

30-025-44499



Centennial Resource Development, Inc.

**Lea Co., NM (NAD83)
Vitalizer State
502H**

OH

Plan: Plan #1

Standard Survey Report

02 February, 2018



WELL DETAILS: 502H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	520863.32	808403.50	32° 25' 44.204 N	103° 28' 3.925 W

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Vitalizer State 502H Target Line	10365.00	0.00	0.00	520863.32	808403.50	Rectangle (Sides: L0.00 W1.00)
Vitalizer State 502H PBHL	10487.00	4659.15	-2.78	525522.29	808362.97	Point

SECTION DETAILS

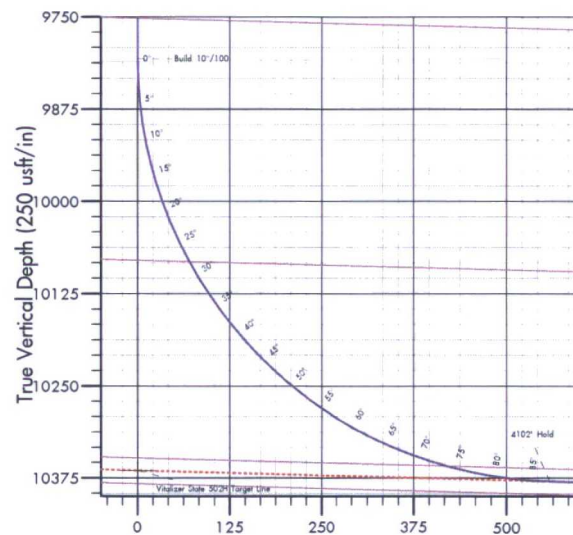
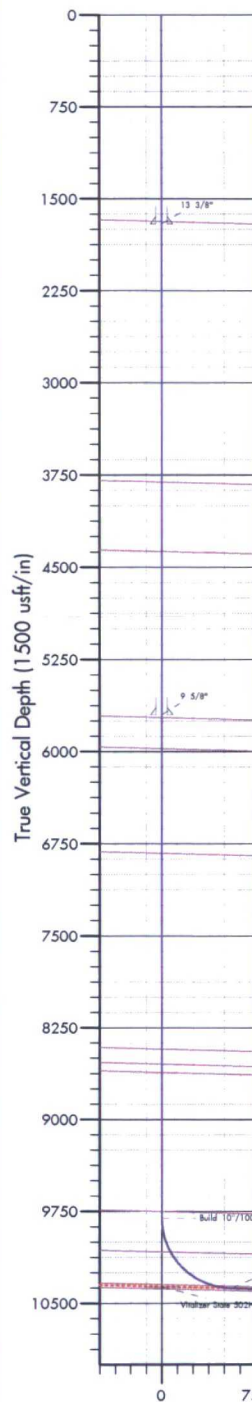
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9806.85	0.00	0.00	9806.85	0.00	0.00	0.00	0.00	0.00	Build 10°/100'
10691.85	88.50	359.97	10379.61	557.96	-0.33	10.00	359.97	557.96	4102' Hold
14794.44	88.50	359.97	10487.00	4659.15	-2.78	0.00	0.00	4659.15	TD at 14794.44

