2,070.00	1.00	241.68	2,069.96	6.17	-0.54	6.17	0.97	0.92	54.93
2,164.00	2.61	261.83	2,163.91	5.48	-3.38	5.48	1.82	1.71	21.44
2,259.00	4.17	266.67	2,258.74	4.97	-8.97	4.97	1.67	1.64	5.09
2,353.00	5.25	265.65	2,352.43	4.44	-16.67	4.45	1.15	1.15	-1.09
2,448.00	6.06	261.81	2,446.96	3.40	-25.97	3.41	0.94	0.85	-4.04
2,542.00	7.25	261.16	2,540.33	1.78	-36.74	1.79	1.27	1.27	-0.69
2,636.00	8.47	260.47	2,633.44	-0.28	-49.43	-0.26	1.30	1.30	-0.73
2,731.00	9.37	262.04	2,727.29	-2.51	-63.99	-2.48	0.98	0.95	1.65
2,825.00	9.81	263.79	2,819.98	-4.43	-79.53	-4.40	0.56	0.47	1.86
2,920.00	9.67	263.78	2,913.61	-6.17	-95.50	-6.14	0.15	-0.15	-0.01
3,014.00	9.58	264.14	3,006.29	-7.83	-111.13	-7.79	0.12	-0.10	0.38
3,109.00	9.51	264.89	3,099.97	-9.33	-126.81	-9.29	0.15	-0.07	0.79
3,203.00	9.35	264.94	3,192.70	-10.70	-142.15	-10.65	0.17	-0.17	0.05
3,298.00	9.10	264.50	3,286.47	-12.10	-157.32	-12.04	0.27	-0.26	-0.46
3,392.00	8.78	263.58	3,379.33	-13.61	-171.85	-13.55	0.37	-0.34	-0.98
3,486.00	9.48	263.43	3,472.14	-15.30	-186.67	-15.23	0.75	0.74	-0.16
3,581.00	9.75	262.65	3,565.80	-17.22	-202.42	-17.15	0.32	0.28	-0.82
3,675.00	9.96	265.70	3,658.42	-18.85	-218.42	-18.78	0.60	0.22	3.24
3,770.00	9.65	265.08	3,752.03	-20.15	-234.54	-20.07	0.34	-0.33	-0.65
3,864.00	10.01	262.36	3,844.65	-21.91	-250.49	-21.83	0.62	0.38	-2.89
3,959.00	10.70	260.28	3,938.10	-24.50	-267.37	-24.41	0.83	0.73	-2.19
4,053.00	10.68	258.99	4,030.47	-27.64	-284.52	-27.54	0.26	-0.02	-1.37
4,148.00	10.84	263.34	4,123.80	-30.35	-302.03	-30.25	0.87	0.17	4.58
4,242.00	10.88	267.13	4,216.12	-31.82	-319.67	-31.71	0.76	0.04	4.03
4,337.00	10.33	266.73	4,309.50	-32.76	-337.13	-32.64	0.58	-0.58	-0.42
4,432.00	10.18	265.56	4,402.98	-33.89	-354.00	-33.77	0.27	-0.16	-1.23
4,526.00	9.72	264.20	4,495.57	-35.34	-370.18	-35.21	0.55	-0.49	-1.45
4,620.00	8.82	262.47	4,588.34	-37.08	-385.22	-36.95	1.00	-0.96	-1.84
4,715.00	8.84	260.09	4,682.21	-39.30	-399.63	-39.16	0.39	0.02	-2.51
4,810.00	9.62	261.02	4,775.98	-41.79	-414.66	-41.65	0.84	0.82	0.98
4,904.00	8.85	258.45	4,868.76	-44.46	-429.50	-44.31	0.93	-0.82	-2.73



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3523.50usft (H&P 296)
Site:	Raider Federal Com	MD Reference:	RKB @ 3523.50usft (H&P 296)
Well:	502H	North Reference:	True
Wellbore:	OH / 67469	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 296)	Database:	USA Compass

