

OCD – HOBBS
03/19/2020
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Centennial Resources Development, Inc.

Lea County, NM (NAD83 - UTM Zone 13)
Chorizo 12 State Com
602H

OH / 65678

Survey: Phoenix MWD Surveys

Standard Survey Report

01 December, 2019

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 602H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.90usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.90usft (H&P 618)
Well:	602H	North Reference:	True
Wellbore:	OH / 65678	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
From:	Map	Easting:	2,125,745.97 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.432277
		Longitude:	-103.426535
		Grid Convergence:	0.84 °

Well	602H		
Well Position	+N/-S	0.00 usft	Northing: 11,776,359.14 usft
	+E/-W	0.00 usft	Easting: 2,125,745.97 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32.432277
		Longitude:	-103.426535
		Ground Level:	3,632.90 usft

Wellbore	OH / 65678		
Magnetics	Model Name	Sample Date	Declination (°)
	User Defined	11/13/2019	6.65
			Dip Angle (°) 60.11
			Field Strength (nT) 47,985.00000000

Design	Surveys (H&P 618)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 182.91

Survey Program	Date	12/1/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
221.00	21,273.00	Phoenix MWD Surveys (OH / 65678)	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
221.00	0.39	137.82	221.00	-0.56	0.51	0.53	0.18	0.18	0.00
First Phoenix MWD Survey									
311.00	0.45	157.23	311.00	-1.11	0.85	1.07	0.17	0.07	21.57
398.00	0.55	159.65	397.99	-1.82	1.12	1.76	0.12	0.11	2.78
487.00	0.61	156.92	486.99	-2.65	1.46	2.58	0.07	0.07	-3.07
573.00	0.60	156.75	572.98	-3.49	1.82	3.39	0.01	-0.01	-0.20
666.00	0.64	149.85	665.98	-4.38	2.27	4.26	0.09	0.04	-7.42
757.00	0.09	175.78	756.98	-4.90	2.53	4.76	0.62	-0.60	28.49
848.00	0.58	312.19	847.97	-4.66	2.19	4.54	0.71	0.54	149.90
940.00	0.59	304.53	939.97	-4.08	1.46	4.00	0.09	0.01	-8.33

