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TECHNOLOGY SERVICES

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Centennial Resources Development, Inc.

Lea County, NM (NAD83 - UTM Zone 13)
Carne Asada Sate Com
501H

OH / 65376

Survey: Phoenix MWD Surveys

Standard Survey Report

08 October, 2019



Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - UTM Zone 13)
Site: Came Asada Sate Com
Well: 501H
Wellbore: OH / 65376
Design: Surveys (H&P 650)

Local Co-ordinate Reference: Well 501H
TVD Reference: RKB @ 3662.30usft (H&P 650)
MD Reference: RKB @ 3662.30usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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		Came Asada Sate Com			
Site Position:		Northing:	11,767,032.87 usft	Latitude:	32.406371
From:	Map	Easting:	2,132,406.52 usft	Longitude:	-103.405399
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.85 °

Well	501H					
Well Position	+N/-S	0.00 usft	Northing:	11,767,032.87 usft	Latitude:	32.406371
	+E/-W	0.00 usft	Easting:	2,132,406.52 usft	Longitude:	-103.405399
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,635.80 usft

Wellbore	OH / 65376				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	9/15/2019	6.70	60.07	47,952.00000000

Design	Surveys (H&P 650)				
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	157.31	

Survey Program	Date 10/8/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
26.50	1,873.50	Wildfire MWD Surveys (OH / 65376)	MWD	OWSG MWD - Standard	
1,907.00	18,115.00	Phoenix MWD Surveys (OH / 65376)	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)	
1,873.50	0.60	241.72	1,873.46	-1.60	0.67	1.73	0.00	0.00	0.00	
Tie In										
1,907.00	0.49	175.74	1,906.96	-1.83	0.53	1.89	1.79	-0.33	-196.96	
First Phoenix MWD Survey										
2,001.00	0.80	156.97	2,000.95	-2.83	0.81	2.93	0.39	0.33	-19.97	
2,095.00	1.06	129.34	2,094.94	-3.99	1.74	4.35	0.54	0.28	-29.39	
2,189.00	1.18	115.14	2,188.92	-4.95	3.29	5.83	0.32	0.13	-15.11	
2,282.00	1.20	108.71	2,281.90	-5.67	5.08	7.19	0.15	0.02	-6.91	
2,376.00	1.13	105.48	2,375.88	-6.23	6.91	8.41	0.10	-0.07	-3.44	