Formation Tops

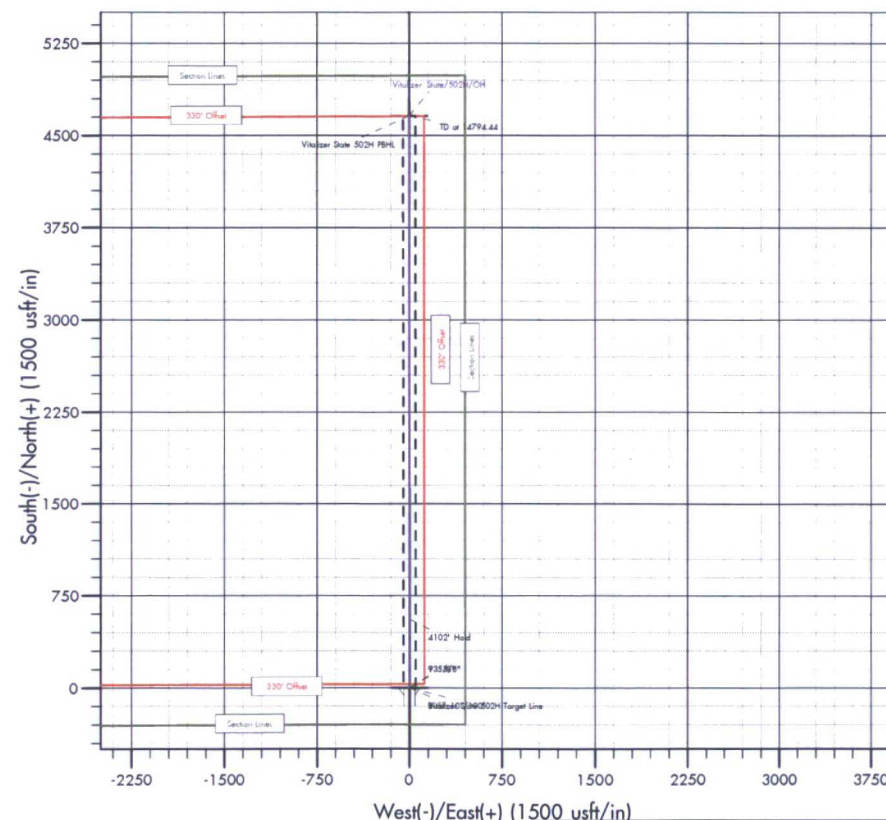
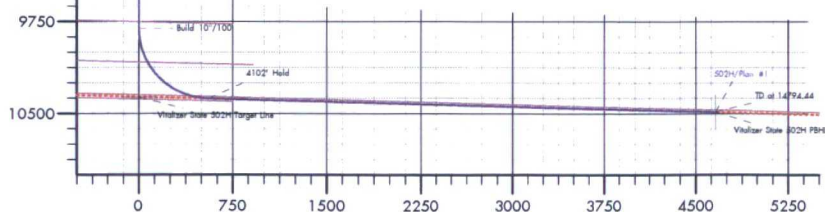
TVDPath	Formation
1686.00	Rustler
3808.00	Yates
4372.00	Capitan
5722.00	Cherry Canyon
5975.00	Manzanita Lime
6828.00	Brushy Canyon
8424.00	Bone Spring Lime
8547.00	First Bone Spring Sand
8616.00	Leonard Shale
9752.00	Second Bone Spring Carb
10081.84	Second Bone Spring Sand
10359.00	Top of Window

CASING DETAILS

TVD	MD	Name	Size
1705.00	1705.00	13 3/8"	13-3/8
5700.00	5700.00	9 5/8"	9-5/8



TARGET LINE: 10.365' TVD @ 0° VS, INC = 88.5°



Company:	Centennial Resource Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD83)	TVD Reference:	KB=25' @ 3657.00usft (H&P 650)
Site:	Vitalizer State	MD Reference:	KB=25' @ 3657.00usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.14 Single User Db

Project	Lea Co., NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Vitalizer State			
Site Position:		Northing:	520,863.32 usft	Latitude:	32° 25' 44.204 N
From:	Map	Easting:	808,403.50 usft	Longitude:	103° 28' 3.925 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	502H					
Well Position	+N/-S	0.00 usft	Northing:	520,863.32 usft	Latitude:	32° 25' 44.204 N
	+E/-W	0.00 usft	Easting:	808,403.50 usft	Longitude:	103° 28' 3.925 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,632.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/09	7.72	60.45	48,926.60215918

Design	Plan #1			
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	359.97

Survey Tool Program	Date	02/02/18			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,794.44	Plan #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

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	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	

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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)	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,686.00	0.00	0.00	1,686.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler										
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,705.00	0.00	0.00	1,705.00	0.00	0.00	0.00	0.00	0.00	0.00	
13 3/8"										
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	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	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,808.00	0.00	0.00	3,808.00	0.00	0.00	0.00	0.00	0.00	0.00	
Yates										
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,372.00	0.00	0.00	4,372.00	0.00	0.00	0.00	0.00	0.00	0.00	
Capitan										
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	

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4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
5,722.00	0.00	0.00	5,722.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,975.00	0.00	0.00	5,975.00	0.00	0.00	0.00	0.00	0.00	0.00
Manzanita Lime									
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,828.00	0.00	0.00	6,828.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00

