District I
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 325713

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 30-025-50706

4. Property Code	5. Property Name	6. Well No.
331805	TOSTADA 7 STATE COM	502H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	7	22S	35E	H	2294	N	1187	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	18	22S	35E	P	100	S	1210	E	Lea

9. Pool Information

OJO CHISO;BONE SPRING	96553

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3630
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	17847	2nd Bone Spring Sand		10/29/2022
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	1900	1611	0
Int1	12.25	9.625	40	5500	1330	
Prod	7.875	5.5	20	17847	1455	9858
Prod	8.75	5.5	20	10602	840	0

Casing/Cement Program: Additional Comments

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:	10/6/2022 Expiration Date: 10/6/2024
Date:	9/29/2022 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
30-025-50706	96553	Ojo Chiso; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
331805	TOSTADA 7 STATE COM	502H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372165	CENTENNIAL RESOURCE PRODUCTION, LLC	3630.1'

[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
H	7	22S	35E		2294	NORTH	1187	EAST	LEA

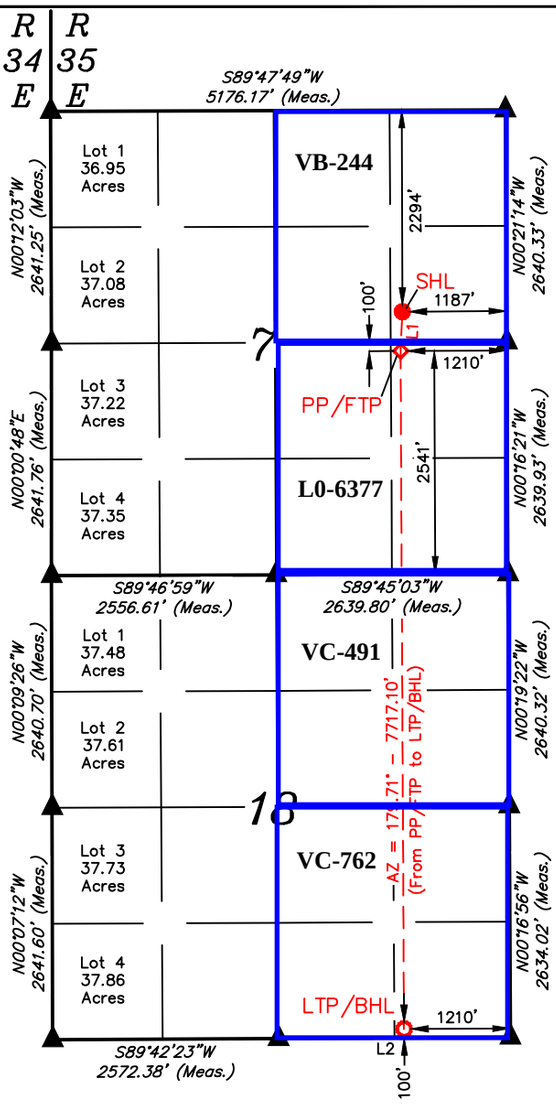
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	22S	35E		100	SOUTH	1210	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640.00			

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]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S02°36'43"W	447.15'
L2	S89°39'10"W	2639.14'

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)

● = SURFACE HOLE LOCATION
◇ = PENETRATION POINT/ FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0' 2000'

SCALE

DRAWN BY: C.D. 12-01-21

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°24'25.80" (32.407168°)
LONGITUDE = 103°24'07.47" (103.402075°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 513110.84' X: 828738.86'
UTM, NAD 83 (ZONE 13)
Y: 11767338.17' X: 2133427.81'

NAD 83 (PP/FTP)
LATITUDE = 32°24'21.39" (32.405941°)
LONGITUDE = 103°24'07.73" (103.402148°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 512664.15' X: 828720.37'
UTM, NAD 83 (ZONE 13)
Y: 11766891.42' X: 2133412.11'

NAD 83 (LTP/BHL)
LATITUDE = 32°23'05.04" (32.384733°)
LONGITUDE = 103°24'07.68" (103.402132°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 504948.57' X: 828792.29'
UTM, NAD 83 (ZONE 13)
Y: 11759177.40' X: 2133532.12'

[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.

9/29/22
Signature Date

Meghan Twele
Printed Name

meghan.twele@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.

November 11, 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 325713

PERMIT COMMENTS

Operator Name and Address:	API Number:
CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	30-025-50706
	Well: TOSTADA 7 STATE COM #502H

Created By	Comment	Comment Date
mtwele	Even though laterals of the 501H-503H are 7,500 feet and the defining well lateral is 10,000' the same spacing unit will be used. This was confirmed with outside counsel and is due to current overlapping spacing units.	9/29/2022
mtwele	Drilling 8.75-hole size for the curve and 7.875-hole size for the lateral for the 5.5 production casing string.	9/29/2022

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

Form APD Conditions

Permit 325713

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	30-025-50706
	Well: TOSTADA 7 STATE COM #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	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	Will require administrative order for non-standard spacing unit

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

KZ 06/29/2018

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:** 08 / 22 / 2022

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
Tostada 7 State Com 501H		H-7-22S-35E	2294FNL&1217FEL	3,600 BBL/D	4,320 MCF/D	16,200 BBL/D
Tostada 7 State Com 502H		H-7-22S-35E	2294FNL&1187FEL	3,600 BBL/D	4,320 MCF/D	16,200 BBL/D
Tostada 7 State Com 503H		H-7-22S-35E	2294FNL&1157FEL	3,600 BBL/D	4,320 MCF/D	16,200 BBL/D