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Site:	Came Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	501H	North Reference:	True
Wellbore:	OH / 65376	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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)
2,471.00	1.22	156.26	2,470.87	-7.41	8.22	10.00	1.06	0.09	53.45
2,565.00	1.62	179.44	2,564.84	-9.65	8.63	12.23	0.74	0.43	24.66
2,659.00	1.49	190.73	2,658.80	-12.18	8.42	14.48	0.35	-0.14	12.01
2,753.00	1.60	222.62	2,752.77	-14.35	7.30	16.05	0.91	0.12	33.93
2,847.00	1.55	232.31	2,846.74	-16.09	5.41	16.93	0.29	-0.05	10.31
2,941.00	1.48	238.34	2,940.70	-17.50	3.37	17.45	0.19	-0.07	6.41
3,035.00	1.37	244.12	3,034.67	-18.63	1.32	17.70	0.19	-0.12	6.15
3,128.00	1.01	265.81	3,127.65	-19.18	-0.50	17.50	0.61	-0.39	23.32
3,223.00	0.91	205.88	3,222.64	-19.92	-1.66	17.73	1.01	-0.11	-63.08
3,316.00	2.45	176.91	3,315.60	-22.57	-1.88	20.10	1.84	1.66	-31.15
3,410.00	3.89	175.96	3,409.46	-27.75	-1.54	25.01	1.53	1.53	-1.01
3,504.00	4.66	178.37	3,503.19	-34.75	-1.21	31.59	0.84	0.82	2.56
3,598.00	5.35	179.66	3,596.83	-42.95	-1.07	39.21	0.74	0.73	1.37
3,692.00	6.77	184.21	3,690.31	-52.86	-1.45	48.21	1.59	1.51	4.84
3,786.00	7.89	189.81	3,783.54	-64.74	-2.96	58.59	1.41	1.19	5.96
3,880.00	7.66	189.65	3,876.67	-77.28	-5.11	69.32	0.25	-0.24	-0.17
3,974.00	7.40	194.99	3,969.86	-89.30	-7.73	79.41	0.79	-0.28	5.68
4,068.00	6.73	198.18	4,063.15	-100.38	-11.01	88.36	0.83	-0.71	3.39
4,162.00	5.90	201.80	4,156.58	-110.10	-14.52	95.97	0.98	-0.88	3.85
4,256.00	5.23	205.41	4,250.14	-118.45	-18.16	102.28	0.80	-0.71	3.84
4,350.00	4.93	209.90	4,343.77	-125.83	-22.01	107.60	0.53	-0.32	4.78
4,444.00	5.30	211.31	4,437.39	-133.04	-26.28	112.60	0.42	0.39	1.50
4,538.00	5.00	210.69	4,531.01	-140.27	-30.62	117.60	0.32	-0.32	-0.66
4,632.00	5.31	219.79	4,624.63	-147.13	-35.50	122.05	0.93	0.33	9.68
4,726.00	6.27	232.21	4,718.16	-153.62	-42.34	125.40	1.67	1.02	13.21
4,821.00	6.28	233.37	4,812.59	-159.90	-50.61	128.00	0.13	0.01	1.22
4,914.00	6.32	233.41	4,905.03	-165.99	-58.80	130.45	0.04	0.04	0.04
5,009.00	6.26	232.81	4,999.46	-172.23	-67.12	133.01	0.09	-0.06	-0.63
5,102.00	5.62	233.72	5,091.96	-177.99	-74.84	135.35	0.70	-0.69	0.98
5,196.00	4.32	237.86	5,185.60	-182.60	-81.54	137.01	1.43	-1.38	4.40
5,290.00	3.72	241.97	5,279.37	-185.92	-87.23	137.87	0.71	-0.64	4.37
5,384.00	3.80	246.86	5,373.17	-188.57	-92.79	138.18	0.35	0.09	5.20
5,450.00	3.78	247.80	5,439.02	-190.26	-96.81	138.18	0.10	-0.03	1.42
5,541.00	3.99	245.99	5,529.81	-192.68	-102.48	138.23	0.27	0.23	-1.99
5,635.00	4.10	243.69	5,623.58	-195.50	-108.48	138.51	0.21	0.12	-2.45
5,730.00	2.28	205.21	5,718.44	-198.71	-112.33	140.00	2.86	-1.92	-40.51
5,824.00	1.77	196.46	5,812.38	-201.80	-113.54	142.38	0.63	-0.54	-9.31
5,918.00	1.53	128.04	5,906.35	-203.96	-112.96	144.60	1.98	-0.26	-72.79
6,012.00	1.24	94.82	6,000.32	-204.82	-110.96	146.16	0.89	-0.31	-35.34
6,106.00	1.49	64.12	6,094.30	-204.37	-108.85	146.56	0.81	0.27	-32.66
6,200.00	1.32	62.68	6,188.27	-203.34	-106.79	146.41	0.18	-0.18	-1.53
6,294.00	1.53	52.26	6,282.24	-202.08	-104.83	145.99	0.35	0.22	-11.09
6,389.00	1.51	56.91	6,377.21	-200.62	-102.78	145.44	0.13	-0.02	4.89