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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)
1,031.00	0.47	275.38	1,030.97	-3.78	0.70	3.73	0.32	-0.13	-32.03
1,121.00	0.45	264.53	1,120.96	-3.77	-0.02	3.77	0.10	-0.02	-12.06
1,213.00	0.55	268.37	1,212.96	-3.82	-0.82	3.86	0.11	0.11	4.17
1,304.00	0.68	285.64	1,303.95	-3.69	-1.78	3.77	0.25	0.14	18.98
1,396.00	0.75	287.67	1,395.95	-3.36	-2.88	3.50	0.08	0.08	2.21
1,488.00	1.04	297.44	1,487.94	-2.79	-4.19	3.00	0.36	0.32	10.62
1,582.00	1.14	301.20	1,581.92	-1.91	-5.75	2.20	0.13	0.11	4.00
1,676.00	1.09	294.50	1,675.90	-1.06	-7.36	1.43	0.15	-0.05	-7.13
1,770.00	0.85	296.04	1,769.89	-0.38	-8.80	0.83	0.26	-0.26	1.64
1,811.00	0.53	347.90	1,810.88	-0.06	-9.11	0.52	1.63	-0.78	126.49
1,930.00	1.48	64.90	1,929.87	1.13	-7.84	-0.73	1.22	0.80	64.71
1,978.00	1.59	61.49	1,977.85	1.71	-6.69	-1.37	0.30	0.23	-7.10
2,073.00	2.07	5.27	2,072.81	4.05	-5.37	-3.77	1.87	0.51	-59.18
2,167.00	3.17	349.22	2,166.71	8.29	-5.70	-7.99	1.40	1.17	-17.07
2,261.00	4.76	339.27	2,260.48	14.49	-7.57	-14.09	1.84	1.69	-10.59
2,355.00	6.36	332.30	2,354.04	22.75	-11.37	-22.14	1.84	1.70	-7.41
2,449.00	7.81	329.19	2,447.32	32.85	-17.06	-31.94	1.60	1.54	-3.31
2,544.00	8.96	329.53	2,541.30	44.77	-24.12	-43.48	1.21	1.21	0.36
2,638.00	10.17	331.21	2,633.99	58.35	-31.83	-56.66	1.32	1.29	1.79
2,732.00	10.53	332.65	2,726.47	73.25	-39.77	-71.14	0.47	0.38	1.53
2,827.00	10.37	333.06	2,819.89	88.58	-47.64	-86.05	0.19	-0.17	0.43
2,922.00	10.21	332.56	2,913.36	103.68	-55.39	-100.73	0.19	-0.17	-0.53
3,016.00	10.20	337.02	3,005.88	118.73	-62.48	-115.41	0.84	-0.01	4.74
3,110.00	10.10	339.21	3,098.41	134.10	-68.65	-130.44	0.42	-0.11	2.33
3,205.00	9.97	342.92	3,191.95	149.75	-74.02	-145.80	0.69	-0.14	3.91
3,299.00	9.80	345.00	3,284.56	165.26	-78.49	-161.06	0.42	-0.18	2.21
3,393.00	9.78	346.68	3,377.19	180.75	-82.40	-176.34	0.30	-0.02	1.79
3,487.00	9.76	341.49	3,469.83	196.08	-86.76	-191.42	0.94	-0.02	-5.52
3,581.00	10.03	331.36	3,562.44	210.82	-93.22	-205.81	1.87	0.29	-10.78
3,676.00	9.56	330.54	3,656.05	224.95	-101.06	-219.53	0.52	-0.49	-0.86
3,770.00	9.31	332.79	3,748.78	238.51	-108.38	-232.70	0.47	-0.27	2.39
3,864.00	8.83	332.10	3,841.60	251.64	-115.23	-245.47	0.52	-0.51	-0.73
3,958.00	8.78	324.91	3,934.50	263.89	-122.73	-257.32	1.17	-0.05	-7.65
4,053.00	8.87	320.69	4,028.38	275.49	-131.54	-268.46	0.69	0.09	-4.44
4,147.00	8.81	321.99	4,121.26	286.77	-140.56	-279.26	0.22	-0.06	1.38
4,241.00	8.77	323.70	4,214.16	298.22	-149.24	-290.26	0.28	-0.04	1.82
4,335.00	8.31	324.05	4,307.11	309.49	-157.47	-301.10	0.49	-0.49	0.37
4,429.00	8.73	321.83	4,400.08	320.60	-165.87	-311.76	0.57	0.45	-2.36
4,524.00	8.50	322.24	4,494.00	331.82	-174.62	-322.52	0.25	-0.24	0.43
4,618.00	9.01	324.05	4,586.91	343.27	-183.20	-333.52	0.62	0.54	1.93
4,712.00	9.57	326.77	4,679.68	355.76	-191.80	-345.57	0.76	0.60	2.89
4,806.00	10.39	328.12	4,772.25	369.50	-200.56	-358.84	0.91	0.87	1.44
4,900.00	9.50	330.15	4,864.84	383.42	-208.90	-372.32	1.02	-0.95	2.16

