

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

Form C-101
August 1, 2011

Permit 275643

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

1. Operator Name and Address CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202		2. OGRID Number 372165
		3. API Number 30-025-46594
4. Property Code 322870	5. Property Name CHORIZO 12 STATE COM	6. Well No. 603Y

7. Surface Location

UL - Lot K	Section 36	Township 21S	Range 34E	Lot Idn K	Feet From 1478	N/S Line S	Feet From 1682	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot F	Section 12	Township 22S	Range 34E	Lot Idn F	Feet From 2541	N/S Line N	Feet From 2310	E/W Line W	County Lea
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9. Pool Information

OJO CHISO;BONE SPRING	96553
GRAMA RIDGE;BONE SPRING, NE	28435

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3632
16. Multiple Y	17. Proposed Depth 21442	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 12/11/2019
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	5600	1372	0
Prod	8.5	5.5	23	21442	2509	10670
Prod	8.75	5.5	23	11570	917	0

Casing/Cement Program: Additional Comments

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

Type	Working Pressure	Test Pressure	Manufacturer
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Sarah Ferreyros	Approved By:	Paul F Kautz
Title:	Senior Regulatory Analyst	Title:	Geologist
Email Address:	Sarah.Ferreyros@cdevinc.com	Approved Date:	12/17/2019
Date:	12/11/2019	Phone:	720-499-1454
		Expiration Date:	12/17/2021
		Conditions of Approval Attached	

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

☐ AMENDED REPORT

16

● = SURFACE HOLE LOCATION
◆ = FIRST TAKE POINT/
PENETRATION POINT
○ = LAST TAKE POINT/
BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
☼ = PRODUCING WELLS
⊙ = ABANDONED/PLUGGED WELLS

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N30°11'36"E	1236.91'
L2	S89°37'34"W	2639.85'
L3	S89°45'15"W	2639.09'

NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°25'56.19" (32.432276°)	
LONGITUDE = 103°25'35.87" (103.426632°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 522180.40'	X: 821082.50'
UTM, NAD 83 (ZONE 13)	
Y: 11776358.62'	X: 2125715.98'

NAD 83 (FTP/PP)	
LATITUDE = 32°26'06.75" (32.435207°)	
LONGITUDE = 103°25'28.56" (103.424601°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 523251.94'	X: 821699.96'
UTM, NAD 83 (ZONE 13)	
Y: 11777433.86'	X: 2126326.67'

NAD 83 (LTP/BHL)	
LATITUDE = 32°24'23.37" (32.406491°)	
LONGITUDE = 103°25'28.77" (103.424658°)	
STATE PLANE NAD 83 (N.M. EAST)	
Y: 512804.51'	X: 821771.23'
UTM, NAD 83 (ZONE 13)	
Y: 11766988.41'	X: 2126463.11'

SCALE
DRAWN BY: S.T.O. 12-09-19

Section 36 (T21S, R34E) and Section 1 (T22S, R35E) are shown. Lot 1, 2, 3, and 4 are identified. Well locations include GETTY 36 STATE COM #001, GETTY 36 STATE COM #002, GETTY 1 STATE #001, and NEW MEXICO DU STATE #001. The diagram shows the path from the FTP/PP to the SHL and then to the LTP/BHL. Bearings and distances are provided for all boundaries and well paths.

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 _____

Printed Name _____

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.

June 21, 2019

Date of Survey _____

Signature and Seal of Professional Surveyor:

Certificate Number: _____

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

☐ AMENDED REPORT

16

● = SURFACE HOLE LOCATION
 ◆ = FIRST TAKE POINT/
PENETRATION POINT
 ○ = LAST TAKE POINT/
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Y: 512804.51'	X: 821771.23'
UTM, NAD 83 (ZONE 13)	
Y: 11766988.41'	X: 2126463.11'

SCALE
DRAWN BY: S.T.O. 12-09-19

The survey plat shows sections 36, 1, and 12. Section 36 is at the top, section 1 is in the middle, and section 12 is at the bottom. The plat includes various well locations: GETTY 36 STATE COM #001, GETTY 36 STATE COM #002, GETTY 1 STATE #001, and NEW MEXICO DU STATE #001. It also shows the location of a surface hole (SHL) and a bottom hole (BHL). The plat includes various measurements and bearings, such as S89°39'25"W - 5287.27' (Meas.), N00°13'05"W - 2641.93' (Meas.), and S89°41'55"W - 2632.16' (Meas.).

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 _____

Printed Name _____

E-mail Address _____

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June 21, 2019

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number: _____

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

GAS CAPTURE PLAN

Date: 12/17/2019

☒ Original

Operator & OGRID No.: [372165] CENTENNIAL RESOURCE PRODUCTION, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
CHORIZO 12 STATE COM #603Y	30-025-46594	K-36-21S-34E	1478S 1682W	2400	None	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC High Pressure gathering system located in Lea County, New Mexico. It will require 15' of pipeline to connect the facility to High Pressure gathering system. CENTENNIAL RESOURCE PRODUCTION, LLC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, CENTENNIAL RESOURCE PRODUCTION, LLC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is CENTENNIAL RESOURCE PRODUCTION, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 275643

PERMIT COMMENTS

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202		API Number: 30-025-46594
		Well: CHORIZO 12 STATE COM #603Y

Created By	Comment	Comment Date
sferreyros	We would like to name this well number "603HR" but it wouldn't allow that many characters. Is it possible to change that on your end?	12/10/2019

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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 275643

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-46594
	Well: CHORIZO 12 STATE COM #603Y

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
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 NMOC 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 at 5753703186 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.

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)

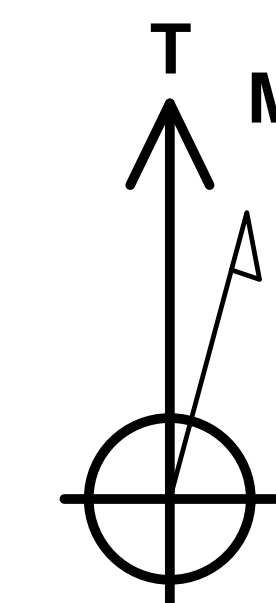
UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude			NAD	

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.

