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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 298558

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

1. Operator Name and Address	2. OGRID Number
CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	372165
	3. API Number 30-025-49223

4. Property Code	5. Property Name	6. Well No.
331224	BRIDGE STATE UNIT 29	502H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	29	22S	35E	M	318	S	610	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	20	22S	35E	C	100	N	1610	W	Lea

9. Pool Information

ROCK LAKE;BONE SPRING	52766

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3538
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	20529	2nd Bone Spring Sand		8/1/2021
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	1850	1572	0
Int1	12.25	9.625	40	5500	1340	0
Prod	7.875	5.5	20	20529	2722	9841
Prod	8.75	5.5	20	10749	839	0

Casing/Cement Program: Additional Comments

Drilling 8.75 hole size for the curve and 7.875 hole size for the lateral for the 5.5 production casing string.

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 ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**		
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:	7/23/2021	Expiration Date: 7/23/2023
Date:	7/20/2021 Phone: 720-499-1454	Conditions of Approval Attached		

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	52766	Rock Lake; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	BRIDGE STATE UNIT 29	502H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372165	CENTENNIAL RESOURCE PRODUCTION, LLC	3538.7'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	22S	35E		318	SOUTH	610	WEST	LEA

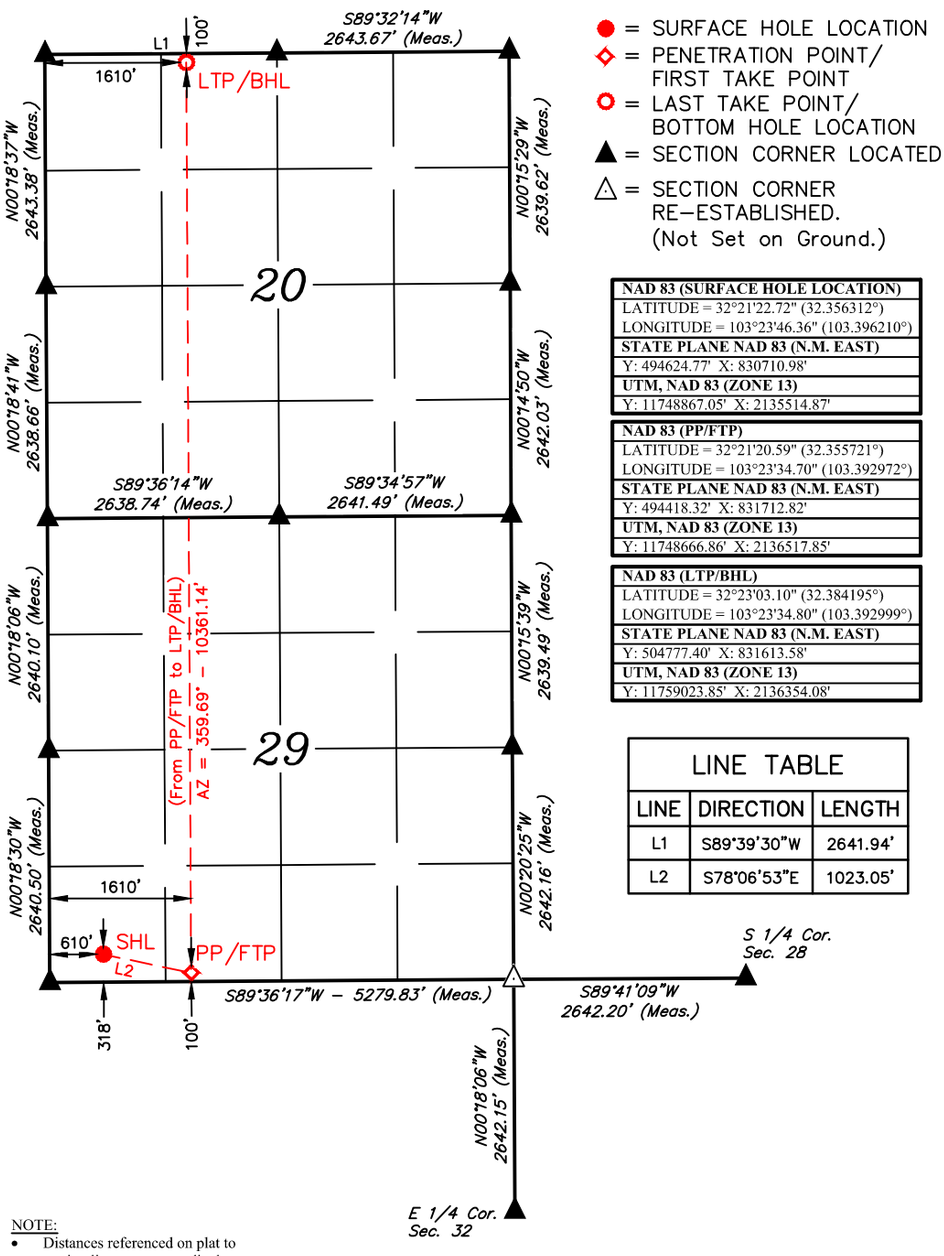
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	20	22S	35E		100	NORTH	1610	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

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]



● = SURFACE HOLE LOCATION
◇ = PENETRATION POINT/ FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°21'22.72" (32.356312°)
LONGITUDE = 103°23'46.36" (103.396210°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 494624.77' X: 830710.98'
UTM, NAD 83 (ZONE 13)
Y: 11748867.05' X: 2135514.87'

NAD 83 (PP/FTP)
LATITUDE = 32°21'20.59" (32.355721°)
LONGITUDE = 103°23'34.70" (103.392972°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 494418.32' X: 831712.82'
UTM, NAD 83 (ZONE 13)
Y: 11748666.86' X: 2136517.85'

NAD 83 (LTP/BHL)
LATITUDE = 32°23'03.10" (32.384195°)
LONGITUDE = 103°23'34.80" (103.392999°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 504777.40' X: 831613.58'
UTM, NAD 83 (ZONE 13)
Y: 11759023.85' X: 2136354.08'

LINE TABLE

LINE	DIRECTION	LENGTH
L1	S89°39'30"W	2641.94'
L2	S78°06'53"E	1023.05'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

2000' 1000' 0' 2000'

SCALE

DRAWN BY: R.J. 05-27-21

[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

Sarah Ferreyros
Printed Name

sarah.ferreyros@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.

May 25, 2021
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

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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 298558

PERMIT COMMENTS

Operator Name and Address:	API Number:
CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	30-025-49223
	Well: BRIDGE STATE UNIT 29 #502H

Created By	Comment	Comment Date
sferreyros	Spudder rig will preset surface casing.	7/20/2021

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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 298558

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	30-025-49223
	Well: BRIDGE STATE UNIT 29 #502H

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	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.
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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

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

Is this well an infill well? ☐

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

API #

Operator Name:	Property Name:	Well Number

PHOENIX
TECHNOLOGY SERVICES

Centennial Resources Development, Inc.

Lea County, NM (NAD83 - UTM Zone 13)
Bridge State Unit 29
502H

OH
Plan 1 06-17-21

Anticollision Report

17 June, 2021

CENTENNIAL
RESOURCE DEVELOPMENT, INC

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Reference Plan 1 06-17-21

Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of refere		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 50,000.00usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 6/17/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,528.91	Plan 1 06-17-21 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Bridge State Unit 29						
501H - OH - Plan 1 06-17-21	2,000.00	2,000.00	30.01	15.10	2.012	CC, ES
501H - OH - Plan 1 06-17-21	2,100.00	2,099.82	31.15	15.54	1.995	SF
Winnebago 30 State Com						
507H - OH - Plan 1 02-04-21	2,991.35	3,232.96	1,709.30	1,687.01	76.693	CC
507H - OH - Plan 1 02-04-21	6,500.00	6,723.46	1,715.00	1,667.14	35.831	ES
507H - OH - Plan 1 02-04-21	20,528.91	20,477.82	1,945.66	1,771.39	11.165	SF

Offset Design: Bridge State Unit 29 - 501H - OH - Plan 1 06-17-21 **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS **Rule Assigned:** **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	1.00	1.00	-88.07	1.01	-29.99	30.01				
100.00	100.00	100.00	100.00	1.04	1.04	-88.07	1.01	-29.99	30.01	27.96	2.04	14.680	
200.00	200.00	200.00	200.00	1.36	1.36	-88.07	1.01	-29.99	30.01	27.54	2.47	12.139	
300.00	300.00	300.00	300.00	1.75	1.75	-88.07	1.01	-29.99	30.01	26.94	3.06	9.795	
400.00	400.00	400.00	400.00	2.13	2.13	-88.07	1.01	-29.99	30.01	26.31	3.70	8.110	
500.00	500.00	500.00	500.00	2.50	2.50	-88.07	1.01	-29.99	30.01	25.65	4.36	6.880	
600.00	600.00	600.00	600.00	2.87	2.87	-88.07	1.01	-29.99	30.01	24.97	5.04	5.956	
700.00	700.00	700.00	700.00	3.23	3.23	-88.07	1.01	-29.99	30.01	24.28	5.72	5.242	
800.00	800.00	800.00	800.00	3.60	3.60	-88.07	1.01	-29.99	30.01	23.59	6.42	4.676	
900.00	900.00	900.00	900.00	3.96	3.96	-88.07	1.01	-29.99	30.01	22.89	7.12	4.217	
1,000.00	1,000.00	1,000.00	1,000.00	4.32	4.32	-88.07	1.01	-29.99	30.01	22.19	7.82	3.839	
1,100.00	1,100.00	1,100.00	1,100.00	4.68	4.68	-88.07	1.01	-29.99	30.01	21.49	8.52	3.522	
1,200.00	1,200.00	1,200.00	1,200.00	5.05	5.05	-88.07	1.01	-29.99	30.01	20.78	9.23	3.252	
1,300.00	1,300.00	1,300.00	1,300.00	5.41	5.41	-88.07	1.01	-29.99	30.01	20.07	9.93	3.021	
1,400.00	1,400.00	1,400.00	1,400.00	5.77	5.77	-88.07	1.01	-29.99	30.01	19.37	10.64	2.820	
1,500.00	1,500.00	1,500.00	1,500.00	6.13	6.13	-88.07	1.01	-29.99	30.01	18.66	11.35	2.643	
1,600.00	1,600.00	1,600.00	1,600.00	6.49	6.49	-88.07	1.01	-29.99	30.01	17.95	12.06	2.488	
1,700.00	1,700.00	1,700.00	1,700.00	6.85	6.85	-88.07	1.01	-29.99	30.01	17.23	12.77	2.349	
1,800.00	1,800.00	1,800.00	1,800.00	7.21	7.21	-88.07	1.01	-29.99	30.01	16.52	13.49	2.225	
1,900.00	1,900.00	1,900.00	1,900.00	7.57	7.57	-88.07	1.01	-29.99	30.01	15.81	14.20	2.113	
2,000.00	2,000.00	2,000.00	2,000.00	7.93	7.93	-88.07	1.01	-29.99	30.01	15.10	14.91	2.012	CC, ES