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4,994.00	10.35	332.36	4,957.43	397.63	-216.67	-386.12	0.99	0.90	2.35
5,089.00	13.32	328.51	5,050.40	414.53	-226.35	-402.50	3.23	3.13	-4.05
5,183.00	13.82	329.89	5,141.78	433.47	-237.64	-420.85	0.63	0.53	1.47
5,277.00	14.31	333.00	5,232.96	453.54	-248.55	-440.33	0.96	0.52	3.31
5,372.00	14.83	333.38	5,324.91	474.87	-259.32	-461.09	0.56	0.55	0.40
5,466.00	15.23	333.94	5,415.69	496.71	-270.14	-482.36	0.45	0.43	0.60
5,533.00	15.40	334.52	5,480.31	512.65	-277.83	-497.88	0.34	0.25	0.87
5,653.00	15.58	335.11	5,595.95	541.65	-291.47	-526.16	0.20	0.15	0.49
5,748.00	13.68	331.67	5,687.87	563.11	-302.17	-547.05	2.20	-2.00	-3.62
5,842.00	11.76	329.93	5,779.56	581.19	-312.25	-564.59	2.08	-2.04	-1.85
5,936.00	10.20	328.12	5,871.84	596.55	-321.44	-579.46	1.70	-1.66	-1.93
6,030.00	8.90	322.48	5,964.53	609.38	-330.27	-591.83	1.70	-1.38	-6.00
6,124.00	8.18	320.07	6,057.49	620.28	-338.99	-602.27	0.86	-0.77	-2.56
6,218.00	8.17	319.51	6,150.54	630.49	-347.62	-612.03	0.09	-0.01	-0.60
6,312.00	8.68	329.87	6,243.53	641.70	-355.51	-622.83	1.70	0.54	11.02
6,406.00	8.19	341.36	6,336.52	654.18	-361.22	-635.00	1.86	-0.52	12.22
6,500.00	8.11	340.37	6,429.57	666.77	-365.58	-647.35	0.17	-0.09	-1.05
6,594.00	7.41	339.24	6,522.71	678.69	-369.96	-659.03	0.76	-0.74	-1.20
6,689.00	7.23	336.16	6,616.93	689.88	-374.55	-669.98	0.45	-0.19	-3.24
6,783.00	6.89	333.78	6,710.22	700.35	-379.43	-680.18	0.48	-0.36	-2.53
6,877.00	6.49	331.49	6,803.58	710.08	-384.46	-689.64	0.51	-0.43	-2.44
6,971.00	6.37	328.39	6,896.99	719.19	-389.72	-698.47	0.39	-0.13	-3.30
7,066.00	6.49	340.28	6,991.39	728.73	-394.30	-707.77	1.40	0.13	12.52
7,160.00	5.79	339.12	7,084.85	738.16	-397.78	-717.01	0.76	-0.74	-1.23
7,254.00	5.29	335.53	7,178.42	746.53	-401.27	-725.20	0.65	-0.53	-3.82
7,348.00	4.50	334.49	7,272.07	753.81	-404.65	-732.29	0.85	-0.84	-1.11
7,443.00	4.41	336.97	7,366.79	760.53	-407.68	-738.85	0.22	-0.09	2.61
7,537.00	4.25	341.52	7,460.52	767.16	-410.20	-745.35	0.40	-0.17	4.84
7,631.00	4.70	341.90	7,554.23	774.12	-412.50	-752.18	0.48	0.48	0.40
7,726.00	4.84	340.89	7,648.90	781.61	-415.02	-759.53	0.17	0.15	-1.06
7,820.00	5.28	346.55	7,742.54	789.56	-417.33	-767.36	0.71	0.47	6.02
7,914.00	5.66	344.32	7,836.11	798.23	-419.59	-775.90	0.46	0.40	-2.37
8,008.00	4.99	338.27	7,929.70	806.49	-422.35	-784.01	0.93	-0.71	-6.44
8,103.00	4.46	337.94	8,024.38	813.76	-425.27	-791.12	0.56	-0.56	-0.35
8,197.00	5.99	334.20	8,117.99	821.56	-428.78	-798.73	1.67	1.63	-3.98
8,291.00	5.04	335.45	8,211.55	829.73	-432.63	-806.70	1.02	-1.01	1.33
8,385.00	4.52	344.16	8,305.22	837.05	-435.35	-813.87	0.95	-0.55	9.27
8,479.00	5.07	333.47	8,398.90	844.33	-438.22	-820.99	1.11	0.59	-11.37
8,573.00	4.42	331.03	8,492.57	851.21	-441.83	-827.69	0.72	-0.69	-2.60
8,668.00	3.93	327.75	8,587.32	857.17	-445.34	-833.46	0.57	-0.52	-3.45
8,762.00	2.77	329.91	8,681.16	861.86	-448.20	-838.00	1.24	-1.23	2.30
8,856.00	1.66	326.98	8,775.09	864.97	-450.08	-841.00	1.19	-1.18	-3.12
8,950.00	0.61	18.68	8,869.07	866.58	-450.66	-842.59	1.46	-1.12	55.00

