



PHOENIX
TECHNOLOGY SERVICES

Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - UTM Zone 13)
Gouda Federal Com
604H**

OH / 67825

Survey: Phoenix MWD Surveys

Standard Survey Report

15 June, 2021



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 604H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3719.80usft (H&P 313)
Site:	Gouda Federal Com	MD Reference:	RKB @ 3719.80usft (H&P 313)
Well:	604H	North Reference:	True
Wellbore:	OH / 67825	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	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	Gouda Federal Com		
Site Position:		Northing:	11,769,146.84 usft
From:	Map	Easting:	2,043,840.09 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 24' 55.754183 N
		Longitude:	103° 41' 32.275196 W
		Grid Convergence:	0.70 °

Well	604H				
Well Position	+N/-S	0.00 usft	Northing:	11,769,146.84 usft	
	+E/-W	0.00 usft	Easting:	2,043,840.09 usft	
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,694.80 usft

Wellbore	OH / 67825				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	6/26/2021	6.54	60.11	47,882.45297477

Design	Surveys (H&P 313)				
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	359.03	

Survey Program	Date	6/15/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
133.00	21,951.00	Phoenix MWD Surveys (OH / 67825)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

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	
133.00	0.86	9.88	133.00	0.98	0.17	0.98	0.65	0.65	0.00	
First Phoenix MWD Survey										
323.00	1.03	10.31	322.97	4.07	0.72	4.06	0.09	0.09	0.23	
513.00	1.22	4.69	512.93	7.76	1.19	7.74	0.12	0.10	-2.96	
608.00	0.99	13.51	607.91	9.57	1.47	9.54	0.30	-0.24	9.28	
703.00	1.13	17.73	702.90	11.26	1.94	11.23	0.17	0.15	4.44	
862.00	0.75	9.66	861.88	13.78	2.60	13.73	0.25	-0.24	-5.08	
1,052.00	1.73	181.76	1,051.86	12.14	2.72	12.09	1.30	0.52	90.58	
1,147.00	1.92	182.24	1,146.81	9.12	2.61	9.07	0.20	0.20	0.51	
1,336.00	7.30	189.66	1,335.13	-5.90	0.47	-5.90	2.86	2.85	3.93	