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Bridge State Unit 29 - 501H - OH - Plan 1 06-17-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.00	2,099.99	2,099.82	2,099.82	8.24	8.23	168.54	0.19	-30.29	31.15	15.54	15.61	1.995 SF	
2,200.00	2,199.96	2,199.54	2,199.50	8.54	8.55	165.32	-2.25	-31.18	34.63	18.26	16.37	2.115	
2,300.00	2,299.86	2,299.05	2,298.91	8.85	8.88	161.21	-6.32	-32.67	40.62	23.47	17.15	2.369	
2,400.00	2,399.68	2,398.25	2,397.93	9.16	9.21	157.15	-11.99	-34.73	49.25	31.34	17.91	2.750	
2,500.00	2,499.37	2,497.04	2,496.42	9.48	9.54	153.65	-19.23	-37.38	60.56	41.92	18.64	3.249	
2,600.00	2,598.90	2,595.33	2,594.26	9.80	9.87	150.81	-28.02	-40.58	74.56	55.22	19.34	3.855	
2,700.00	2,698.26	2,693.01	2,691.32	10.12	10.20	148.57	-38.31	-44.34	91.21	71.19	20.03	4.555	
2,800.00	2,797.40	2,790.00	2,787.50	10.45	10.53	146.81	-50.07	-48.63	110.48	89.79	20.69	5.340	
2,900.00	2,896.30	2,886.20	2,882.67	10.78	10.86	145.42	-63.25	-53.44	132.33	110.98	21.34	6.200	
3,000.00	2,994.93	2,981.53	2,976.74	11.11	11.18	144.30	-77.78	-58.74	156.70	134.72	21.99	7.127	
3,100.00	3,093.41	3,077.75	3,071.50	11.45	11.51	143.48	-93.45	-64.46	182.54	159.89	22.65	8.059	
3,200.00	3,191.89	3,174.32	3,166.60	11.79	11.84	142.86	-109.21	-70.21	208.43	185.11	23.32	8.937	
3,300.00	3,290.38	3,270.89	3,261.70	12.14	12.18	142.38	-124.97	-75.96	234.33	210.34	23.99	9.766	
3,400.00	3,388.86	3,368.43	3,357.77	12.48	12.50	142.00	-140.82	-81.74	260.20	235.53	24.67	10.548	
3,500.00	3,487.34	3,468.64	3,456.70	12.83	12.84	141.88	-155.87	-87.23	285.16	259.78	25.38	11.237	
3,600.00	3,585.82	3,569.49	3,556.51	13.19	13.19	142.01	-169.38	-92.16	308.92	282.82	26.10	11.836	
3,700.00	3,684.30	3,670.91	3,657.13	13.54	13.55	142.35	-181.30	-96.51	331.46	304.63	26.83	12.356	
3,800.00	3,782.78	3,772.83	3,758.46	13.90	13.91	142.86	-191.59	-100.27	352.80	325.25	27.55	12.805	
3,900.00	3,881.27	3,875.21	3,860.43	14.26	14.27	143.51	-200.22	-103.41	372.96	344.68	28.28	13.189	
4,000.00	3,979.75	3,977.98	3,962.93	14.62	14.63	144.30	-207.16	-105.95	391.95	362.95	29.00	13.515	
4,100.00	4,078.23	4,081.07	4,065.86	14.98	15.00	145.21	-212.38	-107.85	409.82	380.10	29.72	13.788	
4,200.00	4,176.71	4,184.41	4,169.14	15.35	15.36	146.23	-215.87	-109.13	426.61	396.17	30.44	14.014	
4,300.00	4,275.19	4,287.95	4,272.66	15.71	15.73	147.35	-217.61	-109.76	442.36	411.20	31.16	14.198	
4,400.00	4,373.67	4,388.96	4,373.67	16.08	16.06	148.53	-217.82	-109.84	457.28	425.44	31.84	14.363	
4,500.00	4,472.16	4,487.45	4,472.16	16.45	16.39	149.63	-217.82	-109.84	472.23	439.71	32.52	14.523	
4,600.00	4,570.64	4,585.93	4,570.64	16.82	16.73	150.65	-217.82	-109.84	487.34	454.14	33.20	14.679	
4,700.00	4,669.12	4,684.41	4,669.12	17.18	17.08	151.62	-217.82	-109.84	502.60	468.71	33.89	14.831	
4,800.00	4,767.60	4,782.89	4,767.60	17.55	17.42	152.53	-217.82	-109.84	517.99	483.41	34.58	14.980	
4,900.00	4,866.08	4,881.37	4,866.08	17.92	17.76	153.39	-217.82	-109.84	533.50	498.23	35.27	15.126	
5,000.00	4,964.56	4,979.85	4,964.56	18.29	18.11	154.20	-217.82	-109.84	549.12	513.16	35.96	15.269	
5,100.00	5,063.05	5,078.34	5,063.05	18.66	18.45	154.96	-217.82	-109.84	564.85	528.19	36.66	15.408	
5,200.00	5,161.53	5,176.82	5,161.53	19.03	18.80	155.69	-217.82	-109.84	580.66	543.31	37.35	15.544	
5,300.00	5,260.01	5,275.30	5,260.01	19.40	19.14	156.37	-217.82	-109.84	596.56	558.51	38.05	15.677	
5,400.00	5,358.49	5,373.78	5,358.49	19.78	19.49	157.02	-217.82	-109.84	612.55	573.79	38.75	15.807	
5,500.00	5,456.97	5,472.26	5,456.97	20.15	19.83	157.64	-217.82	-109.84	628.60	589.15	39.45	15.934	
5,600.00	5,555.45	5,570.74	5,555.45	20.52	20.18	158.22	-217.82	-109.84	644.72	604.57	40.15	16.057	
5,700.00	5,653.93	5,669.22	5,653.93	20.89	20.53	158.78	-217.82	-109.84	660.91	620.05	40.85	16.177	
5,800.00	5,752.42	5,767.71	5,752.42	21.26	20.87	159.31	-217.82	-109.84	677.15	635.59	41.56	16.294	
5,900.00	5,850.90	5,866.19	5,850.90	21.63	21.22	159.82	-217.82	-109.84	693.45	651.19	42.26	16.408	
6,000.00	5,949.38	5,964.67	5,949.38	22.01	21.57	160.30	-217.82	-109.84	709.80	666.83	42.97	16.520	
6,100.00	6,047.86	6,063.15	6,047.86	22.38	21.91	160.76	-217.82	-109.84	726.19	682.52	43.67	16.628	
6,200.00	6,146.34	6,161.63	6,146.34	22.75	22.26	161.20	-217.82	-109.84	742.63	698.25	44.38	16.734	
6,300.00	6,244.82	6,260.11	6,244.82	23.12	22.61	161.62	-217.82	-109.84	759.11	714.02	45.09	16.836	
6,400.00	6,343.31	6,358.60	6,343.31	23.50	22.96	162.03	-217.82	-109.84	775.63	729.83	45.80	16.937	
6,500.00	6,441.79	6,457.08	6,441.79	23.87	23.31	162.41	-217.82	-109.84	792.18	745.68	46.51	17.034	
6,600.00	6,540.27	6,555.56	6,540.27	24.24	23.65	162.78	-217.82	-109.84	808.77	761.55	47.22	17.129	
6,700.00	6,638.75	6,654.04	6,638.75	24.62	24.00	163.14	-217.82	-109.84	825.39	777.46	47.93	17.222	
6,800.00	6,737.23	6,752.52	6,737.23	24.99	24.35	163.48	-217.82	-109.84	842.04	793.40	48.64	17.313	
6,900.00	6,835.71	6,851.00	6,835.71	25.36	24.70	163.81	-217.82	-109.84	858.72	809.37	49.35	17.401	
7,000.00	6,934.20	6,949.49	6,934.20	25.74	25.05	164.13	-217.82	-109.84	875.42	825.36	50.06	17.487	
7,100.00	7,032.68	7,047.97	7,032.68	26.11	25.40	164.43	-217.82	-109.84	892.15	841.38	50.77	17.571	
7,200.00	7,131.16	7,146.45	7,131.16	26.48	25.74	164.73	-217.82	-109.84	908.90	857.41	51.49	17.653	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Bridge State Unit 29 - 501H - OH - Plan 1 06-17-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,300.00	7,229.64	7,244.93	7,229.64	26.86	26.09	165.01	-217.82	-109.84	925.68	873.48	52.20	17.733	
7,400.00	7,328.12	7,343.41	7,328.12	27.23	26.44	165.28	-217.82	-109.84	942.47	889.56	52.92	17.811	
7,500.00	7,426.60	7,441.89	7,426.60	27.60	26.79	165.54	-217.82	-109.84	959.29	905.66	53.63	17.887	
7,600.00	7,525.09	7,540.38	7,525.09	27.98	27.14	165.80	-217.82	-109.84	976.13	921.78	54.35	17.961	
7,700.00	7,623.57	7,638.86	7,623.57	28.35	27.49	166.04	-217.82	-109.84	992.98	937.92	55.06	18.034	
7,800.00	7,722.05	7,737.34	7,722.05	28.72	27.84	166.28	-217.82	-109.84	1,009.85	954.07	55.78	18.105	
7,900.00	7,820.53	7,835.82	7,820.53	29.09	28.19	166.51	-217.82	-109.84	1,026.73	970.23	56.49	18.174	
8,000.00	7,919.19	7,934.48	7,919.19	29.46	28.54	166.76	-217.82	-109.84	1,042.62	985.41	57.21	18.225	
8,100.00	8,018.12	8,033.41	8,018.12	29.83	28.89	166.97	-217.82	-109.84	1,056.84	998.92	57.92	18.245	
8,200.00	8,117.28	8,132.57	8,117.28	30.20	29.24	167.16	-217.82	-109.84	1,069.39	1,010.75	58.64	18.237	
8,300.00	8,216.66	8,231.95	8,216.66	30.56	29.60	167.31	-217.82	-109.84	1,080.25	1,020.90	59.35	18.200	
8,400.00	8,316.22	8,331.51	8,316.22	30.92	29.95	167.44	-217.82	-109.84	1,089.43	1,029.36	60.07	18.137	
8,500.00	8,415.92	8,431.21	8,415.92	31.28	30.31	167.54	-217.82	-109.84	1,096.91	1,036.13	60.78	18.048	