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9,044.00	0.85	63.69	8,963.06	867.37	-449.87	-843.41	0.64	0.26	47.88
9,139.00	1.42	10.61	9,058.05	868.84	-449.03	-844.92	1.19	0.60	-55.87
9,233.00	2.28	0.48	9,152.00	871.85	-448.80	-847.94	0.98	0.91	-10.78
9,327.00	2.69	359.73	9,245.91	875.93	-448.79	-852.01	0.44	0.44	-0.80
9,421.00	2.75	335.25	9,339.80	880.18	-449.74	-856.21	1.23	0.06	-26.04
9,516.00	2.52	331.30	9,434.70	884.08	-451.70	-860.01	0.31	-0.24	-4.16
9,611.00	2.59	343.85	9,529.61	887.97	-453.30	-863.82	0.59	0.07	13.21
9,705.00	2.40	336.52	9,623.52	891.82	-454.68	-867.59	0.39	-0.20	-7.80
9,799.00	2.43	344.52	9,717.44	895.55	-455.99	-871.24	0.36	0.03	8.51
9,893.00	1.11	4.92	9,811.39	898.37	-456.45	-874.04	1.53	-1.40	21.70
9,987.00	0.90	36.46	9,905.38	899.87	-455.93	-875.57	0.62	-0.22	33.55
10,082.00	1.74	43.75	10,000.35	901.52	-454.49	-877.28	0.90	0.88	7.67
10,176.00	1.86	34.91	10,094.31	903.80	-452.63	-879.65	0.32	0.13	-9.40
10,270.00	1.81	33.27	10,188.26	906.29	-450.94	-882.23	0.08	-0.05	-1.74
10,364.00	0.97	59.37	10,282.23	907.94	-449.44	-883.95	1.10	-0.89	27.77
10,458.00	0.45	338.99	10,376.22	908.69	-448.89	-884.73	1.06	-0.55	-85.51
10,542.00	0.42	315.87	10,460.22	909.22	-449.22	-885.24	0.21	-0.04	-27.52
10,592.00	0.91	261.39	10,510.22	909.29	-449.74	-885.28	1.50	0.98	-108.96
10,639.00	4.57	205.97	10,557.16	907.55	-450.93	-883.49	8.77	7.79	-117.91
10,686.00	9.35	197.55	10,603.80	902.22	-452.91	-878.07	10.37	10.17	-17.91
10,733.00	15.04	190.76	10,649.73	892.58	-455.20	-868.32	12.46	12.11	-14.45
10,780.00	17.25	181.19	10,694.88	879.62	-456.48	-855.31	7.35	4.70	-20.36
10,827.00	19.69	179.33	10,739.45	864.73	-456.53	-840.44	5.34	5.19	-3.96
10,875.00	24.34	177.69	10,783.94	846.75	-456.04	-822.51	9.77	9.69	-3.42
10,922.00	28.66	177.83	10,825.99	825.80	-455.22	-801.63	9.19	9.19	0.30
10,969.00	31.45	180.77	10,866.67	802.27	-454.96	-778.14	6.71	5.94	6.26
11,016.00	34.89	177.89	10,906.01	776.57	-454.63	-752.49	8.05	7.32	-6.13
11,063.00	38.92	175.73	10,943.59	748.40	-453.03	-724.44	9.01	8.57	-4.60
11,110.00	43.22	173.31	10,979.01	717.68	-450.06	-693.91	9.75	9.15	-5.15
11,158.00	46.96	174.12	11,012.90	683.90	-446.35	-660.36	7.88	7.79	1.69
11,205.00	51.97	175.38	11,043.43	648.34	-443.09	-625.01	10.85	10.66	2.68
11,252.00	56.40	178.23	11,070.93	610.30	-441.00	-587.12	10.63	9.43	6.06
11,299.00	62.66	179.60	11,094.76	569.82	-440.25	-546.73	13.55	13.32	2.91
11,346.00	68.62	180.52	11,114.13	527.02	-440.30	-503.99	12.81	12.68	1.96
11,393.00	74.18	181.18	11,129.12	482.50	-440.96	-459.49	11.90	11.83	1.40
11,441.00	78.69	181.86	11,140.37	435.87	-442.20	-412.86	9.50	9.40	1.42
11,535.00	87.56	182.76	11,151.62	342.71	-445.97	-319.63	9.48	9.44	0.96
11,629.00	89.58	183.46	11,153.96	248.89	-451.07	-225.67	2.27	2.15	0.74
11,688.00	90.55	183.89	11,153.89	190.01	-454.85	-166.67	1.80	1.64	0.73
11,782.00	90.22	182.71	11,153.26	96.17	-460.26	-72.68	1.30	-0.35	-1.26
11,877.00	89.93	182.34	11,153.14	1.26	-464.44	22.32	0.49	-0.31	-0.39
11,971.00	89.81	182.74	11,153.35	-92.65	-468.61	116.32	0.44	-0.13	0.43
12,066.00	90.18	182.82	11,153.36	-187.53	-473.22	211.32	0.40	0.39	0.08
12,160.00	90.04	181.65	11,153.18	-281.46	-476.88	305.31	1.25	-0.15	-1.24

