



PHOENIX
TECHNOLOGY SERVICES

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Centennial Resources Development, Inc.

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

OH / 65873

Survey: Phoenix MWD Surveys

Standard Survey Report

07 January, 2020



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 603Y
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.30usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.30usft (H&P 618)
Well:	603Y	North Reference:	True
Wellbore:	OH / 65873	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 618)	Database:	USA Compass

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

Site	Chorizo 12 State Com				
Site Position:		Northing:	11,776,359.14 usft	Latitude:	32.432277
From:	Map	Easting:	2,125,745.97 usft	Longitude:	-103.426535
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.84 °

Well	603Y					
Well Position	+N/-S	0.00 usft	Northing:	11,776,358.62 usft	Latitude:	32.432276
	+E/-W	0.00 usft	Easting:	2,125,715.98 usft	Longitude:	-103.426632
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,632.30 usft

Wellbore	OH / 65873				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	12/12/2019	6.64	60.10	47,976.00000000

Design	Surveys (H&P 618)				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	176.29

Survey Program	Date 1/7/2020				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
184.00	20,318.00	Phoenix MWD Surveys (OH / 65873)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184.00	0.19	320.36	184.00	0.23	-0.19	-0.25	0.10	0.10	0.00
First Phoenix MWD Survey									
246.00	0.10	29.25	246.00	0.36	-0.23	-0.38	0.29	-0.15	111.11
303.00	0.09	26.85	303.00	0.44	-0.19	-0.46	0.02	-0.02	-4.21
362.00	0.15	13.90	362.00	0.56	-0.15	-0.57	0.11	0.10	-21.95
421.00	0.18	14.02	421.00	0.73	-0.11	-0.73	0.05	0.05	0.20
479.00	0.14	19.89	479.00	0.88	-0.06	-0.88	0.07	-0.07	10.12
539.00	0.11	22.97	539.00	1.00	-0.02	-1.00	0.05	-0.05	5.13
601.00	0.17	3.69	601.00	1.15	0.01	-1.15	0.12	0.10	-31.10
662.00	0.24	339.95	662.00	1.36	-0.02	-1.36	0.18	0.11	-38.92

