

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 NW 3/15/21
⁴ API Number 30 - 0 25-47959	⁵ Pool Name Grama Ridge; Bone Spring, NE	⁶ Pool Code 28435
⁷ Property Code 322870	⁸ Property Name Chorizo 12 State Com	⁹ Well Number 502H

II. ¹⁰ Surface Location

UL or lot no. E	Section 36	Township 21S	Range 34E	Lot Idn	Feet from the 2467	North/South Line North	Feet from the 915	East/West line West	County Lea
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¹¹ Bottom Hole Location

UL or lot no. E	Section 12	Township 22S	Range 34E	Lot Idn	Feet from the 2526	North/South line North	Feet from the 1335	East/West line West	County Lea
¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 3/15/21	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
372603	3 Bear Field Services, LLC	G/O
	Oryx Delaware Oil Gathering NM, LLC	O

IV. Well Completion Data

²¹ Spud Date 12/1/20	²² Ready Date 3/15/21	²³ TD 20,308MD/10,212TVD	²⁴ PBTD 20,261	²⁵ Perforations 10,368 - 17,763	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17-1/2		13-3/8	1871		1540
12-1/4		9-5/8	5605		1180
8-3/4 , 8-1/2		5-1/2	20,298		2650
Request Tubing & Production Data Extension					

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 Schlichting			Approved by: KURT SIMMONS		
Title: Sr. Regulatory Analyst			Title: NMOCD, SANTA FE		
E-mail Address: kanicia.schlichting@cdevinc.com			Approval Date: 07/21/2021		
Date: 5/14/21		Phone: 720-499-1537			

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		³ Reason for Filing Code/ Effective Date NW 3/15/21	
⁴ API Number 30 - 0 25-47959	⁵ Pool Name Ojo Chiso; Bone Spring		⁶ Pool Code 96553
⁷ Property Code 322870	⁸ Property Name Chorizo 12 State Com		⁹ Well Number 502H

II. ¹⁰ Surface Location

UL or lot no. E	Section 36	Township 21S	Range 34E	Lot Idn	Feet from the 2467	North/South Line North	Feet from the 915	East/West line West	County Lea
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¹¹ Bottom Hole Location

UL or lot no. E	Section 12	Township 22S	Range 34E	Lot Idn	Feet from the 2526	North/South line North	Feet from the 1335	East/West line West	County Lea
¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 3/15/21	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

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¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
372603	3 Bear Field Services, LLC	G/O
	Oryx Delaware Oil Gathering NM, LLC	O

IV. Well Completion Data

²¹ Spud Date 12/1/20	²² Ready Date 3/15/21	²³ TD 20,308MD/10,212TVD	²⁴ PBTD 20,261	²⁵ Perforations 17,783 - 20,257	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17-1/2		13-3/8	1871		1540
12-1/4		9-5/8	5605		1180
8-3/4 , 8-1/2		5-1/2	20,298		2650
Request Tubing & Test Data Extension					

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 Schlichting			Approved by: KURT SIMMONS		
Title: Sr. Regulatory Analyst			Title: NMOCD, SANTA FE		
E-mail Address: kanicia.schlichting@cdevinc.com			Approval Date: 07/21/2021		
Date: 5/14/21		Phone: 720-499-1537			

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47959	² Pool Code 28435	³ Pool Name Ojo Chiso; Bone Spring
⁴ Property Code 322870	⁵ Property Name CHORIZO 12 STATE COM	⁶ Well Number 502H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3670.3'

¹⁰Surface Location

UL or lot no. E	Section 36	Township 21S	Range 34E	Lot Idn	Feet from the 2467	North/South line NORTH	Feet from the 915	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. F	Section 12	Township 22S	Range 34E	Lot Idn	Feet from the 2526	North/South line NORTH	Feet from the 1335	East/West line WEST	County LEA
¹² Dedicated Acres 484.91		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.

16

NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°26'09.44" (32.435956°)	
LONGITUDE = 103°25'44.84" (103.429123°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 523512.53' X: 820302.52'	
UTM, NAD 83 (ZONE 13)	
Y: 11777685.68' X: 2124927.80'	

NAD 83 (AS-DRILLED FTP)	
LATITUDE = 32°26'01.68" (32.433800°)	
LONGITUDE = 103°25'39.45" (103.427624°)	
STATE PLANE NAD 83 (NM EAST)	
Y: 522732.11' X: 820771.51'	
UTM, NAD 83 (ZONE 13)	
Y: 11776908.30' X: 2125401.59'	

NAD 83 (AS-DRILLED LTP)	
LATITUDE = 32°24'24.02" (32.406673°)	
LONGITUDE = 103°25'40.15" (103.427820°)	
STATE PLANE NAD 83 (NM EAST)	
Y: 512862.38' X: 820794.69'	
UTM, NAD 83 (ZONE 13)	
Y: 11767040.19' X: 2125486.36'	