8,600.00	8,515.75	8,531.04	8,515.75	31.64	30.66	167.62	-217.82	-109.84	1,102.69	1,041.21	61.49	17.934	
8,700.00	8,615.66	8,630.95	8,615.66	31.99	31.02	167.68	-217.82	-109.84	1,106.77	1,044.58	62.19	17.796	
8,800.00	8,715.63	8,730.92	8,715.63	32.35	31.37	167.71	-217.82	-109.84	1,109.15	1,046.25	62.89	17.635	
8,900.00	8,815.62	8,830.91	8,815.62	32.68	31.73	-90.13	-217.82	-109.84	1,109.83	1,046.24	63.59	17.454	
9,000.00	8,915.62	8,930.91	8,915.62	33.01	32.08	-90.13	-217.82	-109.84	1,109.83	1,045.56	64.27	17.267	
9,100.00	9,015.62	9,030.91	9,015.62	33.35	32.44	-90.13	-217.82	-109.84	1,109.83	1,044.87	64.96	17.084	
9,200.00	9,115.62	9,130.91	9,115.62	33.69	32.80	-90.13	-217.82	-109.84	1,109.83	1,044.18	65.65	16.904	
9,300.00	9,215.62	9,230.91	9,215.62	34.02	33.15	-90.13	-217.82	-109.84	1,109.83	1,043.48	66.35	16.728	
9,400.00	9,315.62	9,330.91	9,315.62	34.36	33.51	-90.13	-217.82	-109.84	1,109.83	1,042.79	67.04	16.556	
9,500.00	9,415.62	9,430.91	9,415.62	34.70	33.86	-90.13	-217.82	-109.84	1,109.83	1,042.10	67.73	16.386	
9,600.00	9,515.62	9,530.91	9,515.62	35.04	34.22	-90.13	-217.82	-109.84	1,109.83	1,041.41	68.42	16.220	
9,700.00	9,615.62	9,630.91	9,615.62	35.38	34.58	-90.13	-217.82	-109.84	1,109.83	1,040.71	69.11	16.058	
9,800.00	9,715.62	9,730.91	9,715.62	35.72	34.93	-90.13	-217.82	-109.84	1,109.83	1,040.02	69.81	15.898	
9,800.01	9,715.63	9,730.92	9,715.63	35.72	34.93	-90.13	-217.82	-109.84	1,109.83	1,040.02	69.81	15.898	
9,900.00	9,815.52	9,830.81	9,815.52	36.09	35.29	-90.24	-217.82	-109.84	1,109.84	1,039.34	70.50	15.743	
10,000.00	9,913.60	9,928.89	9,913.60	36.63	35.64	-91.17	-217.82	-109.84	1,110.08	1,038.89	71.19	15.594	
10,100.00	10,006.93	10,027.39	10,012.03	37.12	36.00	-92.75	-215.52	-109.84	1,111.29	1,039.41	71.88	15.461	
10,200.00	10,092.66	10,135.18	10,117.85	37.54	36.48	-94.45	-195.86	-109.86	1,113.62	1,041.03	72.59	15.340	
10,300.00	10,168.20	10,251.74	10,225.93	37.87	36.98	-96.09	-152.76	-109.89	1,116.81	1,043.55	73.27	15.243	
10,400.00	10,231.24	10,378.23	10,330.71	38.10	37.45	-97.61	-82.36	-109.95	1,120.47	1,046.63	73.83	15.175	
10,500.00	10,279.87	10,515.13	10,423.74	38.25	37.81	-98.92	17.63	-110.03	1,124.02	1,049.78	74.24	15.140	
10,600.00	10,312.62	10,661.50	10,494.00	38.32	38.04	-99.88	145.58	-110.14	1,126.81	1,052.32	74.49	15.126	
10,700.00	10,328.48	10,814.45	10,530.39	38.34	38.15	-100.36	293.68	-110.26	1,128.25	1,053.60	74.65	15.114	
10,800.00	10,329.21	10,939.16	10,532.87	38.35	38.19	-100.40	418.26	-110.36	1,128.36	1,053.56	74.81	15.084	
10,900.00	10,327.82	11,039.16	10,531.47	38.35	38.22	-100.40	518.25	-110.45	1,128.36	1,053.36	75.00	15.045	
11,000.00	10,326.42	11,139.16	10,530.08	38.36	38.26	-100.40	618.24	-110.53	1,128.36	1,053.13	75.23	14.999	
11,100.00	10,325.02	11,239.16	10,528.68	38.38	38.32	-100.40	718.23	-110.61	1,128.36	1,052.87	75.49	14.947	
11,200.00	10,323.63	11,339.16	10,527.28	38.41	38.39	-100.40	818.22	-110.69	1,128.36	1,052.58	75.78	14.889	
11,300.00	10,322.23	11,439.16	10,525.89	38.45	38.47	-100.40	918.22	-110.78	1,128.36	1,052.26	76.10	14.827	
11,400.00	10,320.83	11,539.16	10,524.49	38.53	38.57	-100.40	1,018.21	-110.86	1,128.36	1,051.91	76.45	14.759	
11,500.00	10,319.44	11,639.16	10,523.09	38.64	38.69	-100.40	1,118.20	-110.94	1,128.36	1,051.53	76.83	14.686	
11,600.00	10,318.04	11,739.16	10,521.70	38.79	38.84	-100.40	1,218.19	-111.03	1,128.36	1,051.12	77.24	14.608	
11,700.00	10,316.65	11,839.16	10,520.30	38.97	39.00	-100.40	1,318.18	-111.11	1,128.36	1,050.68	77.68	14.526	
11,800.00	10,315.25	11,939.16	10,518.91	39.18	39.18	-100.40	1,418.17	-111.19	1,128.36	1,050.22	78.14	14.440	
11,900.00	10,313.85	12,039.16	10,517.51	39.40	39.38	-100.40	1,518.16	-111.27	1,128.36	1,049.73	78.63	14.350	
12,000.00	10,312.46	12,139.16	10,516.11	39.64	39.60	-100.40	1,618.15	-111.36	1,128.36	1,049.21	79.15	14.256	
12,100.00	10,311.06	12,239.16	10,514.72	39.90	39.84	-100.40	1,718.14	-111.44	1,128.36	1,048.67	79.69	14.159	
12,200.00	10,309.66	12,339.16	10,513.32	40.17	40.09	-100.40	1,818.13	-111.52	1,128.36	1,048.10	80.26	14.058	
12,300.00	10,308.27	12,439.16	10,511.93	40.45	40.36	-100.40	1,918.12	-111.60	1,128.36	1,047.50	80.86	13.955	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Bridge State Unit 29 - 501H - OH - Plan 1 06-17-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,400.00	10,306.87	12,539.16	10,510.53	40.75	40.64	-100.40	2,018.11	-111.69	1,128.36	1,046.89	81.47	13.849	
12,500.00	10,305.48	12,639.16	10,509.13	41.06	40.94	-100.40	2,118.10	-111.77	1,128.36	1,046.24	82.12	13.741	
12,600.00	10,304.08	12,739.16	10,507.74	41.38	41.25	-100.40	2,218.09	-111.85	1,128.36	1,045.58	82.78	13.630	
12,700.00	10,302.68	12,839.16	10,506.34	41.71	41.57	-100.40	2,318.08	-111.93	1,128.36	1,044.89	83.47	13.518	
12,800.00	10,301.29	12,939.16	10,504.94	42.06	41.90	-100.40	2,418.07	-112.02	1,128.36	1,044.18	84.18	13.403	
12,900.00	10,299.89	13,039.16	10,503.55	42.41	42.25	-100.40	2,518.06	-112.10	1,128.36	1,043.44	84.92	13.288	
13,000.00	10,298.50	13,139.16	10,502.15	42.78	42.61	-100.40	2,618.05	-112.18	1,128.36	1,042.69	85.67	13.171	
13,100.00	10,297.10	13,239.16	10,500.76	43.16	42.98	-100.40	2,718.04	-112.26	1,128.36	1,041.91	86.45	13.053	
13,200.00	10,295.70	13,339.16	10,499.36	43.55	43.36	-100.40	2,818.03	-112.35	1,128.36	1,041.12	87.24	12.934	
13,300.00	10,294.31	13,439.16	10,497.96	43.94	43.75	-100.40	2,918.02	-112.43	1,128.36	1,040.31	88.06	12.814	
13,400.00	10,292.91	13,539.16	10,496.57	44.35	44.15	-100.40	3,018.01	-112.51	1,128.36	1,039.47	88.89	12.694	
13,500.00	10,291.51	13,639.16	10,495.17	44.77	44.56	-100.40	3,118.00	-112.59	1,128.36	1,038.62	89.74	12.574	
13,600.00	10,290.12	13,739.16	10,493.77	45.19	44.97	-100.40	3,217.99	-112.68	1,128.36	1,037.75	90.61	12.453	
13,700.00	10,288.72	13,839.16	10,492.38	45.63	45.40	-100.40	3,317.98	-112.76	1,128.36	1,036.86	91.50	12.332	
13,800.00	10,287.33	13,939.16	10,490.98	46.07	45.84	-100.40	3,417.97	-112.84	1,128.36	1,035.96	92.40	12.211	
13,900.00	10,285.93	14,039.16	10,489.59	46.52	46.29	-100.40	3,517.96	-112.92	1,128.36	1,035.04	93.32	12.091	
14,000.00	10,284.53	14,139.16	10,488.19	46.98	46.74	-100.40	3,617.95	-113.01	1,128.36	1,034.10	94.26	11.971	
14,100.00	10,283.14	14,239.16	10,486.79	47.45	47.20	-100.40	3,717.94	-113.09	1,128.36	1,033.15	95.21	11.851	
14,200.00	10,281.74	14,339.16	10,485.40	47.92	47.67	-100.40	3,817.93	-113.17	1,128.36	1,032.18	96.18	11.732	
14,300.00	10,280.34	14,439.16	10,484.00	48.40	48.15	-100.40	3,917.92	-113.26	1,128.36	1,031.20	97.16	11.613	
14,400.00	10,278.95	14,539.16	10,482.60	48.89	48.64	-100.40	4,017.91	-113.34	1,128.36	1,030.20	98.16	11.496	
14,500.00	10,277.55	14,639.16	10,481.21	49.39	49.13	-100.40	4,117.90	-113.42	1,128.36	1,029.19	99.17	11.379	
14,600.00	10,276.16	14,739.16	10,479.81	49.89	49.63	-100.40	4,217.89	-113.50	1,128.36	1,028.17	100.19	11.262	