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754.00	0.30	359.14	754.00	1.78	-0.09	-1.78	0.12	0.07	20.86
845.00	0.35	352.45	845.00	2.30	-0.13	-2.30	0.07	0.05	-7.35
937.00	0.24	10.87	936.99	2.76	-0.13	-2.77	0.16	-0.12	20.02
1,029.00	0.07	358.69	1,028.99	3.01	-0.10	-3.01	0.19	-0.18	-13.24
1,119.00	0.07	166.02	1,118.99	3.01	-0.09	-3.01	0.15	0.00	185.92
1,209.00	0.23	254.67	1,208.99	2.91	-0.25	-2.92	0.27	0.18	98.50
1,300.00	0.12	252.33	1,299.99	2.83	-0.52	-2.86	0.12	-0.12	-2.57
1,391.00	0.23	294.41	1,390.99	2.88	-0.77	-2.92	0.18	0.12	46.24
1,482.00	0.24	280.18	1,481.99	2.99	-1.13	-3.05	0.06	0.01	-15.64
1,576.00	0.38	270.25	1,575.99	3.02	-1.63	-3.12	0.16	0.15	-10.56
1,670.00	0.47	242.47	1,669.99	2.85	-2.29	-2.99	0.24	0.10	-29.55
1,765.00	0.10	284.48	1,764.99	2.69	-2.71	-2.86	0.42	-0.39	44.22
1,826.00	0.66	95.33	1,825.99	2.67	-2.41	-2.82	1.24	0.92	280.08
1,975.00	2.37	87.99	1,974.93	2.70	1.52	-2.59	1.15	1.15	-4.93
2,069.00	2.22	82.83	2,068.85	2.99	5.27	-2.64	0.27	-0.16	-5.49
2,163.00	2.01	81.80	2,162.79	3.45	8.71	-2.88	0.23	-0.22	-1.10
2,258.00	1.83	82.28	2,257.74	3.90	11.86	-3.12	0.19	-0.19	0.51
2,352.00	1.76	83.63	2,351.69	4.26	14.78	-3.29	0.09	-0.07	1.44
2,446.00	1.62	82.19	2,445.65	4.60	17.53	-3.45	0.16	-0.15	-1.53
2,540.00	1.54	82.50	2,539.61	4.94	20.10	-3.63	0.09	-0.09	0.33
2,634.00	1.34	80.75	2,633.58	5.29	22.44	-3.82	0.22	-0.21	-1.86
2,729.00	1.22	78.06	2,728.56	5.67	24.52	-4.07	0.14	-0.13	-2.83
2,823.00	1.21	81.48	2,822.54	6.03	26.48	-4.30	0.08	-0.01	3.64
2,918.00	1.37	79.89	2,917.51	6.37	28.59	-4.51	0.17	0.17	-1.67
3,013.00	1.72	76.96	3,012.48	6.90	31.10	-4.87	0.38	0.37	-3.08
3,107.00	1.98	74.78	3,106.43	7.64	34.04	-5.42	0.29	0.28	-2.32
3,201.00	1.73	82.06	3,200.38	8.26	37.02	-5.85	0.36	-0.27	7.74
3,295.00	1.09	103.38	3,294.35	8.25	39.29	-5.69	0.87	-0.68	22.68
3,390.00	0.96	112.74	3,389.34	7.74	40.90	-5.07	0.22	-0.14	9.85
3,484.00	0.70	130.15	3,483.33	7.06	42.07	-4.32	0.38	-0.28	18.52
3,578.00	0.61	147.81	3,577.32	6.27	42.77	-3.49	0.23	-0.10	18.79
3,672.00	1.23	126.38	3,671.31	5.25	43.85	-2.40	0.74	0.66	-22.80
3,766.00	1.54	201.55	3,765.29	3.47	44.20	-0.60	1.82	0.33	79.97
3,861.00	3.12	233.90	3,860.21	0.76	41.64	1.94	2.10	1.66	34.05
3,955.00	2.24	249.89	3,954.11	-1.38	37.85	3.82	1.22	-0.94	17.01
4,049.00	1.82	259.26	4,048.05	-2.29	34.66	4.53	0.57	-0.45	9.97
4,143.00	1.75	244.59	4,142.00	-3.18	31.90	5.24	0.49	-0.07	-15.61
4,237.00	1.55	237.47	4,235.97	-4.48	29.53	6.38	0.30	-0.21	-7.57
4,332.00	2.00	232.37	4,330.92	-6.18	27.13	7.93	0.50	0.47	-5.37
4,426.00	1.94	234.18	4,424.86	-8.12	24.54	9.69	0.09	-0.06	1.93
4,520.00	1.57	234.83	4,518.82	-9.79	22.20	11.21	0.39	-0.39	0.69
4,614.00	1.11	234.79	4,612.79	-11.06	20.40	12.35	0.49	-0.49	-0.04
4,709.00	1.11	249.80	4,707.78	-11.91	18.79	13.10	0.31	0.00	15.80