NAD 83 (AS-DRILLED BHL)	
LATITUDE = 32°24'23.52" (32.406533°)	
LONGITUDE = 103°25'40.13" (103.427815°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 512811.46' X: 820796.78'	
UTM, NAD 83 (ZONE 13)	
Y: 11766989.29' X: 2125488.76'	

As-Drilled LTP
10,654' SOUTH OF WELL
447' EAST OF WELL
M.D. 20,257'
Inclination 92.2

As-Drilled BHL
10,705' SOUTH OF WELL
449' EAST OF WELL
M.D. 20,308'
Inclination 92.2

Detail "A"
No Scale

SCALE

DRAWN BY: D.J.S. 03-08-21

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83).
- Well Bore data provided by Centennial Resource Production, LLC.
- As-Drilled well head has not been field verified.

- = SURFACE HOLE LOCATION
- ◆ = AS-DRILLED TAKE POINT
- = AS-DRILLED BOTTOM
- = AS-DRILLED BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED

APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP

SECTION 36	2,039.30'
SECTION 1	5,368.04'
SECTION 12	2,476.12'
TOTAL	9,883.46'

See Detail "A"

AS-DRILLED LTP & BHL

17 OPERATOR
CERTIFICATION

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

Signature

Date

Kania Schlichting

Printed Name

kanicia.schlichting@cdevinc.com

E-mail Address

18 SURVEYOR
CERTIFICATION

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

AUGUST 31, 2020

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

¹ API Number 30-025-47959	² Pool Code 96553	³ Pool Name Ojo Chiso; Bone Spring
⁴ Property Code 322870	⁵ Property Name CHORIZO 12 STATE COM	⁶ Well Number 502H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3670.3'

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¹² Dedicated Acres 160		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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SCALE

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● = SURFACE HOLE LOCATION

◆ = AS-DRILLED TAKE POINT

○ = AS-DRILLED BOTTOM

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▲ = SECTION CORNER LOCATED

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K. Schlichting **3/17/21**

Signature Date

Kanicia Schlichting

Printed Name

kanicia.schlichting@cdevinc.com

E-mail Address

18 SURVEYOR CERTIFICATION

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

AUGUST 31, 2020

Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE

NEW MEXICO

23782

03-08-21

PROFESSIONAL SURVEYOR

Certificate Number:



Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - UTM Zone 13)
Chorizo 12 State Com
502H**

OH / 67177

Design: Surveys (H&P 489)

Standard Survey Report

13 January, 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 @ 3696.30usft (H&P 489)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3696.30usft (H&P 489)
Well:	502H	North Reference:	True
Wellbore:	OH / 67177	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 489)	Database:	USA Compass

Project	Lea County, NM (NAD83 - UTM Zone 13)		
Map System:	Universal Transverse Mercator (US Survey Fee	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	Chorizo 12 State Com		
Site Position:		Northing:	11,776,359.14 usft
From:	Map	Easting:	2,125,745.97 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 25' 56.195697 N
		Longitude:	103° 25' 35.524351 W
		Grid Convergence:	0.84 °

Well	502H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	1.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH / 67177		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	1/15/2021	6.49
			Dip Angle (°)
			60.17
			Field Strength (nT)
			47,907.64192363

Design	Surveys (H&P 489)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	1,884.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			0.00

Survey Program	Date	1/13/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
180.00	1,884.00	Invictus MWD Surveys (OH / Surface)	MWD	OWSG MWD - Standard
1,984.00	20,308.00	Phoenix MWD Surveys (OH / 67177)	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
180.00	0.90	49.57	179.99	0.92	1.08	0.92	0.50	0.50	0.00
238.00	0.60	192.57	237.99	0.92	1.36	0.92	2.46	-0.52	246.55
332.00	0.20	166.57	331.99	0.28	1.29	0.28	0.46	-0.43	-27.66
364.00	0.50	269.57	363.99	0.22	1.16	0.22	1.81	0.94	321.88
395.00	0.50	242.57	394.99	0.16	0.91	0.16	0.75	0.00	-87.10
427.00	0.30	191.57	426.99	0.01	0.77	0.01	1.22	-0.63	-159.38
458.00	0.50	287.57	457.99	-0.03	0.62	-0.03	1.97	0.65	309.68
489.00	0.50	272.57	488.98	0.02	0.36	0.02	0.42	0.00	-48.39
521.00	0.00	4.57	520.98	0.03	0.22	0.03	1.56	-1.56	0.00