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 602H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.90usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.90usft (H&P 618)
Well:	602H	North Reference:	True
Wellbore:	OH / 65678	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)
12,254.00	89.87	181.01	11,153.25	-375.43	-479.06	399.27	0.70	-0.18	-0.68
12,349.00	90.30	180.84	11,153.11	-470.42	-480.60	494.21	0.49	0.45	-0.18
12,443.00	88.90	180.36	11,153.77	-564.41	-481.58	588.13	1.57	-1.49	-0.51
12,538.00	89.22	179.87	11,155.33	-659.40	-481.77	683.01	0.62	0.34	-0.52
12,632.00	89.10	179.68	11,156.70	-753.39	-481.40	776.86	0.24	-0.13	-0.20
12,727.00	89.14	178.74	11,158.16	-848.37	-480.09	871.65	0.99	0.04	-0.99
12,821.00	88.25	178.74	11,160.30	-942.32	-478.03	965.37	0.95	-0.95	0.00
12,916.00	88.68	178.96	11,162.85	-1,037.26	-476.12	1,060.10	0.51	0.45	0.23
13,010.00	89.11	179.10	11,164.66	-1,131.23	-474.53	1,153.87	0.48	0.46	0.15
13,105.00	88.99	178.76	11,166.24	-1,226.20	-472.76	1,248.62	0.38	-0.13	-0.36
13,199.00	89.13	178.55	11,167.78	-1,320.16	-470.55	1,342.35	0.27	0.15	-0.22
13,294.00	88.85	179.14	11,169.45	-1,415.13	-468.64	1,437.10	0.69	-0.29	0.62
13,388.00	89.10	178.84	11,171.14	-1,509.10	-466.98	1,530.86	0.42	0.27	-0.32
13,483.00	88.71	177.32	11,172.95	-1,604.03	-463.80	1,625.50	1.65	-0.41	-1.60
13,577.00	88.61	177.32	11,175.15	-1,697.90	-459.40	1,719.03	0.11	-0.11	0.00
13,672.00	88.22	178.63	11,177.78	-1,792.80	-456.05	1,813.64	1.44	-0.41	1.38
13,766.00	88.62	179.28	11,180.37	-1,886.75	-454.33	1,907.38	0.81	0.43	0.69
13,861.00	89.04	180.04	11,182.31	-1,981.73	-453.77	2,002.21	0.91	0.44	0.80
13,955.00	88.58	180.90	11,184.26	-2,075.70	-454.54	2,096.10	1.04	-0.49	0.91
14,050.00	88.53	181.98	11,186.66	-2,170.64	-456.93	2,191.04	1.14	-0.05	1.14
14,144.00	88.62	181.99	11,188.99	-2,264.55	-460.18	2,285.00	0.10	0.10	0.01
14,238.00	88.30	182.09	11,191.52	-2,358.46	-463.53	2,378.95	0.36	-0.34	0.11
14,332.00	88.05	181.49	11,194.51	-2,452.37	-466.46	2,472.89	0.69	-0.27	-0.64
14,426.00	88.24	181.10	11,197.56	-2,546.29	-468.59	2,566.80	0.46	0.20	-0.41
14,521.00	88.44	180.63	11,200.31	-2,641.24	-470.02	2,661.70	0.54	0.21	-0.49
14,615.00	88.56	180.62	11,202.77	-2,735.20	-471.04	2,755.59	0.13	0.13	-0.01
14,709.00	88.39	181.08	11,205.27	-2,829.16	-472.44	2,849.50	0.52	-0.18	0.49
14,803.00	88.27	180.62	11,208.01	-2,923.11	-473.83	2,943.40	0.51	-0.13	-0.49
14,897.00	88.34	180.55	11,210.79	-3,017.06	-474.79	3,037.28	0.11	0.07	-0.07
14,992.00	88.87	180.67	11,213.10	-3,112.03	-475.80	3,132.17	0.57	0.56	0.13
15,086.00	88.19	181.00	11,215.52	-3,205.99	-477.17	3,226.08	0.80	-0.72	0.35
15,180.00	89.02	180.65	11,217.80	-3,299.95	-478.52	3,319.99	0.96	0.88	-0.37
15,274.00	89.38	180.42	11,219.12	-3,393.94	-479.40	3,413.90	0.45	0.38	-0.24
15,369.00	89.16	179.70	11,220.33	-3,488.93	-479.50	3,508.77	0.79	-0.23	-0.76
15,463.00	89.27	179.58	11,221.61	-3,582.92	-478.91	3,602.61	0.17	0.12	-0.13
15,557.00	88.96	180.01	11,223.07	-3,676.91	-478.58	3,696.46	0.56	-0.33	0.46
15,651.00	88.71	180.26	11,224.98	-3,770.89	-478.80	3,790.33	0.38	-0.27	0.27
15,745.00	90.18	180.51	11,225.89	-3,864.88	-479.43	3,884.23	1.59	1.56	0.27
15,839.00	88.98	178.96	11,226.58	-3,958.87	-478.99	3,978.08	2.09	-1.28	-1.65
15,934.00	88.87	178.77	11,228.36	-4,053.83	-477.11	4,072.83	0.23	-0.12	-0.20
16,028.00	88.68	178.23	11,230.37	-4,147.78	-474.65	4,166.53	0.61	-0.20	-0.57
16,122.00	89.11	177.85	11,232.18	-4,241.71	-471.44	4,260.17	0.61	0.46	-0.40
16,216.00	88.30	177.89	11,234.31	-4,335.62	-467.94	4,353.78	0.86	-0.86	0.04