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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)
6,483.00	1.50	51.45	6,471.17	-199.18	-100.78	144.88	0.15	-0.01	-5.81
6,577.00	1.31	44.56	6,565.15	-197.64	-99.07	144.13	0.27	-0.20	-7.33
6,671.00	1.23	42.51	6,659.12	-196.13	-97.63	143.29	0.10	-0.09	-2.18
6,765.00	1.38	54.01	6,753.10	-194.73	-96.03	142.61	0.32	0.16	12.23
6,860.00	1.07	58.67	6,848.08	-193.59	-94.35	142.21	0.34	-0.33	4.91
6,954.00	0.58	52.41	6,942.07	-192.85	-93.22	141.95	0.53	-0.52	-6.66
7,048.00	0.79	75.35	7,036.06	-192.39	-92.22	141.92	0.36	0.22	24.40
7,143.00	0.77	102.57	7,131.05	-192.36	-90.96	142.38	0.39	-0.02	28.65
7,237.00	1.06	112.60	7,225.04	-192.84	-89.54	143.37	0.35	0.31	10.67
7,330.00	1.05	107.08	7,318.02	-193.42	-87.93	144.52	0.11	-0.01	-5.94
7,424.00	1.14	96.05	7,412.01	-193.77	-86.18	145.52	0.24	0.10	-11.73
7,518.00	1.52	100.36	7,505.98	-194.09	-84.02	146.65	0.42	0.40	4.59
7,612.00	1.65	87.94	7,599.95	-194.27	-81.45	147.81	0.39	0.14	-13.21
7,706.00	1.61	90.51	7,693.91	-194.23	-78.77	148.81	0.09	-0.04	2.73
7,800.00	2.00	90.24	7,787.86	-194.25	-75.81	149.97	0.41	0.41	-0.29
7,895.00	1.78	95.98	7,882.81	-194.41	-72.69	151.32	0.31	-0.23	6.04
7,989.00	2.17	94.48	7,976.75	-194.70	-69.46	152.83	0.42	0.41	-1.60
8,083.00	2.09	98.49	8,070.69	-195.09	-65.99	154.53	0.18	-0.09	4.27
8,177.00	2.18	90.43	8,164.62	-195.36	-62.51	156.12	0.33	0.10	-8.57
8,271.00	2.30	93.76	8,258.55	-195.50	-58.84	157.66	0.19	0.13	3.54
8,365.00	2.05	93.47	8,352.48	-195.72	-55.28	159.25	0.27	-0.27	-0.31
8,460.00	1.91	80.46	8,447.43	-195.56	-52.02	160.36	0.49	-0.15	-13.69
8,554.00	1.51	83.20	8,541.38	-195.16	-49.25	161.05	0.43	-0.43	2.91
8,648.00	1.34	76.41	8,635.36	-194.75	-46.95	161.56	0.25	-0.18	-7.22
8,742.00	0.78	55.46	8,729.34	-194.13	-45.35	161.61	0.72	-0.60	-22.29
8,836.00	0.59	245.06	8,823.34	-193.97	-45.26	161.49	1.45	-0.20	-181.28
8,930.00	0.98	289.72	8,917.33	-193.90	-46.46	160.97	0.74	0.41	47.51
9,024.00	1.35	291.63	9,011.31	-193.22	-48.25	159.66	0.40	0.39	2.03
9,118.00	1.66	287.25	9,105.28	-192.41	-50.58	158.01	0.35	0.33	-4.66
9,213.00	2.44	271.47	9,200.22	-191.95	-53.91	156.30	1.01	0.82	-16.61
9,307.00	3.18	263.23	9,294.10	-192.21	-58.50	154.76	0.89	0.79	-8.77
9,401.00	3.15	278.84	9,387.96	-192.12	-63.64	152.70	0.91	-0.03	16.61
9,495.00	2.33	273.06	9,481.85	-191.62	-68.10	150.52	0.92	-0.87	-6.15
9,589.00	2.59	274.05	9,575.77	-191.37	-72.13	148.73	0.28	0.28	1.05
9,679.00	2.40	276.40	9,665.68	-191.01	-76.03	146.90	0.24	-0.21	2.61
9,776.00	4.87	326.55	9,762.50	-187.35	-80.32	141.86	3.92	2.55	51.70
9,823.00	10.15	346.48	9,809.09	-181.66	-82.39	135.81	12.36	11.23	42.40
9,870.00	14.48	1.26	9,855.01	-171.75	-83.23	126.34	11.33	9.21	31.45
9,917.00	19.73	3.20	9,899.91	-157.94	-82.66	113.83	11.23	11.17	4.13
9,964.00	22.84	5.31	9,943.70	-140.93	-81.37	98.63	6.81	6.62	4.49
10,011.00	28.07	359.95	9,986.13	-120.78	-80.53	80.36	12.15	11.13	-11.40
10,058.00	33.24	358.00	10,026.55	-96.83	-80.99	58.09	11.20	11.00	-4.15
10,105.00	38.70	357.44	10,064.57	-69.25	-82.10	32.22	11.64	11.62	-1.19
10,152.00	43.93	357.36	10,099.86	-38.27	-83.51	3.09	11.13	11.13	-0.17