Survey Report



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Well:	502H	North Reference:	True
Wellbore:	OH / 67177	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 489)	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)
552.00	0.40	187.57	551.98	-0.08	0.20	-0.08	1.29	1.29	0.00
584.00	0.20	299.57	583.98	-0.17	0.14	-0.17	1.59	-0.63	350.00
647.00	0.40	234.57	646.98	-0.24	-0.14	-0.24	0.58	0.32	-103.17
678.00	0.40	156.57	677.98	-0.40	-0.18	-0.40	1.62	0.00	-251.61
710.00	0.50	205.57	709.98	-0.63	-0.20	-0.63	1.20	0.31	153.13
741.00	0.30	154.57	740.98	-0.82	-0.22	-0.82	1.25	-0.65	-164.52
772.00	0.40	168.57	771.98	-1.00	-0.16	-1.00	0.42	0.32	45.16
804.00	0.20	254.57	803.98	-1.13	-0.20	-1.13	1.36	-0.63	268.75
835.00	0.60	229.57	834.98	-1.25	-0.37	-1.25	1.38	1.29	-80.65
867.00	0.10	223.57	866.98	-1.38	-0.52	-1.38	1.56	-1.56	-18.75
898.00	0.10	341.57	897.98	-1.37	-0.55	-1.37	0.55	0.00	380.65
930.00	0.40	177.57	929.98	-1.46	-0.55	-1.46	1.55	0.94	-512.50
961.00	0.00	129.57	960.98	-1.56	-0.55	-1.56	1.29	-1.29	0.00
993.00	0.30	170.57	992.98	-1.65	-0.53	-1.65	0.94	0.94	0.00
1,024.00	0.90	187.57	1,023.98	-1.97	-0.55	-1.97	2.00	1.94	54.84
1,056.00	0.60	175.57	1,055.97	-2.38	-0.57	-2.38	1.05	-0.94	-37.50
1,087.00	0.90	161.57	1,086.97	-2.78	-0.48	-2.78	1.13	0.97	-45.16
1,150.00	0.70	142.57	1,149.96	-3.55	-0.09	-3.55	0.52	-0.32	-30.16
1,181.00	0.90	130.57	1,180.96	-3.86	0.21	-3.86	0.84	0.65	-38.71
1,276.00	0.70	158.57	1,275.95	-4.89	0.99	-4.89	0.46	-0.21	29.47
1,370.00	0.70	139.57	1,369.95	-5.86	1.57	-5.86	0.25	0.00	-20.21
1,402.00	1.10	154.57	1,401.94	-6.28	1.83	-6.28	1.44	1.25	46.88
1,465.00	0.70	152.57	1,464.93	-7.17	2.27	-7.17	0.64	-0.63	-3.17
1,559.00	0.90	170.57	1,558.92	-8.41	2.65	-8.41	0.34	0.21	19.15
1,711.00	0.30	191.57	1,710.92	-9.98	2.77	-9.98	0.41	-0.39	13.82
1,805.00	0.70	126.57	1,804.91	-10.56	3.18	-10.56	0.67	0.43	-69.15
1,837.00	0.80	171.57	1,836.91	-10.90	3.37	-10.90	1.82	0.31	140.63
1,868.00	0.40	78.57	1,867.91	-11.09	3.51	-11.09	2.95	-1.29	-300.00
1,884.00	0.80	96.57	1,883.91	-11.09	3.67	-11.09	2.73	2.50	112.50
Tie In									
1,984.00	1.60	76.64	1,983.89	-10.85	5.72	-10.85	0.89	0.80	-19.93
First Phoenix MWD Survey									
2,079.00	3.05	95.67	2,078.81	-10.79	9.53	-10.79	1.71	1.53	20.03
2,173.00	3.81	92.06	2,172.64	-11.15	15.14	-11.15	0.84	0.81	-3.84
2,268.00	4.31	91.04	2,267.40	-11.33	21.86	-11.33	0.53	0.53	-1.07
2,363.00	4.93	86.40	2,362.09	-11.14	29.51	-11.14	0.76	0.65	-4.88
2,458.00	6.26	85.43	2,456.63	-10.47	38.74	-10.47	1.40	1.40	-1.02
2,552.00	6.98	86.96	2,550.01	-9.76	49.56	-9.76	0.79	0.77	1.63
2,647.00	6.71	86.76	2,644.33	-9.14	60.86	-9.14	0.29	-0.28	-0.21
2,741.00	6.94	90.17	2,737.66	-8.84	72.02	-8.84	0.50	0.24	3.63
2,930.00	8.68	98.32	2,924.91	-10.94	97.56	-10.94	1.09	0.92	4.31
3,025.00	9.69	104.56	3,018.69	-13.99	112.39	-13.99	1.49	1.06	6.57
3,120.00	10.80	110.49	3,112.18	-19.12	128.46	-19.12	1.61	1.17	6.24