14,700.00	10,274.76	14,839.16	10,478.42	50.40	50.14	-100.40	4,317.88	-113.59	1,128.36	1,027.14	101.22	11.147	
14,800.00	10,273.36	14,939.16	10,477.02	50.92	50.65	-100.40	4,417.87	-113.67	1,128.36	1,026.09	102.27	11.033	
14,900.00	10,271.97	15,039.16	10,475.62	51.44	51.17	-100.40	4,517.86	-113.75	1,128.36	1,025.03	103.33	10.920	
15,000.00	10,270.57	15,139.16	10,474.23	51.97	51.69	-100.40	4,617.85	-113.83	1,128.36	1,023.96	104.40	10.808	
15,100.00	10,269.17	15,239.16	10,472.83	52.50	52.23	-100.40	4,717.84	-113.92	1,128.36	1,022.87	105.49	10.697	
15,200.00	10,267.78	15,339.16	10,471.43	53.04	52.76	-100.40	4,817.83	-114.00	1,128.36	1,021.78	106.58	10.587	
15,300.00	10,266.38	15,439.16	10,470.04	53.59	53.31	-100.40	4,917.82	-114.08	1,128.36	1,020.67	107.69	10.478	
15,400.00	10,264.99	15,539.16	10,468.64	54.14	53.86	-100.40	5,017.81	-114.16	1,128.36	1,019.56	108.80	10.371	
15,500.00	10,263.59	15,639.16	10,467.25	54.70	54.41	-100.40	5,117.80	-114.25	1,128.36	1,018.43	109.93	10.264	
15,600.00	10,262.19	15,739.16	10,465.85	55.26	54.97	-100.40	5,217.79	-114.33	1,128.36	1,017.29	111.06	10.160	
15,700.00	10,260.80	15,839.16	10,464.45	55.82	55.53	-100.40	5,317.78	-114.41	1,128.36	1,016.15	112.21	10.056	
15,800.00	10,259.40	15,939.16	10,463.06	56.39	56.10	-100.40	5,417.77	-114.49	1,128.36	1,015.00	113.36	9.953	
15,900.00	10,258.00	16,039.16	10,461.66	56.97	56.67	-100.40	5,517.77	-114.58	1,128.36	1,013.83	114.53	9.852	
16,000.00	10,256.61	16,139.16	10,460.27	57.55	57.25	-100.40	5,617.76	-114.66	1,128.36	1,012.66	115.70	9.753	
16,100.00	10,255.21	16,239.16	10,458.87	58.13	57.83	-100.40	5,717.75	-114.74	1,128.36	1,011.48	116.88	9.654	
16,200.00	10,253.82	16,339.16	10,457.47	58.72	58.42	-100.40	5,817.74	-114.82	1,128.36	1,010.29	118.07	9.557	
16,300.00	10,252.42	16,439.16	10,456.08	59.31	59.01	-100.40	5,917.73	-114.91	1,128.36	1,009.10	119.26	9.461	
16,400.00	10,251.02	16,539.16	10,454.68	59.91	59.60	-100.40	6,017.72	-114.99	1,128.36	1,007.89	120.47	9.367	
16,500.00	10,249.63	16,639.16	10,453.28	60.51	60.20	-100.40	6,117.71	-115.07	1,128.36	1,006.68	121.68	9.273	
16,600.00	10,248.23	16,739.16	10,451.89	61.11	60.81	-100.40	6,217.70	-115.16	1,128.36	1,005.46	122.90	9.181	
16,700.00	10,246.83	16,839.16	10,450.49	61.72	61.41	-100.40	6,317.69	-115.24	1,128.36	1,004.24	124.12	9.091	
16,800.00	10,245.44	16,939.16	10,449.10	62.33	62.02	-100.40	6,417.68	-115.32	1,128.36	1,003.01	125.35	9.001	
16,900.00	10,244.04	17,039.16	10,447.70	62.94	62.63	-100.40	6,517.67	-115.40	1,128.36	1,001.77	126.59	8.913	
17,000.00	10,242.65	17,139.16	10,446.30	63.56	63.25	-100.40	6,617.66	-115.49	1,128.36	1,000.52	127.84	8.827	
17,100.00	10,241.25	17,239.16	10,444.91	64.18	63.87	-100.40	6,717.65	-115.57	1,128.36	999.27	129.09	8.741	
17,200.00	10,239.85	17,339.16	10,443.51	64.80	64.49	-100.40	6,817.64	-115.65	1,128.36	998.01	130.34	8.657	
17,300.00	10,238.46	17,439.16	10,442.11	65.43	65.12	-100.40	6,917.63	-115.73	1,128.36	996.75	131.61	8.574	
17,400.00	10,237.06	17,539.16	10,440.72	66.06	65.74	-100.40	7,017.62	-115.82	1,128.36	995.48	132.88	8.492	
17,500.00	10,235.67	17,639.16	10,439.32	66.69	66.38	-100.40	7,117.61	-115.90	1,128.36	994.21	134.15	8.411	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Bridge State Unit 29 - 501H - OH - Plan 1 06-17-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,600.00	10,234.27	17,739.16	10,437.93	67.33	67.01	-100.40	7,217.60	-115.98	1,128.36	992.93	135.43	8.332	
17,700.00	10,232.87	17,839.16	10,436.53	67.97	67.65	-100.40	7,317.59	-116.06	1,128.36	991.64	136.72	8.253	
17,800.00	10,231.48	17,939.16	10,435.13	68.61	68.29	-100.40	7,417.58	-116.15	1,128.36	990.35	138.01	8.176	
17,900.00	10,230.08	18,039.16	10,433.74	69.25	68.93	-100.40	7,517.57	-116.23	1,128.36	989.06	139.30	8.100	
18,000.00	10,228.68	18,139.16	10,432.34	69.89	69.57	-100.40	7,617.56	-116.31	1,128.36	987.76	140.60	8.025	
18,100.00	10,227.29	18,239.16	10,430.94	70.54	70.22	-100.40	7,717.55	-116.39	1,128.36	986.45	141.90	7.952	
18,200.00	10,225.89	18,339.16	10,429.55	71.19	70.87	-100.40	7,817.54	-116.48	1,128.36	985.14	143.21	7.879	
18,300.00	10,224.50	18,439.16	10,428.15	71.84	71.52	-100.40	7,917.53	-116.56	1,128.36	983.83	144.53	7.807	
18,400.00	10,223.10	18,539.16	10,426.76	72.50	72.18	-100.40	8,017.52	-116.64	1,128.36	982.51	145.84	7.737	
18,500.00	10,221.70	18,639.16	10,425.36	73.16	72.83	-100.40	8,117.51	-116.72	1,128.36	981.19	147.17	7.667	
18,600.00	10,220.31	18,739.16	10,423.96	73.82	73.49	-100.40	8,217.50	-116.81	1,128.36	979.87	148.49	7.599	
18,700.00	10,218.91	18,839.16	10,422.57	74.48	74.15	-100.40	8,317.49	-116.89	1,128.36	978.54	149.82	7.531	
18,800.00	10,217.51	18,939.16	10,421.17	75.14	74.81	-100.40	8,417.48	-116.97	1,128.36	977.20	151.15	7.465	
18,900.00	10,216.12	19,039.16	10,419.77	75.80	75.48	-100.40	8,517.47	-117.05	1,128.36	975.86	152.49	7.399	
19,000.00	10,214.72	19,139.16	10,418.38	76.47	76.14	-100.40	8,617.46	-117.14	1,128.36	974.52	153.83	7.335	
19,100.00	10,213.33	19,239.16	10,416.98	77.14	76.81	-100.40	8,717.45	-117.22	1,128.36	973.18	155.18	7.271	
19,200.00	10,211.93	19,339.16	10,415.59	77.81	77.48	-100.40	8,817.44	-117.30	1,128.36	971.83	156.53	7.209	
19,300.00	10,210.53	19,439.16	10,414.19	78.48	78.15	-100.40	8,917.43	-117.39	1,128.36	970.48	157.88	7.147	
19,400.00	10,209.14	19,539.16	10,412.79	79.16	78.83	-100.40	9,017.42	-117.47	1,128.36	969.12	159.23	7.086	
19,500.00	10,207.74	19,639.16	10,411.40	79.83	79.50	-100.40	9,117.41	-117.55	1,128.36	967.77	160.59	7.026	
19,600.00	10,206.34	19,739.16	10,410.00	80.51	80.18	-100.40	9,217.40	-117.63	1,128.36	966.41	161.95	6.967	
19,700.00	10,204.95	19,839.16	10,408.61	81.19	80.86	-100.40	9,317.39	-117.72	1,128.36	965.04	163.32	6.909	
19,800.00	10,203.55	19,939.16	10,407.21	81.87	81.54	-100.40	9,417.38	-117.80	1,128.36	963.67	164.68	6.852	
19,900.00	10,202.16	20,039.16	10,405.81	82.55	82.22	-100.40	9,517.37	-117.88	1,128.36	962.30	166.05	6.795	
20,000.00	10,200.76	20,139.16	10,404.42	83.23	82.90	-100.40	9,617.36	-117.96	1,128.36	960.93	167.43	6.739	
20,100.00	10,199.36	20,239.16	10,403.02	83.92	83.59	-100.40	9,717.35	-118.05	1,128.36	959.56	168.80	6.685	
20,200.00	10,197.97	20,339.16	10,401.62	84.60	84.27	-100.40	9,817.34	-118.13	1,128.36	958.18	170.18	6.630	
20,300.00	10,196.57	20,439.16	10,400.23	85.29	84.96	-100.40	9,917.33	-118.21	1,128.36	956.80	171.56	6.577	
20,400.00	10,195.17	20,539.16	10,398.83	85.98	85.65	-100.40	10,017.33	-118.29	1,128.36	955.41	172.94	6.524	
20,500.00	10,193.78	20,639.16	10,397.44	86.67	86.34	-100.40	10,117.32	-118.38	1,128.36	954.03	174.33	6.473	
20,524.88	10,193.43	20,664.05	10,397.09	86.84	86.51	-100.40	10,142.20	-118.40	1,128.36	953.68	174.67	6.460	
20,528.91	10,193.38	20,664.56	10,397.08	86.87	86.51	-100.40	10,142.71	-118.40	1,128.36	953.67	174.69	6.459	