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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)
1,431.00	7.33	190.01	1,429.35	-17.82	-1.60	-17.79	0.06	0.03	0.37
1,526.00	7.32	186.52	1,523.58	-29.80	-3.34	-29.74	0.47	-0.01	-3.67
1,621.00	7.25	189.37	1,617.81	-41.72	-5.00	-41.63	0.39	-0.07	3.00
1,716.00	7.06	187.63	1,712.07	-53.42	-6.75	-53.30	0.30	-0.20	-1.83
1,810.00	7.00	185.00	1,805.37	-64.86	-8.02	-64.71	0.35	-0.06	-2.80
1,905.00	6.89	183.69	1,899.67	-76.31	-8.89	-76.15	0.20	-0.12	-1.38
1,999.00	6.60	181.16	1,993.02	-87.34	-9.36	-87.17	0.44	-0.31	-2.69
2,094.00	6.54	178.85	2,087.40	-98.20	-9.36	-98.03	0.29	-0.06	-2.43
2,189.00	7.53	185.59	2,181.68	-109.81	-9.86	-109.63	1.36	1.04	7.09
2,283.00	7.72	184.13	2,274.85	-122.24	-10.91	-122.03	0.29	0.20	-1.55
2,378.00	8.19	202.52	2,368.95	-134.85	-13.97	-134.60	2.71	0.49	19.36
2,472.00	8.33	203.00	2,461.98	-147.31	-19.19	-146.96	0.17	0.15	0.51
2,567.00	8.12	202.05	2,556.00	-159.86	-24.40	-159.42	0.26	-0.22	-1.00
2,756.00	7.37	202.30	2,743.27	-183.45	-34.01	-182.84	0.40	-0.40	0.13
2,850.00	6.91	194.57	2,836.55	-194.50	-37.72	-193.83	1.13	-0.49	-8.22
2,945.00	6.44	189.29	2,930.90	-205.29	-40.02	-204.58	0.81	-0.49	-5.56
3,040.00	6.19	189.20	3,025.33	-215.60	-41.70	-214.86	0.26	-0.26	-0.09
3,134.00	5.87	190.89	3,118.81	-225.32	-43.42	-224.56	0.39	-0.34	1.80
3,229.00	5.88	191.63	3,213.31	-234.86	-45.31	-234.06	0.08	0.01	0.78
3,324.00	5.56	189.09	3,307.83	-244.17	-47.02	-243.34	0.43	-0.34	-2.67
3,419.00	5.34	183.57	3,402.40	-253.13	-48.02	-252.28	0.60	-0.23	-5.81
3,514.00	4.77	182.22	3,497.03	-261.49	-48.45	-260.63	0.61	-0.60	-1.42
3,608.00	5.11	187.09	3,590.69	-269.55	-49.12	-268.67	0.57	0.36	5.18
3,703.00	6.19	189.23	3,685.22	-278.80	-50.46	-277.90	1.16	1.14	2.25
3,798.00	6.16	174.87	3,779.68	-288.93	-50.83	-288.03	1.62	-0.03	-15.12
3,988.00	8.16	172.88	3,968.19	-312.47	-48.25	-311.61	1.06	1.05	-1.05
4,177.00	8.55	176.39	4,155.18	-339.80	-45.70	-338.98	0.34	0.21	1.86
4,272.00	8.64	175.07	4,249.12	-353.96	-44.64	-353.15	0.23	0.09	-1.39
4,366.00	9.71	191.99	4,341.93	-368.75	-45.68	-367.92	3.07	1.14	18.00
4,461.00	8.85	191.65	4,435.68	-383.74	-48.82	-382.86	0.91	-0.91	-0.36
4,555.00	7.97	192.80	4,528.67	-397.18	-51.73	-396.25	0.95	-0.94	1.22
4,650.00	7.24	193.20	4,622.84	-409.43	-54.55	-408.45	0.77	-0.77	0.42
4,741.00	6.82	193.67	4,713.15	-420.26	-57.14	-419.24	0.47	-0.46	0.52
4,836.00	6.73	192.90	4,807.49	-431.17	-59.71	-430.10	0.13	-0.09	-0.81
4,930.00	7.85	193.18	4,900.73	-442.79	-62.41	-441.67	1.19	1.19	0.30
5,025.00	10.63	195.09	4,994.49	-457.57	-66.17	-456.38	2.94	2.93	2.01
5,120.00	10.84	193.16	5,087.82	-474.73	-70.48	-473.47	0.44	0.22	-2.03
5,215.00	10.75	191.67	5,181.14	-492.10	-74.31	-490.77	0.31	-0.09	-1.57
5,309.00	10.53	189.72	5,273.53	-509.15	-77.53	-507.77	0.45	-0.23	-2.07
5,404.00	10.41	187.79	5,366.94	-526.21	-80.16	-524.78	0.39	-0.13	-2.03
5,499.00	9.65	188.32	5,460.49	-542.60	-82.48	-541.12	0.81	-0.80	0.56
5,593.00	8.87	188.64	5,553.27	-557.56	-84.71	-556.04	0.83	-0.83	0.34
5,688.00	8.11	187.43	5,647.22	-571.44	-86.67	-569.89	0.82	-0.80	-1.27