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3696.30usft (H&P 489)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3696.30usft (H&P 489)
Well:	502H	North Reference:	True
Wellbore:	OH / 67177	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 489)	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)
3,215.00	11.50	117.49	3,205.39	-26.60	145.20	-26.60	1.60	0.74	7.37
3,310.00	11.57	120.85	3,298.47	-35.86	161.78	-35.86	0.71	0.07	3.54
3,404.00	11.52	118.34	3,390.57	-45.15	178.14	-45.15	0.54	-0.05	-2.67
3,499.00	11.86	118.01	3,483.60	-54.24	195.11	-54.24	0.36	0.36	-0.35
3,595.00	12.13	116.62	3,577.50	-63.39	212.83	-63.39	0.41	0.28	-1.45
3,689.00	12.16	116.62	3,669.40	-72.25	230.51	-72.25	0.03	0.03	0.00
3,784.00	11.56	115.34	3,762.37	-80.81	248.06	-80.81	0.69	-0.63	-1.35
3,879.00	10.72	119.62	3,855.58	-89.25	264.35	-89.25	1.24	-0.88	4.51
3,974.00	10.10	120.94	3,949.02	-97.90	279.17	-97.90	0.70	-0.65	1.39
4,069.00	9.45	118.74	4,042.64	-105.93	293.15	-105.93	0.79	-0.68	-2.32
4,164.00	8.84	118.98	4,136.43	-113.22	306.38	-113.22	0.64	-0.64	0.25
4,259.00	8.49	117.58	4,230.35	-120.00	318.98	-120.00	0.43	-0.37	-1.47
4,353.00	7.86	117.03	4,323.39	-126.14	330.85	-126.14	0.68	-0.67	-0.59
4,448.00	7.55	116.26	4,417.53	-131.85	342.24	-131.85	0.34	-0.33	-0.81
4,543.00	7.54	116.84	4,511.71	-137.42	353.40	-137.42	0.08	-0.01	0.61
4,641.00	6.97	126.69	4,608.93	-143.88	363.90	-143.88	1.39	-0.58	10.05
4,736.00	7.57	150.00	4,703.19	-152.75	371.65	-152.75	3.15	0.63	24.54
4,831.00	8.83	152.17	4,797.21	-164.61	378.19	-164.61	1.37	1.33	2.28
4,926.00	8.53	156.21	4,891.13	-177.51	384.43	-177.51	0.72	-0.32	4.25
5,020.00	9.33	150.25	4,983.99	-190.50	391.03	-190.50	1.30	0.85	-6.34
5,115.00	10.11	142.94	5,077.63	-203.84	399.87	-203.84	1.54	0.82	-7.69
5,209.00	10.57	143.11	5,170.10	-217.32	410.02	-217.32	0.49	0.49	0.18
5,304.00	10.30	139.97	5,263.53	-230.79	420.71	-230.79	0.66	-0.28	-3.31
5,399.00	10.93	136.43	5,356.90	-243.82	432.39	-243.82	0.95	0.66	-3.73
5,494.00	11.93	135.49	5,450.02	-257.35	445.48	-257.35	1.07	1.05	-0.99
5,561.00	12.44	134.01	5,515.51	-267.30	455.52	-267.30	0.89	0.76	-2.21
5,678.00	10.37	145.49	5,630.21	-284.74	470.55	-284.74	2.62	-1.77	9.81
5,773.00	8.68	121.64	5,723.93	-295.55	481.51	-295.55	4.48	-1.78	-25.11
5,868.00	7.81	119.37	5,817.95	-302.48	493.23	-302.48	0.98	-0.92	-2.39
5,963.00	7.59	118.21	5,912.09	-308.61	504.39	-308.61	0.28	-0.23	-1.22
6,058.00	3.49	116.98	6,006.63	-312.89	512.50	-312.89	4.32	-4.32	-1.29
6,152.00	2.60	114.64	6,100.49	-315.08	516.99	-315.08	0.96	-0.95	-2.49
6,247.00	0.70	94.71	6,195.45	-316.02	519.52	-316.02	2.06	-2.00	-20.98
6,341.00	0.84	36.07	6,289.44	-315.51	520.50	-315.51	0.81	0.15	-62.38
6,436.00	0.73	50.13	6,384.44	-314.56	521.38	-314.56	0.23	-0.12	14.80
6,530.00	0.72	50.30	6,478.43	-313.80	522.29	-313.80	0.01	-0.01	0.18
6,625.00	0.87	48.55	6,573.42	-312.94	523.29	-312.94	0.16	0.16	-1.84
6,720.00	0.89	50.05	6,668.41	-311.99	524.40	-311.99	0.03	0.02	1.58
6,815.00	0.93	59.10	6,763.40	-311.12	525.62	-311.12	0.16	0.04	9.53
6,909.00	0.83	59.79	6,857.38	-310.39	526.87	-310.39	0.11	-0.11	0.73
7,005.00	0.60	55.54	6,953.38	-309.75	527.88	-309.75	0.25	-0.24	-4.43
7,100.00	0.58	63.25	7,048.37	-309.25	528.72	-309.25	0.09	-0.02	8.12
7,194.00	0.61	78.87	7,142.37	-308.94	529.64	-308.94	0.17	0.03	16.62
7,289.00	0.74	85.04	7,237.36	-308.79	530.74	-308.79	0.16	0.14	6.49