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)
4,998.00	8.89	258.10	4,961.64	-47.41	-443.70	-47.26	0.07	0.04	-0.37
5,093.00	9.44	259.84	5,055.43	-50.30	-458.55	-50.14	0.65	0.58	1.83
5,187.00	9.74	267.30	5,148.12	-52.03	-474.08	-51.87	1.36	0.32	7.94
5,281.00	9.79	270.05	5,240.75	-52.40	-490.01	-52.23	0.50	0.05	2.93
5,348.00	9.21	269.39	5,306.83	-52.45	-501.07	-52.28	0.88	-0.87	-0.99
5,478.00	9.03	267.74	5,435.19	-52.97	-521.67	-52.78	0.24	-0.14	-1.27
5,572.00	10.39	271.65	5,527.84	-53.01	-537.51	-52.82	1.61	1.45	4.16
5,667.00	11.00	271.30	5,621.19	-52.56	-555.14	-52.37	0.65	0.64	-0.37
5,762.00	11.22	271.36	5,714.41	-52.13	-573.44	-51.93	0.23	0.23	0.06
5,856.00	11.29	270.41	5,806.60	-51.85	-591.78	-51.65	0.21	0.07	-1.01
5,951.00	11.24	269.13	5,899.77	-51.93	-610.34	-51.71	0.27	-0.05	-1.35
6,046.00	11.61	270.92	5,992.89	-51.91	-629.15	-51.69	0.54	0.39	1.88
6,140.00	11.46	264.92	6,085.00	-52.59	-647.91	-52.36	1.29	-0.16	-6.38
6,235.00	11.01	264.65	6,178.18	-54.27	-666.34	-54.04	0.48	-0.47	-0.28
6,330.00	10.45	263.95	6,271.52	-56.02	-683.94	-55.78	0.61	-0.59	-0.74
6,424.00	10.49	262.27	6,363.95	-58.07	-700.90	-57.83	0.33	0.04	-1.79
6,519.00	10.46	261.89	6,457.37	-60.45	-718.01	-60.20	0.08	-0.03	-0.40
6,613.00	10.22	261.40	6,549.84	-62.90	-734.70	-62.65	0.27	-0.26	-0.52
6,707.00	10.45	260.35	6,642.32	-65.58	-751.35	-65.32	0.32	0.24	-1.12
6,802.00	10.75	259.47	6,735.69	-68.64	-768.55	-68.37	0.36	0.32	-0.93
6,896.00	11.28	259.57	6,827.96	-71.91	-786.22	-71.63	0.56	0.56	0.11
6,990.00	11.56	259.36	6,920.10	-75.31	-804.51	-75.03	0.30	0.30	-0.22
7,084.00	10.63	266.70	7,012.35	-77.55	-822.43	-77.26	1.80	-0.99	7.81
7,179.00	10.40	267.87	7,105.75	-78.37	-839.74	-78.08	0.33	-0.24	1.23
7,273.00	10.31	270.81	7,198.22	-78.57	-856.63	-78.27	0.57	-0.10	3.13
7,367.00	10.17	271.23	7,290.72	-78.27	-873.34	-77.97	0.17	-0.15	0.45
7,462.00	9.75	272.47	7,384.29	-77.75	-889.76	-77.44	0.50	-0.44	1.31
7,556.00	10.42	273.02	7,476.84	-76.96	-906.20	-76.64	0.72	0.71	0.59
7,651.00	10.00	271.34	7,570.34	-76.31	-923.03	-75.99	0.54	-0.44	-1.77
7,745.00	9.12	267.74	7,663.03	-76.41	-938.63	-76.09	1.13	-0.94	-3.83
7,839.00	8.98	266.90	7,755.86	-77.10	-953.40	-76.77	0.20	-0.15	-0.89
7,933.00	8.62	266.14	7,848.75	-77.97	-967.76	-77.64	0.40	-0.38	-0.81
8,028.00	7.96	262.97	7,942.76	-79.26	-981.39	-78.92	0.84	-0.69	-3.34
8,123.00	7.06	260.16	8,036.95	-81.06	-993.67	-80.71	1.02	-0.95	-2.96
8,217.00	6.99	260.13	8,130.24	-83.03	-1,004.99	-82.68	0.07	-0.07	-0.03
8,312.00	6.18	259.06	8,224.61	-84.99	-1,015.71	-84.64	0.86	-0.85	-1.13
8,406.00	5.77	259.42	8,318.10	-86.82	-1,025.32	-86.46	0.44	-0.44	0.38
8,501.00	7.40	249.37	8,412.47	-89.85	-1,035.74	-89.49	2.10	1.72	-10.58
8,596.00	8.19	240.32	8,506.60	-95.36	-1,047.35	-94.99	1.53	0.83	-9.53
8,690.00	8.70	246.05	8,599.58	-101.56	-1,059.66	-101.19	1.05	0.54	6.10
8,784.00	9.72	246.18	8,692.37	-107.65	-1,073.42	-107.27	1.09	1.09	0.14
8,879.00	8.47	246.27	8,786.17	-113.70	-1,087.16	-113.32	1.32	-1.32	0.09
8,973.00	11.22	249.96	8,878.78	-119.62	-1,102.09	-119.24	3.00	2.93	3.93