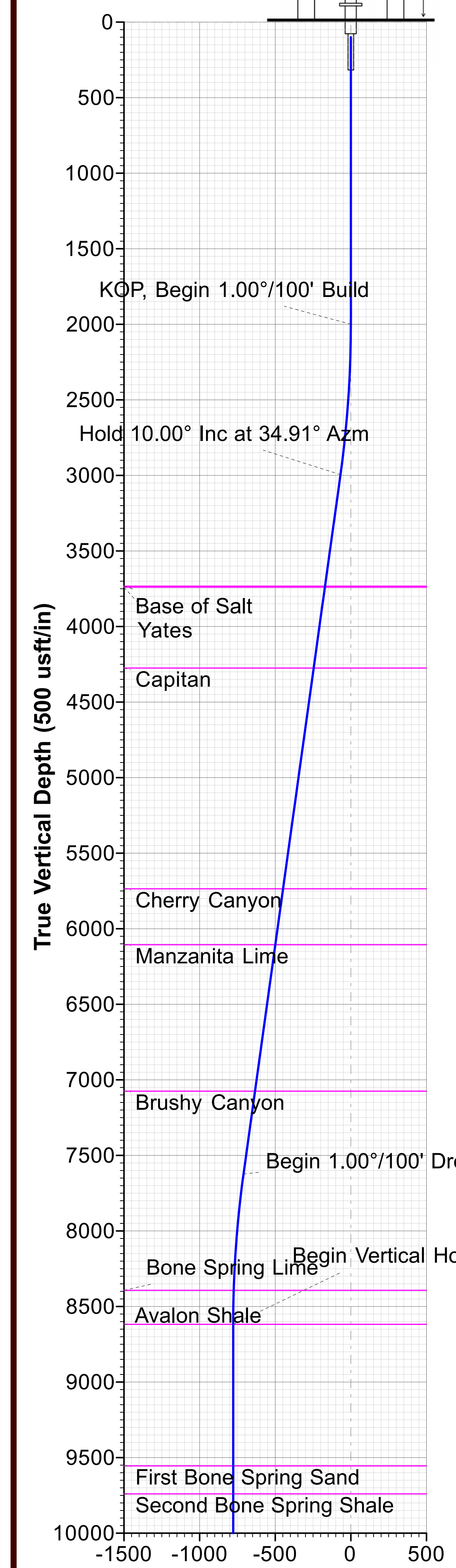
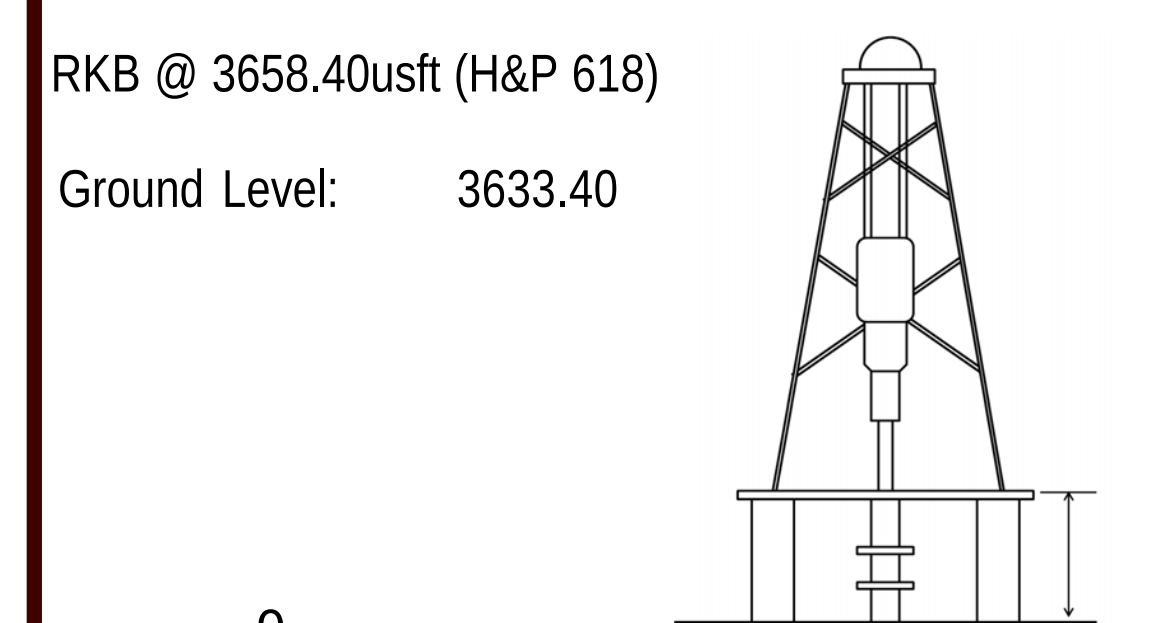
API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

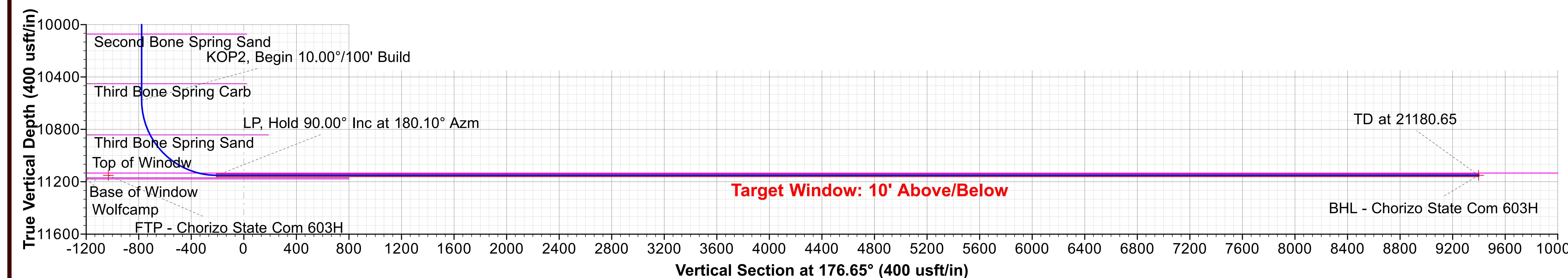


RKB @ 3658.40usft (H&P 618)

Ground Level: 3633.40



Vertical Section at 176.65° (500 usft/in)



Vertical Section at 176.65° (400 usft/in)