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3696.30usft (H&P 489)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3696.30usft (H&P 489)
Well:	502H	North Reference:	True
Wellbore:	OH / 67177	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 489)	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)
7,384.00	0.83	92.27	7,332.35	-308.77	532.04	-308.77	0.14	0.09	7.61
7,479.00	0.76	94.38	7,427.34	-308.84	533.36	-308.84	0.08	-0.07	2.22
7,574.00	0.57	76.32	7,522.34	-308.78	534.45	-308.78	0.30	-0.20	-19.01
7,669.00	0.51	70.77	7,617.33	-308.53	535.30	-308.53	0.08	-0.06	-5.84
7,764.00	0.49	62.34	7,712.33	-308.20	536.06	-308.20	0.08	-0.02	-8.87
7,858.00	0.52	67.65	7,806.32	-307.85	536.81	-307.85	0.06	0.03	5.65
7,953.00	0.54	63.27	7,901.32	-307.49	537.61	-307.49	0.05	0.02	-4.61
8,048.00	0.61	60.77	7,996.32	-307.04	538.45	-307.04	0.08	0.07	-2.63
8,143.00	0.71	62.81	8,091.31	-306.52	539.42	-306.52	0.11	0.11	2.15
8,238.00	0.68	63.67	8,186.30	-306.00	540.45	-306.00	0.03	-0.03	0.91
8,332.00	0.67	68.52	8,280.30	-305.55	541.46	-305.55	0.06	-0.01	5.16
8,427.00	0.76	78.91	8,375.29	-305.23	542.59	-305.23	0.17	0.09	10.94
8,522.00	0.78	68.45	8,470.28	-304.87	543.81	-304.87	0.15	0.02	-11.01
8,617.00	0.73	59.98	8,565.27	-304.33	544.94	-304.33	0.13	-0.05	-8.92
8,712.00	0.64	31.61	8,660.27	-303.58	545.74	-303.58	0.37	-0.09	-29.86
8,806.00	0.52	13.98	8,754.26	-302.72	546.12	-302.72	0.23	-0.13	-18.76
8,901.00	1.30	344.76	8,849.25	-301.26	545.94	-301.26	0.93	0.82	-30.76
8,996.00	2.12	334.15	8,944.21	-298.64	544.89	-298.64	0.92	0.86	-11.17
9,091.00	1.85	329.46	9,039.15	-295.73	543.34	-295.73	0.33	-0.28	-4.94
9,185.00	1.75	341.74	9,133.10	-293.06	542.12	-293.06	0.42	-0.11	13.06
9,280.00	2.21	348.78	9,228.05	-289.89	541.31	-289.89	0.55	0.48	7.41
9,375.00	2.44	355.25	9,322.97	-286.08	540.79	-286.08	0.37	0.24	6.81
9,470.00	3.03	358.90	9,417.86	-281.55	540.57	-281.55	0.65	0.62	3.84
9,494.00	3.10	0.07	9,441.82	-280.27	540.56	-280.27	0.39	0.29	4.88
9,589.00	4.22	201.29	9,536.75	-280.96	539.29	-280.96	7.58	1.18	-167.14
9,684.00	18.27	190.12	9,629.70	-298.97	535.39	-298.97	14.90	14.79	-11.76
9,779.00	27.90	191.28	9,716.99	-335.51	528.41	-335.51	10.15	10.14	1.22
9,873.00	33.96	186.53	9,797.60	-383.21	521.11	-383.21	6.95	6.45	-5.05
9,968.00	43.86	183.88	9,871.43	-442.56	515.85	-442.56	10.57	10.42	-2.79
10,063.00	55.00	188.44	9,933.14	-514.14	507.89	-514.14	12.27	11.73	4.80
10,158.00	60.27	188.98	9,983.98	-593.42	495.73	-593.42	5.57	5.55	0.57
10,253.00	65.41	188.76	10,027.33	-676.91	482.71	-676.91	5.41	5.41	-0.23
10,348.00	76.62	191.56	10,058.19	-765.17	466.81	-765.17	12.12	11.80	2.95
10,443.00	84.26	194.54	10,073.96	-856.35	445.65	-856.35	8.62	8.04	3.14
10,537.00	84.33	186.46	10,083.32	-948.24	428.62	-948.24	8.55	0.07	-8.60
10,632.00	83.65	184.47	10,093.27	-1,042.28	419.62	-1,042.28	2.20	-0.72	-2.09
10,727.00	89.30	181.10	10,099.11	-1,136.94	415.03	-1,136.94	6.92	5.95	-3.55
10,821.00	92.07	179.16	10,097.98	-1,230.91	414.81	-1,230.91	3.60	2.95	-2.06
10,916.00	90.01	177.82	10,096.26	-1,325.86	417.32	-1,325.86	2.59	-2.17	-1.41
11,011.00	88.79	175.39	10,097.26	-1,420.68	422.94	-1,420.68	2.86	-1.28	-2.56
11,106.00	88.11	179.32	10,099.83	-1,515.52	427.32	-1,515.52	4.20	-0.72	4.14
11,150.00	88.33	179.63	10,101.19	-1,559.50	427.73	-1,559.50	0.86	0.50	0.70
11,245.00	88.42	179.71	10,103.89	-1,654.46	428.27	-1,654.46	0.13	0.09	0.08