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Winnebago 30 State Com - 507H - OH - Plan 1 02-04-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	48.60	1.00	1.00	-90.68	-20.47	-1,724.74	1,725.54				
100.00	100.00	51.40	100.00	1.04	1.01	-90.68	-20.47	-1,724.74	1,724.86	1,722.83	2.03	849.949	
200.00	200.00	151.40	200.00	1.36	1.17	-90.68	-20.47	-1,724.74	1,724.86	1,722.50	2.36	731.394	
300.00	300.00	251.40	300.00	1.75	1.55	-90.68	-20.47	-1,724.74	1,724.86	1,721.91	2.94	585.992	
400.00	400.00	351.40	400.00	2.13	1.94	-90.68	-20.47	-1,724.74	1,724.86	1,721.27	3.59	480.920	
500.00	500.00	451.40	500.00	2.50	2.31	-90.68	-20.47	-1,724.74	1,724.86	1,720.61	4.25	405.652	
600.00	600.00	551.40	600.00	2.87	2.68	-90.68	-20.47	-1,724.74	1,724.86	1,719.93	4.93	349.749	
700.00	700.00	651.40	700.00	3.23	3.05	-90.68	-20.47	-1,724.74	1,724.86	1,719.24	5.62	306.886	
800.00	800.00	751.40	800.00	3.60	3.42	-90.68	-20.47	-1,724.74	1,724.86	1,718.54	6.32	273.112	
900.00	900.00	851.40	900.00	3.96	3.78	-90.68	-20.47	-1,724.74	1,724.86	1,717.84	7.01	245.882	
1,000.00	1,000.00	951.40	1,000.00	4.32	4.14	-90.68	-20.47	-1,724.74	1,724.86	1,717.14	7.72	223.496	
1,100.00	1,100.00	1,051.40	1,100.00	4.68	4.51	-90.68	-20.47	-1,724.74	1,724.86	1,716.43	8.42	204.787	
1,200.00	1,200.00	1,151.40	1,200.00	5.05	4.87	-90.68	-20.47	-1,724.74	1,724.86	1,715.73	9.13	188.931	
1,300.00	1,300.00	1,251.40	1,300.00	5.41	5.23	-90.68	-20.47	-1,724.74	1,724.86	1,715.02	9.84	175.328	
1,400.00	1,400.00	1,351.40	1,400.00	5.77	5.59	-90.68	-20.47	-1,724.74	1,724.86	1,714.31	10.55	163.534	
1,500.00	1,500.00	1,451.40	1,500.00	6.13	5.95	-90.68	-20.47	-1,724.74	1,724.86	1,713.60	11.26	153.214	
1,600.00	1,600.00	1,551.40	1,600.00	6.49	6.31	-90.68	-20.47	-1,724.74	1,724.86	1,712.89	11.97	144.109	
1,700.00	1,700.00	1,651.40	1,700.00	6.85	6.67	-90.68	-20.47	-1,724.74	1,724.86	1,712.18	12.68	136.020	
1,800.00	1,800.00	1,751.40	1,800.00	7.21	7.03	-90.68	-20.47	-1,724.74	1,724.86	1,711.46	13.39	128.785	
1,900.00	1,900.00	1,851.40	1,900.00	7.57	7.39	-90.68	-20.47	-1,724.74	1,724.86	1,710.75	14.11	122.276	
2,000.00	2,000.00	1,951.40	2,000.00	7.93	7.75	-90.68	-20.47	-1,724.74	1,724.86	1,710.04	14.82	116.391	
2,100.00	2,099.99	2,072.49	2,121.09	8.24	8.15	167.18	-20.59	-1,724.29	1,725.39	1,709.82	15.58	110.751	
2,200.00	2,199.96	2,213.54	2,262.09	8.54	8.58	167.17	-21.45	-1,720.88	1,725.53	1,709.17	16.36	105.450	
2,300.00	2,299.86	2,354.58	2,402.96	8.85	9.02	167.16	-23.17	-1,714.10	1,725.00	1,707.85	17.14	100.624	
2,400.00	2,399.68	2,495.58	2,543.56	9.16	9.46	167.14	-25.74	-1,703.97	1,723.78	1,705.86	17.92	96.190	
2,500.00	2,499.37	2,636.50	2,683.79	9.48	9.91	167.10	-29.15	-1,690.50	1,721.90	1,703.20	18.70	92.102	
2,600.00	2,598.90	2,777.31	2,823.53	9.80	10.37	167.06	-33.41	-1,673.70	1,719.33	1,699.87	19.47	88.322	
2,700.00	2,698.26	2,917.99	2,962.67	10.12	10.84	167.01	-38.50	-1,653.60	1,716.10	1,695.87	20.23	84.813	
2,800.00	2,797.40	3,041.65	3,084.55	10.45	11.25	166.95	-43.64	-1,633.35	1,712.41	1,691.44	20.97	81.678	
2,900.00	2,896.30	3,141.62	3,182.99	10.78	11.59	166.92	-47.90	-1,616.52	1,710.01	1,688.35	21.65	78.968	
2,991.35	2,986.41	3,232.96	3,272.95	11.08	11.91	166.90	-51.80	-1,601.14	1,709.30	1,687.01	22.29	76.693 CC	
3,000.00	2,994.93	3,241.61	3,281.47	11.11	11.94	166.89	-52.17	-1,599.68	1,709.31	1,686.96	22.35	76.487	
3,100.00	3,093.41	3,341.61	3,379.95	11.45	12.28	166.87	-56.44	-1,582.85	1,709.46	1,686.41	23.05	74.179	
3,200.00	3,191.89	3,441.60	3,478.42	11.79	12.63	166.85	-60.70	-1,566.02	1,709.60	1,685.86	23.75	71.994	
3,300.00	3,290.38	3,541.60	3,576.90	12.14	12.99	166.83	-64.97	-1,549.18	1,709.75	1,685.30	24.45	69.925	
3,400.00	3,388.86	3,641.60	3,675.38	12.48	13.34	166.81	-69.24	-1,532.35	1,709.90	1,684.74	25.16	67.963	
3,500.00	3,487.34	3,741.60	3,773.86	12.83	13.70	166.79	-73.50	-1,515.51	1,710.05	1,684.17	25.87	66.101	
3,600.00	3,585.82	3,841.60	3,872.34	13.19	14.06	166.77	-77.77	-1,498.68	1,710.19	1,683.61	26.58	64.332	
3,700.00	3,684.30	3,941.59	3,970.82	13.54	14.42	166.75	-82.04	-1,481.84	1,710.34	1,683.04	27.30	62.649	
3,800.00	3,782.78	4,041.59	4,069.30	13.90	14.78	166.73	-86.30	-1,465.01	1,710.49	1,682.47	28.02	61.048	
3,900.00	3,881.27	4,141.59	4,167.77	14.26	15.14	166.71	-90.57	-1,448.18	1,710.64	1,681.90	28.74	59.522	
4,000.00	3,979.75	4,241.59	4,266.25	14.62	15.51	166.69	-94.84	-1,431.34	1,710.79	1,681.32	29.46	58.067	
4,100.00	4,078.23	4,341.59	4,364.73	14.98	15.87	166.67	-99.10	-1,414.51	1,710.94	1,680.75	30.19	56.678	
4,200.00	4,176.71	4,441.58	4,463.21	15.35	16.24	166.65	-103.37	-1,397.67	1,711.09	1,680.17	30.91	55.351	
4,300.00	4,275.19	4,541.58	4,561.69	15.71	16.61	166.63	-107.64	-1,380.84	1,711.23	1,679.59	31.64	54.083	
4,400.00	4,373.67	4,641.58	4,660.17	16.08	16.98	166.61	-111.90	-1,364.00	1,711.38	1,679.01	32.37	52.869	
4,500.00	4,472.16	4,741.58	4,758.64	16.45	17.35	166.59	-116.17	-1,347.17	1,711.53	1,678.43	33.10	51.706	
4,600.00	4,570.64	4,841.58	4,857.12	16.82	17.71	166.57	-120.44	-1,330.34	1,711.68	1,677.85	33.83	50.592	
4,700.00	4,669.12	4,941.57	4,955.60	17.18	18.08	166.55	-124.70	-1,313.50	1,711.83	1,677.27	34.57	49.523	
4,800.00	4,767.60	5,041.57	5,054.08	17.55	18.45	166.53	-128.97	-1,296.67	1,711.99	1,676.68	35.30	48.496	
4,900.00	4,866.08	5,141.57	5,152.56	17.92	18.82	166.51	-133.24	-1,279.83	1,712.14	1,676.10	36.04	47.511	
5,000.00	4,964.56	5,241.57	5,251.04	18.29	19.19	166.48	-137.50	-1,263.00	1,712.29	1,675.51	36.77	46.563	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Winnebago 30 State Com - 507H - OH - Plan 1 02-04-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,063.05	5,341.57	5,349.52	18.66	19.57	166.46	-141.77	-1,246.16	1,712.44	1,674.93	37.51	45.652	
5,200.00	5,161.53	5,441.57	5,447.99	19.03	19.94	166.44	-146.04	-1,229.33	1,712.59	1,674.34	38.25	44.775	
5,300.00	5,260.01	5,541.56	5,546.47	19.40	20.31	166.42	-150.30	-1,212.50	1,712.74	1,673.75	38.99	43.929	
5,400.00	5,358.49	5,641.56	5,644.95	19.78	20.68	166.40	-154.57	-1,195.66	1,712.89	1,673.16	39.73	43.115	
5,500.00	5,456.97	5,741.56	5,743.43	20.15	21.05	166.38	-158.84	-1,178.83	1,713.04	1,672.58	40.47	42.330	
5,600.00	5,555.45	5,841.56	5,841.91	20.52	21.42	166.36	-163.10	-1,161.99	1,713.20	1,671.99	41.21	41.572	
5,700.00	5,653.93	5,941.56	5,940.39	20.89	21.79	166.34	-167.37	-1,145.16	1,713.35	1,671.40	41.95	40.840	
5,800.00	5,752.42	6,041.55	6,038.86	21.26	22.17	166.32	-171.64	-1,128.32	1,713.50	1,670.81	42.70	40.133	
5,900.00	5,850.90	6,141.55	6,137.34	21.63	22.54	166.30	-175.90	-1,111.49	1,713.66	1,670.22	43.44	39.449	
6,000.00	5,949.38	6,241.55	6,235.82	22.01	22.91	166.28	-180.17	-1,094.65	1,713.81	1,669.62	44.18	38.789	
6,100.00	6,047.86	6,341.55	6,334.30	22.38	23.28	166.26	-184.44	-1,077.82	1,713.96	1,669.03	44.93	38.149	
6,200.00	6,146.34	6,441.55	6,432.78	22.75	23.66	166.24	-188.70	-1,060.99	1,714.12	1,668.44	45.67	37.530	
6,300.00	6,244.82	6,541.54	6,531.26	23.12	24.03	166.22	-192.97	-1,044.15	1,714.27	1,667.85	46.42	36.931	
6,400.00	6,343.31	6,641.54	6,629.74	23.50	24.40	166.20	-197.24	-1,027.32	1,714.42	1,667.26	47.16	36.350	
6,500.00	6,441.79	6,723.46	6,710.46	23.87	24.70	166.19	-200.65	-1,013.86	1,715.00	1,667.14	47.86	35.831 ES	
6,600.00	6,540.27	6,800.00	6,786.07	24.24	24.98	166.18	-203.59	-1,002.26	1,716.86	1,668.32	48.54	35.368	
6,700.00	6,638.75	6,878.65	6,863.91	24.62	25.27	166.19	-206.35	-991.37	1,720.03	1,670.80	49.22	34.944	
6,800.00	6,737.23	6,956.14	6,940.75	24.99	25.55	166.20	-208.81	-981.65	1,724.49	1,674.60	49.89	34.567	
6,900.00	6,835.71	7,033.52	7,017.61	25.36	25.83	166.23	-211.02	-972.95	1,730.25	1,679.71	50.55	34.231	
7,000.00	6,934.20	7,100.00	7,083.73	25.74	26.08	166.26	-212.71	-966.28	1,737.35	1,686.20	51.15	33.965	