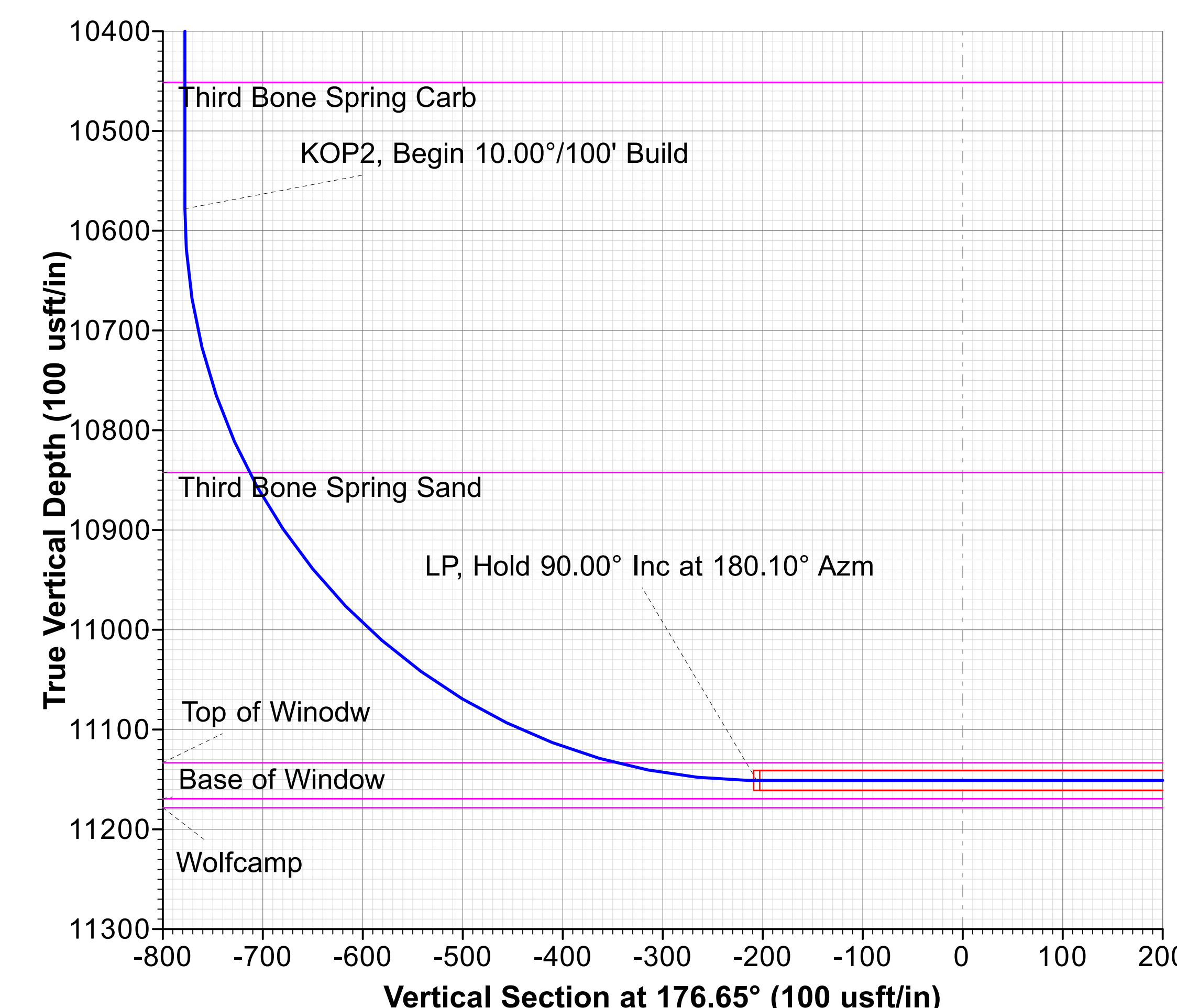
WELL DETAILS							
				Ground Level:	3633.40		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.00	0.00	11776359.65	2125775.96	32.432277	-103.426437		

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00		
3	3000.46	10.00	34.91	2995.38	71.45	49.86	1.00	34.91	-68.41		KOP, Begin 1.00°/100' Build
4	7699.55	10.00	34.91	7623.02	740.93	517.02	0.00	0.00	-709.45		Hold 10.00° Inc at 34.91° Azm
5	8700.01	0.00	0.00	8618.40	812.38	566.88	1.00	180.00	-777.87		Begin 1.00°/100' Drop
6	10659.65	0.00	0.00	10578.04	812.38	566.88	0.00	0.00	-777.87		Begin Vertical Hold
7	11559.65	90.00	180.10	11151.00	239.42	565.88	10.00	0.00	-205.95		KOP2, Begin 10.00°/100' Build
8	21180.65	90.00	180.10	11151.00	-9381.57	549.09	0.00	0.00	9397.62	BHL - Chorizo State Com 603H	LP, Hold 90.00° Inc at 180.10° Azm
											TD at 21180.65

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - Chorizo State Com 603H	11151.00	-9381.57	549.09	11766988.41	2126463.11	32.406491	-103.424658
FTP - Chorizo State Com 603H	11151.00	1066.12	566.55	11777433.86	2126326.67	32.435207	-103.424601