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Survey										
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5,783.00	8.62	194.10	5,741.22	-584.99	-89.27	-583.40	1.15	0.54	7.02	
5,878.00	8.32	204.93	5,835.19	-598.13	-93.91	-596.46	1.71	-0.32	11.40	
5,973.00	6.41	210.87	5,929.40	-608.92	-99.53	-607.15	2.16	-2.01	6.25	
6,067.00	6.43	208.62	6,022.81	-618.04	-104.74	-616.18	0.27	0.02	-2.39	
6,162.00	6.35	207.63	6,117.22	-627.37	-109.72	-625.42	0.14	-0.08	-1.04	
6,257.00	6.42	208.59	6,211.63	-636.68	-114.70	-634.65	0.13	0.07	1.01	
6,352.00	6.25	207.51	6,306.05	-645.93	-119.63	-643.82	0.22	-0.18	-1.14	
6,447.00	4.69	206.80	6,400.61	-653.99	-123.77	-651.80	1.64	-1.64	-0.75	
6,541.00	2.99	202.04	6,494.40	-659.69	-126.42	-657.46	1.84	-1.81	-5.06	
6,635.00	2.25	191.72	6,588.30	-663.77	-127.72	-661.51	0.93	-0.79	-10.98	
6,730.00	1.42	99.30	6,683.27	-665.79	-126.94	-663.54	2.85	-0.87	-97.28	
6,825.00	1.51	104.58	6,778.24	-666.29	-124.56	-664.09	0.17	0.09	5.56	
6,920.00	1.09	122.55	6,873.21	-667.09	-122.59	-664.92	0.61	-0.44	18.92	
7,015.00	1.35	290.93	6,968.21	-667.18	-122.87	-665.00	2.56	0.27	177.24	
7,110.00	1.13	304.06	7,063.18	-666.26	-124.70	-664.05	0.38	-0.23	13.82	
7,205.00	0.87	309.90	7,158.17	-665.27	-126.02	-663.04	0.29	-0.27	6.15	
7,299.00	0.76	309.71	7,252.16	-664.41	-127.05	-662.17	0.12	-0.12	-0.20	
7,394.00	1.64	281.88	7,347.14	-663.73	-128.87	-661.45	1.09	0.93	-29.29	
7,489.00	2.85	276.09	7,442.06	-663.20	-132.55	-660.86	1.29	1.27	-6.09	
7,584.00	2.49	277.89	7,536.96	-662.67	-136.94	-660.25	0.39	-0.38	1.89	
7,678.00	2.60	274.51	7,630.87	-662.22	-141.09	-659.73	0.20	0.12	-3.60	
7,773.00	2.31	276.39	7,725.78	-661.83	-145.14	-659.28	0.32	-0.31	1.98	
7,868.00	2.02	273.89	7,820.71	-661.51	-148.71	-658.90	0.32	-0.31	-2.63	
7,962.00	0.98	288.59	7,914.68	-661.14	-151.12	-658.49	1.17	-1.11	15.64	
8,057.00	0.94	281.79	8,009.67	-660.72	-152.66	-658.04	0.13	-0.04	-7.16	
8,152.00	0.96	281.11	8,104.65	-660.41	-154.20	-657.70	0.02	0.02	-0.72	
8,247.00	0.88	274.86	8,199.64	-660.19	-155.71	-657.46	0.13	-0.08	-6.58	
8,342.00	1.06	262.08	8,294.63	-660.25	-157.31	-657.50	0.30	0.19	-13.45	
8,436.00	1.14	233.22	8,388.61	-660.93	-158.92	-658.15	0.59	0.09	-30.70	
8,531.00	1.38	233.03	8,483.59	-662.19	-160.59	-659.37	0.25	0.25	-0.20	
8,626.00	1.67	224.32	8,578.55	-663.86	-162.47	-661.02	0.39	0.31	-9.17	
8,721.00	1.90	219.58	8,673.51	-666.07	-164.44	-663.19	0.29	0.24	-4.99	
8,816.00	2.21	212.79	8,768.45	-668.82	-166.43	-665.91	0.41	0.33	-7.15	
8,911.00	2.70	209.43	8,863.36	-672.31	-168.53	-669.36	0.54	0.52	-3.54	
9,005.00	2.25	192.89	8,957.27	-676.04	-170.03	-673.06	0.89	-0.48	-17.60	
9,100.00	2.03	218.18	9,052.21	-679.18	-171.48	-676.18	1.01	-0.23	26.62	
9,195.00	2.83	214.60	9,147.12	-682.43	-173.85	-679.39	0.86	0.84	-3.77	
9,289.00	4.21	211.92	9,240.94	-687.27	-177.00	-684.18	1.48	1.47	-2.85	
9,384.00	3.11	225.62	9,335.75	-692.03	-180.68	-688.88	1.47	-1.16	14.42	
9,479.00	2.62	233.07	9,430.63	-695.14	-184.26	-691.92	0.65	-0.52	7.84	
9,574.00	2.34	241.65	9,525.54	-697.37	-187.70	-694.09	0.49	-0.29	9.03	
9,669.00	1.95	226.69	9,620.48	-699.40	-190.58	-696.07	0.71	-0.41	-15.75	
9,764.00	1.32	199.31	9,715.44	-701.54	-192.12	-698.18	1.04	-0.66	-28.82	