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3523.50usft (H&P 296)
Site:	Raider Federal Com	MD Reference:	RKB @ 3523.50usft (H&P 296)
Well:	502H	North Reference:	True
Wellbore:	OH / 67469	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 296)	Database:	USA Compass

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)
9,068.00	10.32	250.30	8,972.11	-125.66	-1,118.79	-125.27	0.95	-0.95	0.36
9,163.00	8.42	254.25	9,065.83	-130.42	-1,133.50	-130.02	2.11	-2.00	4.16
9,257.00	6.67	255.91	9,159.02	-133.62	-1,145.41	-133.22	1.88	-1.86	1.77
9,352.00	6.68	253.73	9,253.37	-136.51	-1,156.07	-136.10	0.27	0.01	-2.29
9,446.00	5.81	257.29	9,346.82	-139.08	-1,165.96	-138.68	1.01	-0.93	3.79
9,541.00	7.90	264.54	9,441.13	-140.76	-1,177.15	-140.35	2.38	2.20	7.63
9,635.00	6.53	281.73	9,534.40	-140.29	-1,188.82	-139.88	2.70	-1.46	18.29
9,730.00	8.66	279.01	9,628.56	-138.07	-1,201.17	-137.65	2.27	2.24	-2.86
9,824.00	8.79	283.64	9,721.47	-135.27	-1,215.14	-134.85	0.76	0.14	4.93
9,919.00	8.03	283.75	9,815.45	-131.98	-1,228.64	-131.55	0.80	-0.80	0.12
10,013.00	7.51	274.52	9,908.59	-129.94	-1,241.14	-129.50	1.44	-0.55	-9.82
10,108.00	6.07	278.43	10,002.92	-128.71	-1,252.30	-128.28	1.59	-1.52	4.12
10,203.00	2.00	282.16	10,097.67	-127.63	-1,258.89	-127.19	4.29	-4.28	3.93
10,297.00	1.15	44.68	10,191.65	-126.61	-1,259.83	-126.17	2.97	-0.90	130.34
10,396.00	0.76	0.22	10,290.63	-125.25	-1,259.13	-124.81	0.82	-0.39	-44.91
10,490.00	0.88	343.48	10,384.62	-123.93	-1,259.33	-123.49	0.28	0.13	-17.81
10,584.00	0.71	334.75	10,478.62	-122.71	-1,259.79	-122.27	0.22	-0.18	-9.29
10,679.00	1.42	301.08	10,573.60	-121.57	-1,261.05	-121.13	0.97	0.75	-35.44
10,726.00	5.23	1.40	10,620.52	-119.13	-1,261.49	-118.69	9.98	8.11	128.34
10,773.00	10.34	1.93	10,667.07	-112.77	-1,261.30	-112.33	10.87	10.87	1.13
10,867.00	21.58	353.27	10,757.32	-87.08	-1,263.05	-86.64	12.19	11.96	-9.21
10,962.00	31.91	356.48	10,842.04	-44.56	-1,266.65	-44.11	10.98	10.87	3.38