IV. Central Delivery Point Name: Chimichanga 12 State 601 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
Tostada 7 State Com 501H		9/27/2022	10/9/2022	12/27/2022	1/19/2023	1/19/2023
Tostada 7 State Com 502H		10/9/2022	10/21/2022	12/27/2022	1/19/2023	1/19/2023
Tostada 7 State Com 503H		10/21/2022	11/2/2022	12/27/2022	1/19/2023	1/19/2023

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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 MacCallum
Printed Name:	Stewart MacCallum
Title:	Director of Marketing
E-mail Address:	Stewart.MacCallum@cdevinc.com
Date:	08/22/2022
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

CENTENNIAL RESOURCE DEVELOPMENT, INC

Project: Lea County, NM (NAD83 - UTM Zone 13)
Site: Tostada
Well: Tostada 7 State Com 502H
Wellbore: OH
Design: Plan 1 09-19-22
Rig: H&P 296

PHOENIX TECHNOLOGY SERVICES

Azimuths to True North
Magnetic North: 6.36°

Magnetic Field
Strength: 47713.5nT
Dip Angle: 60.07°
Date: 11/9/2022
Model: MVHD

RKB @ 3656.10usft (H&P 296)
Ground Level: 3630.10

WELL DETAILS

Ground Level: 3630.10

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	11767338.17	2133427.81	32° 24' 25.804964 N	103° 24' 7.470373 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 1.00°/100' Build
3	3000.04	10.00	182.87	2994.97	-86.94	-4.36	1.00	182.869	86.95		Hold 10.00° Inc at 182.87° Azm
4	4571.98	10.00	182.87	4543.03	-359.58	-18.02	0.00	0.000	359.61		Begin 1.00°/100' Drop
5	5572.02	0.00	0.00	5538.00	-446.52	-22.38	1.00	180.000	446.57		Begin Vertical Hold
6	9857.91	0.00	0.00	9823.89	-446.52	-22.38	0.00	0.000	446.57		KOP2, Begin 12.00°/100' Build
7	10602.08	89.30	179.97	10301.32	-918.15	-22.09	12.00	179.965	918.20		LP, Hold 89.30° Inc at 179.97° Azm
8	17846.88	89.30	179.97	10389.83	-8162.41	-17.71	0.00	0.000	8162.43	BHL - Tostada 7 State Com 502H	TD at 17846.88

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL - 502H - 2294' FNL / 1187' FEL	0.00	0.00	0.00	11767338.17	2133427.81	32° 24' 25.804964 N	103° 24' 7.470373 W
FTP - 502H - 2541' FSL / 1210' FEL	10295.56	-446.52	-22.38	11766891.42	2133412.11	32° 24' 21.386706 N	103° 24' 7.731404 W
FTP - Tostada 7 State Com 502H	10295.56	-446.52	-22.38	11766891.42	2133412.11	32° 24' 21.386706 N	103° 24' 7.731404 W
BHL - 502H - 100' FSL / 1210' FEL	10389.83	-8162.41	-17.71	11759177.40	2133532.12	32° 23' 5.038779 N	103° 24' 7.676318 W
BHL - Tostada 7 State Com 502H	10389.83	-8162.41	-17.71	11759177.40	2133532.12	32° 23' 5.038779 N	103° 24' 7.676318 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1891.10	1891.10	Rustler
2376.25	2376.52	Salado
3531.32	3544.66	BX BLM (Fletcher Anhydrite)
4017.36	4038.21	Base of Last Salt
4238.84	4263.10	Yates
4577.57	4607.03	Capitan
5835.56	5869.58	Cherry Canyon
6141.56	6175.58	Manzanita Lime
7131.56	7165.58	Brushy Canyon
8484.56	8518.58	Bone Spring Lime
8604.56	8638.58	Avalon
9513.56	9547.58	First Bone Spring Sand
9701.56	9735.58	Second Bone Spring Shale
10071.40	10118.11	Second Bone Spring Sand
10279.65	10463.40	TGT Top at 0' VS

Map System: Universal Transverse Mercator (US Survey Feet)
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: Zone 13N (108 W to 102 W)

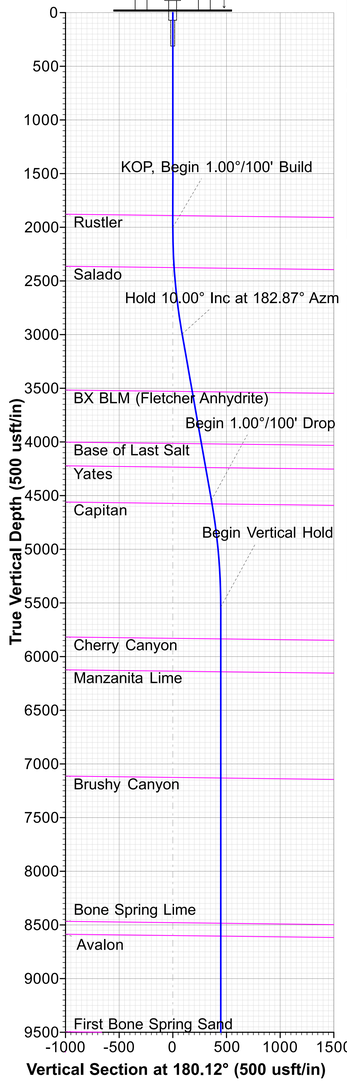
Local Origin: Well Tostada 7 State Com 502H, True North