7,100.00	7,032.68	7,187.86	7,171.23	26.11	26.39	166.31	-214.65	-958.61	1,745.66	1,693.83	51.83	33.677	
7,200.00	7,131.16	7,264.75	7,247.90	26.48	26.67	166.36	-216.08	-952.96	1,755.31	1,702.84	52.46	33.457	
7,300.00	7,229.64	7,341.43	7,324.43	26.86	26.95	166.42	-217.26	-948.33	1,766.24	1,713.15	53.08	33.273	
7,400.00	7,328.12	7,417.86	7,400.77	27.23	27.22	166.49	-218.18	-944.69	1,778.45	1,724.75	53.69	33.123	
7,500.00	7,426.60	7,500.00	7,482.85	27.60	27.51	166.57	-218.89	-941.89	1,791.95	1,737.62	54.32	32.986	
7,600.00	7,525.09	7,569.89	7,552.73	27.98	27.75	166.65	-219.27	-940.40	1,806.69	1,751.81	54.88	32.921	
7,700.00	7,623.57	7,645.44	7,628.27	28.35	28.01	166.74	-219.44	-939.72	1,822.72	1,767.26	55.45	32.869	
7,800.00	7,722.05	7,739.22	7,722.05	28.72	28.33	166.86	-219.44	-939.70	1,839.61	1,783.48	56.13	32.775	
7,900.00	7,820.53	7,837.70	7,820.53	29.09	28.66	166.98	-219.44	-939.70	1,856.52	1,799.69	56.83	32.667	
8,000.00	7,919.19	7,936.36	7,919.19	29.46	28.99	167.13	-219.44	-939.70	1,872.44	1,814.90	57.53	32.545	
8,100.00	8,018.12	8,035.29	8,018.12	29.83	29.32	167.26	-219.44	-939.70	1,886.68	1,828.44	58.24	32.395	
8,200.00	8,117.28	8,134.45	8,117.28	30.20	29.66	167.38	-219.44	-939.70	1,899.24	1,840.30	58.94	32.222	
8,300.00	8,216.66	8,233.83	8,216.66	30.56	30.00	167.47	-219.44	-939.70	1,910.11	1,850.47	59.65	32.024	
8,400.00	8,316.22	8,333.39	8,316.22	30.92	30.34	167.55	-219.44	-939.70	1,919.29	1,858.94	60.35	31.804	
8,500.00	8,415.92	8,433.09	8,415.92	31.28	30.68	167.62	-219.44	-939.70	1,926.77	1,865.73	61.05	31.562	
8,600.00	8,515.75	8,532.91	8,515.75	31.64	31.02	167.67	-219.44	-939.70	1,932.56	1,870.81	61.74	31.300	
8,700.00	8,615.66	8,632.82	8,615.66	31.99	31.36	167.70	-219.44	-939.70	1,936.64	1,874.20	62.44	31.017	
8,800.00	8,715.63	8,732.79	8,715.63	32.35	31.70	167.72	-219.44	-939.70	1,939.01	1,875.88	63.13	30.715	
8,900.00	8,815.62	8,832.79	8,815.62	32.68	32.05	-90.12	-219.44	-939.70	1,939.70	1,875.88	63.81	30.397	
9,000.00	8,915.62	8,932.79	8,915.62	33.01	32.39	-90.12	-219.44	-939.70	1,939.70	1,875.21	64.49	30.079	
9,100.00	9,015.62	9,032.79	9,015.62	33.35	32.74	-90.12	-219.44	-939.70	1,939.70	1,874.53	65.17	29.766	
9,200.00	9,115.62	9,132.79	9,115.62	33.69	33.08	-90.12	-219.44	-939.70	1,939.70	1,873.85	65.85	29.458	
9,300.00	9,215.62	9,232.79	9,215.62	34.02	33.43	-90.12	-219.44	-939.70	1,939.70	1,873.17	66.53	29.157	
9,400.00	9,315.62	9,332.79	9,315.62	34.36	33.77	-90.12	-219.44	-939.70	1,939.70	1,872.49	67.21	28.861	
9,500.00	9,415.62	9,432.79	9,415.62	34.70	34.12	-90.12	-219.44	-939.70	1,939.70	1,871.81	67.89	28.572	
9,600.00	9,515.62	9,532.79	9,515.62	35.04	34.46	-90.12	-219.44	-939.70	1,939.70	1,871.12	68.57	28.287	
9,700.00	9,615.62	9,632.79	9,615.62	35.38	34.81	-90.12	-219.44	-939.70	1,939.70	1,870.44	69.26	28.008	
9,800.00	9,715.62	9,732.79	9,715.62	35.72	35.16	-90.12	-219.44	-939.70	1,939.70	1,869.76	69.94	27.734	
9,900.00	9,815.52	9,833.03	9,815.82	36.09	35.53	-90.12	-217.81	-939.71	1,939.70	1,869.08	70.62	27.468	
10,000.00	9,913.60	9,933.93	9,915.25	36.63	36.07	-90.20	-201.41	-939.72	1,939.70	1,868.43	71.28	27.213	
10,100.00	10,006.93	10,035.29	10,010.68	37.12	36.58	-90.27	-167.65	-939.75	1,939.71	1,867.81	71.91	26.975	
10,200.00	10,092.66	10,137.06	10,099.02	37.54	37.02	-90.33	-117.39	-939.79	1,939.73	1,867.24	72.49	26.759	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Winnebago 30 State Com - 507H - OH - Plan 1 02-04-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,168.20	10,239.20	10,177.35	37.87	37.37	-90.38	-52.05	-939.84	1,939.74	1,866.73	73.01	26.568	
10,400.00	10,231.24	10,341.64	10,243.03	38.10	37.63	-90.42	26.38	-939.91	1,939.75	1,866.29	73.46	26.406	
10,500.00	10,279.87	10,444.30	10,293.80	38.25	37.79	-90.45	115.45	-939.98	1,939.75	1,865.92	73.83	26.272	
10,600.00	10,312.62	10,547.10	10,327.92	38.32	37.87	-90.47	212.28	-940.06	1,939.76	1,865.63	74.12	26.169	
10,700.00	10,328.48	10,649.94	10,344.21	38.34	37.89	-90.47	313.68	-940.14	1,939.76	1,865.43	74.32	26.098	
10,764.66	10,331.35	10,715.65	10,345.60	38.34	37.89	-90.42	379.36	-940.20	1,939.75	1,865.34	74.41	26.068	
10,800.00	10,329.21	10,751.03	10,345.60	38.35	37.89	-90.48	414.73	-940.23	1,939.76	1,865.29	74.47	26.048	
10,900.00	10,327.82	10,851.02	10,345.60	38.35	37.89	-90.53	514.72	-940.31	1,939.77	1,865.13	74.64	25.988	
11,000.00	10,326.42	10,951.01	10,345.60	38.36	37.89	-90.57	614.71	-940.39	1,939.79	1,864.94	74.85	25.916	
11,100.00	10,325.02	11,051.00	10,345.60	38.38	37.90	-90.61	714.70	-940.48	1,939.80	1,864.72	75.09	25.834	
11,200.00	10,323.63	11,150.99	10,345.60	38.41	37.91	-90.65	814.69	-940.56	1,939.82	1,864.46	75.36	25.742	
11,300.00	10,322.23	11,250.98	10,345.60	38.45	37.92	-90.69	914.69	-940.64	1,939.83	1,864.18	75.66	25.640	
11,400.00	10,320.83	11,350.97	10,345.60	38.53	37.95	-90.73	1,014.68	-940.72	1,939.85	1,863.86	75.99	25.529	
11,500.00	10,319.44	11,450.96	10,345.60	38.64	38.01	-90.77	1,114.67	-940.81	1,939.87	1,863.52	76.35	25.409	
11,600.00	10,318.04	11,550.95	10,345.60	38.79	38.14	-90.81	1,214.66	-940.89	1,939.89	1,863.15	76.74	25.280	
11,700.00	10,316.65	11,650.94	10,345.60	38.97	38.32	-90.86	1,314.65	-940.97	1,939.91	1,862.76	77.15	25.143	
11,800.00	10,315.25	11,750.93	10,345.60	39.18	38.53	-90.90	1,414.64	-941.05	1,939.93	1,862.33	77.60	24.999	
11,900.00	10,313.85	11,850.92	10,345.60	39.40	38.76	-90.94	1,514.63	-941.14	1,939.95	1,861.88	78.07	24.848	
12,000.00	10,312.46	11,950.91	10,345.60	39.64	39.01	-90.98	1,614.62	-941.22	1,939.98	1,861.40	78.58	24.689	
12,100.00	10,311.06	12,050.90	10,345.60	39.90	39.26	-91.02	1,714.61	-941.30	1,940.00	1,860.90	79.10	24.525	
12,200.00	10,309.66	12,150.89	10,345.60	40.17	39.54	-91.06	1,814.60	-941.38	1,940.03	1,860.37	79.66	24.354	
12,300.00	10,308.27	12,250.88	10,345.60	40.45	39.82	-91.10	1,914.59	-941.47	1,940.05	1,859.81	80.24	24.178	
12,400.00	10,306.87	12,350.87	10,345.60	40.75	40.12	-91.14	2,014.58	-941.55	1,940.08	1,859.23	80.85	23.997	
12,500.00	10,305.48	12,450.86	10,345.60	41.06	40.43	-91.18	2,114.57	-941.63	1,940.11	1,858.63	81.48	23.812	
12,600.00	10,304.08	12,550.85	10,345.60	41.38	40.75	-91.23	2,214.56	-941.72	1,940.14	1,858.01	82.13	23.623	
12,700.00	10,302.68	12,650.84	10,345.60	41.71	41.08	-91.27	2,314.55	-941.80	1,940.17	1,857.36	82.81	23.430	
12,800.00	10,301.29	12,750.83	10,345.60	42.06	41.43	-91.31	2,414.54	-941.88	1,940.20	1,856.69	83.51	23.233	
12,900.00	10,299.89	12,850.82	10,345.60	42.41	41.78	-91.35	2,514.53	-941.96	1,940.23	1,856.00	84.23	23.034	
13,000.00	10,298.50	12,950.81	10,345.60	42.78	42.15	-91.39	2,614.52	-942.05	1,940.26	1,855.29	84.98	22.833	
13,100.00	10,297.10	13,050.80	10,345.60	43.16	42.53	-91.43	2,714.51	-942.13	1,940.30	1,854.55	85.74	22.629	
13,200.00	10,295.70	13,150.79	10,345.60	43.55	42.91	-91.47	2,814.50	-942.21	1,940.33	1,853.80	86.53	22.423	
13,300.00	10,294.31	13,250.78	10,345.60	43.94	43.31	-91.51	2,914.49	-942.29	1,940.37	1,853.03	87.34	22.217	
13,400.00	10,292.91	13,350.77	10,345.60	44.35	43.72	-91.56	3,014.48	-942.38	1,940.41	1,852.24	88.17	22.009	
13,500.00	10,291.51	13,450.76	10,345.60	44.77	44.14	-91.60	3,114.47	-942.46	1,940.45	1,851.44	89.01	21.800	
13,600.00	10,290.12	13,550.75	10,345.60	45.19	44.56	-91.64	3,214.46	-942.54	1,940.49	1,850.61	89.88	21.591	
13,700.00	10,288.72	13,650.74	10,345.60	45.63	45.00	-91.68	3,314.45	-942.62	1,940.53	1,849.77	90.76	21.381	
13,800.00	10,287.33	13,750.73	10,345.60	46.07	45.44	-91.72	3,414.44	-942.71	1,940.57	1,848.91	91.66	21.172	
13,900.00	10,285.93	13,850.72	10,345.60	46.52	45.89	-91.76	3,514.43	-942.79	1,940.61	1,848.04	92.57	20.963	
14,000.00	10,284.53	13,950.71	10,345.60	46.98	46.35	-91.80	3,614.42	-942.87	1,940.65	1,847.15	93.51	20.754	