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4,803.00	1.20	271.12	4,801.76	-12.20	16.95	13.27	0.46	0.10	22.68
4,897.00	1.06	284.68	4,895.74	-11.96	15.12	12.91	0.32	-0.15	14.43
4,991.00	0.55	290.94	4,989.73	-11.58	13.86	12.45	0.55	-0.54	6.66
5,085.00	0.16	196.39	5,083.73	-11.54	13.40	12.39	0.62	-0.41	-100.59
5,180.00	0.14	163.55	5,178.73	-11.78	13.40	12.62	0.09	-0.02	-34.57
5,274.00	0.22	140.05	5,272.73	-12.03	13.55	12.88	0.11	0.09	-25.00
5,368.00	0.25	141.01	5,366.73	-12.33	13.79	13.20	0.03	0.03	1.02
5,463.00	0.19	130.09	5,461.73	-12.59	14.04	13.47	0.08	-0.06	-11.49
5,538.00	0.21	158.73	5,536.73	-12.80	14.19	13.69	0.13	0.03	38.19
5,652.00	0.30	211.98	5,650.72	-13.25	14.11	14.13	0.21	0.08	46.71
5,746.00	0.73	73.09	5,744.72	-13.28	14.55	14.20	1.04	0.46	-147.76
5,840.00	2.91	83.29	5,838.67	-12.83	17.49	13.93	2.34	2.32	10.85
5,934.00	4.34	72.40	5,932.48	-11.47	23.25	12.95	1.68	1.52	-11.59
6,028.00	5.16	75.79	6,026.16	-9.36	30.74	11.33	0.92	0.87	3.61
6,122.00	6.36	77.03	6,119.68	-7.15	39.91	9.72	1.28	1.28	1.32
6,216.00	7.48	82.94	6,213.00	-5.23	51.06	8.53	1.41	1.19	6.29
6,310.00	8.53	80.93	6,306.08	-3.38	64.01	7.52	1.16	1.12	-2.14
6,404.00	9.74	82.84	6,398.88	-1.29	78.79	6.39	1.33	1.29	2.03
6,498.00	9.97	89.27	6,491.50	-0.20	94.81	6.33	1.20	0.24	6.84
6,593.00	10.69	89.82	6,584.96	-0.07	111.85	7.30	0.76	0.76	0.58
6,687.00	11.17	89.05	6,677.25	0.11	129.67	8.28	0.53	0.51	-0.82
6,782.00	11.38	89.17	6,770.42	0.40	148.24	9.19	0.22	0.22	0.13
6,876.00	10.88	91.97	6,862.65	0.23	166.38	10.54	0.78	-0.53	2.98
6,970.00	10.51	92.31	6,955.02	-0.42	183.81	12.31	0.40	-0.39	0.36
7,064.00	9.60	91.65	7,047.58	-0.99	200.22	13.94	0.98	-0.97	-0.70
7,158.00	7.89	88.10	7,140.48	-1.00	214.50	14.88	1.91	-1.82	-3.78
7,252.00	7.48	89.76	7,233.64	-0.76	227.07	15.45	0.50	-0.44	1.77
7,347.00	7.94	90.58	7,327.78	-0.80	239.81	16.32	0.50	0.48	0.86
7,441.00	8.41	87.49	7,420.82	-0.57	253.17	16.95	0.68	0.50	-3.29
7,535.00	7.91	85.46	7,513.87	0.24	266.49	17.00	0.61	-0.53	-2.16
7,630.00	7.75	82.49	7,607.98	1.60	279.35	16.48	0.46	-0.17	-3.13
7,724.00	8.47	83.83	7,701.04	3.17	292.52	15.76	0.79	0.77	1.43
7,818.00	9.13	86.01	7,793.94	4.43	306.84	15.43	0.79	0.70	2.32
7,913.00	8.94	84.72	7,887.76	5.64	321.71	15.19	0.29	-0.20	-1.36
8,007.00	9.74	89.90	7,980.51	6.32	336.94	15.49	1.23	0.85	5.51
8,101.00	9.35	91.76	8,073.21	6.10	352.52	16.72	0.53	-0.41	1.98
8,195.00	8.48	91.31	8,166.08	5.71	367.08	18.05	0.93	-0.93	-0.48
8,289.00	8.15	88.78	8,259.09	5.69	380.67	18.95	0.52	-0.35	-2.69
8,383.00	8.84	88.63	8,352.06	6.01	394.55	19.53	0.73	0.73	-0.16
8,477.00	7.88	85.66	8,445.06	6.67	408.20	19.76	1.12	-1.02	-3.16
8,572.00	7.66	84.52	8,539.18	7.77	421.00	19.49	0.28	-0.23	-1.20
8,666.00	6.91	84.52	8,632.42	8.90	432.86	19.12	0.80	-0.80	0.00
8,760.00	9.41	83.31	8,725.47	10.34	446.12	18.55	2.67	2.66	-1.29