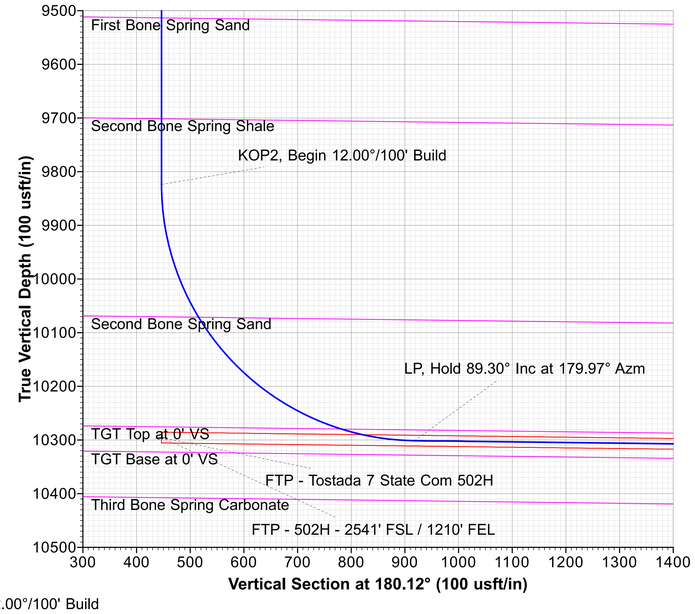
Latitude: 32° 24' 25.804964 N
Longitude: 103° 24' 7.470373 W

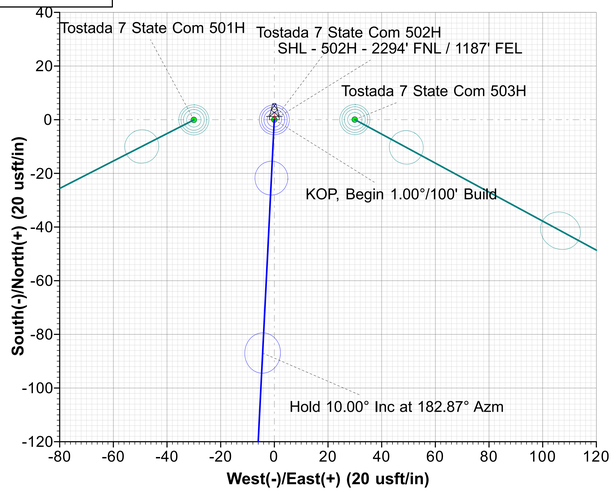
Grid East: 2133427.81
Grid North: 11767338.17
Scale Factor: 1.000

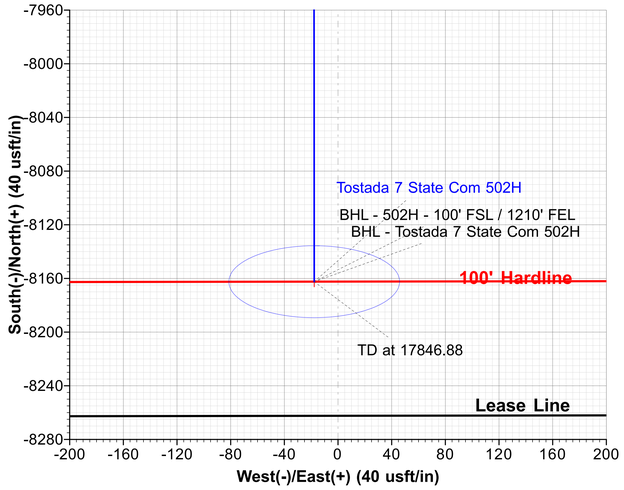
Geomagnetic Model: MVHD
Sample Date: 09-Nov-22
Magnetic Declination: 6.359°
Dip Angle from Horizontal: 60.067°
Magnetic Field Strength: 47713.45946125nT

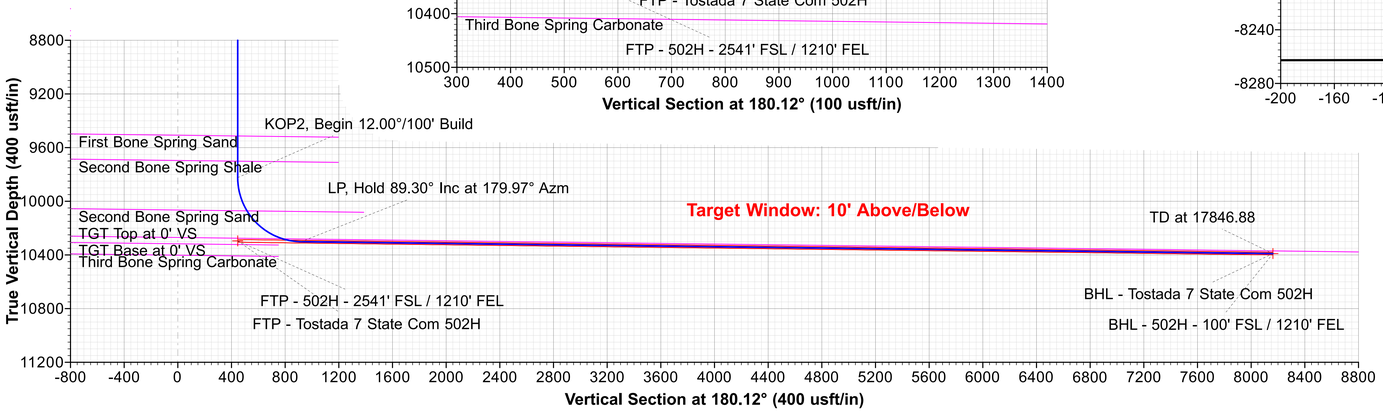
To convert a Magnetic Direction to a Grid Direction, Add 5.503°
To convert a Magnetic Direction to a True Direction, Add 6.359° East
To convert a True Direction to a Grid Direction, Subtract 0.857°