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Survey

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10,199.00	48.60	355.42	10,132.35	-4.39	-85.67	-29.00	10.37	9.94	-4.13
10,246.00	51.25	355.60	10,162.60	31.46	-88.48	-63.16	5.65	5.64	0.38
10,293.00	53.06	356.61	10,191.44	68.49	-91.00	-98.29	4.21	3.85	2.15
10,340.00	58.07	357.03	10,218.00	107.18	-93.14	-134.82	10.68	10.66	0.89
10,387.00	64.71	356.17	10,240.50	148.34	-95.60	-173.74	14.22	14.13	-1.83
10,434.00	68.06	358.98	10,259.33	191.36	-97.41	-214.12	8.99	7.13	5.98
10,481.00	69.95	358.45	10,276.17	235.23	-98.39	-254.97	4.16	4.02	-1.13
10,529.00	74.41	358.18	10,290.85	280.89	-99.74	-297.62	9.31	9.29	-0.56
10,576.00	81.31	358.91	10,300.73	326.80	-100.90	-340.43	14.76	14.68	1.55
10,623.00	86.86	358.46	10,305.57	373.52	-101.97	-383.94	11.85	11.81	-0.96
10,654.00	88.32	358.79	10,306.87	404.48	-102.72	-412.79	4.83	4.71	1.06
10,749.00	90.20	358.70	10,308.10	499.44	-104.80	-501.21	1.98	1.98	-0.09
10,843.00	91.46	357.30	10,306.74	593.37	-108.08	-589.13	2.00	1.34	-1.49
10,937.00	91.37	356.31	10,304.42	687.20	-113.31	-677.72	1.06	-0.10	-1.05
11,031.00	91.43	357.24	10,302.12	781.02	-118.60	-766.32	0.99	0.06	0.99
11,125.00	91.40	359.82	10,299.80	874.95	-121.01	-853.91	2.74	-0.03	2.74
11,220.00	91.34	0.98	10,297.53	969.92	-120.35	-941.27	1.22	-0.06	1.22
11,314.00	91.20	0.93	10,295.45	1,063.88	-118.78	-1,027.35	0.16	-0.15	-0.05
11,408.00	91.40	1.30	10,293.31	1,157.84	-116.95	-1,113.33	0.45	0.21	0.39
11,502.00	91.43	1.11	10,290.99	1,251.79	-114.98	-1,199.25	0.20	0.03	-0.20
11,596.00	91.29	1.19	10,288.76	1,345.75	-113.09	-1,285.20	0.17	-0.15	0.09
11,689.00	91.37	1.44	10,286.60	1,438.70	-110.96	-1,370.14	0.28	0.09	0.27
11,784.00	91.85	1.43	10,283.93	1,533.63	-108.58	-1,456.80	0.51	0.51	-0.01
11,879.00	91.82	1.35	10,280.89	1,628.55	-106.28	-1,543.49	0.09	-0.03	-0.08
11,973.00	91.74	1.00	10,277.97	1,722.49	-104.35	-1,629.41	0.38	-0.09	-0.37
12,068.00	91.85	1.30	10,274.99	1,817.42	-102.44	-1,716.26	0.34	0.12	0.32
12,162.00	91.82	0.56	10,271.98	1,911.36	-100.92	-1,802.34	0.79	-0.03	-0.79
12,256.00	91.87	1.04	10,268.96	2,005.30	-99.61	-1,888.50	0.51	0.05	0.51
12,350.00	91.76	1.24	10,265.98	2,099.24	-97.74	-1,974.45	0.24	-0.12	0.21
12,445.00	90.98	1.46	10,263.71	2,194.18	-95.50	-2,061.18	0.85	-0.82	0.23
12,539.00	90.90	1.62	10,262.17	2,288.14	-92.97	-2,146.88	0.19	-0.09	0.17
12,633.00	90.90	1.54	10,260.69	2,382.09	-90.38	-2,232.56	0.09	0.00	-0.09
12,727.00	90.73	1.20	10,259.35	2,476.05	-88.14	-2,318.39	0.40	-0.18	-0.36
12,821.00	90.73	0.21	10,258.16	2,570.04	-86.98	-2,404.65	1.05	0.00	-1.05
12,915.00	91.01	1.50	10,256.73	2,664.01	-85.58	-2,490.81	1.40	0.30	1.37
13,009.00	90.73	1.01	10,255.30	2,757.98	-83.52	-2,576.71	0.60	-0.30	-0.52
13,103.00	91.04	1.41	10,253.85	2,851.95	-81.53	-2,662.64	0.54	0.33	0.43
13,197.00	90.84	0.03	10,252.31	2,945.92	-80.35	-2,748.89	1.48	-0.21	-1.47
13,291.00	90.90	359.51	10,250.88	3,039.91	-80.73	-2,835.74	0.56	0.06	-0.55
13,385.00	90.90	359.05	10,249.40	3,133.89	-81.91	-2,922.91	0.49	0.00	-0.49
13,479.00	90.76	359.40	10,248.04	3,227.87	-83.18	-3,010.10	0.40	-0.15	0.37
13,573.00	90.78	359.11	10,246.78	3,321.86	-84.40	-3,097.28	0.31	0.02	-0.31
13,667.00	90.92	359.25	10,245.38	3,415.84	-85.75	-3,184.51	0.21	0.15	0.15