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8,854.00	12.46	85.65	8,817.75	12.00	463.87	18.04	3.28	3.24	2.49
8,948.00	13.16	80.46	8,909.41	14.55	484.54	16.84	1.43	0.74	-5.52
9,043.00	11.19	71.94	9,002.28	19.20	503.97	13.45	2.80	-2.07	-8.97
9,137.00	11.25	67.48	9,094.48	25.54	521.11	8.24	0.93	0.06	-4.74
9,231.00	10.97	65.12	9,186.72	32.81	537.70	2.05	0.57	-0.30	-2.51
9,325.00	8.07	63.96	9,279.42	39.47	551.74	-3.69	3.09	-3.09	-1.23
9,419.00	7.51	70.01	9,372.55	44.47	563.44	-7.92	1.06	-0.60	6.44
9,514.00	7.66	91.37	9,466.74	46.44	575.61	-9.10	2.96	0.16	22.48
9,608.00	8.16	108.12	9,559.86	44.22	588.21	-6.06	2.50	0.53	17.82
9,702.00	6.33	117.48	9,653.10	39.75	599.15	-0.90	2.31	-1.95	9.96
9,796.00	4.41	121.61	9,746.69	35.46	606.83	3.88	2.08	-2.04	4.39
9,891.00	3.56	119.53	9,841.46	32.10	612.50	7.60	0.91	-0.89	-2.19
9,985.00	3.05	117.68	9,935.30	29.50	617.26	10.51	0.55	-0.54	-1.97
10,079.00	3.04	126.75	10,029.17	26.84	621.47	13.43	0.51	-0.01	9.65
10,173.00	2.64	130.65	10,123.05	23.94	625.11	16.56	0.47	-0.43	4.15
10,268.00	1.53	127.89	10,217.99	21.74	627.77	18.93	1.17	-1.17	-2.91
10,361.00	1.46	108.73	10,310.96	20.59	629.87	20.21	0.54	-0.08	-20.60
10,456.00	1.54	76.42	10,405.93	20.51	632.26	20.45	0.88	0.08	-34.01
10,531.00	2.22	63.27	10,480.89	21.40	634.54	19.71	1.07	0.91	-17.53
10,642.00	7.79	149.70	10,591.51	15.86	640.26	25.60	7.17	5.02	77.86
10,689.00	15.33	155.93	10,637.53	7.42	644.41	34.29	16.24	16.04	13.26
10,736.00	20.66	160.47	10,682.21	-6.07	649.72	48.10	11.72	11.34	9.66
10,783.00	27.57	167.18	10,725.09	-24.52	654.91	66.85	15.80	14.70	14.28
10,832.00	32.05	166.56	10,767.60	-48.23	660.45	90.87	9.16	9.14	-1.27
10,879.00	35.29	169.87	10,806.71	-73.74	665.74	116.66	7.92	6.89	7.04
10,927.00	37.45	175.78	10,845.37	-101.95	669.25	145.04	8.57	4.50	12.31
10,974.00	43.13	180.86	10,881.22	-132.30	670.07	175.38	13.95	12.09	10.81
11,022.00	47.16	178.70	10,915.07	-166.32	670.22	209.33	8.98	8.40	-4.50
11,069.00	51.02	179.41	10,945.84	-201.82	670.80	244.81	8.29	8.21	1.51
11,116.00	56.84	183.97	10,973.51	-239.76	669.62	282.59	14.65	12.38	9.70
11,163.00	59.53	185.30	10,998.29	-279.56	666.39	322.10	6.21	5.72	2.83
11,211.00	58.65	184.96	11,022.94	-320.58	662.71	362.79	1.93	-1.83	-0.71
11,258.00	56.41	184.79	11,048.17	-360.09	659.34	402.00	4.78	-4.77	-0.36
11,306.00	56.89	184.15	11,074.56	-400.06	656.21	441.68	1.50	1.00	-1.33
11,353.00	61.37	185.10	11,098.67	-440.26	652.95	481.59	9.69	9.53	2.02
11,402.00	68.40	184.40	11,119.46	-484.45	649.29	525.45	14.41	14.35	-1.43
11,449.00	76.67	183.71	11,133.55	-529.13	646.13	569.83	17.65	17.60	-1.47
11,497.00	81.62	183.53	11,142.59	-576.16	643.15	616.57	10.32	10.31	-0.38
11,544.00	83.05	182.58	11,148.86	-622.67	640.67	662.83	3.64	3.04	-2.02
11,592.00	88.67	178.12	11,152.32	-670.52	640.38	710.55	14.93	11.71	-9.29
11,639.00	89.08	177.11	11,153.24	-717.47	642.34	757.53	2.32	0.87	-2.15
11,688.00	89.36	176.99	11,153.91	-766.40	644.86	806.52	0.62	0.57	-0.24
11,783.00	88.96	178.25	11,155.30	-861.30	648.81	901.48	1.39	-0.42	1.33
11,878.00	88.21	181.40	11,157.65	-956.26	649.10	996.26	3.41	-0.79	3.32