11,056.00	43.93	357.28	10,916.06	13.02	-1,269.73	13.47	12.80	12.79	0.85
11,151.00	54.72	356.62	10,977.89	84.86	-1,273.59	85.31	11.37	11.36	-0.69
11,245.00	62.47	357.22	11,026.83	164.92	-1,277.88	165.36	8.26	8.24	0.64
11,340.00	70.26	0.71	11,064.90	251.85	-1,279.37	252.30	8.86	8.20	3.67
11,434.00	76.32	0.97	11,091.91	341.83	-1,278.05	342.27	6.45	6.45	0.28
11,529.00	85.44	0.23	11,106.96	435.52	-1,277.08	435.97	9.63	9.60	-0.78
11,624.00	90.05	1.83	11,110.69	530.41	-1,275.37	530.85	5.14	4.85	1.68
11,649.00	90.44	1.89	11,110.59	555.39	-1,274.56	555.84	1.58	1.56	0.24
11,743.00	90.81	1.38	11,109.56	649.35	-1,271.88	649.79	0.67	0.39	-0.54
11,838.00	90.16	0.92	11,108.76	744.32	-1,269.97	744.77	0.84	-0.68	-0.48
11,933.00	89.10	359.87	11,109.37	839.32	-1,269.31	839.76	1.57	-1.12	-1.11
12,027.00	86.11	357.82	11,113.30	933.20	-1,271.20	933.64	3.86	-3.18	-2.18
12,122.00	92.27	358.83	11,114.64	1,028.10	-1,273.98	1,028.55	6.57	6.48	1.06
12,216.00	91.64	357.35	11,111.43	1,121.99	-1,277.11	1,122.44	1.71	-0.67	-1.57
12,311.00	92.75	357.89	11,107.79	1,216.84	-1,281.05	1,217.29	1.30	1.17	0.57
12,405.00	93.32	0.19	11,102.82	1,310.69	-1,282.63	1,311.14	2.52	0.61	2.45
12,499.00	94.25	0.94	11,096.61	1,404.48	-1,281.70	1,404.92	1.27	0.99	0.80
12,594.00	89.08	3.14	11,093.85	1,499.34	-1,278.32	1,499.78	5.91	-5.44	2.32
12,689.00	89.04	3.03	11,095.41	1,594.19	-1,273.21	1,594.63	0.12	-0.04	-0.12
12,783.00	91.60	0.57	11,094.89	1,688.12	-1,270.26	1,688.57	3.78	2.72	-2.62
12,878.00	91.61	0.71	11,092.23	1,783.08	-1,269.19	1,783.52	0.15	0.01	0.15
12,972.00	92.41	0.80	11,088.93	1,877.01	-1,267.96	1,877.46	0.86	0.85	0.10



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3523.50usft (H&P 296)
Site:	Raider Federal Com	MD Reference:	RKB @ 3523.50usft (H&P 296)
Well:	502H	North Reference:	True
Wellbore:	OH / 67469	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 296)	Database:	USA Compass