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9,859.00	0.48	217.18	9,810.43	-702.89	-192.72	-699.52	0.92	-0.88	18.81
9,954.00	0.65	212.28	9,905.42	-703.66	-193.25	-700.29	0.19	0.18	-5.16
10,049.00	0.81	332.16	10,000.42	-703.52	-193.85	-700.14	1.33	0.17	126.19
10,144.00	2.06	2.35	10,095.39	-701.22	-194.10	-697.83	1.49	1.32	31.78
10,239.00	1.69	24.25	10,190.34	-698.24	-193.45	-694.86	0.84	-0.39	23.05
10,334.00	1.62	42.17	10,285.30	-695.97	-191.98	-692.62	0.55	-0.07	18.86
10,429.00	1.43	62.80	10,380.26	-694.43	-190.02	-691.11	0.61	-0.20	21.72
10,524.00	0.47	100.08	10,475.25	-693.95	-188.58	-690.66	1.15	-1.01	39.24
10,618.00	0.96	129.84	10,569.24	-694.53	-187.60	-691.25	0.64	0.52	31.66
10,713.00	1.34	142.09	10,664.22	-695.91	-186.30	-692.66	0.47	0.40	12.89
10,808.00	2.48	105.14	10,759.17	-697.33	-183.64	-694.12	1.71	1.20	-38.89
10,903.00	2.55	103.37	10,854.08	-698.35	-179.60	-695.21	0.11	0.07	-1.86
10,997.00	2.19	84.77	10,948.00	-698.67	-175.77	-695.60	0.90	-0.38	-19.79
11,092.00	2.26	80.36	11,042.93	-698.19	-172.12	-695.18	0.19	0.07	-4.64
11,224.00	2.36	80.62	11,174.82	-697.31	-166.87	-694.39	0.08	0.08	0.20
11,319.00	8.65	354.35	11,269.43	-689.87	-165.64	-686.97	9.28	6.62	-90.81
11,413.00	18.29	354.52	11,360.74	-668.10	-167.75	-665.17	10.26	10.26	0.18
11,508.00	29.43	357.01	11,447.48	-629.83	-170.40	-626.86	11.77	11.73	2.62
11,603.00	41.53	358.95	11,524.70	-574.83	-172.20	-571.84	12.79	12.74	2.04
11,697.00	52.55	0.31	11,588.66	-506.15	-172.57	-503.16	11.77	11.72	1.45
11,792.00	59.54	1.12	11,641.69	-427.41	-171.57	-424.44	7.39	7.36	0.85
11,887.00	65.17	1.85	11,685.76	-343.32	-169.37	-340.40	5.97	5.93	0.77
11,981.00	74.75	1.25	11,717.93	-255.14	-167.00	-252.28	10.21	10.19	-0.64
12,076.00	80.72	0.63	11,738.10	-162.37	-165.49	-159.54	6.32	6.28	-0.65
12,170.00	90.41	0.85	11,745.36	-68.77	-164.28	-65.98	10.31	10.31	0.23
12,265.00	90.08	0.73	11,744.96	26.22	-162.97	28.98	0.37	-0.35	-0.13
12,382.00	89.42	359.28	11,745.47	143.22	-162.96	145.96	1.36	-0.56	-1.24
12,477.00	90.84	358.04	11,745.25	238.19	-165.18	240.95	1.98	1.49	-1.31
12,572.00	90.75	358.32	11,743.93	333.13	-168.19	335.93	0.31	-0.09	0.29
12,667.00	91.26	359.83	11,742.27	428.10	-169.73	430.91	1.68	0.54	1.59
12,762.00	91.09	1.42	11,740.32	523.07	-168.69	525.85	1.68	-0.18	1.67
12,857.00	91.19	359.09	11,738.43	618.05	-168.27	620.81	2.45	0.11	-2.45
12,951.00	91.47	1.14	11,736.25	712.02	-168.08	714.76	2.20	0.30	2.18
13,046.00	91.81	357.12	11,733.53	806.95	-169.52	809.70	4.24	0.36	-4.23
13,141.00	91.27	358.89	11,730.97	901.85	-172.83	904.65	1.95	-0.57	1.86
13,235.00	91.90	358.70	11,728.37	995.79	-174.80	998.61	0.70	0.67	-0.20
13,331.00	92.00	359.76	11,725.11	1,091.73	-176.09	1,094.55	1.11	0.10	1.10
13,425.00	91.77	1.17	11,722.01	1,185.67	-175.33	1,188.47	1.52	-0.24	1.50
13,520.00	90.81	0.01	11,719.88	1,280.64	-174.35	1,283.41	1.58	-1.01	-1.22
13,615.00	90.38	0.64	11,718.89	1,375.63	-173.81	1,378.38	0.80	-0.45	0.66
13,710.00	90.58	359.88	11,718.09	1,470.63	-173.38	1,473.35	0.83	0.21	-0.80
13,805.00	89.75	359.89	11,717.82	1,565.63	-173.57	1,568.34	0.87	-0.87	0.01
13,900.00	90.22	359.27	11,717.84	1,660.62	-174.27	1,663.33	0.82	0.49	-0.65
13,994.00	90.22	1.46	11,717.48	1,754.61	-173.67	1,757.30	2.33	0.00	2.33