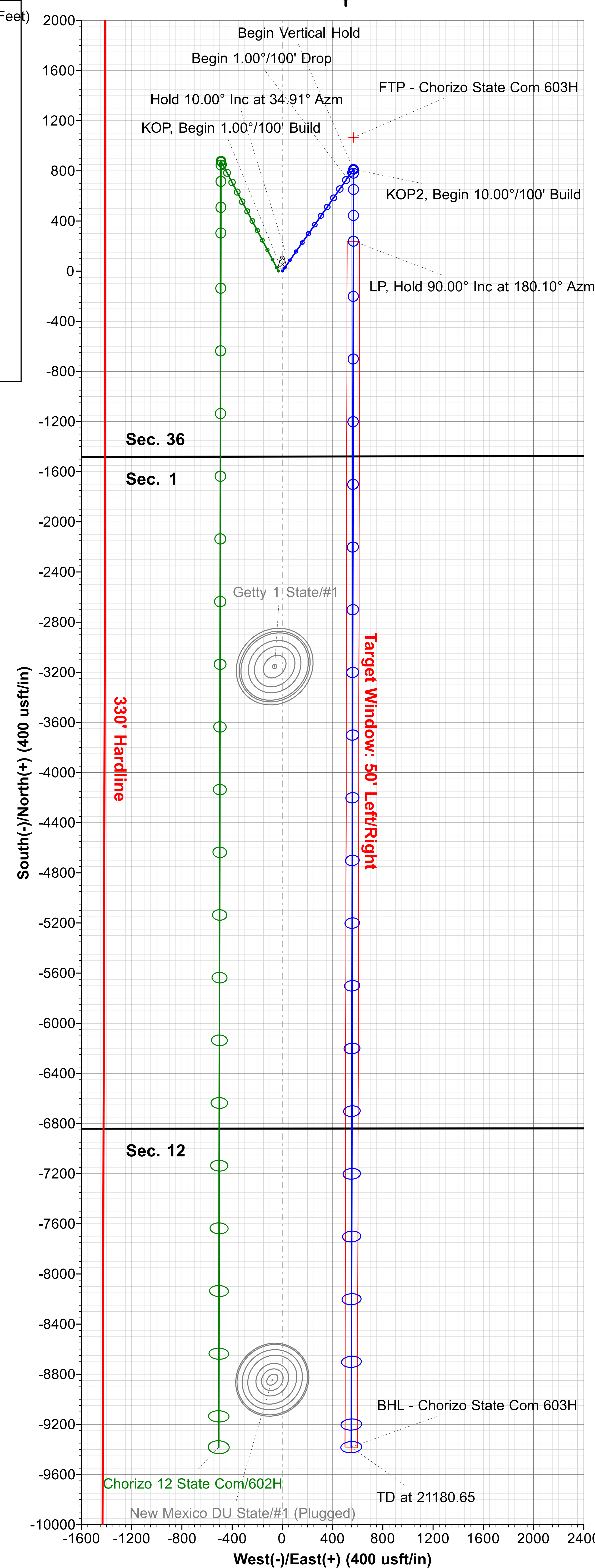
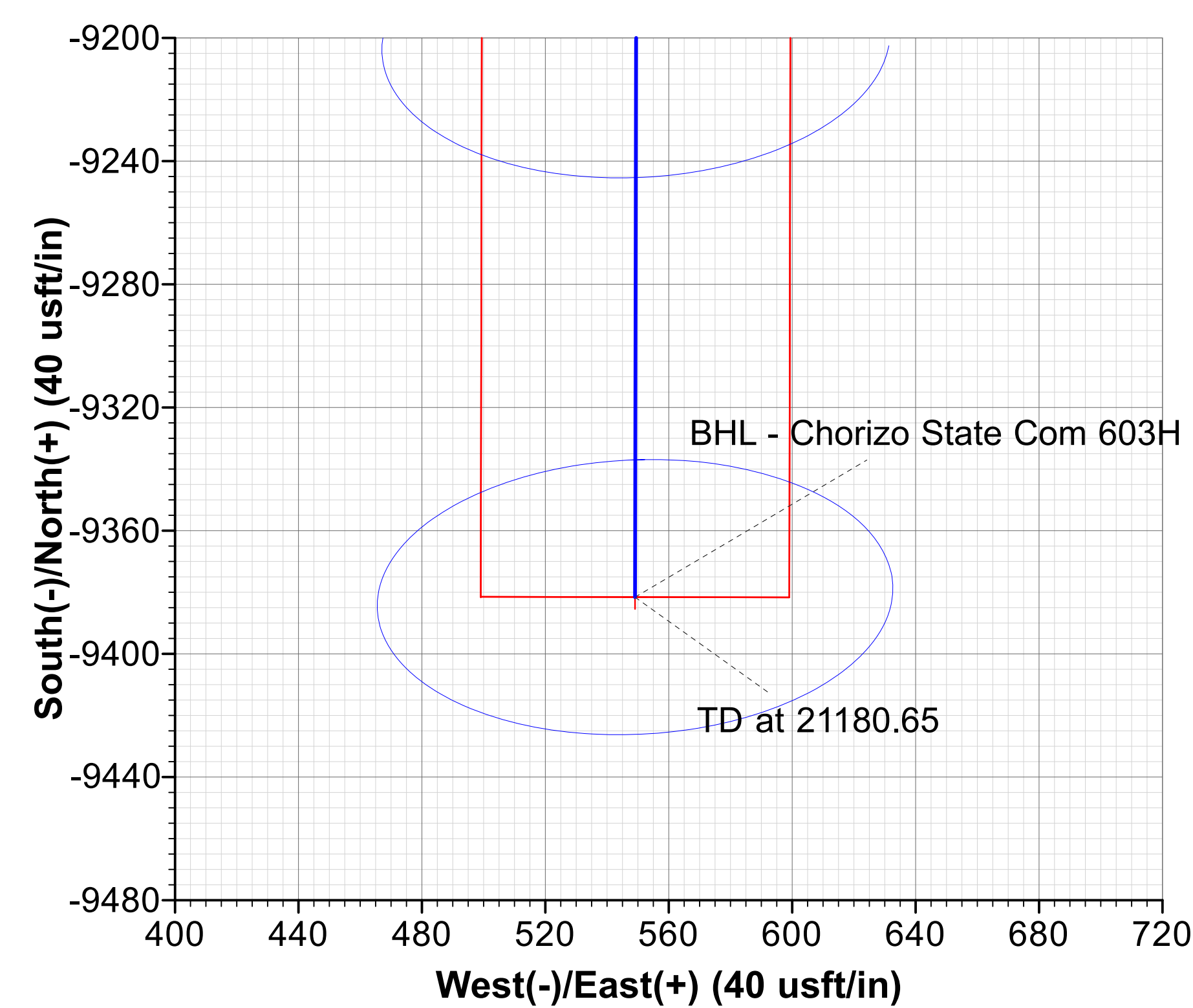
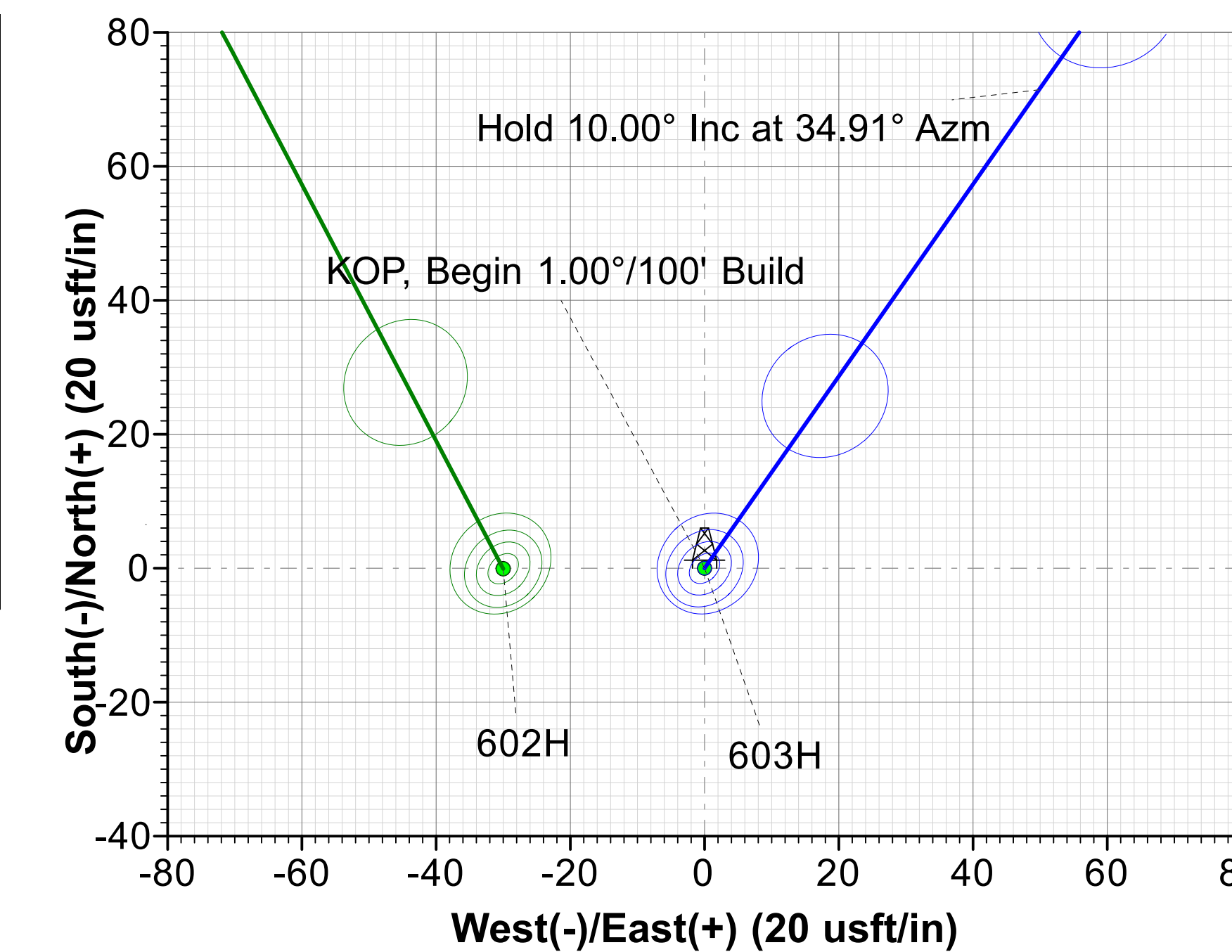
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3733.40	3749.87	Base of Salt
3740.40	3756.98	Yates
4275.40	4300.24	Capitan
5736.40	5783.80	Cherry Canyon
6106.40	6159.51	Manzanita Lime
7075.40	7143.48	Brushy Canyon
8393.40	8474.95	Bone Spring Lime
8618.40	8700.01	Avalon Shale
9555.40	9637.01	First Bone Spring Sand
9740.40	9822.01	Second Bone Spring Shale
10072.40	10154.01	Second Bone Spring Sand
10451.40	10533.01	Third Bone Spring Carb
10842.40	10934.42	Third Bone Spring Sand
11133.40	11417.27	Top of Window