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 602H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.90usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.90usft (H&P 618)
Well:	602H	North Reference:	True
Wellbore:	OH / 65678	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)
16,310.00	89.08	178.09	11,236.46	-4,429.53	-464.65	4,447.41	0.86	0.83	0.21
16,405.00	89.51	178.54	11,237.62	-4,524.48	-461.86	4,542.10	0.66	0.45	0.47
16,499.00	88.85	179.09	11,238.97	-4,618.45	-459.91	4,635.85	0.91	-0.70	0.59
16,593.00	90.02	179.88	11,239.90	-4,712.44	-459.07	4,729.67	1.50	1.24	0.84
16,687.00	89.56	180.16	11,240.24	-4,806.44	-459.10	4,823.55	0.57	-0.49	0.30
16,782.00	89.99	180.58	11,240.61	-4,901.44	-459.71	4,918.46	0.63	0.45	0.44
16,876.00	89.65	180.26	11,240.91	-4,995.44	-460.40	5,012.37	0.50	-0.36	-0.34
16,970.00	87.97	181.09	11,242.86	-5,089.40	-461.51	5,106.27	1.99	-1.79	0.88
17,065.00	89.30	182.43	11,245.12	-5,184.33	-464.43	5,201.22	1.99	1.40	1.41
17,159.00	91.13	181.98	11,244.77	-5,278.25	-468.04	5,295.21	2.00	1.95	-0.48
17,254.00	90.96	181.84	11,243.04	-5,373.19	-471.21	5,390.18	0.23	-0.18	-0.15
17,348.00	89.90	181.07	11,242.33	-5,467.15	-473.60	5,484.14	1.39	-1.13	-0.82
17,442.00	89.90	180.28	11,242.50	-5,561.14	-474.70	5,578.07	0.84	0.00	-0.84
17,536.00	89.10	180.47	11,243.32	-5,655.14	-475.32	5,671.97	0.87	-0.85	0.20
17,630.00	89.50	180.34	11,244.47	-5,749.13	-475.98	5,765.88	0.45	0.43	-0.14
17,725.00	89.33	179.72	11,245.44	-5,844.12	-476.03	5,860.75	0.68	-0.18	-0.65
17,819.00	89.38	178.82	11,246.49	-5,938.11	-474.83	5,954.56	0.96	0.05	-0.96
17,913.00	89.53	179.41	11,247.39	-6,032.09	-473.38	6,048.34	0.65	0.16	0.63
18,007.00	89.44	180.14	11,248.23	-6,126.09	-473.01	6,142.20	0.78	-0.10	0.78
18,101.00	89.48	180.05	11,249.12	-6,220.08	-473.17	6,236.08	0.10	0.04	-0.10
18,196.00	89.59	179.29	11,249.89	-6,315.08	-472.62	6,330.93	0.81	0.12	-0.80
18,290.00	89.53	180.09	11,250.61	-6,409.07	-472.11	6,424.77	0.85	-0.06	0.85
18,384.00	89.53	180.31	11,251.38	-6,503.07	-472.44	6,518.67	0.23	0.00	0.23
18,478.00	89.50	179.97	11,252.18	-6,597.06	-472.67	6,612.55	0.36	-0.03	-0.36
18,573.00	89.92	179.06	11,252.66	-6,692.06	-471.87	6,707.38	1.05	0.44	-0.96
18,667.00	89.98	178.98	11,252.74	-6,786.04	-470.26	6,801.17	0.11	0.06	-0.09
18,761.00	89.22	178.45	11,253.40	-6,880.02	-468.15	6,894.91	0.99	-0.81	-0.56
18,856.00	89.10	178.39	11,254.79	-6,974.97	-465.53	6,989.61	0.14	-0.13	-0.06
18,950.00	88.44	177.56	11,256.81	-7,068.89	-462.21	7,083.24	1.13	-0.70	-0.88
19,044.00	88.85	177.49	11,259.03	-7,162.77	-458.15	7,176.80	0.44	0.44	-0.07
19,138.00	88.41	177.60	11,261.28	-7,256.66	-454.13	7,270.36	0.48	-0.47	0.12
19,232.00	89.21	179.19	11,263.23	-7,350.60	-451.50	7,364.04	1.89	0.85	1.69
19,327.00	88.73	179.89	11,264.94	-7,445.58	-450.73	7,458.86	0.89	-0.51	0.74
19,421.00	88.73	180.86	11,267.02	-7,539.55	-451.35	7,552.75	1.03	0.00	1.03
19,516.00	88.73	180.73	11,269.13	-7,634.52	-452.67	7,647.66	0.14	0.00	-0.14
19,610.00	89.11	179.80	11,270.90	-7,728.50	-453.10	7,741.54	1.07	0.40	-0.99
19,704.00	88.65	179.47	11,272.74	-7,822.48	-452.50	7,835.37	0.60	-0.49	-0.35
19,798.00	89.28	179.73	11,274.44	-7,916.47	-451.85	7,929.20	0.73	0.67	0.28
19,893.00	89.18	179.65	11,275.71	-8,011.46	-451.33	8,024.04	0.13	-0.11	-0.08
19,988.00	88.87	180.44	11,277.33	-8,106.44	-451.41	8,118.90	0.89	-0.33	0.83
20,082.00	89.11	180.75	11,278.99	-8,200.42	-452.38	8,212.81	0.42	0.26	0.33
20,177.00	89.28	181.31	11,280.32	-8,295.40	-454.09	8,307.75	0.62	0.18	0.59
20,271.00	89.55	181.87	11,281.28	-8,389.35	-456.70	8,401.72	0.66	0.29	0.60