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 604H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3719.80usft (H&P 313)
Site:	Gouda Federal Com	MD Reference:	RKB @ 3719.80usft (H&P 313)
Well:	604H	North Reference:	True
Wellbore:	OH / 67825	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	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)
14,089.00	90.93	0.78	11,716.53	1,849.59	-171.81	1,852.23	1.03	0.75	-0.72
14,184.00	90.25	2.46	11,715.55	1,944.54	-169.13	1,947.13	1.91	-0.72	1.77
14,278.00	90.19	0.46	11,715.19	2,038.51	-166.73	2,041.04	2.13	-0.06	-2.13
14,373.00	91.07	0.92	11,714.15	2,133.49	-165.59	2,135.99	1.05	0.93	0.48
14,468.00	90.19	0.48	11,713.10	2,228.48	-164.43	2,230.94	1.04	-0.93	-0.46
14,562.00	90.32	359.34	11,712.68	2,322.48	-164.58	2,324.93	1.22	0.14	-1.21
14,657.00	90.47	1.07	11,712.03	2,417.47	-164.24	2,419.90	1.83	0.16	1.82
14,752.00	90.35	359.85	11,711.35	2,512.46	-163.47	2,514.87	1.29	-0.13	-1.28
14,846.00	90.56	359.11	11,710.60	2,606.45	-164.33	2,608.86	0.82	0.22	-0.79
14,941.00	90.50	1.58	11,709.72	2,701.44	-163.76	2,703.83	2.60	-0.06	2.60
15,036.00	90.29	359.33	11,709.07	2,796.43	-163.00	2,798.79	2.38	-0.22	-2.37
15,131.00	90.07	2.90	11,708.77	2,891.40	-161.15	2,893.71	3.77	-0.23	3.76
15,226.00	90.95	1.40	11,707.92	2,986.32	-157.59	2,988.56	1.83	0.93	-1.58
15,321.00	90.29	3.19	11,706.90	3,081.24	-153.79	3,083.40	2.01	-0.69	1.88
15,415.00	90.84	359.13	11,705.97	3,175.19	-151.88	3,177.31	4.36	0.59	-4.32
15,510.00	89.88	2.03	11,705.37	3,270.17	-150.92	3,272.26	3.22	-1.01	3.05
15,604.00	90.08	5.43	11,705.40	3,363.96	-144.81	3,365.93	3.62	0.21	3.62
15,699.00	91.16	2.08	11,704.38	3,458.74	-138.59	3,460.59	3.70	1.14	-3.53
15,794.00	90.27	359.48	11,703.19	3,553.71	-137.29	3,555.53	2.89	-0.94	-2.74
15,888.00	90.52	0.22	11,702.54	3,647.71	-137.54	3,649.51	0.83	0.27	0.79
15,983.00	90.67	2.26	11,701.56	3,742.68	-135.48	3,744.43	2.15	0.16	2.15
16,078.00	90.76	359.27	11,700.37	3,837.65	-134.22	3,839.37	3.15	0.09	-3.15
16,172.00	90.05	359.86	11,699.71	3,931.64	-134.93	3,933.36	0.98	-0.76	0.63
16,267.00	90.36	0.14	11,699.37	4,026.64	-134.93	4,028.35	0.44	0.33	0.29
16,362.00	90.90	359.87	11,698.32	4,121.64	-134.92	4,123.33	0.64	0.57	-0.28
16,457.00	91.29	359.66	11,696.51	4,216.62	-135.31	4,218.30	0.47	0.41	-0.22
16,552.00	90.27	359.55	11,695.21	4,311.61	-135.97	4,313.29	1.08	-1.07	-0.12
16,647.00	90.47	358.96	11,694.60	4,406.59	-137.20	4,408.29	0.66	0.21	-0.62
16,742.00	91.56	358.65	11,692.92	4,501.56	-139.18	4,503.27	1.19	1.15	-0.33
16,837.00	90.87	358.15	11,690.90	4,596.50	-141.83	4,598.24	0.90	-0.73	-0.53
16,931.00	90.47	358.45	11,689.80	4,690.45	-144.62	4,692.23	0.53	-0.43	0.32
17,026.00	90.10	358.80	11,689.33	4,785.42	-146.90	4,787.22	0.54	-0.39	0.37
17,121.00	90.38	358.54	11,688.93	4,880.39	-149.11	4,882.22	0.40	0.29	-0.27
17,216.00	90.53	358.45	11,688.18	4,975.36	-151.60	4,977.21	0.18	0.16	-0.09
17,311.00	90.18	358.51	11,687.59	5,070.32	-154.12	5,072.21	0.37	-0.37	0.06
17,406.00	89.55	358.49	11,687.81	5,165.29	-156.61	5,167.20	0.66	-0.66	-0.02
17,501.00	90.69	359.34	11,687.61	5,260.27	-158.41	5,262.20	1.50	1.20	0.89
17,596.00	90.59	358.83	11,686.55	5,355.25	-159.92	5,357.19	0.55	-0.11	-0.54
17,691.00	90.29	358.72	11,685.82	5,450.23	-161.95	5,452.19	0.34	-0.32	-0.12
17,786.00	90.35	359.29	11,685.29	5,545.21	-163.60	5,547.19	0.60	0.06	0.60
17,881.00	90.07	359.00	11,684.94	5,640.20	-165.02	5,642.19	0.42	-0.29	-0.31
17,975.00	89.76	359.45	11,685.08	5,734.19	-166.29	5,736.18	0.58	-0.33	0.48
18,070.00	89.28	359.17	11,685.88	5,829.18	-167.44	5,831.18	0.58	-0.51	-0.29