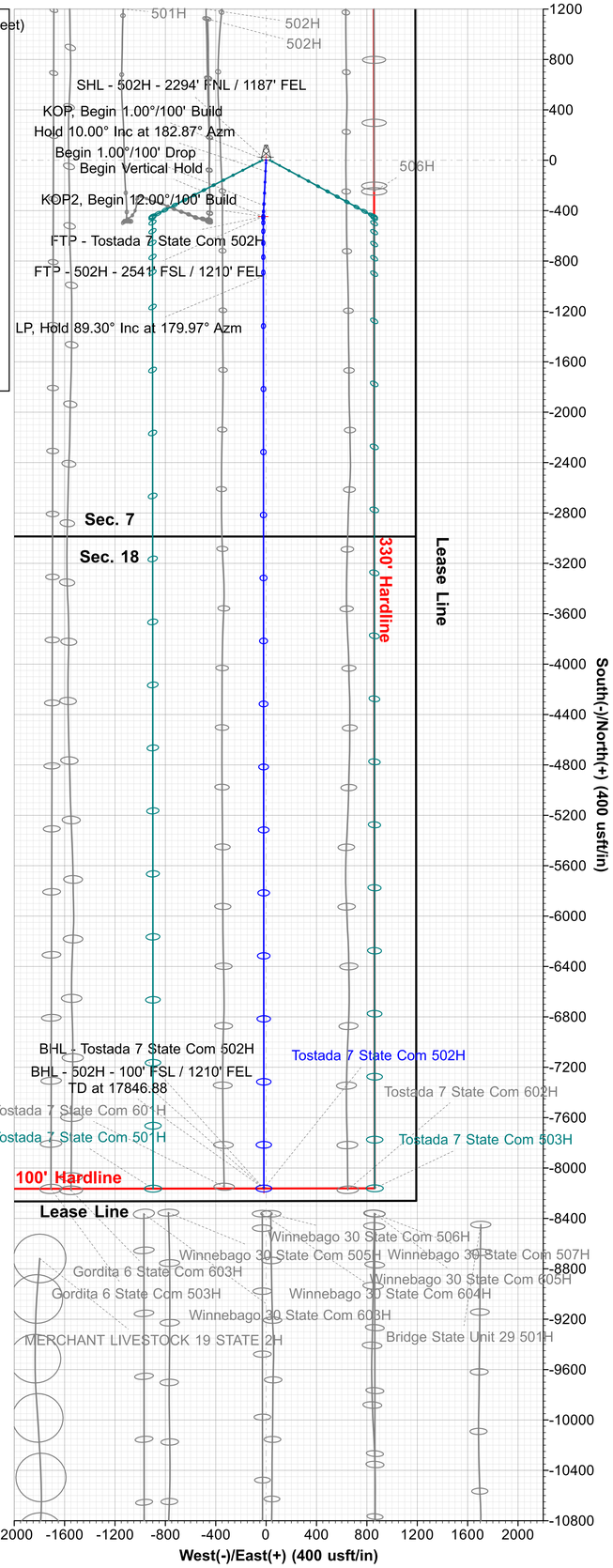












Date: 9:48, September 19 2022

PHOENIX
TECHNOLOGY SERVICES

Centennial Resources Development, Inc.

Lea County, NM (NAD83 - UTM Zone 13)
Tostada
Tostada 7 State Com 502H

OH

Plan: Plan 1 09-19-22

Standard Planning Report

19 September, 2022

CENTENNIAL
RESOURCE DEVELOPMENT, INC

PHOENIX TECHNOLOGY SERVICES

Planning Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well Tostada7 State Com 502H
Company:	Centennial Resources Development, Inc.	**TVD Reference:**	RKB @ 3656.10usft (H&P 296)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**MD Reference:**	RKB @ 3656.10usft (H&P 296)
Site:	Tostada	**North Reference:**	True
Well:	Tostada 7 State Com 502H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 09-19-22		

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 Tostada

Site Position:		**Northing:**	11,769,435.42 usft	**Latitude:**	32° 24' 46.581421 N
From:	Map	**Easting:**	2,133,263.76 usft	**Longitude:**	103° 24' 9.018157 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Tostada 7 State Com 502H

Well Position	**+N/-S**	-2,099.72 usft	**Northing:**	11,767,338.17 usft	**Latitude:**	32° 24' 25.804965 N
	+E/-W	132.69 usft	**Easting:**	2,133,427.81 usft	**Longitude:**	103° 24' 7.470373 W
Position Uncertainty		1.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,630.10 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	11/9/2022	6.359	60.067	47,713.45946125

Design Plan 1 09-19-22

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.12

Plan Survey Tool Program **Date** 9/19/2022

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,846.88	Plan 1 09-19-22 (OH)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Mult	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,000.04	10.00	182.87	2,994.97	-86.94	-4.36	1.00	1.00	0.00	182.869	
4,571.98	10.00	182.87	4,543.03	-359.58	-18.02	0.00	0.00	0.00	0.000	
5,572.02	0.00	0.00	5,538.00	-446.52	-22.38	1.00	-1.00	0.00	180.000	
9,857.91	0.00	0.00	9,823.89	-446.52	-22.38	0.00	0.00	0.00	0.000	
10,602.08	89.30	179.97	10,301.32	-918.15	-22.09	12.00	12.00	0.00	179.965	
17,846.88	89.30	179.97	10,389.83	-8,162.41	-17.71	0.00	0.00	0.00	0.000	BHL - Tostada 7 Sta