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)
13,067.00	92.61	0.62	11,084.77	1,971.92	-1,266.78	1,972.36	0.28	0.21	-0.19
13,161.00	92.12	0.04	11,080.89	2,065.83	-1,266.24	2,066.28	0.81	-0.52	-0.62
13,256.00	91.63	0.23	11,077.78	2,160.78	-1,266.02	2,161.22	0.55	-0.52	0.20
13,350.00	91.72	359.99	11,075.03	2,254.74	-1,265.84	2,255.18	0.27	0.10	-0.26
13,445.00	91.67	359.59	11,072.22	2,349.70	-1,266.18	2,350.14	0.42	-0.05	-0.42
13,539.00	92.24	359.66	11,069.02	2,443.64	-1,266.80	2,444.08	0.61	0.61	0.07
13,634.00	92.49	359.71	11,065.10	2,538.56	-1,267.32	2,539.00	0.27	0.26	0.05
13,729.00	91.07	359.95	11,062.15	2,633.51	-1,267.60	2,633.95	1.52	-1.49	0.25
13,823.00	89.25	0.25	11,061.88	2,727.51	-1,267.44	2,727.95	1.96	-1.94	0.32
13,918.00	89.14	359.84	11,063.22	2,822.50	-1,267.36	2,822.94	0.45	-0.12	-0.43
14,012.00	89.81	359.13	11,064.08	2,916.49	-1,268.21	2,916.93	1.04	0.71	-0.76
14,107.00	91.93	358.64	11,062.64	3,011.45	-1,270.06	3,011.90	2.29	2.23	-0.52
14,201.00	92.77	357.70	11,058.78	3,105.33	-1,273.06	3,105.77	1.34	0.89	-1.00
14,296.00	93.91	358.00	11,053.25	3,200.10	-1,276.61	3,200.54	1.24	1.20	0.32
14,390.00	94.02	0.63	11,046.75	3,293.86	-1,277.73	3,294.30	2.79	0.12	2.80
14,484.00	93.09	3.49	11,040.92	3,387.60	-1,274.36	3,388.05	3.19	-0.99	3.04
14,578.00	88.42	2.65	11,039.68	3,481.43	-1,269.33	3,481.88	5.05	-4.97	-0.89
14,673.00	89.95	1.47	11,041.03	3,576.36	-1,265.92	3,576.80	2.03	1.61	-1.24
14,767.00	89.36	1.43	11,041.60	3,670.33	-1,263.54	3,670.77	0.63	-0.63	-0.04
14,861.00	91.21	359.54	11,041.13	3,764.31	-1,262.74	3,764.75	2.81	1.97	-2.01
14,956.00	92.70	359.89	11,037.89	3,859.25	-1,263.21	3,859.69	1.61	1.57	0.37
15,050.00	91.36	359.99	11,034.56	3,953.19	-1,263.31	3,953.63	1.43	-1.43	0.11
15,144.00	92.78	0.16	11,031.16	4,047.13	-1,263.19	4,047.57	1.52	1.51	0.18
15,239.00	94.51	0.39	11,025.12	4,141.93	-1,262.73	4,142.37	1.84	1.82	0.24
15,333.00	92.68	1.50	11,019.23	4,235.73	-1,261.19	4,236.17	2.28	-1.95	1.18
15,428.00	91.27	1.77	11,015.95	4,330.63	-1,258.48	4,331.07	1.51	-1.48	0.28
15,522.00	90.86	2.02	11,014.21	4,424.56	-1,255.37	4,425.00	0.51	-0.44	0.27
15,617.00	91.18	1.44	11,012.52	4,519.50	-1,252.50	4,519.94	0.70	0.34	-0.61
15,711.00	91.87	0.67	11,010.01	4,613.45	-1,250.77	4,613.89	1.10	0.73	-0.82
15,806.00	92.80	0.08	11,006.14	4,708.37	-1,250.15	4,708.81	1.16	0.98	-0.62
15,900.00	94.81	0.33	10,999.91	4,802.16	-1,249.81	4,802.59	2.15	2.14	0.27
15,995.00	93.77	1.15	10,992.80	4,896.88	-1,248.59	4,897.32	1.39	-1.09	0.86
16,089.00	92.74	359.42	10,987.46	4,990.72	-1,248.12	4,991.16	2.14	-1.10	-1.84
16,184.00	91.09	0.58	10,984.29	5,085.67	-1,248.12	5,086.10	2.12	-1.74	1.22
16,278.00	91.45	359.09	10,982.20	5,179.64	-1,248.39	5,180.08	1.63	0.38	-1.59
16,372.00	90.92	359.06	10,980.26	5,273.61	-1,249.91	5,274.04	0.56	-0.56	-0.03
16,467.00	91.12	358.90	10,978.57	5,368.58	-1,251.60	5,369.01	0.27	0.21	-0.17
16,561.00	91.75	358.84	10,976.22	5,462.53	-1,253.46	5,462.97	0.67	0.67	-0.06
16,656.00	90.25	359.66	10,974.56	5,557.50	-1,254.70	5,557.94	1.80	-1.58	0.86
16,750.00	91.06	359.61	10,973.48	5,651.49	-1,255.30	5,651.93	0.86	0.86	-0.05
16,845.00	91.72	358.98	10,971.18	5,746.46	-1,256.47	5,746.90	0.96	0.69	-0.66
16,939.00	92.32	358.23	10,967.86	5,840.37	-1,258.75	5,840.81	1.02	0.64	-0.80
17,034.00	90.70	358.67	10,965.36	5,935.30	-1,261.32	5,935.74	1.77	-1.71	0.46