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 501H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3662.30usft (H&P 650)
Site:	Carne Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	501H	North Reference:	True
Wellbore:	OH / 65376	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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)
13,761.00	90.90	359.29	10,243.89	3,509.82	-86.95	-3,271.67	0.05	-0.02	0.04
13,855.00	91.06	0.00	10,242.28	3,603.80	-87.53	-3,358.61	0.77	0.17	0.76
13,949.00	91.04	359.42	10,240.56	3,697.78	-88.00	-3,445.50	0.62	-0.02	-0.62
14,043.00	90.92	359.42	10,238.95	3,791.77	-88.96	-3,532.57	0.13	-0.13	0.00
14,137.00	91.29	358.87	10,237.14	3,885.74	-90.36	-3,619.81	0.71	0.39	-0.59
14,231.00	91.57	359.01	10,234.80	3,979.69	-92.10	-3,707.16	0.33	0.30	0.15
14,325.00	91.20	359.64	10,232.52	4,073.66	-93.20	-3,794.28	0.78	-0.39	0.67
14,419.00	92.10	359.90	10,229.82	4,167.62	-93.58	-3,881.11	1.00	0.96	0.28
14,513.00	91.23	359.20	10,227.09	4,261.57	-94.32	-3,968.08	1.19	-0.93	-0.74
14,607.00	91.54	359.20	10,224.81	4,355.54	-95.63	-4,055.28	0.33	0.33	0.00
14,702.00	91.32	358.86	10,222.44	4,450.49	-97.24	-4,143.50	0.43	-0.23	-0.36
14,795.00	91.37	358.92	10,220.26	4,543.45	-99.04	-4,229.96	0.08	0.05	0.06
14,889.00	91.46	357.45	10,217.94	4,637.37	-102.02	-4,317.76	1.57	0.10	-1.56
14,983.00	90.84	356.05	10,216.05	4,731.20	-107.34	-4,406.38	1.63	-0.66	-1.49
15,077.00	91.54	357.91	10,214.10	4,825.04	-112.30	-4,494.87	2.11	0.74	1.98
15,171.00	91.62	359.10	10,211.51	4,918.97	-114.75	-4,582.48	1.27	0.09	1.27
15,266.00	91.34	1.11	10,209.05	5,013.94	-114.57	-4,670.02	2.14	-0.29	2.12
15,360.00	91.57	1.30	10,206.67	5,107.89	-112.60	-4,755.93	0.32	0.24	0.20
15,454.00	92.58	1.35	10,203.26	5,201.80	-110.42	-4,841.74	1.08	1.07	0.05
15,548.00	92.16	0.67	10,199.38	5,295.70	-108.77	-4,927.74	0.85	-0.45	-0.72
15,642.00	90.31	0.10	10,197.35	5,389.67	-108.14	-5,014.19	2.06	-1.97	-0.61
15,736.00	90.28	0.22	10,196.87	5,483.67	-107.88	-5,100.81	0.13	-0.03	0.13
15,830.00	90.59	359.62	10,196.15	5,577.67	-108.01	-5,187.58	0.72	0.33	-0.64
15,924.00	90.84	0.36	10,194.98	5,671.66	-108.02	-5,274.30	0.83	0.27	0.79
16,018.00	90.53	1.45	10,193.86	5,765.64	-106.54	-5,360.44	1.21	-0.33	1.16
16,112.00	90.48	1.75	10,193.03	5,859.60	-103.91	-5,446.11	0.32	-0.05	0.32
16,206.00	90.42	1.70	10,192.29	5,953.55	-101.08	-5,531.70	0.08	-0.06	-0.05
16,300.00	90.25	1.04	10,191.74	6,047.52	-98.84	-5,617.53	0.73	-0.18	-0.70
16,394.00	89.10	0.56	10,192.27	6,141.51	-97.52	-5,703.74	1.33	-1.22	-0.51
16,488.00	89.27	359.39	10,193.61	6,235.50	-97.57	-5,790.47	1.26	0.18	-1.24
16,583.00	89.72	359.82	10,194.45	6,330.49	-98.22	-5,878.36	0.66	0.47	0.45
16,677.00	89.36	359.97	10,195.20	6,424.49	-98.39	-5,965.15	0.41	-0.38	0.16
16,771.00	88.46	359.05	10,196.99	6,518.47	-99.20	-6,052.16	1.37	-0.96	-0.98
16,865.00	88.04	359.81	10,199.86	6,612.42	-100.13	-6,139.20	0.92	-0.45	0.81
16,959.00	88.54	0.43	10,202.67	6,706.38	-99.93	-6,225.81	0.85	0.53	0.66
17,053.00	89.89	1.93	10,203.95	6,800.34	-98.00	-6,311.75	2.15	1.44	1.60
17,147.00	90.17	1.74	10,203.90	6,894.29	-94.99	-6,397.27	0.36	0.30	-0.20
17,241.00	89.83	1.59	10,203.90	6,988.26	-92.26	-6,482.90	0.40	-0.36	-0.16
17,335.00	92.49	1.59	10,202.00	7,082.19	-89.65	-6,568.56	2.83	2.83	0.00
17,429.00	91.23	0.51	10,198.95	7,176.12	-87.93	-6,654.56	1.77	-1.34	-1.15
17,523.00	90.17	0.67	10,197.80	7,270.11	-86.96	-6,740.90	1.14	-1.13	0.17
17,618.00	90.20	1.93	10,197.49	7,365.08	-84.81	-6,827.69	1.33	0.03	1.33
17,712.00	90.08	2.12	10,197.27	7,459.02	-81.48	-6,913.08	0.24	-0.13	0.20