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 603Y
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.30usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.30usft (H&P 618)
Well:	603Y	North Reference:	True
Wellbore:	OH / 65873	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 618)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,973.00	88.90	181.31	11,160.05	-1,051.20	646.85	1,090.86	0.73	0.73	-0.09
12,068.00	90.38	178.54	11,160.64	-1,146.19	646.97	1,185.65	3.31	1.56	-2.92
12,164.00	91.01	183.49	11,159.48	-1,242.14	645.27	1,281.29	5.20	0.66	5.16
12,259.00	87.64	184.05	11,160.60	-1,336.91	639.03	1,375.46	3.60	-3.55	0.59
12,354.00	87.13	183.57	11,164.93	-1,431.60	632.72	1,469.54	0.74	-0.54	-0.51
12,449.00	87.11	183.16	11,169.71	-1,526.32	627.15	1,563.70	0.43	-0.02	-0.43
12,545.00	87.62	182.71	11,174.12	-1,622.09	622.24	1,658.95	0.71	0.53	-0.47
12,640.00	89.05	183.38	11,176.88	-1,716.91	617.20	1,753.25	1.66	1.51	0.71
12,735.00	87.59	181.07	11,179.66	-1,811.79	613.51	1,847.69	2.88	-1.54	-2.43
12,830.00	87.99	180.07	11,183.33	-1,906.71	612.57	1,942.36	1.13	0.42	-1.05
12,925.00	87.87	178.95	11,186.76	-2,001.65	613.38	2,037.14	1.18	-0.13	-1.18
13,020.00	88.08	178.19	11,190.12	-2,096.56	615.75	2,132.01	0.83	0.22	-0.80
13,116.00	88.64	179.18	11,192.86	-2,192.49	617.95	2,227.88	1.18	0.58	1.03
13,154.00	88.11	179.27	11,193.94	-2,230.47	618.47	2,265.82	1.41	-1.39	0.24
13,249.00	89.67	179.25	11,195.78	-2,325.44	619.69	2,360.67	1.64	1.64	-0.02
13,344.00	91.22	180.04	11,195.04	-2,420.44	620.28	2,455.50	1.83	1.63	0.83
13,439.00	90.92	179.12	11,193.27	-2,515.42	620.98	2,550.33	1.02	-0.32	-0.97
13,534.00	88.34	178.47	11,193.88	-2,610.38	622.98	2,645.22	2.80	-2.72	-0.68
13,629.00	86.03	179.95	11,198.55	-2,705.25	624.28	2,739.98	2.89	-2.43	1.56