LEGEND	
—	602H, OH, Plan 4 11-06-19 V0
—	#1 (Plugged), OH, Surveys V0
—	#1, OH, Surveys V0
—	Plan 4 11-06-19



Vertical Section at 176.65° (100 usft/in)

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 603H, True North
Latitude: 32.432277
Longitude: -103.426437
Grid East: 2125775.96
Grid North: 11776359.65
Scale Factor: 1.000
Geomagnetic Model: MVHD
Sample Date: 31-Dec-19
Magnetic Declination: 6.61°
Dip Angle from Horizontal: 60.19°
Magnetic Field Strength: 48016.1496065nT
To convert a Magnetic Direction to a Grid Direction, Add 5.77°
To convert a Magnetic Direction to a True Direction, Add 6.61° East
To convert a True Direction to a Grid Direction, Subtract 0.84°





Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - UTM Zone 13)
Chorizo 12 State Com
603H**

OH

Plan: Plan 4 11-06-19

Standard Planning Report

06 November, 2019





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 603H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3658.40usft (H&P 618)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3658.40usft (H&P 618)
Site:	Chorizo 12 State Com	North Reference:	True
Well:	603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 11-06-19		

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

Site	Chorizo 12 State Com		
Site Position:		Northing:	11,776,359.14 usft
From:	Map	Easting:	2,125,745.97 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.432277
		Longitude:	-103.426535

Well	603H		
Well Position	+N/-S	0.07 usft	Northing:
	+E/-W	30.00 usft	Easting:
Position Uncertainty	1.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	12/31/2019	6.61
			Dip Angle (°)
			60.19
			Field Strength (nT)
			48,016.14960664

Design	Plan 4 11-06-19		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			176.65

Plan Survey Tool Program	Date	11/6/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,180.65	Plan 4 11-06-19 (OH)	MWD+IFR1+MS
				OWSG MWD + IFR1 + Multi-SI

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	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.46	10.00	34.91	2,995.38	71.45	49.86	1.00	1.00	0.00	34.91	
7,699.55	10.00	34.91	7,623.02	740.93	517.02	0.00	0.00	0.00	0.00	
8,700.01	0.00	0.00	8,618.40	812.38	566.88	1.00	-1.00	0.00	180.00	
10,659.65	0.00	0.00	10,578.04	812.38	566.88	0.00	0.00	0.00	0.00	
11,559.65	90.00	180.10	11,151.00	239.42	565.88	10.00	10.00	0.00	0.00	
21,180.65	90.00	180.10	11,151.00	-9,381.57	549.09	0.00	0.00	0.00	0.00	BHL - Chorizo State C



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 603H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3658.40usft (H&P 618)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3658.40usft (H&P 618)
Site:	Chorizo 12 State Com	North Reference:	True
Well:	603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 11-06-19		