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3523.50usft (H&P 296)
Site:	Raider Federal Com	MD Reference:	RKB @ 3523.50usft (H&P 296)
Well:	502H	North Reference:	True
Wellbore:	OH / 67469	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 296)	Database:	USA Compass

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)
17,128.00	92.14	358.75	10,963.03	6,029.24	-1,263.44	6,029.68	1.53	1.53	0.09
17,223.00	91.06	359.77	10,960.38	6,124.20	-1,264.66	6,124.64	1.56	-1.14	1.07
17,317.00	91.46	359.78	10,958.31	6,218.17	-1,265.03	6,218.61	0.43	0.43	0.01
17,411.00	91.22	359.47	10,956.11	6,312.14	-1,265.65	6,312.59	0.42	-0.26	-0.33
17,506.00	90.81	358.67	10,954.43	6,407.12	-1,267.19	6,407.56	0.95	-0.43	-0.84
17,600.00	92.13	358.34	10,952.02	6,501.05	-1,269.64	6,501.49	1.45	1.40	-0.35
17,694.00	94.02	359.59	10,946.98	6,594.89	-1,271.34	6,595.34	2.41	2.01	1.33
17,789.00	95.50	0.40	10,939.09	6,689.56	-1,271.35	6,690.01	1.77	1.56	0.85
17,883.00	91.66	359.67	10,933.23	6,783.36	-1,271.29	6,783.81	4.16	-4.09	-0.78
17,978.00	91.50	359.66	10,930.61	6,878.32	-1,271.85	6,878.77	0.17	-0.17	-0.01
18,073.00	92.63	359.61	10,927.18	6,973.26	-1,272.45	6,973.70	1.19	1.19	-0.05
18,168.00	92.81	358.64	10,922.68	7,068.14	-1,273.90	7,068.58	1.04	0.19	-1.02
18,262.00	92.90	359.50	10,917.99	7,162.01	-1,275.42	7,162.45	0.92	0.10	0.91
18,357.00	93.17	359.88	10,912.96	7,256.87	-1,275.94	7,257.32	0.49	0.28	0.40
18,451.00	93.08	0.02	10,907.84	7,350.73	-1,276.02	7,351.18	0.18	-0.10	0.15
18,546.00	92.40	359.93	10,903.30	7,445.63	-1,276.06	7,446.07	0.72	-0.72	-0.09
18,640.00	91.35	359.44	10,900.22	7,539.57	-1,276.58	7,540.02	1.23	-1.12	-0.52
18,735.00	91.32	359.27	10,898.01	7,634.54	-1,277.65	7,634.99	0.18	-0.03	-0.18
18,829.00	91.26	358.70	10,895.89	7,728.50	-1,279.31	7,728.95	0.61	-0.06	-0.61
18,924.00	91.35	357.56	10,893.73	7,823.42	-1,282.41	7,823.87	1.20	0.09	-1.20
19,018.00	92.74	357.40	10,890.37	7,917.27	-1,286.54	7,917.72	1.49	1.48	-0.17
19,113.00	92.81	358.96	10,885.77	8,012.11	-1,289.55	8,012.56	1.64	0.07	1.64
19,207.00	92.88	359.66	10,881.11	8,105.99	-1,290.68	8,106.44	0.75	0.07	0.74
19,302.00	92.41	0.77	10,876.72	8,200.88	-1,290.33	8,201.33	1.27	-0.49	1.17
19,397.00	92.57	0.38	10,872.60	8,295.79	-1,289.37	8,296.24	0.44	0.17	-0.41
19,491.00	92.41	359.78	10,868.51	8,389.70	-1,289.24	8,390.15	0.66	-0.17	-0.64
19,586.00	92.92	358.97	10,864.10	8,484.59	-1,290.28	8,485.04	1.01	0.54	-0.85
19,680.00	92.86	0.02	10,859.36	8,578.46	-1,291.11	8,578.91	1.12	-0.06	1.12
19,775.00	93.80	0.05	10,853.84	8,673.30	-1,291.05	8,673.75	0.99	0.99	0.03
19,869.00	92.07	0.20	10,849.03	8,767.18	-1,290.84	8,767.63	1.85	-1.84	0.16
19,964.00	90.64	0.88	10,846.78	8,862.14	-1,289.95	8,862.59	1.67	-1.51	0.72
20,058.00	92.23	0.72	10,844.43	8,956.10	-1,288.64	8,956.55	1.70	1.69	-0.17
20,152.00	90.45	359.65	10,842.23	9,050.07	-1,288.33	9,050.52	2.21	-1.89	-1.14
20,247.00	89.81	0.85	10,842.01	9,145.07	-1,287.92	9,145.51	1.43	-0.67	1.26
20,341.00	90.04	1.12	10,842.13	9,239.05	-1,286.30	9,239.50	0.38	0.24	0.29
20,435.00	89.90	1.06	10,842.18	9,333.03	-1,284.51	9,333.48	0.16	-0.15	-0.06
20,530.00	91.78	1.41	10,840.79	9,428.00	-1,282.47	9,428.45	2.01	1.98	0.37
20,624.00	92.78	1.69	10,837.05	9,521.89	-1,279.93	9,522.33	1.10	1.06	0.30
20,719.00	93.71	1.43	10,831.67	9,616.70	-1,277.34	9,617.14	1.02	0.98	-0.27
20,813.00	94.46	1.06	10,824.98	9,710.44	-1,275.31	9,710.88	0.89	0.80	-0.39
20,908.00	95.04	0.43	10,817.11	9,805.10	-1,274.08	9,805.55	0.90	0.61	-0.66
21,002.00	96.35	359.74	10,807.78	9,898.64	-1,273.94	9,899.08	1.57	1.39	-0.73
21,097.00	94.05	1.52	10,799.17	9,993.23	-1,272.89	9,993.67	3.06	-2.42	1.87