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8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,424.00	0.00	0.00	8,424.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bone Spring Lime										
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,547.00	0.00	0.00	8,547.00	0.00	0.00	0.00	0.00	0.00	0.00	
First Bone Spring Sand										
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,616.00	0.00	0.00	8,616.00	0.00	0.00	0.00	0.00	0.00	0.00	
Leonard Shale										
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,752.00	0.00	0.00	9,752.00	0.00	0.00	0.00	0.00	0.00	0.00	
Second Bone Spring Carb										
9,806.85	0.00	0.00	9,806.85	0.00	0.00	0.00	0.00	0.00	0.00	
Build 10°/100'										
9,850.00	4.32	359.97	9,849.96	1.62	0.00	1.62	10.00	10.00	0.00	
9,900.00	9.32	359.97	9,899.59	7.56	0.00	7.56	10.00	10.00	0.00	
9,950.00	14.32	359.97	9,948.52	17.79	-0.01	17.79	10.00	10.00	0.00	
10,000.00	19.32	359.97	9,996.36	32.25	-0.02	32.25	10.00	10.00	0.00	
10,050.00	24.32	359.97	10,042.77	50.83	-0.03	50.83	10.00	10.00	0.00	
10,093.67	28.68	359.97	10,081.84	70.31	-0.04	70.31	10.00	10.00	0.00	
Second Bonw Spring Sand										
10,100.00	29.32	359.97	10,087.38	73.37	-0.04	73.37	10.00	10.00	0.00	
10,150.00	34.32	359.97	10,129.85	99.73	-0.06	99.73	10.00	10.00	0.00	
10,200.00	39.32	359.97	10,169.87	129.68	-0.08	129.68	10.00	10.00	0.00	
10,250.00	44.32	359.97	10,207.12	163.00	-0.10	163.00	10.00	10.00	0.00	
10,300.00	49.32	359.97	10,241.33	199.45	-0.12	199.45	10.00	10.00	0.00	
10,350.00	54.32	359.97	10,272.23	238.74	-0.14	238.74	10.00	10.00	0.00	
10,400.00	59.32	359.97	10,299.58	280.57	-0.17	280.57	10.00	10.00	0.00	
10,450.00	64.32	359.97	10,323.19	324.63	-0.19	324.63	10.00	10.00	0.00	
10,500.00	69.32	359.97	10,342.87	370.58	-0.22	370.58	10.00	10.00	0.00	
10,550.00	74.32	359.97	10,358.47	418.06	-0.25	418.06	10.00	10.00	0.00	
10,551.97	74.51	359.97	10,359.00	419.96	-0.25	419.96	10.00	10.00	0.00	
Top of Window										
10,600.00	79.32	359.97	10,369.87	466.73	-0.28	466.73	10.00	10.00	0.00	

Company:	Centennial Resource Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD83)	TVD Reference:	KB=25' @ 3657.00usft (H&P 650)
Site:	Vitalizer State	MD Reference:	KB=25' @ 3657.00usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.14 Single User Db

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)
10,650.00	84.32	359.97	10,376.99	516.21	-0.31	516.21	10.00	10.00	0.00
10,691.85	88.50	359.97	10,379.61	557.96	-0.33	557.96	10.00	10.00	0.00
4102' Hold									
10,700.00	88.50	359.97	10,379.82	566.11	-0.34	566.11	0.00	0.00	0.00
10,800.00	88.50	359.97	10,382.44	666.08	-0.40	666.08	0.00	0.00	0.00
10,900.00	88.50	359.97	10,385.06	766.04	-0.46	766.04	0.00	0.00	0.00
11,000.00	88.50	359.97	10,387.67	866.01	-0.52	866.01	0.00	0.00	0.00
11,100.00	88.50	359.97	10,390.29	965.97	-0.58	965.97	0.00	0.00	0.00
11,200.00	88.50	359.97	10,392.91	1,065.94	-0.64	1,065.94	0.00	0.00	0.00
11,300.00	88.50	359.97	10,395.53	1,165.91	-0.70	1,165.91	0.00	0.00	0.00
11,400.00	88.50	359.97	10,398.14	1,265.87	-0.76	1,265.87	0.00	0.00	0.00
11,500.00	88.50	359.97	10,400.76	1,365.84	-0.82	1,365.84	0.00	0.00	0.00
11,600.00	88.50	359.97	10,403.38	1,465.80	-0.87	1,465.80	0.00	0.00	0.00
11,700.00	88.50	359.97	10,406.00	1,565.77	-0.93	1,565.77	0.00	0.00	0.00
11,800.00	88.50	359.97	10,408.61	1,665.73	-0.99	1,665.73	0.00	0.00	0.00
11,900.00	88.50	359.97	10,411.23	1,765.70	-1.05	1,765.70	0.00	0.00	0.00
12,000.00	88.50	359.97	10,413.85	1,865.67	-1.11	1,865.67	0.00	0.00	0.00
12,100.00	88.50	359.97	10,416.47	1,965.63	-1.17	1,965.63	0.00	0.00	0.00
12,200.00	88.50	359.97	10,419.09	2,065.60	-1.23	2,065.60	0.00	0.00	0.00
12,300.00	88.50	359.97	10,421.70	2,165.56	-1.29	2,165.56	0.00	0.00	0.00
12,400.00	88.50	359.97	10,424.32	2,265.53	-1.35	2,265.53	0.00	0.00	0.00
12,500.00	88.50	359.97	10,426.94	2,365.49	-1.41	2,365.49	0.00	0.00	0.00
12,600.00	88.50	359.97	10,429.56	2,465.46	-1.47	2,465.46	0.00	0.00	0.00
12,700.00	88.50	359.97	10,432.17	2,565.43	-1.53	2,565.43	0.00	0.00	0.00
12,800.00	88.50	359.97	10,434.79	2,665.39	-1.59	2,665.39	0.00	0.00	0.00
12,900.00	88.50	359.97	10,437.41	2,765.36	-1.65	2,765.36	0.00	0.00	0.00
13,000.00	88.50	359.97	10,440.03	2,865.32	-1.71	2,865.32	0.00	0.00	0.00
13,100.00	88.50	359.97	10,442.65	2,965.29	-1.77	2,965.29	0.00	0.00	0.00
13,200.00	88.50	359.97	10,445.26	3,065.25	-1.83	3,065.25	0.00	0.00	0.00
13,300.00	88.50	359.97	10,447.88	3,165.22	-1.89	3,165.22	0.00	0.00	0.00
13,400.00	88.50	359.97	10,450.50	3,265.19	-1.95	3,265.19	0.00	0.00	0.00
13,500.00	88.50	359.97	10,453.12	3,365.15	-2.01	3,365.15	0.00	0.00	0.00
13,600.00	88.50	359.97	10,455.73	3,465.12	-2.07	3,465.12	0.00	0.00	0.00
13,700.00	88.50	359.97	10,458.35	3,565.08	-2.13	3,565.08	0.00	0.00	0.00
13,800.00	88.50	359.97	10,460.97	3,665.05	-2.19	3,665.05	0.00	0.00	0.00
13,900.00	88.50	359.97	10,463.59	3,765.01	-2.25	3,765.02	0.00	0.00	0.00
14,000.00	88.50	359.97	10,466.20	3,864.98	-2.31	3,864.98	0.00	0.00	0.00
14,100.00	88.50	359.97	10,468.82	3,964.95	-2.37	3,964.95	0.00	0.00	0.00
14,200.00	88.50	359.97	10,471.44	4,064.91	-2.43	4,064.91	0.00	0.00	0.00
14,300.00	88.50	359.97	10,474.06	4,164.88	-2.49	4,164.88	0.00	0.00	0.00
14,400.00	88.50	359.97	10,476.68	4,264.84	-2.55	4,264.84	0.00	0.00	0.00
14,500.00	88.50	359.97	10,479.29	4,364.81	-2.60	4,364.81	0.00	0.00	0.00
14,600.00	88.50	359.97	10,481.91	4,464.77	-2.66	4,464.78	0.00	0.00	0.00