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
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	34.91	2,099.99	0.72	0.50	-0.69	1.00	1.00	0.00
2,200.00	2.00	34.91	2,199.96	2.86	2.00	-2.74	1.00	1.00	0.00
2,300.00	3.00	34.91	2,299.86	6.44	4.49	-6.17	1.00	1.00	0.00
2,400.00	4.00	34.91	2,399.68	11.45	7.99	-10.96	1.00	1.00	0.00
2,500.00	5.00	34.91	2,499.37	17.88	12.48	-17.12	1.00	1.00	0.00
2,600.00	6.00	34.91	2,598.90	25.74	17.96	-24.65	1.00	1.00	0.00
2,700.00	7.00	34.91	2,698.26	35.02	24.44	-33.54	1.00	1.00	0.00
2,800.00	8.00	34.91	2,797.40	45.73	31.91	-43.78	1.00	1.00	0.00
2,900.00	9.00	34.91	2,896.30	57.85	40.37	-55.39	1.00	1.00	0.00
3,000.00	10.00	34.91	2,994.93	71.38	49.81	-68.35	1.00	1.00	0.00
3,000.46	10.00	34.91	2,995.38	71.45	49.86	-68.41	1.00	1.00	0.00
Hold 10.00° Inc at 34.91° Azm									
3,100.00	10.00	34.91	3,093.41	85.63	59.75	-81.99	0.00	0.00	0.00
3,200.00	10.00	34.91	3,191.89	99.88	69.70	-95.63	0.00	0.00	0.00
3,300.00	10.00	34.91	3,290.37	114.12	79.64	-109.28	0.00	0.00	0.00
3,400.00	10.00	34.91	3,388.85	128.37	89.58	-122.92	0.00	0.00	0.00
3,500.00	10.00	34.91	3,487.33	142.62	99.52	-136.56	0.00	0.00	0.00
3,600.00	10.00	34.91	3,585.81	156.87	109.46	-150.20	0.00	0.00	0.00
3,700.00	10.00	34.91	3,684.29	171.11	119.40	-163.84	0.00	0.00	0.00
3,800.00	10.00	34.91	3,782.77	185.36	129.34	-177.49	0.00	0.00	0.00
3,900.00	10.00	34.91	3,881.25	199.61	139.29	-191.13	0.00	0.00	0.00
4,000.00	10.00	34.91	3,979.72	213.85	149.23	-204.77	0.00	0.00	0.00
4,100.00	10.00	34.91	4,078.20	228.10	159.17	-218.41	0.00	0.00	0.00
4,200.00	10.00	34.91	4,176.68	242.35	169.11	-232.05	0.00	0.00	0.00
4,300.00	10.00	34.91	4,275.16	256.59	179.05	-245.69	0.00	0.00	0.00
4,400.00	10.00	34.91	4,373.64	270.84	188.99	-259.34	0.00	0.00	0.00
4,500.00	10.00	34.91	4,472.12	285.09	198.94	-272.98	0.00	0.00	0.00
4,600.00	10.00	34.91	4,570.60	299.33	208.88	-286.62	0.00	0.00	0.00
4,700.00	10.00	34.91	4,669.08	313.58	218.82	-300.26	0.00	0.00	0.00
4,800.00	10.00	34.91	4,767.56	327.83	228.76	-313.90	0.00	0.00	0.00
4,900.00	10.00	34.91	4,866.04	342.08	238.70	-327.54	0.00	0.00	0.00
5,000.00	10.00	34.91	4,964.52	356.32	248.64	-341.19	0.00	0.00	0.00
5,100.00	10.00	34.91	5,063.00	370.57	258.59	-354.83	0.00	0.00	0.00
5,200.00	10.00	34.91	5,161.48	384.82	268.53	-368.47	0.00	0.00	0.00
5,300.00	10.00	34.91	5,259.96	399.06	278.47	-382.11	0.00	0.00	0.00
5,400.00	10.00	34.91	5,358.44	413.31	288.41	-395.75	0.00	0.00	0.00
5,500.00	10.00	34.91	5,456.92	427.56	298.35	-409.39	0.00	0.00	0.00
5,600.00	10.00	34.91	5,555.39	441.80	308.29	-423.04	0.00	0.00	0.00
5,700.00	10.00	34.91	5,653.87	456.05	318.23	-436.68	0.00	0.00	0.00
5,800.00	10.00	34.91	5,752.35	470.30	328.18	-450.32	0.00	0.00	0.00
5,900.00	10.00	34.91	5,850.83	484.55	338.12	-463.96	0.00	0.00	0.00
6,000.00	10.00	34.91	5,949.31	498.79	348.06	-477.60	0.00	0.00	0.00
6,100.00	10.00	34.91	6,047.79	513.04	358.00	-491.25	0.00	0.00	0.00
6,200.00	10.00	34.91	6,146.27	527.29	367.94	-504.89	0.00	0.00	0.00
6,300.00	10.00	34.91	6,244.75	541.53	377.88	-518.53	0.00	0.00	0.00
6,400.00	10.00	34.91	6,343.23	555.78	387.83	-532.17	0.00	0.00	0.00
6,500.00	10.00	34.91	6,441.71	570.03	397.77	-545.81	0.00	0.00	0.00
6,600.00	10.00	34.91	6,540.19	584.27	407.71	-559.45	0.00	0.00	0.00
6,700.00	10.00	34.91	6,638.67	598.52	417.65	-573.10	0.00	0.00	0.00
6,800.00	10.00	34.91	6,737.15	612.77	427.59	-586.74	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 603H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3658.40usft (H&P 618)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3658.40usft (H&P 618)
Site:	Chorizo 12 State Com	North Reference:	True
Well:	603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 11-06-19		

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)
6,900.00	10.00	34.91	6,835.63	627.01	437.53	-600.38	0.00	0.00	0.00
7,000.00	10.00	34.91	6,934.11	641.26	447.48	-614.02	0.00	0.00	0.00
7,100.00	10.00	34.91	7,032.59	655.51	457.42	-627.66	0.00	0.00	0.00
7,200.00	10.00	34.91	7,131.07	669.76	467.36	-641.30	0.00	0.00	0.00
7,300.00	10.00	34.91	7,229.54	684.00	477.30	-654.95	0.00	0.00	0.00
7,400.00	10.00	34.91	7,328.02	698.25	487.24	-668.59	0.00	0.00	0.00
7,500.00	10.00	34.91	7,426.50	712.50	497.18	-682.23	0.00	0.00	0.00
7,600.00	10.00	34.91	7,524.98	726.74	507.13	-695.87	0.00	0.00	0.00
7,699.55	10.00	34.91	7,623.02	740.93	517.02	-709.45	0.00	0.00	0.00
Begin 1.00°/100' Drop									
7,700.00	10.00	34.91	7,623.46	740.99	517.07	-709.51	0.00	0.00	0.00
7,800.00	9.00	34.91	7,722.09	754.53	526.51	-722.47	1.00	-1.00	0.00
7,900.00	8.00	34.91	7,820.99	766.65	534.97	-734.08	1.00	-1.00	0.00
8,000.00	7.00	34.91	7,920.13	777.35	542.44	-744.33	1.00	-1.00	0.00
8,100.00	6.00	34.91	8,019.49	786.63	548.92	-753.22	1.00	-1.00	0.00
8,200.00	5.00	34.91	8,119.03	794.49	554.40	-760.74	1.00	-1.00	0.00
8,300.00	4.00	34.91	8,218.72	800.93	558.89	-766.91	1.00	-1.00	0.00
8,400.00	3.00	34.91	8,318.53	805.94	562.39	-771.70	1.00	-1.00	0.00
8,500.00	2.00	34.91	8,418.43	809.51	564.88	-775.12	1.00	-1.00	0.00
8,600.00	1.00	34.91	8,518.40	811.66	566.38	-777.18	1.00	-1.00	0.00
8,700.01	0.00	0.00	8,618.40	812.38	566.88	-777.87	1.00	-1.00	0.00
Begin Vertical Hold									
10,659.65	0.00	0.00	10,578.04	812.38	566.88	-777.87	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
10,700.00	4.04	180.10	10,618.36	810.96	566.88	-776.45	10.00	10.00	0.00
10,800.00	14.04	180.10	10,716.99	795.27	566.85	-760.79	10.00	10.00	0.00
10,900.00	24.04	180.10	10,811.41	762.70	566.79	-728.28	10.00	10.00	0.00
11,000.00	34.04	180.10	10,898.73	714.23	566.71	-679.89	10.00	10.00	0.00
11,100.00	44.04	180.10	10,976.30	651.33	566.60	-617.11	10.00	10.00	0.00
11,200.00	54.04	180.10	11,041.78	575.91	566.47	-541.83	10.00	10.00	0.00
11,300.00	64.04	180.10	11,093.17	490.27	566.32	-456.34	10.00	10.00	0.00
11,400.00	74.04	180.10	11,128.90	397.01	566.15	-363.25	10.00	10.00	0.00
11,500.00	84.04	180.10	11,147.90	298.96	565.98	-265.38	10.00	10.00	0.00
11,559.65	90.00	180.10	11,151.00	239.42	565.88	-205.95	10.00	10.00	0.00
LP, Hold 90.00° Inc at 180.10° Azm									
11,600.00	90.00	180.10	11,151.00	199.07	565.81	-165.67	0.00	0.00	0.00
11,700.00	90.00	180.10	11,151.00	99.07	565.63	-65.85	0.00	0.00	0.00
11,800.00	90.00	180.10	11,151.00	-0.93	565.46	33.97	0.00	0.00	0.00
11,900.00	90.00	180.10	11,151.00	-100.93	565.29	133.79	0.00	0.00	0.00
12,000.00	90.00	180.10	11,151.00	-200.93	565.11	233.61	0.00	0.00	0.00
12,100.00	90.00	180.10	11,151.00	-300.93	564.94	333.43	0.00	0.00	0.00
12,200.00	90.00	180.10	11,151.00	-400.93	564.76	433.24	0.00	0.00	0.00
12,300.00	90.00	180.10	11,151.00	-500.93	564.59	533.06	0.00	0.00	0.00
12,400.00	90.00	180.10	11,151.00	-600.93	564.41	632.88	0.00	0.00	0.00
12,500.00	90.00	180.10	11,151.00	-700.93	564.24	732.70	0.00	0.00	0.00
12,600.00	90.00	180.10	11,151.00	-800.93	564.06	832.52	0.00	0.00	0.00
12,700.00	90.00	180.10	11,151.00	-900.93	563.89	932.34	0.00	0.00	0.00
12,800.00	90.00	180.10	11,151.00	-1,000.93	563.71	1,032.16	0.00	0.00	0.00
12,900.00	90.00	180.10	11,151.00	-1,100.93	563.54	1,131.98	0.00	0.00	0.00
13,000.00	90.00	180.10	11,151.00	-1,200.93	563.37	1,231.79	0.00	0.00	0.00
13,100.00	90.00	180.10	11,151.00	-1,300.93	563.19	1,331.61	0.00	0.00	0.00
13,200.00	90.00	180.10	11,151.00	-1,400.93	563.02	1,431.43	0.00	0.00	0.00
13,300.00	90.00	180.10	11,151.00	-1,500.93	562.84	1,531.25	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 603H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3658.40usft (H&P 618)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3658.40usft (H&P 618)
Site:	Chorizo 12 State Com	North Reference:	True
Well:	603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 11-06-19		