13,725.00	86.03	179.84	11,205.20	-2,801.02	624.46	2,835.56	0.11	0.00	-0.11
13,819.00	86.73	179.38	11,211.13	-2,894.83	625.10	2,929.21	0.89	0.74	-0.49
13,915.00	86.77	179.34	11,216.57	-2,990.67	626.17	3,024.92	0.06	0.04	-0.04
14,010.00	89.45	181.03	11,219.71	-3,085.61	625.86	3,119.64	3.33	2.82	1.78
14,105.00	90.16	180.47	11,220.03	-3,180.60	624.62	3,214.35	0.95	0.75	-0.59
14,200.00	89.93	180.87	11,219.95	-3,275.59	623.51	3,309.07	0.49	-0.24	0.42
14,295.00	89.30	181.23	11,220.59	-3,370.57	621.77	3,403.74	0.76	-0.66	0.38
14,390.00	88.33	180.74	11,222.56	-3,465.53	620.13	3,498.40	1.14	-1.02	-0.52
14,486.00	88.01	180.63	11,225.62	-3,561.48	618.99	3,594.07	0.35	-0.33	-0.11
14,581.00	87.93	181.04	11,228.99	-3,656.41	617.60	3,688.71	0.44	-0.08	0.43
14,676.00	88.61	180.89	11,231.86	-3,751.35	616.00	3,783.35	0.73	0.72	-0.16
14,771.00	90.64	181.10	11,232.48	-3,846.33	614.35	3,878.02	2.15	2.14	0.22
14,866.00	88.54	179.78	11,233.16	-3,941.32	613.62	3,972.76	2.61	-2.21	-1.39
14,962.00	87.28	179.44	11,236.66	-4,037.25	614.28	4,068.54	1.36	-1.31	-0.35
15,057.00	87.96	178.54	11,240.60	-4,132.15	615.95	4,163.35	1.19	0.72	-0.95
15,152.00	89.22	178.58	11,242.94	-4,227.09	618.34	4,258.24	1.33	1.33	0.04
15,247.00	88.37	179.10	11,244.94	-4,322.05	620.26	4,353.13	1.05	-0.89	0.55
15,343.00	89.75	178.29	11,246.51	-4,418.01	622.45	4,449.03	1.67	1.44	-0.84
15,438.00	90.50	179.83	11,246.31	-4,512.99	624.00	4,543.91	1.80	0.79	1.62
15,533.00	91.12	180.01	11,244.96	-4,607.98	624.14	4,638.71	0.68	0.65	0.19
15,628.00	88.76	180.23	11,245.06	-4,702.97	623.94	4,733.49	2.49	-2.48	0.23
15,723.00	89.02	180.68	11,246.90	-4,797.95	623.18	4,828.22	0.55	0.27	0.47
15,819.00	89.67	180.13	11,248.00	-4,893.94	622.51	4,923.97	0.89	0.68	-0.57
15,914.00	88.71	181.49	11,249.34	-4,988.92	621.16	5,018.66	1.75	-1.01	1.43