Company:	Centennial Resource Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD83)	TVD Reference:	KB=25' @ 3657.00usft (H&P 650)
Site:	Vitalizer State	MD Reference:	KB=25' @ 3657.00usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.14 Single User Db

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)
14,700.00	88.50	359.97	10,484.53	4,564.74	-2.72	4,564.74	0.00	0.00	0.00
14,794.44	88.50	359.97	10,487.00	4,659.15	-2.78	4,659.15	0.00	0.00	0.00
TD at 14794.44									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Vitalizer State 502H Targ	88.50	179.97	10,365.00	0.00	0.00	520,863.32	808,403.50	32° 25' 44.204 N	103° 28' 3.925 W
- plan misses target center by 226.93usft at 10250.00usft MD (10207.12 TVD, 163.00 N, -0.10 E)									
- Rectangle (sides W1.00 H0.00 D7,000.00)									
Vitalizer State 502H PBT	0.00	0.00	10,487.00	4,659.15	-2.78	525,522.29	808,362.97	32° 26' 30.306 N	103° 28' 3.958 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,705.00	1,705.00	13 3/8"	13-3/8	17-1/2
5,700.00	5,700.00	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,686.00	1,686.00	Rustler		1.50	359.97
3,808.00	3,808.00	Yates		1.50	359.97
4,372.00	4,372.00	Capitan		1.50	359.97
5,722.00	5,722.00	Cherry Canyon		1.50	359.97
5,975.00	5,975.00	Manzanita Lime		1.50	359.97
6,828.00	6,828.00	Brushy Canyon		1.50	359.97
8,424.00	8,424.00	Bone Spring Lime		1.50	359.97
8,547.00	8,547.00	First Bone Spring Sand		1.50	359.97
8,616.00	8,616.00	Leonard Shale		1.50	359.97
9,752.00	9,752.00	Second Bone Spring Carb		1.50	359.97
10,093.67	10,081.84	Second Bonw Spring Sand		1.50	359.97
10,551.97	10,359.00	Top of Window		1.50	359.97

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Site:	Vitalizer State	MD Reference:	KB=25' @ 3657.00usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.14 Single User Db

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9807	9807	0	0	Build 10°/100'
10,692	10,380	558	0	4102' Hold
14,794	10,487	4659	-3	TD at 14794.44

Checked By: _____ Approved By: _____ Date: _____