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3696.30usft (H&P 489)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3696.30usft (H&P 489)
Well:	502H	North Reference:	True
Wellbore:	OH / 67177	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 489)	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)
11,339.00	88.11	179.36	10,106.73	-1,748.41	429.04	-1,748.41	0.50	-0.33	-0.37
11,434.00	87.28	179.15	10,110.55	-1,843.33	430.27	-1,843.33	0.90	-0.87	-0.22
11,529.00	86.20	179.25	10,115.96	-1,938.16	431.59	-1,938.16	1.14	-1.14	0.11
11,624.00	87.76	178.42	10,120.96	-2,033.01	433.52	-2,033.01	1.86	1.64	-0.87
11,719.00	89.47	176.50	10,123.26	-2,127.88	437.73	-2,127.88	2.71	1.80	-2.02
11,813.00	90.55	174.56	10,123.24	-2,221.59	445.06	-2,221.59	2.36	1.15	-2.06
11,908.00	88.61	173.39	10,123.94	-2,316.05	455.03	-2,316.05	2.38	-2.04	-1.23
12,003.00	86.71	175.67	10,127.82	-2,410.53	464.08	-2,410.53	3.12	-2.00	2.40
12,098.00	84.82	178.51	10,134.83	-2,505.14	468.89	-2,505.14	3.58	-1.99	2.99
12,192.00	84.99	181.05	10,143.18	-2,598.76	469.25	-2,598.76	2.70	0.18	2.70
12,287.00	86.83	183.94	10,149.96	-2,693.41	465.12	-2,693.41	3.60	1.94	3.04
12,382.00	89.14	184.39	10,153.30	-2,788.09	458.23	-2,788.09	2.48	2.43	0.47
12,477.00	89.14	181.09	10,154.72	-2,882.96	453.69	-2,882.96	3.47	0.00	-3.47
12,572.00	88.37	180.98	10,156.79	-2,977.92	451.97	-2,977.92	0.82	-0.81	-0.12
12,666.00	88.57	182.54	10,159.30	-3,071.84	449.08	-3,071.84	1.67	0.21	1.66
12,761.00	88.45	183.33	10,161.77	-3,166.68	444.22	-3,166.68	0.84	-0.13	0.83
12,856.00	88.85	184.24	10,164.01	-3,261.45	437.95	-3,261.45	1.05	0.42	0.96
12,950.00	89.04	185.10	10,165.74	-3,355.12	430.30	-3,355.12	0.94	0.20	0.91
13,045.00	89.04	185.91	10,167.33	-3,449.67	421.19	-3,449.67	0.85	0.00	0.85
13,140.00	89.39	186.01	10,168.63	-3,544.15	411.32	-3,544.15	0.38	0.37	0.11
13,234.00	89.33	185.64	10,169.68	-3,637.65	401.79	-3,637.65	0.40	-0.06	-0.39
13,329.00	89.45	184.53	10,170.69	-3,732.27	393.37	-3,732.27	1.18	0.13	-1.17
13,424.00	90.56	181.38	10,170.68	-3,827.13	388.47	-3,827.13	3.52	1.17	-3.32
13,518.00	91.60	178.68	10,168.91	-3,921.11	388.42	-3,921.11	3.08	1.11	-2.87
13,613.00	89.68	176.84	10,167.85	-4,016.02	392.13	-4,016.02	2.80	-2.02	-1.94
13,708.00	88.53	178.93	10,169.34	-4,110.94	395.64	-4,110.94	2.51	-1.21	2.20
13,803.00	87.40	181.59	10,172.71	-4,205.87	395.21	-4,205.87	3.04	-1.19	2.80
13,898.00	87.50	184.17	10,176.94	-4,300.64	390.44	-4,300.64	2.72	0.11	2.72
13,993.00	90.32	184.62	10,178.74	-4,395.34	383.16	-4,395.34	3.01	2.97	0.47
14,088.00	90.29	180.92	10,178.24	-4,490.21	378.57	-4,490.21	3.89	-0.03	-3.89
14,183.00	88.67	177.78	10,179.10	-4,585.18	379.65	-4,585.18	3.72	-1.71	-3.31
14,277.00	88.34	179.75	10,181.55	-4,679.13	381.67	-4,679.13	2.12	-0.35	2.10
14,372.00	89.68	179.81	10,183.19	-4,774.11	382.04	-4,774.11	1.41	1.41	0.06
14,467.00	90.25	178.72	10,183.25	-4,869.10	383.26	-4,869.10	1.29	0.60	-1.15
14,562.00	90.41	176.34	10,182.71	-4,964.00	387.35	-4,964.00	2.51	0.17	-2.51
14,656.00	89.90	175.27	10,182.45	-5,057.75	394.23	-5,057.75	1.26	-0.54	-1.14
14,751.00	90.58	175.96	10,182.05	-5,152.47	401.49	-5,152.47	1.02	0.72	0.73
14,845.00	91.18	176.29	10,180.61	-5,246.24	407.84	-5,246.24	0.73	0.64	0.35
14,940.00	91.64	177.03	10,178.27	-5,341.05	413.38	-5,341.05	0.92	0.48	0.78
15,034.00	91.81	177.35	10,175.44	-5,434.90	417.98	-5,434.90	0.39	0.18	0.34
15,129.00	92.17	177.93	10,172.14	-5,529.76	421.89	-5,529.76	0.72	0.38	0.61
15,224.00	92.38	178.44	10,168.37	-5,624.63	424.90	-5,624.63	0.58	0.22	0.54
15,319.00	92.30	178.84	10,164.49	-5,719.53	427.15	-5,719.53	0.43	-0.08	0.42