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 602H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3657.90usft (H&P 618)
Site:	Chorizo 12 State Com	MD Reference:	RKB @ 3657.90usft (H&P 618)
Well:	602H	North Reference:	True
Wellbore:	OH / 65678	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)
20,366.00	89.42	180.99	11,282.13	-8,484.32	-459.07	8,496.68	0.94	-0.14	-0.93
20,460.00	89.50	180.32	11,283.02	-8,578.31	-460.14	8,590.61	0.72	0.09	-0.71
20,554.00	89.30	180.28	11,284.00	-8,672.30	-460.64	8,684.50	0.22	-0.21	-0.04
20,649.00	89.85	181.20	11,284.71	-8,767.29	-461.86	8,779.43	1.13	0.58	0.97
20,743.00	89.48	181.07	11,285.26	-8,861.27	-463.73	8,873.39	0.42	-0.39	-0.14
20,837.00	89.51	181.38	11,286.09	-8,955.24	-465.73	8,967.34	0.33	0.03	0.33
20,932.00	89.41	181.62	11,286.98	-9,050.21	-468.22	9,062.31	0.27	-0.11	0.25
21,026.00	89.51	181.71	11,287.87	-9,144.16	-470.95	9,156.28	0.14	0.11	0.10
21,121.00	89.56	181.59	11,288.64	-9,239.12	-473.69	9,251.26	0.14	0.05	-0.13
21,215.00	89.59	181.47	11,289.34	-9,333.09	-476.20	9,345.23	0.13	0.03	-0.13
21,246.00	89.51	181.42	11,289.58	-9,364.07	-476.98	9,376.21	0.30	-0.26	-0.16
Final Phoenix MWD Survey									
21,273.00	89.51	181.42	11,289.81	-9,391.07	-477.65	9,403.20	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)	
221.00	221.00	-0.56	0.51	First Phoenix MWD Survey
21,246.00	11,289.58	-9,364.07	-476.98	Final Phoenix MWD Survey
21,273.00	11,289.81	-9,391.07	-477.65	Projection to TD