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 604H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3719.80usft (H&P 313)
Site:	Gouda Federal Com	MD Reference:	RKB @ 3719.80usft (H&P 313)
Well:	604H	North Reference:	True
Wellbore:	OH / 67825	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	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)
18,165.00	90.96	0.36	11,685.68	5,924.17	-167.83	5,926.17	2.17	1.77	1.25
18,260.00	91.12	0.27	11,683.96	6,019.16	-167.31	6,021.13	0.19	0.17	-0.09
18,355.00	90.35	359.40	11,682.74	6,114.15	-167.58	6,116.11	1.22	-0.81	-0.92
18,449.00	89.50	359.33	11,682.86	6,208.14	-168.62	6,210.11	0.91	-0.90	-0.07
18,544.00	89.58	359.68	11,683.62	6,303.13	-169.44	6,305.10	0.38	0.08	0.37
18,639.00	89.12	359.55	11,684.70	6,398.13	-170.08	6,400.09	0.50	-0.48	-0.14
18,733.00	88.57	359.68	11,686.60	6,492.10	-170.71	6,494.06	0.60	-0.59	0.14
18,828.00	88.40	359.95	11,689.11	6,587.07	-171.02	6,589.02	0.34	-0.18	0.28
18,923.00	88.73	0.10	11,691.49	6,682.04	-170.98	6,683.98	0.38	0.35	0.16
19,017.00	88.22	359.73	11,693.99	6,776.01	-171.12	6,777.93	0.67	-0.54	-0.39
19,112.00	88.59	359.39	11,696.63	6,870.97	-171.84	6,872.89	0.53	0.39	-0.36
19,206.00	88.81	359.70	11,698.77	6,964.94	-172.59	6,966.86	0.40	0.23	0.33
19,301.00	89.18	359.72	11,700.43	7,059.92	-173.07	7,061.84	0.39	0.39	0.02
19,396.00	89.58	359.74	11,701.46	7,154.92	-173.52	7,156.83	0.42	0.42	0.02
19,491.00	89.73	359.93	11,702.03	7,249.91	-173.79	7,251.82	0.25	0.16	0.20
19,586.00	89.96	0.66	11,702.29	7,344.91	-173.30	7,346.79	0.81	0.24	0.77
19,681.00	90.93	1.12	11,701.55	7,439.90	-171.83	7,441.74	1.13	1.02	0.48
19,776.00	91.15	0.08	11,699.83	7,534.87	-170.83	7,536.69	1.12	0.23	-1.09
19,870.00	90.81	0.37	11,698.22	7,628.86	-170.46	7,630.65	0.48	-0.36	0.31
19,965.00	90.89	0.77	11,696.81	7,723.84	-169.52	7,725.61	0.43	0.08	0.42
20,060.00	90.44	0.35	11,695.71	7,818.83	-168.59	7,820.57	0.65	-0.47	-0.44
20,155.00	90.36	0.49	11,695.04	7,913.83	-167.89	7,915.54	0.17	-0.08	0.15