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3696.30usft (H&P 489)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3696.30usft (H&P 489)
Well:	502H	North Reference:	True
Wellbore:	OH / 67177	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 489)	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)	
15,423.00	90.76	180.86	10,161.72	-5,823.48	427.42	-5,823.48	2.44	-1.48	1.94	
15,518.00	91.10	180.44	10,160.17	-5,918.46	426.34	-5,918.46	0.57	0.36	-0.44	
15,613.00	88.31	179.83	10,160.66	-6,013.45	426.12	-6,013.45	3.01	-2.94	-0.64	
15,708.00	88.39	180.08	10,163.40	-6,108.41	426.19	-6,108.41	0.28	0.08	0.26	
15,803.00	88.81	179.85	10,165.72	-6,203.38	426.25	-6,203.38	0.50	0.44	-0.24	
15,897.00	88.96	179.65	10,167.55	-6,297.36	426.66	-6,297.36	0.27	0.16	-0.21	
15,992.00	89.45	179.18	10,168.87	-6,392.35	427.63	-6,392.35	0.71	0.52	-0.49	
16,087.00	89.65	178.99	10,169.61	-6,487.33	429.15	-6,487.33	0.29	0.21	-0.20	
16,182.00	89.99	178.98	10,169.91	-6,582.32	430.83	-6,582.32	0.36	0.36	-0.01	
16,276.00	90.02	178.71	10,169.90	-6,676.30	432.73	-6,676.30	0.29	0.03	-0.29	
16,371.00	90.36	180.33	10,169.59	-6,771.29	433.52	-6,771.29	1.74	0.36	1.71	
16,466.00	90.78	180.54	10,168.64	-6,866.29	432.80	-6,866.29	0.49	0.44	0.22	
16,560.00	91.19	180.27	10,167.03	-6,960.27	432.14	-6,960.27	0.52	0.44	-0.29	
16,655.00	90.19	180.95	10,165.88	-7,055.25	431.13	-7,055.25	1.27	-1.05	0.72	
16,750.00	88.24	181.25	10,167.18	-7,150.22	429.30	-7,150.22	2.08	-2.05	0.32	
16,844.00	88.34	180.95	10,169.99	-7,244.16	427.50	-7,244.16	0.34	0.11	-0.32	
16,939.00	88.45	181.05	10,172.65	-7,339.11	425.84	-7,339.11	0.16	0.12	0.11	
17,034.00	88.70	180.67	10,175.01	-7,434.07	424.42	-7,434.07	0.48	0.26	-0.40	
17,128.00	89.53	180.78	10,176.47	-7,528.05	423.23	-7,528.05	0.89	0.88	0.12	
17,222.00	90.21	180.85	10,176.68	-7,622.04	421.89	-7,622.04	0.73	0.72	0.07	
17,317.00	88.22	180.75	10,177.98	-7,717.02	420.56	-7,717.02	2.10	-2.09	-0.11	
17,412.00	88.06	180.29	10,181.06	-7,811.96	419.70	-7,811.96	0.51	-0.17	-0.48	
17,506.00	88.13	180.08	10,184.19	-7,905.91	419.40	-7,905.91	0.24	0.07	-0.22	
17,601.00	88.08	179.47	10,187.33	-8,000.86	419.77	-8,000.86	0.64	-0.05	-0.64	
17,695.00	88.05	179.20	10,190.50	-8,094.80	420.86	-8,094.80	0.29	-0.03	-0.29	
17,790.00	88.06	178.83	10,193.73	-8,189.73	422.49	-8,189.73	0.39	0.01	-0.39	
17,885.00	88.40	178.62	10,196.66	-8,284.66	424.61	-8,284.66	0.42	0.36	-0.22	
17,980.00	88.50	178.47	10,199.23	-8,379.60	427.02	-8,379.60	0.19	0.11	-0.16	
18,075.00	88.67	178.09	10,201.58	-8,474.52	429.87	-8,474.52	0.44	0.18	-0.40	
18,170.00	90.68	178.13	10,202.12	-8,569.47	433.00	-8,569.47	2.12	2.12	0.04	
18,264.00	91.83	178.63	10,200.06	-8,663.40	435.66	-8,663.40	1.33	1.22	0.53	
18,359.00	92.16	179.26	10,196.75	-8,758.33	437.41	-8,758.33	0.75	0.35	0.66	
18,454.00	91.47	180.77	10,193.74	-8,853.28	437.38	-8,853.28	1.75	-0.73	1.59	
18,549.00	91.64	180.99	10,191.16	-8,948.23	435.92	-8,948.23	0.29	0.18	0.23	
18,643.00	92.06	181.89	10,188.13	-9,042.15	433.56	-9,042.15	1.06	0.45	0.96	
18,738.00	90.53	182.88	10,185.98	-9,137.04	429.61	-9,137.04	1.92	-1.61	1.04	
18,833.00	90.28	183.62	10,185.31	-9,231.89	424.22	-9,231.89	0.82	-0.26	0.78	
18,927.00	88.84	183.24	10,186.03	-9,325.71	418.60	-9,325.71	1.58	-1.53	-0.40	
19,021.00	88.87	182.91	10,187.91	-9,419.56	413.56	-9,419.56	0.35	0.03	-0.35	
19,115.00	89.04	182.39	10,189.62	-9,513.44	409.21	-9,513.44	0.58	0.18	-0.55	
19,210.00	87.05	181.74	10,192.87	-9,608.32	405.79	-9,608.32	2.20	-2.09	-0.68	
19,305.00	86.51	182.14	10,198.20	-9,703.11	402.58	-9,703.11	0.71	-0.57	0.42	
19,400.00	85.60	181.94	10,204.74	-9,797.83	399.21	-9,797.83	0.98	-0.96	-0.21	
19,495.00	85.91	181.16	10,211.77	-9,892.53	396.65	-9,892.53	0.88	0.33	-0.82	