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3523.50usft (H&P 296)
Site:	Raider Federal Com	MD Reference:	RKB @ 3523.50usft (H&P 296)
Well:	502H	North Reference:	True
Wellbore:	OH / 67469	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 296)	Database:	USA Compass

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)	
21,191.00	94.47	2.65	10,792.19	10,086.91	-1,269.48	10,087.35	1.28	0.45	1.20	
21,201.00	94.71	2.35	10,791.39	10,096.86	-1,269.05	10,097.31	3.83	2.40	-3.00	
Final Phoenix MWD Survey										
21,259.00	94.71	2.35	10,786.63	10,154.62	-1,266.68	10,155.06	0.00	0.00	0.00	
Projection to TD										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
21,259.00	10,786.63	20" Casing	20	24	

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
129.00	129.00	-0.10	0.71	First Phoenix MWD Survey	
21,201.00	10,791.39	10,096.86	-1,269.05	Final Phoenix MWD Survey	
21,259.00	10,786.63	10,154.62	-1,266.68	Projection to TD	

District I

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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

ACKNOWLEDGMENTS

Action 25979

ACKNOWLEDGMENTS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 25979
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☐	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☐	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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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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

CONDITIONS

Action 25979

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 25979
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Submit all drilling, casing, and completion sundries and reports.	7/16/2021