PHOENIX TECHNOLOGY SERVICES

Planning Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well Tostada7 State Com 502H
Company:	Centennial Resources Development, Inc.	**TVD Reference:**	RKB @ 3656.10usft (H&P 296)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**MD Reference:**	RKB @ 3656.10usft (H&P 296)
Site:	Tostada	**North Reference:**	True
Well:	Tostada 7 State Com 502H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 09-19-22		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,891.10	0.00	0.00	1,891.10	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.00°/100' Build									
2,100.00	1.00	182.87	2,099.99	-0.87	-0.04	0.87	1.00	1.00	0.00
2,200.00	2.00	182.87	2,199.96	-3.49	-0.17	3.49	1.00	1.00	0.00
2,300.00	3.00	182.87	2,299.86	-7.84	-0.39	7.84	1.00	1.00	0.00
2,376.52	3.77	182.87	2,376.25	-12.35	-0.62	12.35	1.00	1.00	0.00
Salado									
2,400.00	4.00	182.87	2,399.68	-13.94	-0.70	13.94	1.00	1.00	0.00
2,500.00	5.00	182.87	2,499.37	-21.78	-1.09	21.78	1.00	1.00	0.00
2,600.00	6.00	182.87	2,598.90	-31.35	-1.57	31.35	1.00	1.00	0.00
2,700.00	7.00	182.87	2,698.26	-42.65	-2.14	42.66	1.00	1.00	0.00
2,800.00	8.00	182.87	2,797.40	-55.69	-2.79	55.70	1.00	1.00	0.00
2,900.00	9.00	182.87	2,896.30	-70.45	-3.53	70.46	1.00	1.00	0.00
3,000.00	10.00	182.87	2,994.93	-86.94	-4.36	86.95	1.00	1.00	0.00
3,000.04	10.00	182.87	2,994.97	-86.94	-4.36	86.95	1.00	1.00	0.00
Hold 10.00° Inc at 182.87° Azm									
3,100.00	10.00	182.87	3,093.41	-104.28	-5.23	104.29	0.00	0.00	0.00
3,200.00	10.00	182.87	3,191.89	-121.62	-6.10	121.64	0.00	0.00	0.00
3,300.00	10.00	182.87	3,290.37	-138.97	-6.97	138.98	0.00	0.00	0.00
3,400.00	10.00	182.87	3,388.85	-156.31	-7.83	156.33	0.00	0.00	0.00
3,500.00	10.00	182.87	3,487.33	-173.65	-8.70	173.67	0.00	0.00	0.00
3,544.66	10.00	182.87	3,531.32	-181.40	-9.09	181.42	0.00	0.00	0.00
BX BLM (Fletcher Anhydrite)									
3,600.00	10.00	182.87	3,585.81	-191.00	-9.57	191.02	0.00	0.00	0.00
3,700.00	10.00	182.87	3,684.30	-208.34	-10.44	208.36	0.00	0.00	0.00
3,800.00	10.00	182.87	3,782.78	-225.69	-11.31	225.71	0.00	0.00	0.00
3,900.00	10.00	182.87	3,881.26	-243.03	-12.18	243.06	0.00	0.00	0.00
4,000.00	10.00	182.87	3,979.74	-260.37	-13.05	260.40	0.00	0.00	0.00
4,038.21	10.00	182.87	4,017.36	-267.00	-13.38	267.03	0.00	0.00	0.00
Base of Last Salt									
4,100.00	10.00	182.87	4,078.22	-277.72	-13.92	277.75	0.00	0.00	0.00
4,200.00	10.00	182.87	4,176.70	-295.06	-14.79	295.09	0.00	0.00	0.00
4,263.10	10.00	182.87	4,238.84	-306.00	-15.34	306.04	0.00	0.00	0.00
Yates									
4,300.00	10.00	182.87	4,275.18	-312.40	-15.66	312.44	0.00	0.00	0.00
4,400.00	10.00	182.87	4,373.66	-329.75	-16.53	329.78	0.00	0.00	0.00
4,500.00	10.00	182.87	4,472.14	-347.09	-17.40	347.13	0.00	0.00	0.00
4,571.98	10.00	182.87	4,543.03	-359.58	-18.02	359.61	0.00	0.00	0.00
Begin 1.00°/100' Drop									
4,600.00	9.72	182.87	4,570.63	-364.37	-18.26	364.41	1.00	-1.00	0.00
4,607.03	9.65	182.87	4,577.57	-365.55	-18.32	365.59	1.00	-1.00	0.00
Capitan									
4,700.00	8.72	182.87	4,669.34	-380.37	-19.06	380.41	1.00	-1.00	0.00
4,800.00	7.72	182.87	4,768.31	-394.65	-19.78	394.69	1.00	-1.00	0.00
4,900.00	6.72	182.87	4,867.52	-407.20	-20.41	407.25	1.00	-1.00	0.00
5,000.00	5.72	182.87	4,966.93	-418.02	-20.95	418.07	1.00	-1.00	0.00
5,100.00	4.72	182.87	5,066.51	-427.11	-21.41	427.16	1.00	-1.00	0.00
5,200.00	3.72	182.87	5,166.24	-434.46	-21.78	434.51	1.00	-1.00	0.00
5,300.00	2.72	182.87	5,266.08	-440.07	-22.06	440.12	1.00	-1.00	0.00
5,400.00	1.72	182.87	5,366.00	-443.94	-22.25	443.99	1.00	-1.00	0.00