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3696.30usft (H&P 489)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3696.30usft (H&P 489)
Well:	502H	North Reference:	True
Wellbore:	OH / 67177	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 489)	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)
19,590.00	87.16	181.15	10,217.51	-9,987.34	394.73	-9,987.34	1.32	1.32	-0.01
19,684.00	89.11	180.91	10,220.57	-10,081.27	393.05	-10,081.27	2.09	2.07	-0.26
19,779.00	89.93	180.14	10,221.37	-10,176.26	392.18	-10,176.26	1.18	0.86	-0.81
19,874.00	89.99	179.79	10,221.43	-10,271.26	392.23	-10,271.26	0.37	0.06	-0.37
19,969.00	90.88	179.47	10,220.71	-10,366.25	392.85	-10,366.25	1.00	0.94	-0.34
20,064.00	91.53	178.81	10,218.71	-10,461.22	394.27	-10,461.22	0.97	0.68	-0.69
20,158.00	91.98	176.87	10,215.83	-10,555.10	397.81	-10,555.10	2.12	0.48	-2.06
20,243.00	92.16	178.14	10,212.76	-10,639.97	401.51	-10,639.97	1.51	0.21	1.49
Final Phoenix MWD Survey									
20,308.00	92.16	178.14	10,210.31	-10,704.89	403.62	-10,704.89	0.00	0.00	0.00
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,884.00	1,883.91	-11.09	3.67	Tie In
1,984.00	1,983.89	-10.85	5.72	First Phoenix MWD Survey
20,243.00	10,212.76	-10,639.97	401.51	Final Phoenix MWD Survey
20,308.00	10,210.31	-10,704.89	403.62	Projection to TD

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 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

ACKNOWLEDGMENTS

Action 28278

ACKNOWLEDGMENTS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 28278
	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.

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CONDITIONS

Action 28278

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 28278
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CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	7/21/2021