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)
13,400.00	90.00	180.10	11,151.00	-1,600.93	562.67	1,631.07	0.00	0.00	0.00
13,500.00	90.00	180.10	11,151.00	-1,700.93	562.49	1,730.89	0.00	0.00	0.00
13,600.00	90.00	180.10	11,151.00	-1,800.93	562.32	1,830.71	0.00	0.00	0.00
13,700.00	90.00	180.10	11,151.00	-1,900.93	562.14	1,930.53	0.00	0.00	0.00
13,800.00	90.00	180.10	11,151.00	-2,000.93	561.97	2,030.35	0.00	0.00	0.00
13,900.00	90.00	180.10	11,151.00	-2,100.93	561.79	2,130.16	0.00	0.00	0.00
14,000.00	90.00	180.10	11,151.00	-2,200.93	561.62	2,229.98	0.00	0.00	0.00
14,100.00	90.00	180.10	11,151.00	-2,300.93	561.45	2,329.80	0.00	0.00	0.00
14,200.00	90.00	180.10	11,151.00	-2,400.93	561.27	2,429.62	0.00	0.00	0.00
14,300.00	90.00	180.10	11,151.00	-2,500.93	561.10	2,529.44	0.00	0.00	0.00
14,400.00	90.00	180.10	11,151.00	-2,600.93	560.92	2,629.26	0.00	0.00	0.00
14,500.00	90.00	180.10	11,151.00	-2,700.93	560.75	2,729.08	0.00	0.00	0.00
14,600.00	90.00	180.10	11,151.00	-2,800.93	560.57	2,828.90	0.00	0.00	0.00
14,700.00	90.00	180.10	11,151.00	-2,900.93	560.40	2,928.71	0.00	0.00	0.00
14,800.00	90.00	180.10	11,151.00	-3,000.93	560.22	3,028.53	0.00	0.00	0.00
14,900.00	90.00	180.10	11,151.00	-3,100.93	560.05	3,128.35	0.00	0.00	0.00
15,000.00	90.00	180.10	11,151.00	-3,200.93	559.87	3,228.17	0.00	0.00	0.00
15,100.00	90.00	180.10	11,151.00	-3,300.93	559.70	3,327.99	0.00	0.00	0.00
15,200.00	90.00	180.10	11,151.00	-3,400.93	559.53	3,427.81	0.00	0.00	0.00
15,300.00	90.00	180.10	11,151.00	-3,500.93	559.35	3,527.63	0.00	0.00	0.00
15,400.00	90.00	180.10	11,151.00	-3,600.93	559.18	3,627.45	0.00	0.00	0.00
15,500.00	90.00	180.10	11,151.00	-3,700.93	559.00	3,727.26	0.00	0.00	0.00
15,600.00	90.00	180.10	11,151.00	-3,800.93	558.83	3,827.08	0.00	0.00	0.00
15,700.00	90.00	180.10	11,151.00	-3,900.93	558.65	3,926.90	0.00	0.00	0.00
15,800.00	90.00	180.10	11,151.00	-4,000.93	558.48	4,026.72	0.00	0.00	0.00
15,900.00	90.00	180.10	11,151.00	-4,100.93	558.30	4,126.54	0.00	0.00	0.00
16,000.00	90.00	180.10	11,151.00	-4,200.93	558.13	4,226.36	0.00	0.00	0.00
16,100.00	90.00	180.10	11,151.00	-4,300.93	557.96	4,326.18	0.00	0.00	0.00
16,200.00	90.00	180.10	11,151.00	-4,400.92	557.78	4,426.00	0.00	0.00	0.00
16,300.00	90.00	180.10	11,151.00	-4,500.92	557.61	4,525.82	0.00	0.00	0.00
16,400.00	90.00	180.10	11,151.00	-4,600.92	557.43	4,625.63	0.00	0.00	0.00
16,500.00	90.00	180.10	11,151.00	-4,700.92	557.26	4,725.45	0.00	0.00	0.00
16,600.00	90.00	180.10	11,151.00	-4,800.92	557.08	4,825.27	0.00	0.00	0.00
16,700.00	90.00	180.10	11,151.00	-4,900.92	556.91	4,925.09	0.00	0.00	0.00
16,800.00	90.00	180.10	11,151.00	-5,000.92	556.73	5,024.91	0.00	0.00	0.00
16,900.00	90.00	180.10	11,151.00	-5,100.92	556.56	5,124.73	0.00	0.00	0.00
17,000.00	90.00	180.10	11,151.00	-5,200.92	556.38	5,224.55	0.00	0.00	0.00
17,100.00	90.00	180.10	11,151.00	-5,300.92	556.21	5,324.37	0.00	0.00	0.00
17,200.00	90.00	180.10	11,151.00	-5,400.92	556.04	5,424.18	0.00	0.00	0.00
17,300.00	90.00	180.10	11,151.00	-5,500.92	555.86	5,524.00	0.00	0.00	0.00
17,400.00	90.00	180.10	11,151.00	-5,600.92	555.69	5,623.82	0.00	0.00	0.00
17,500.00	90.00	180.10	11,151.00	-5,700.92	555.51	5,723.64	0.00	0.00	0.00
17,600.00	90.00	180.10	11,151.00	-5,800.92	555.34	5,823.46	0.00	0.00	0.00
17,700.00	90.00	180.10	11,151.00	-5,900.92	555.16	5,923.28	0.00	0.00	0.00
17,800.00	90.00	180.10	11,151.00	-6,000.92	554.99	6,023.10	0.00	0.00	0.00
17,900.00	90.00	180.10	11,151.00	-6,100.92	554.81	6,122.92	0.00	0.00	0.00
18,000.00	90.00	180.10	11,151.00	-6,200.92	554.64	6,222.74	0.00	0.00	0.00
18,100.00	90.00	180.10	11,151.00	-6,300.92	554.46	6,322.55	0.00	0.00	0.00
18,200.00	90.00	180.10	11,151.00	-6,400.92	554.29	6,422.37	0.00	0.00	0.00
18,300.00	90.00	180.10	11,151.00	-6,500.92	554.12	6,522.19	0.00	0.00	0.00
18,400.00	90.00	180.10	11,151.00	-6,600.92	553.94	6,622.01	0.00	0.00	0.00
18,500.00	90.00	180.10	11,151.00	-6,700.92	553.77	6,721.83	0.00	0.00	0.00
18,600.00	90.00	180.10	11,151.00	-6,800.92	553.59	6,821.65	0.00	0.00	0.00
18,700.00	90.00	180.10	11,151.00	-6,900.92	553.42	6,921.47	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 603H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3658.40usft (H&P 618)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3658.40usft (H&P 618)
Site:	Chorizo 12 State Com	North Reference:	True
Well:	603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 11-06-19		