PHOENIX TECHNOLOGY SERVICES

Planning Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well Tostada7 State Com 502H
Company:	Centennial Resources Development, Inc.	**TVD Reference:**	RKB @ 3656.10usft (H&P 296)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**MD Reference:**	RKB @ 3656.10usft (H&P 296)
Site:	Tostada	**North Reference:**	True
Well:	Tostada 7 State Com 502H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 09-19-22		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,500.00	0.72	182.87	5,465.98	-446.07	-22.36	446.11	1.00	-1.00	0.00
5,572.02	0.00	0.00	5,538.00	-446.52	-22.38	446.57	1.00	-1.00	0.00
Begin Vertical Hold									
5,869.58	0.00	0.00	5,835.56	-446.52	-22.38	446.57	0.00	0.00	0.00
Cherry Canyon									
6,175.58	0.00	0.00	6,141.56	-446.52	-22.38	446.57	0.00	0.00	0.00
Manzanita Lime									
7,165.58	0.00	0.00	7,131.56	-446.52	-22.38	446.57	0.00	0.00	0.00
Brushy Canyon									
8,518.58	0.00	0.00	8,484.56	-446.52	-22.38	446.57	0.00	0.00	0.00
Bone Spring Lime									
8,638.58	0.00	0.00	8,604.56	-446.52	-22.38	446.57	0.00	0.00	0.00
Avalon									
9,547.58	0.00	0.00	9,513.56	-446.52	-22.38	446.57	0.00	0.00	0.00
First Bone Spring Sand									
9,735.58	0.00	0.00	9,701.56	-446.52	-22.38	446.57	0.00	0.00	0.00
Second Bone Spring Shale									
9,857.91	0.00	0.00	9,823.89	-446.52	-22.38	446.57	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
9,900.00	5.05	179.97	9,865.92	-448.37	-22.38	448.42	12.00	12.00	0.00
10,000.00	17.05	179.97	9,963.89	-467.51	-22.37	467.55	12.00	12.00	0.00
10,100.00	29.05	179.97	10,055.74	-506.59	-22.34	506.64	12.00	12.00	0.00
10,118.11	31.22	179.97	10,071.40	-515.68	-22.34	515.73	12.00	12.00	0.00
Second Bone Spring Sand									
10,200.00	41.05	179.97	10,137.45	-563.91	-22.31	563.96	12.00	12.00	0.00
10,300.00	53.05	179.97	10,205.46	-636.98	-22.26	637.02	12.00	12.00	0.00
10,400.00	65.05	179.97	10,256.80	-722.58	-22.21	722.63	12.00	12.00	0.00
10,463.40	72.66	179.97	10,279.65	-781.67	-22.18	781.72	12.00	12.00	0.00
TGT Top at 0' VS									
10,500.00	77.05	179.97	10,289.21	-816.99	-22.16	817.03	12.00	12.00	0.00
10,600.00	89.05	179.97	10,301.29	-916.07	-22.10	916.12	12.00	12.00	0.00
10,602.08	89.30	179.97	10,301.32	-918.15	-22.09	918.20	12.00	12.00	0.00
LP, Hold 89.30° Inc at 179.97° Azm									
10,700.00	89.30	179.97	10,302.51	-1,016.07	-22.04	1,016.11	0.00	0.00	0.00
10,800.00	89.30	179.97	10,303.74	-1,116.06	-21.97	1,116.10	0.00	0.00	0.00
10,900.00	89.30	179.97	10,304.96	-1,216.05	-21.91	1,216.10	0.00	0.00	0.00
11,000.00	89.30	179.97	10,306.18	-1,316.04	-21.85	1,316.09	0.00	0.00	0.00
11,100.00	89.30	179.97	10,307.40	-1,416.04	-21.79	1,416.08	0.00	0.00	0.00
11,200.00	89.30	179.97	10,308.62	-1,516.03	-21.73	1,516.07	0.00	0.00	0.00
11,300.00	89.30	179.97	10,309.84	-1,616.02	-21.67	1,616.06	0.00	0.00	0.00
11,400.00	89.30	179.97	10,311.07	-1,716.01	-21.61	1,716.06	0.00	0.00	0.00
11,500.00	89.30	179.97	10,312.29	-1,816.01	-21.55	1,816.05	0.00	0.00	0.00
11,600.00	89.30	179.97	10,313.51	-1,916.00	-21.49	1,916.04	0.00	0.00	0.00
11,700.00	89.30	179.97	10,314.73	-2,015.99	-21.43	2,016.03	0.00	0.00	0.00
11,800.00	89.30	179.97	10,315.95	-2,115.98	-21.37	2,116.02	0.00	0.00	0.00
11,900.00	89.30	179.97	10,317.18	-2,215.98	-21.31	2,216.02	0.00	0.00	0.00
12,000.00	89.30	179.97	10,318.40	-2,315.97	-21.25	2,316.01	0.00	0.00	0.00
12,100.00	89.30	179.97	10,319.62	-2,415.96	-21.19	2,416.00	0.00	0.00	0.00
12,200.00	89.30	179.97	10,320.84	-2,515.95	-21.13	2,515.99	0.00	0.00	0.00
12,300.00	89.30	179.97	10,322.06	-2,615.95	-21.07	2,615.99	0.00	0.00	0.00
12,400.00	89.30	179.97	10,323.28	-2,715.94	-21.01	2,715.98	0.00	0.00	0.00
12,500.00	89.30	179.97	10,324.51	-2,815.93	-20.95	2,815.97	0.00	0.00	0.00