14,100.00	10,283.14	14,050.70	10,345.60	47.45	46.82	-91.84	3,714.41	-942.95	1,940.70	1,846.24	94.46	20.546	
14,200.00	10,281.74	14,150.70	10,345.60	47.92	47.30	-91.89	3,814.40	-943.04	1,940.74	1,845.32	95.42	20.339	
14,300.00	10,280.34	14,250.69	10,345.60	48.40	47.78	-91.93	3,914.39	-943.12	1,940.79	1,844.39	96.40	20.133	
14,400.00	10,278.95	14,350.68	10,345.60	48.89	48.27	-91.97	4,014.38	-943.20	1,940.84	1,843.44	97.39	19.928	
14,500.00	10,277.55	14,450.67	10,345.60	49.39	48.77	-92.01	4,114.37	-943.29	1,940.89	1,842.48	98.40	19.724	
14,600.00	10,276.16	14,550.66	10,345.60	49.89	49.27	-92.05	4,214.36	-943.37	1,940.94	1,841.51	99.42	19.522	
14,700.00	10,274.76	14,650.65	10,345.60	50.40	49.78	-92.09	4,314.35	-943.45	1,940.99	1,840.53	100.46	19.321	
14,800.00	10,273.36	14,750.64	10,345.60	50.92	50.30	-92.13	4,414.34	-943.53	1,941.04	1,839.53	101.51	19.122	
14,900.00	10,271.97	14,850.63	10,345.60	51.44	50.83	-92.17	4,514.33	-943.62	1,941.09	1,838.52	102.57	18.925	
15,000.00	10,270.57	14,950.62	10,345.60	51.97	51.36	-92.21	4,614.32	-943.70	1,941.14	1,837.50	103.64	18.730	
15,100.00	10,269.17	15,050.61	10,345.60	52.50	51.89	-92.26	4,714.31	-943.78	1,941.20	1,836.47	104.73	18.536	
15,200.00	10,267.78	15,150.60	10,345.60	53.04	52.43	-92.30	4,814.30	-943.86	1,941.25	1,835.43	105.82	18.345	
15,300.00	10,266.38	15,250.59	10,345.60	53.59	52.98	-92.34	4,914.29	-943.95	1,941.31	1,834.38	106.93	18.155	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Winnebago 30 State Com - 507H - OH - Plan 1 02-04-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	10,264.99	15,350.58	10,345.60	54.14	53.53	-92.38	5,014.28	-944.03	1,941.37	1,833.32	108.04	17.968	
15,500.00	10,263.59	15,450.57	10,345.60	54.70	54.09	-92.42	5,114.27	-944.11	1,941.43	1,832.25	109.17	17.783	
15,600.00	10,262.19	15,550.56	10,345.60	55.26	54.65	-92.46	5,214.26	-944.19	1,941.48	1,831.17	110.31	17.600	
15,700.00	10,260.80	15,650.55	10,345.60	55.82	55.22	-92.50	5,314.25	-944.28	1,941.54	1,830.09	111.46	17.420	
15,800.00	10,259.40	15,750.54	10,345.60	56.39	55.79	-92.54	5,414.24	-944.36	1,941.61	1,828.99	112.61	17.241	
15,900.00	10,258.00	15,850.53	10,345.60	56.97	56.37	-92.59	5,514.24	-944.44	1,941.67	1,827.89	113.78	17.065	
16,000.00	10,256.61	15,950.52	10,345.60	57.55	56.95	-92.63	5,614.23	-944.52	1,941.73	1,826.78	114.96	16.891	
16,100.00	10,255.21	16,050.51	10,345.60	58.13	57.53	-92.67	5,714.22	-944.61	1,941.80	1,825.66	116.14	16.720	
16,200.00	10,253.82	16,150.50	10,345.60	58.72	58.12	-92.71	5,814.21	-944.69	1,941.86	1,824.53	117.33	16.550	
16,300.00	10,252.42	16,250.49	10,345.60	59.31	58.72	-92.75	5,914.20	-944.77	1,941.93	1,823.40	118.53	16.383	
16,400.00	10,251.02	16,350.48	10,345.60	59.91	59.32	-92.79	6,014.19	-944.86	1,942.00	1,822.26	119.74	16.219	
16,500.00	10,249.63	16,450.47	10,345.60	60.51	59.92	-92.83	6,114.18	-944.94	1,942.06	1,821.11	120.95	16.056	
16,600.00	10,248.23	16,550.46	10,345.60	61.11	60.52	-92.87	6,214.17	-945.02	1,942.13	1,819.96	122.18	15.896	
16,700.00	10,246.83	16,650.45	10,345.60	61.72	61.13	-92.91	6,314.16	-945.10	1,942.20	1,818.80	123.41	15.738	
16,800.00	10,245.44	16,750.44	10,345.60	62.33	61.74	-92.96	6,414.15	-945.19	1,942.28	1,817.63	124.64	15.583	
16,900.00	10,244.04	16,850.43	10,345.60	62.94	62.36	-93.00	6,514.14	-945.27	1,942.35	1,816.46	125.89	15.429	
17,000.00	10,242.65	16,950.42	10,345.60	63.56	62.98	-93.04	6,614.13	-945.35	1,942.42	1,815.29	127.14	15.278	
17,100.00	10,241.25	17,050.41	10,345.60	64.18	63.60	-93.08	6,714.12	-945.43	1,942.50	1,814.10	128.39	15.129	
17,200.00	10,239.85	17,150.40	10,345.60	64.80	64.22	-93.12	6,814.11	-945.52	1,942.57	1,812.92	129.66	14.983	
17,300.00	10,238.46	17,250.39	10,345.60	65.43	64.85	-93.16	6,914.10	-945.60	1,942.65	1,811.72	130.92	14.838	
17,400.00	10,237.06	17,350.38	10,345.60	66.06	65.48	-93.20	7,014.09	-945.68	1,942.73	1,810.53	132.20	14.695	
17,500.00	10,235.67	17,450.37	10,345.60	66.69	66.12	-93.24	7,114.08	-945.76	1,942.80	1,809.33	133.48	14.555	
17,600.00	10,234.27	17,550.36	10,345.60	67.33	66.75	-93.28	7,214.07	-945.85	1,942.88	1,808.12	134.76	14.417	
17,700.00	10,232.87	17,650.35	10,345.60	67.97	67.39	-93.33	7,314.06	-945.93	1,942.96	1,806.91	136.06	14.281	
17,800.00	10,231.48	17,750.34	10,345.60	68.61	68.03	-93.37	7,414.05	-946.01	1,943.05	1,805.69	137.35	14.147	
17,900.00	10,230.08	17,850.33	10,345.60	69.25	68.68	-93.41	7,514.04	-946.09	1,943.13	1,804.48	138.65	14.014	
18,000.00	10,228.68	17,950.32	10,345.60	69.89	69.32	-93.45	7,614.03	-946.18	1,943.21	1,803.25	139.96	13.884	
18,100.00	10,227.29	18,050.32	10,345.60	70.54	69.97	-93.49	7,714.02	-946.26	1,943.30	1,802.03	141.27	13.756	
18,200.00	10,225.89	18,150.31	10,345.60	71.19	70.62	-93.53	7,814.01	-946.34	1,943.38	1,800.80	142.59	13.630	
18,300.00	10,224.50	18,250.30	10,345.60	71.84	71.28	-93.57	7,914.00	-946.43	1,943.47	1,799.56	143.91	13.505	
18,400.00	10,223.10	18,350.29	10,345.60	72.50	71.93	-93.61	8,013.99	-946.51	1,943.56	1,798.33	145.23	13.383	
18,500.00	10,221.70	18,450.28	10,345.60	73.16	72.59	-93.65	8,113.98	-946.59	1,943.64	1,797.09	146.56	13.262	
18,600.00	10,220.31	18,550.27	10,345.60	73.82	73.25	-93.70	8,213.97	-946.67	1,943.73	1,795.84	147.89	13.143	
18,700.00	10,218.91	18,650.26	10,345.60	74.48	73.91	-93.74	8,313.96	-946.76	1,943.82	1,794.60	149.23	13.026	
18,800.00	10,217.51	18,750.25	10,345.60	75.14	74.58	-93.78	8,413.95	-946.84	1,943.92	1,793.35	150.57	12.910	
18,900.00	10,216.12	18,850.24	10,345.60	75.80	75.24	-93.82	8,513.94	-946.92	1,944.01	1,792.09	151.91	12.797	
19,000.00	10,214.72	18,950.23	10,345.60	76.47	75.91	-93.86	8,613.93	-947.00	1,944.10	1,790.84	153.26	12.685	
19,100.00	10,213.33	19,050.22	10,345.60	77.14	76.58	-93.90	8,713.92	-947.09	1,944.20	1,789.58	154.61	12.575	
19,200.00	10,211.93	19,150.21	10,345.60	77.81	77.25	-93.94	8,813.91	-947.17	1,944.29	1,788.32	155.97	12.466	
19,300.00	10,210.53	19,250.20	10,345.60	78.48	77.93	-93.98	8,913.90	-947.25	1,944.39	1,787.06	157.33	12.359	
19,400.00	10,209.14	19,350.19	10,345.60	79.16	78.60	-94.02	9,013.89	-947.33	1,944.49	1,785.79	158.69	12.253	
19,500.00	10,207.74	19,450.18	10,345.60	79.83	79.28	-94.06	9,113.88	-947.42	1,944.58	1,784.53	160.06	12.149	
19,600.00	10,206.34	19,550.17	10,345.60	80.51	79.96	-94.11	9,213.87	-947.50	1,944.68	1,783.26	161.43	12.047	
19,700.00	10,204.95	19,650.16	10,345.60	81.19	80.64	-94.15	9,313.86	-947.58	1,944.78	1,781.99	162.80	11.946	
19,800.00	10,203.55	19,750.15	10,345.60	81.87	81.32	-94.19	9,413.85	-947.66	1,944.89	1,780.71	164.17	11.847	
19,900.00	10,202.16	19,850.14	10,345.60	82.55	82.00	-94.23	9,513.84	-947.75	1,944.99	1,779.44	165.55	11.749	
20,000.00	10,200.76	19,950.13	10,345.60	83.23	82.68	-94.27	9,613.83	-947.83	1,945.09	1,778.16	166.93	11.652	
20,100.00	10,199.36	20,050.12	10,345.60	83.92	83.37	-94.31	9,713.82	-947.91	1,945.20	1,776.88	168.31	11.557	
20,200.00	10,197.97	20,150.11	10,345.60	84.60	84.06	-94.35	9,813.81	-948.00	1,945.30	1,775.60	169.70	11.463	
20,300.00	10,196.57	20,250.10	10,345.60	85.29	84.74	-94.39	9,913.80	-948.08	1,945.41	1,774.32	171.09	11.371	
20,400.00	10,195.17	20,350.09	10,345.60	85.98	85.43	-94.43	10,013.80	-948.16	1,945.51	1,773.03	172.48	11.280	
20,500.00	10,193.78	20,450.08	10,345.60	86.67	86.12	-94.48	10,113.79	-948.24	1,945.62	1,771.75	173.88	11.190	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Offset Design: Winnebago 30 State Com - 507H - OH - Plan 1 02-04-21 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 1.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,528.91	10,193.38	20,477.82	10,345.60	86.87	86.32	-94.49	10,141.52	-948.27	1,945.66	1,771.39	174.27	11.165 SF	