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)
18,800.00	90.00	180.10	11,151.00	-7,000.92	553.24	7,021.29	0.00	0.00	0.00
18,900.00	90.00	180.10	11,151.00	-7,100.92	553.07	7,121.10	0.00	0.00	0.00
19,000.00	90.00	180.10	11,151.00	-7,200.92	552.89	7,220.92	0.00	0.00	0.00
19,100.00	90.00	180.10	11,151.00	-7,300.92	552.72	7,320.74	0.00	0.00	0.00
19,200.00	90.00	180.10	11,151.00	-7,400.92	552.54	7,420.56	0.00	0.00	0.00
19,300.00	90.00	180.10	11,151.00	-7,500.92	552.37	7,520.38	0.00	0.00	0.00
19,400.00	90.00	180.10	11,151.00	-7,600.92	552.20	7,620.20	0.00	0.00	0.00
19,500.00	90.00	180.10	11,151.00	-7,700.92	552.02	7,720.02	0.00	0.00	0.00
19,600.00	90.00	180.10	11,151.00	-7,800.92	551.85	7,819.84	0.00	0.00	0.00
19,700.00	90.00	180.10	11,151.00	-7,900.92	551.67	7,919.65	0.00	0.00	0.00
19,800.00	90.00	180.10	11,151.00	-8,000.92	551.50	8,019.47	0.00	0.00	0.00
19,900.00	90.00	180.10	11,151.00	-8,100.92	551.32	8,119.29	0.00	0.00	0.00
20,000.00	90.00	180.10	11,151.00	-8,200.92	551.15	8,219.11	0.00	0.00	0.00
20,100.00	90.00	180.10	11,151.00	-8,300.92	550.97	8,318.93	0.00	0.00	0.00
20,200.00	90.00	180.10	11,151.00	-8,400.92	550.80	8,418.75	0.00	0.00	0.00
20,300.00	90.00	180.10	11,151.00	-8,500.92	550.62	8,518.57	0.00	0.00	0.00
20,400.00	90.00	180.10	11,151.00	-8,600.92	550.45	8,618.39	0.00	0.00	0.00
20,500.00	90.00	180.10	11,151.00	-8,700.92	550.28	8,718.21	0.00	0.00	0.00
20,600.00	90.00	180.10	11,151.00	-8,800.92	550.10	8,818.02	0.00	0.00	0.00
20,700.00	90.00	180.10	11,151.00	-8,900.92	549.93	8,917.84	0.00	0.00	0.00
20,800.00	90.00	180.10	11,151.00	-9,000.92	549.75	9,017.66	0.00	0.00	0.00
20,900.00	90.00	180.10	11,151.00	-9,100.92	549.58	9,117.48	0.00	0.00	0.00
21,000.00	90.00	180.10	11,151.00	-9,200.92	549.40	9,217.30	0.00	0.00	0.00
21,100.00	90.00	180.10	11,151.00	-9,300.92	549.23	9,317.12	0.00	0.00	0.00
21,180.65	90.00	180.10	11,151.00	-9,381.57	549.09	9,397.62	0.00	0.00	0.00
TD at 21180.65									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Chorizo State Cor	0.00	0.85	11,151.00	1,066.12	566.55	11,777,433.86	2,126,326.67	32.435207	-103.424601
- hit/miss target									
- plan misses target center by 432.98usft at 11000.00usft MD (10898.73 TVD, 714.23 N, 566.71 E)									
- Point									
BHL - Chorizo State Cor	0.00	180.10	11,151.00	-9,381.57	549.09	11,766,988.41	2,126,463.11	32.406491	-103.424658
- plan hits target center									
- Rectangle (sides W100.00 H9,621.00 D20.00)									



Planning Report



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Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3658.40usft (H&P 618)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3658.40usft (H&P 618)
Site:	Chorizo 12 State Com	North Reference:	True
Well:	603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 11-06-19		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,749.87	3,733.40	Base of Salt				
3,756.98	3,740.40	Yates				
4,300.24	4,275.40	Capitan				
5,783.80	5,736.40	Cherry Canyon				
6,159.51	6,106.40	Manzanita Lime				
7,143.48	7,075.40	Brushy Canyon				
8,474.95	8,393.40	Bone Spring Lime				
8,700.01	8,618.40	Avalon Shale				
9,637.01	9,555.40	First Bone Spring Sand				
9,822.01	9,740.40	Second Bone Spring Shale				
10,154.01	10,072.40	Second Bone Spring Sand				
10,533.01	10,451.40	Third Bone Spring Carb				
10,934.42	10,842.40	Third Bone Spring Sand				
11,417.27	11,133.40	Top of Winodw				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.00	2,000.00	0.00	0.00	KOP, Begin 1.00°/100' Build	
3,000.46	2,995.38	71.45	49.86	Hold 10.00° Inc at 34.91° Azm	
7,699.55	7,623.02	740.93	517.02	Begin 1.00°/100' Drop	
8,700.01	8,618.40	812.38	566.88	Begin Vertical Hold	
10,659.65	10,578.04	812.38	566.88	KOP2, Begin 10.00°/100' Build	
11,559.65	11,151.00	239.42	565.88	LP, Hold 90.00° Inc at 180.10° Azm	
21,180.65	11,151.00	-9,381.57	549.09	TD at 21180.65	