PHOENIX TECHNOLOGY SERVICES

Planning Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

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Company:	Centennial Resources Development, Inc.	**TVD Reference:**	RKB @ 3656.10usft (H&P 296)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**MD Reference:**	RKB @ 3656.10usft (H&P 296)
Site:	Tostada	**North Reference:**	True
Well:	Tostada 7 State Com 502H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 09-19-22		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,600.00	89.30	179.97	10,325.73	-2,915.92	-20.88	2,915.96	0.00	0.00	0.00
12,700.00	89.30	179.97	10,326.95	-3,015.92	-20.82	3,015.95	0.00	0.00	0.00
12,800.00	89.30	179.97	10,328.17	-3,115.91	-20.76	3,115.95	0.00	0.00	0.00
12,900.00	89.30	179.97	10,329.39	-3,215.90	-20.70	3,215.94	0.00	0.00	0.00
13,000.00	89.30	179.97	10,330.61	-3,315.89	-20.64	3,315.93	0.00	0.00	0.00
13,100.00	89.30	179.97	10,331.84	-3,415.89	-20.58	3,415.92	0.00	0.00	0.00
13,200.00	89.30	179.97	10,333.06	-3,515.88	-20.52	3,515.91	0.00	0.00	0.00
13,300.00	89.30	179.97	10,334.28	-3,615.87	-20.46	3,615.91	0.00	0.00	0.00
13,400.00	89.30	179.97	10,335.50	-3,715.86	-20.40	3,715.90	0.00	0.00	0.00
13,500.00	89.30	179.97	10,336.72	-3,815.86	-20.34	3,815.89	0.00	0.00	0.00
13,600.00	89.30	179.97	10,337.94	-3,915.85	-20.28	3,915.88	0.00	0.00	0.00
13,700.00	89.30	179.97	10,339.17	-4,015.84	-20.22	4,015.88	0.00	0.00	0.00
13,800.00	89.30	179.97	10,340.39	-4,115.83	-20.16	4,115.87	0.00	0.00	0.00
13,900.00	89.30	179.97	10,341.61	-4,215.83	-20.10	4,215.86	0.00	0.00	0.00
14,000.00	89.30	179.97	10,342.83	-4,315.82	-20.04	4,315.85	0.00	0.00	0.00
14,100.00	89.30	179.97	10,344.05	-4,415.81	-19.98	4,415.84	0.00	0.00	0.00
14,200.00	89.30	179.97	10,345.27	-4,515.80	-19.92	4,515.84	0.00	0.00	0.00
14,300.00	89.30	179.97	10,346.50	-4,615.80	-19.86	4,615.83	0.00	0.00	0.00
14,400.00	89.30	179.97	10,347.72	-4,715.79	-19.79	4,715.82	0.00	0.00	0.00
14,500.00	89.30	179.97	10,348.94	-4,815.78	-19.73	4,815.81	0.00	0.00	0.00
14,600.00	89.30	179.97	10,350.16	-4,915.77	-19.67	4,915.80	0.00	0.00	0.00
14,700.00	89.30	179.97	10,351.38	-5,015.77	-19.61	5,015.80	0.00	0.00	0.00
14,800.00	89.30	179.97	10,352.60	-5,115.76	-19.55	5,115.79	0.00	0.00	0.00
14,900.00	89.30	179.97	10,353.83	-5,215.75	-19.49	5,215.78	0.00	0.00	0.00
15,000.00	89.30	179.97	10,355.05	-5,315.74	-19.43	5,315.77	0.00	0.00	0.00
15,100.00	89.30	179.97	10,356.27	-5,415.74	-19.37	5,415.77	0.00	0.00	0.00
15,200.00	89.30	179.97	10,357.49	-5,515.73	-19.31	5,515.76	0.00	0.00	0.00
15,300.00	89.30	179.97	10,358.71	-5,615.72	-19.25	5,615.75	0.00	0.00	0.00
15,400.00	89.30	179.97	10,359.93	-5,715.71	-19.19	5,715.74	0.00	0.00	0.00
15,500.00	89.30	179.97	10,361.16	-5,815.71	-19.13	5,815.73	0.00	0.00	0.00
15,600.00	89.30	179.97	10,362.38	-5,915.70	-19.07	5,915.73	0.00	0.00	0.00
15,700.00	89.30	179.97	10,363.60	-6,015.69	-19.01	6,015.72	0.00	0.00	0.00
15,800.00	89.30	179.97	10,364.82	-6,115.68	-18.95	6,115.71	0.00	0.00	0.00
15,900.00	89.30	179.97	10,366.04	-6,215.68	-18.89	6,215.70	0.00	0.00	0.00
16,000.00	89.30	179.97	10,367.26	-6,315.67	-18.83	6,315.69	0.00	0.00	0.00
16,100.00	89.30	179.97	10,368.49	-6,415.66	-18.77	6,415.69	0.00	0.00	0.00
16,200.00	89.30	179.97	10,369.71	-6,515.65	-18.71	6,515.68	0.00	0.00	0.00
16,300.00	89.30	179.97	10,370.93	-6,615.65	-18.64	6,615.67	0.00	0.00	0.00
16,400.00	89.30	179.97	10,372.15	-6,715.64	-18.58	6,715.66	0.00	0.00	0.00
16,500.00	89.30	179.97	10,373.37	-6,815.63	-18.52	6,815.66	0.00	0.00	0.00
16,600.00	89.30	179.97	10,374.59	-6,915.62	-18.46	6,915.65	0.00	0.00	0.00
16,700.00	89.30	179.97	10,375.82	-7,015.62	-18.40	7,015.64	0.00	0.00	0.00
16,800.00	89.30	179.97	10,377.04	-7,115.61	-18.34	7,115.63	0.00	0.00	0.00
16,900.00	89.30	179.97	10,378.26	-7,215.60	-18.28	7,215.62	0.00	0.00	0.00
17,000.00	89.30	179.97	10,379.48	-7,315.59	-18.22	7,315.62	0.00	0.00	0.00
17,100.00	89.30	179.97	10,380.70	-7,415.59	-18.16	7,415.61	0.00	0.00	0.00
17,200.00	89.30	179.97	10,381.93	-7,515.58	-18.10	7,515.60	0.00	0.00	0.00
17,300.00	89.30	179.97	10,383.15	-7,615.57	-18.04	7,615.59	0.00	0.00	0.00
17,400.00	89.30	179.97	10,384.37	-7,715.56	-17.98	7,715.59	0.00	0.00	0.00
17,500.00	89.30	179.97	10,385.59	-7,815.56	-17.92	7,815.58	0.00	0.00	0.00
17,600.00	89.30	179.97	10,386.81	-7,915.55	-17.86	7,915.57	0.00	0.00	0.00
17,700.00	89.30	179.97	10,388.03	-8,015.54	-17.80	8,015.56	0.00	0.00	0.00
17,800.00	89.30	179.97	10,389.26	-8,115.53	-17.74	8,115.55	0.00	0.00	0.00
17,846.88	89.30	179.97	10,389.83	-8,162.41	-17.71	8,162.43	0.00	0.00	0.00