PHOENIX TECHNOLOGY SERVICES

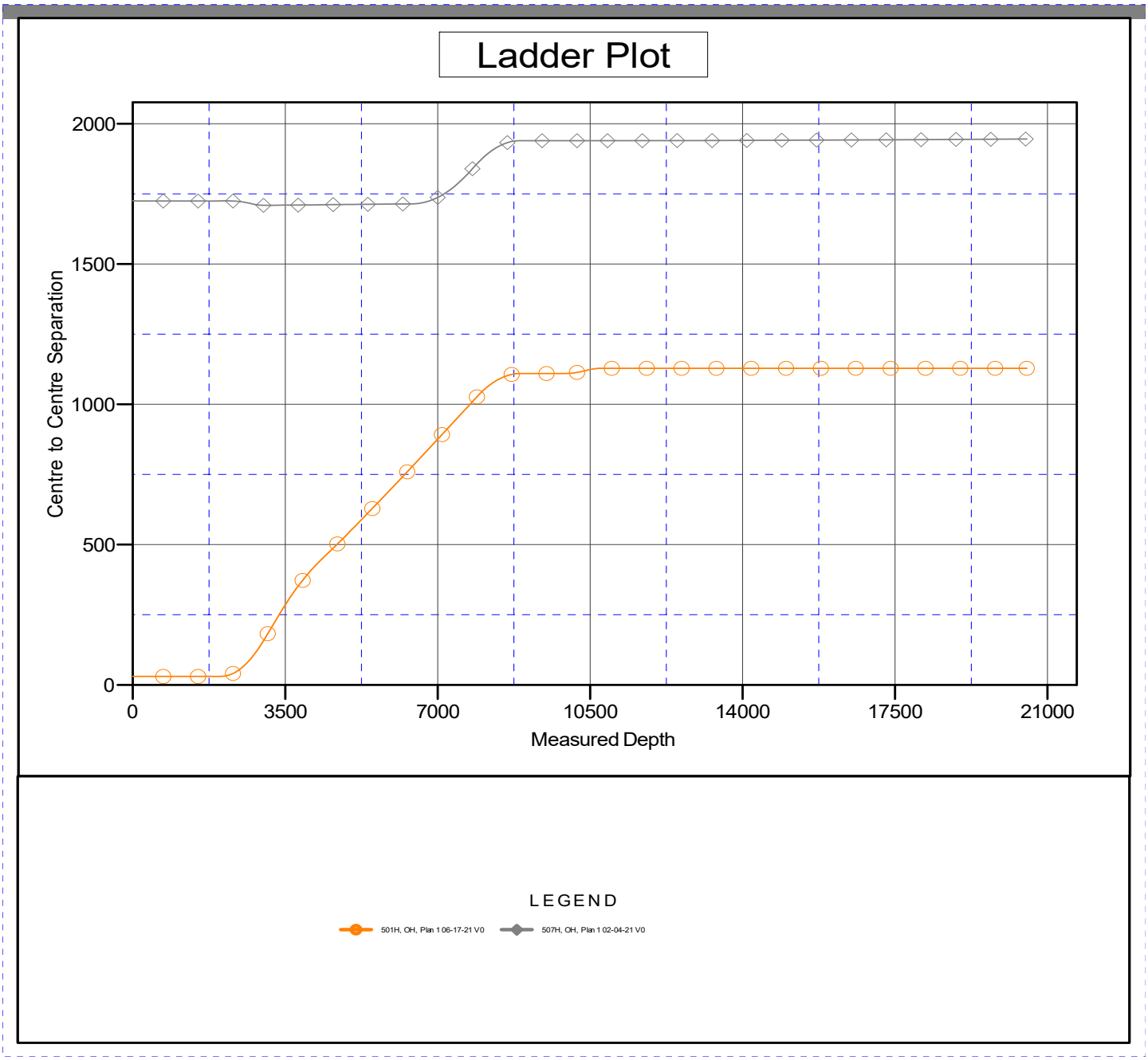
Anticollision Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to RKB @ 3563.70usft (H&P 313)
Offset Depths are relative to Offset Datum
Central Meridian is 105° 0' 0.000000 W

Coordinates are relative to: 502H
Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N
Grid Convergence at Surface is: 0.86°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

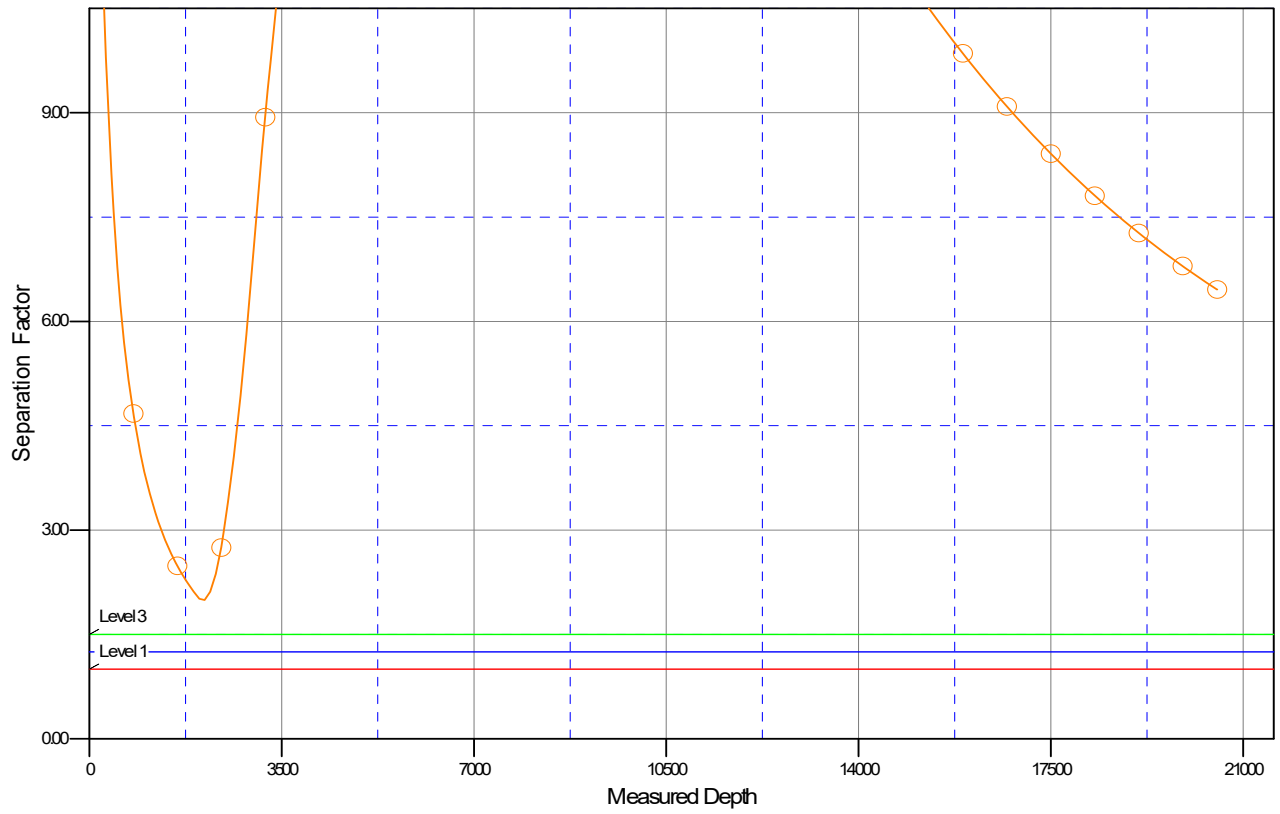
Anticollision Report

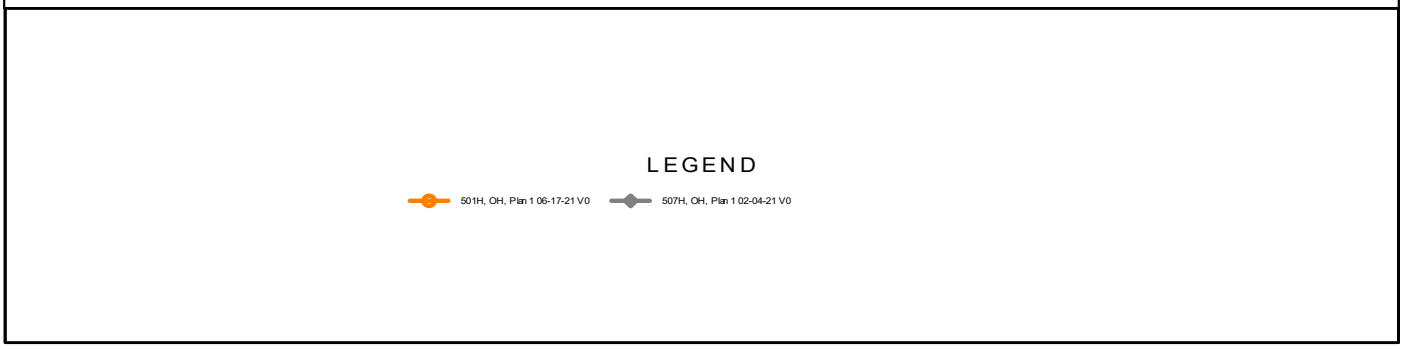
CENTENNIAL RESOURCE DEVELOPMENT, INC

Company:	Centennial Resources Development, Inc.	**Local Co-ordinate Reference:**	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**TVD Reference:**	RKB @ 3563.70usft (H&P 313)
Reference Site:	Bridge State Unit 29	**MD Reference:**	RKB @ 3563.70usft (H&P 313)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	502H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	1.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	USA Compass
Reference Design:	Plan 1 06-17-21	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to RKB @ 3563.70usft (H&P 313)	Coordinates are relative to: 502H
Offset Depths are relative to Offset Datum	Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 13N
Central Meridian is 105° 0' 0.000000 W	Grid Convergence at Surface is: 0.86°

Separation Factor Plot





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:** 07 / 09 / 21

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
Bridge State Unit 29 501H		M-29-22S-35E	319FSL&580FWL	1800 BBL/D	2160 MCF/D	11,700 BBL/D
Bridge State Unit 29 502H		M-29-22S-35E	318FSL&610FWL	1800 BBL/D	2160 MCF/D	11,700 BBL/D

IV. Central Delivery Point Name: Lucid Bridge 501 502 CDP [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
Bridge State Unit 29 501H		08/25/2021	09/07/2021	10/24/2021	11/10/2021	11/10/2021
Bridge State Unit 29 502H		09/09/2021	09/22/2021	10/24/2021	11/10/2021	11/10/2021

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.

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: Stewart B MacCallum
Printed Name: Stewart MacCallum
Title: Director of Marketing
E-mail Address: Stewart.MacCallum@cdevinc.com
Date: 07/29/2021
Phone: (720) 499-1458

OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
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 though 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

- 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