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 603Y
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.30usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.30usft (H&P 618)
Well:	603Y	North Reference:	True
Wellbore:	OH / 65873	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 618)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,009.00	89.21	181.22	11,251.07	-5,083.88	618.92	5,113.27	0.60	0.53	-0.28
16,104.00	89.72	181.38	11,251.96	-5,178.85	616.76	5,207.91	0.56	0.54	0.17
16,199.00	90.18	181.61	11,252.04	-5,273.82	614.28	5,302.51	0.54	0.48	0.24
16,294.00	88.62	181.50	11,253.03	-5,368.77	611.71	5,397.10	1.65	-1.64	-0.12
16,390.00	89.73	181.29	11,254.42	-5,464.73	609.37	5,492.71	1.18	1.16	-0.22
16,485.00	88.02	180.86	11,256.28	-5,559.70	607.59	5,587.36	1.86	-1.80	-0.45
16,580.00	86.35	179.34	11,260.95	-5,654.57	607.42	5,682.03	2.38	-1.76	-1.60
16,675.00	86.90	179.43	11,266.54	-5,749.40	608.44	5,776.72	0.59	0.58	0.09
16,770.00	87.80	179.71	11,270.93	-5,844.30	609.15	5,871.47	0.99	0.95	0.29
16,865.00	88.16	180.01	11,274.28	-5,939.24	609.38	5,966.22	0.49	0.38	0.32
16,960.00	88.54	180.56	11,277.02	-6,034.20	608.91	6,060.95	0.70	0.40	0.58
17,055.00	89.39	180.79	11,278.73	-6,129.17	607.79	6,155.66	0.93	0.89	0.24
17,150.00	91.10	180.51	11,278.33	-6,224.16	606.71	6,250.38	1.82	1.80	-0.29
17,246.00	91.63	178.60	11,276.04	-6,320.13	607.46	6,346.19	2.06	0.55	-1.99
17,341.00	91.35	177.02	11,273.57	-6,415.02	611.09	6,441.12	1.69	-0.29	-1.66
17,436.00	91.72	175.96	11,271.02	-6,509.81	616.90	6,536.09	1.18	0.39	-1.12
17,531.00	89.55	177.93	11,269.97	-6,604.66	621.96	6,631.06	3.08	-2.28	2.07
17,627.00	89.35	174.71	11,270.89	-6,700.44	628.12	6,727.05	3.36	-0.21	-3.35
17,722.00	87.29	173.61	11,273.68	-6,794.90	637.78	6,821.93	2.46	-2.17	-1.16
17,817.00	89.78	174.35	11,276.11	-6,889.34	647.74	6,916.82	2.73	2.62	0.78
17,849.00	88.51	174.84	11,276.58	-6,921.19	650.76	6,948.80	4.25	-3.97	1.53
17,881.00	87.63	173.38	11,277.66	-6,953.01	654.04	6,980.76	5.32	-2.75	-4.56
17,912.00	88.68	175.04	11,278.66	-6,983.83	657.16	7,011.72	6.33	3.39	5.35
17,931.00	91.42	178.61	11,278.64	-7,002.80	658.22	7,030.71	23.68	14.42	18.79
17,944.00	91.90	181.16	11,278.27	-7,015.79	658.24	7,043.68	19.95	3.69	19.62
17,976.00	92.21	184.02	11,277.12	-7,047.73	656.80	7,075.46	8.98	0.97	8.94
18,008.00	90.95	184.77	11,276.24	-7,079.63	654.35	7,107.13	4.58	-3.94	2.34
18,039.00	89.78	183.51	11,276.04	-7,110.54	652.11	7,137.84	5.55	-3.77	-4.06
18,071.00	88.90	182.47	11,276.41	-7,142.50	650.44	7,169.62	4.26	-2.75	-3.25
18,103.00	88.48	182.14	11,277.14	-7,174.46	649.15	7,201.43	1.67	-1.31	-1.03
18,135.00	88.05	181.88	11,278.11	-7,206.43	648.03	7,233.26	1.57	-1.34	-0.81
18,198.00	87.82	182.04	11,280.38	-7,269.35	645.88	7,295.91	0.44	-0.37	0.25
18,294.00	86.12	182.52	11,285.45	-7,365.14	642.06	7,391.25	1.84	-1.77	0.50
18,325.00	85.55	183.14	11,287.70	-7,396.02	640.54	7,421.96	2.71	-1.84	2.00
18,357.00	86.85	182.83	11,289.82	-7,427.90	638.88	7,453.68	4.18	4.06	-0.97
18,389.00	86.88	182.94	11,291.57	-7,459.81	637.27	7,485.42	0.36	0.09	0.34
18,420.00	87.12	184.65	11,293.20	-7,490.70	635.22	7,516.11	5.56	0.77	5.52
18,452.00	87.74	182.57	11,294.63	-7,522.61	633.21	7,547.81	6.78	1.94	-6.50
18,484.00	89.47	182.60	11,295.41	-7,554.56	631.76	7,579.61	5.41	5.41	0.09
18,516.00	89.44	182.56	11,295.71	-7,586.53	630.32	7,611.42	0.16	-0.09	-0.13
18,547.00	89.22	183.54	11,296.08	-7,617.48	628.67	7,642.20	3.24	-0.71	3.16
18,579.00	90.08	183.33	11,296.27	-7,649.42	626.76	7,673.95	2.77	2.69	-0.66
18,674.00	91.78	181.90	11,294.73	-7,744.31	622.42	7,768.35	2.34	1.79	-1.51