PHOENIX TECHNOLOGY SERVICES

Planning Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well Tostada 7 State Com 502H
Company:	Centennial Resources Development, Inc.	**TVD Reference:**	RKB @ 3656.10usft (H&P 296)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**MD Reference:**	RKB @ 3656.10usft (H&P 296)
Site:	Tostada	**North Reference:**	True
Well:	Tostada 7 State Com 502H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 09-19-22		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
TD at 17846.88									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL - 502H - 2294' FN - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	11,767,338.17	2,133,427.81	32° 24' 25.804965 N	103° 24' 7.470373 W
FTP - Tostada 7 State - plan misses target center by 193.93usft at 10221.84usft MD (10153.59 TVD, -578.63 N, -22.30 E) - Point	0.00	0.00	10,295.56	-446.52	-22.38	11,766,891.42	2,133,412.11	32° 24' 21.386706 N	103° 24' 7.731404 W
FTP - 502H - 2541' FS - plan misses target center by 193.93usft at 10221.84usft MD (10153.59 TVD, -578.63 N, -22.30 E) - Point	0.00	0.00	10,295.56	-446.52	-22.38	11,766,891.42	2,133,412.11	32° 24' 21.386706 N	103° 24' 7.731404 W
BHL - Tostada 7 State - plan hits target center - Rectangle (sides W0.00 H7,716.47 D20.00)	0.70	180.12	10,389.83	-8,162.41	-17.71	11,759,177.40	2,133,532.12	32° 23' 5.038779 N	103° 24' 7.676318 W
BHL - 502H - 100' FSl - plan hits target center - Point	0.00	0.00	10,389.83	-8,162.41	-17.71	11,759,177.40	2,133,532.12	32° 23' 5.038779 N	103° 24' 7.676318 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,891.10	1,891.10	Rustler		0.700	180.12
2,376.52	2,376.25	Salado		0.700	180.12
3,544.66	3,531.32	BX BLM (Fletcher Anhydrite)		0.700	180.12
4,038.21	4,017.36	Base of Last Salt		0.700	180.12
4,263.10	4,238.84	Yates		0.700	180.12
4,607.03	4,577.57	Capitan		0.700	180.12
5,869.58	5,835.56	Cherry Canyon		0.700	180.12
6,175.58	6,141.56	Manzanita Lime		0.700	180.12
7,165.58	7,131.56	Brushy Canyon		0.700	180.12
8,518.58	8,484.56	Bone Spring Lime		0.700	180.12
8,638.58	8,604.56	Avalon		0.700	180.12
9,547.58	9,513.56	First Bone Spring Sand		0.700	180.12
9,735.58	9,701.56	Second Bone Spring Shale		0.700	180.12
10,118.11	10,071.40	Second Bone Spring Sand		0.700	180.12
10,463.40	10,279.65	TGT Top at 0' VS		0.700	180.12

PHOENIX TECHNOLOGY SERVICES

Planning Report

CENTENNIAL RESOURCE DEVELOPMENT, INC

Database:	USA Compass	**Local Co-ordinate Reference:**	Well Tostada7 State Com 502H
Company:	Centennial Resources Development, Inc.	**TVD Reference:**	RKB @ 3656.10usft (H&P 296)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	**MD Reference:**	RKB @ 3656.10usft (H&P 296)
Site:	Tostada	**North Reference:**	True
Well:	Tostada 7 State Com 502H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 09-19-22		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,000.00	2,000.00	0.00	0.00	KOP, Begin 1.00°/100' Build
3,000.04	2,994.97	-86.94	-4.36	Hold 10.00° Inc at 182.87° Azm
4,571.98	4,543.03	-359.58	-18.02	Begin 1.00°/100' Drop
5,572.02	5,538.00	-446.52	-22.38	Begin Vertical Hold
9,857.91	9,823.89	-446.52	-22.38	KOP2, Begin 12.00°/100' Build
10,602.08	10,301.32	-918.15	-22.09	LP, Hold 89.30° Inc at 179.97° Azm
17,846.88	10,389.83	-8,162.41	-17.71	TD at 17846.88