20,249.00	90.59	0.46	11,694.26	8,007.82	-167.12	8,009.50	0.25	0.24	-0.03
20,344.00	90.95	359.99	11,692.99	8,102.81	-166.74	8,104.47	0.62	0.38	-0.49
20,439.00	89.92	0.58	11,692.27	8,197.81	-166.27	8,199.45	1.25	-1.08	0.62
20,534.00	90.33	0.82	11,692.06	8,292.80	-165.11	8,294.40	0.50	0.43	0.25
20,628.00	91.24	359.74	11,690.77	8,386.79	-164.65	8,388.37	1.50	0.97	-1.15
20,723.00	90.52	0.71	11,689.31	8,481.77	-164.28	8,483.34	1.27	-0.76	1.02
20,818.00	90.62	359.92	11,688.37	8,576.76	-163.75	8,578.31	0.84	0.11	-0.83
20,912.00	90.04	0.21	11,687.83	8,670.76	-163.65	8,672.29	0.69	-0.62	0.31
21,007.00	90.35	0.47	11,687.50	8,765.76	-163.08	8,767.27	0.43	0.33	0.27
21,102.00	90.67	0.06	11,686.66	8,860.76	-162.64	8,862.24	0.55	0.34	-0.43
21,197.00	90.12	0.56	11,686.00	8,955.75	-162.13	8,957.21	0.78	-0.58	0.53
21,292.00	90.18	0.61	11,685.75	9,050.75	-161.16	9,052.18	0.08	0.06	0.05
21,387.00	90.01	0.28	11,685.60	9,145.74	-160.42	9,147.15	0.39	-0.18	-0.35
21,481.00	91.20	0.61	11,684.60	9,239.73	-159.69	9,241.11	1.31	1.27	0.35
21,576.00	90.30	0.83	11,683.36	9,334.72	-158.50	9,336.06	0.98	-0.95	0.23
21,671.00	90.22	0.91	11,682.93	9,429.70	-157.06	9,431.01	0.12	-0.08	0.08
21,765.00	91.32	0.91	11,681.67	9,523.68	-155.56	9,524.95	1.17	1.17	0.00
21,860.00	90.12	0.14	11,680.47	9,618.67	-154.69	9,619.91	1.50	-1.26	-0.81
21,926.00	90.47	1.00	11,680.13	9,684.66	-154.04	9,685.88	1.41	0.53	1.30
Final Phoenix MWD Survey									
21,951.00	90.47	1.00	11,679.93	9,709.66	-153.60	9,710.87	0.00	0.00	0.00
Projection to TD									

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Site:	Gouda Federal Com	MD Reference:	RKB @ 3719.80usft (H&P 313)
Well:	604H	North Reference:	True
Wellbore:	OH / 67825	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	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)

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
133.00	133.00	0.98	0.17	First Phoenix MWD Survey
21,926.00	11,680.13	9,684.66	-154.04	Final Phoenix MWD Survey
21,951.00	11,679.93	9,709.66	-153.60	Projection to TD