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 603Y
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.30usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.30usft (H&P 618)
Well:	603Y	North Reference:	True
Wellbore:	OH / 65873	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 618)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,770.00	92.73	181.17	11,290.95	-7,840.20	619.85	7,863.87	1.25	0.99	-0.76	
18,865.00	91.30	180.57	11,287.61	-7,935.12	618.41	7,958.51	1.63	-1.51	-0.63	
18,960.00	90.67	178.86	11,285.98	-8,030.10	618.88	8,053.32	1.92	-0.66	-1.80	
19,055.00	90.04	180.47	11,285.39	-8,125.10	619.44	8,148.15	1.82	-0.66	1.69	
19,150.00	90.15	179.63	11,285.23	-8,220.10	619.36	8,242.95	0.89	0.12	-0.88	
19,246.00	89.16	180.88	11,285.81	-8,316.09	618.93	8,338.71	1.66	-1.03	1.30	
19,341.00	89.25	179.21	11,287.13	-8,411.08	618.85	8,433.49	1.76	0.09	-1.76	
19,436.00	89.30	180.08	11,288.33	-8,506.07	619.44	8,528.32	0.92	0.05	0.92	
19,531.00	88.84	179.21	11,289.87	-8,601.05	620.03	8,623.15	1.04	-0.48	-0.92	
19,626.00	90.02	179.87	11,290.82	-8,696.04	620.79	8,717.99	1.42	1.24	0.69	
19,722.00	89.48	176.58	11,291.24	-8,791.98	623.77	8,813.92	3.47	-0.56	-3.43	
19,817.00	87.45	177.58	11,293.78	-8,886.82	628.60	8,908.87	2.38	-2.14	1.05	
19,849.00	88.05	178.23	11,295.04	-8,918.77	629.77	8,940.83	2.76	1.88	2.03	
19,912.00	91.84	177.54	11,295.10	-8,981.72	632.10	9,003.79	6.11	6.02	-1.10	
20,007.00	88.81	179.53	11,294.56	-9,076.67	634.53	9,098.70	3.82	-3.19	2.09	
20,102.00	90.29	180.81	11,295.31	-9,171.66	634.24	9,193.48	2.06	1.56	1.35	
20,197.00	90.18	179.36	11,294.92	-9,266.66	634.10	9,288.27	1.53	-0.12	-1.53	
20,254.00	88.05	177.51	11,295.80	-9,323.62	635.66	9,345.21	4.95	-3.74	-3.25	
Final Phoenix MWD Survey										
20,318.00	88.05	177.51	11,297.98	-9,387.53	638.44	9,409.16	0.00	0.00	0.00	
Projection to TD										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
184.00	184.00	0.23	-0.19	First Phoenix MWD Survey
20,254.00	11,295.80	-9,323.62	635.66	Final Phoenix MWD Survey
20,318.00	11,297.98	-9,387.53	638.44	Projection to TD