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 501H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3662.30usft (H&P 650)
Site:	Came Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	501H	North Reference:	True
Wellbore:	OH / 65376	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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)
17,806.00	90.20	1.68	10,197.04	7,552.97	-78.37	-6,998.55	0.49	0.13	-0.47
17,900.00	90.17	1.56	10,196.73	7,646.93	-75.71	-7,084.21	0.13	-0.03	-0.13
17,994.00	90.28	1.11	10,196.36	7,740.91	-73.52	-7,170.07	0.49	0.12	-0.48
18,073.00	90.22	1.83	10,196.02	7,819.88	-71.49	-7,242.14	0.91	-0.08	0.91
Final Phoenix MWD Survey									
18,115.00	90.22	1.83	10,195.86	7,861.86	-70.15	-7,280.36	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)	
1,873.50	1,873.46	-1.60	0.67	Tie In
1,907.00	1,906.96	-1.83	0.53	First Phoenix MWD Survey
18,073.00	10,196.02	7,819.88	-71.49	Final Phoenix MWD Survey
18,115.00	10,195.86	7,861.86	-70.15	Projection to TD

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3662.30usft (H&P 650)
Site:	Came Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH / 65377	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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		Came Asada Sate Com			
Site Position:		Northing:	11,767,032.87 usft	Latitude:	32.406371
From:	Map	Easting:	2,132,406.52 usft	Longitude:	-103.405399
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.85 °

Well	502H					
Well Position	+N/-S	0.00 usft	Northing:	11,767,033.29 usft	Latitude:	32.406371
	+E/-W	0.00 usft	Easting:	2,132,436.51 usft	Longitude:	-103.405302
Position Uncertainty	1.00 usft		Wellhead Elevation:	usft	Ground Level:	3,635.80 usft

Wellbore	OH / 65377				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	9/10/2019	6.70	60.07	47,953.00000000

Design	Surveys (H&P 650)				
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	3.85	

Survey Program	Date 9/24/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
26.50	1,853.50	Wildfire MWD Surveys (OH / 65377)	MWD	OWSG MWD - Standard	
1,929.00	17,949.00	Phoenix MWD Surveys (OH / 65377)	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)
1,853.50	0.90	278.70	1,853.38	5.29	-3.41	5.05	0.00	0.00	0.00
Tie In									
1,929.00	0.86	295.70	1,928.87	5.63	-4.51	5.31	0.35	-0.05	22.52
First Phoenix MWD Survey									
1,991.00	0.27	275.99	1,990.87	5.84	-5.07	5.49	0.99	-0.95	-31.79
2,085.00	2.44	109.32	2,084.85	5.20	-3.40	4.96	2.88	2.31	-177.31
2,179.00	4.24	105.85	2,178.68	3.59	1.83	3.71	1.93	1.91	-3.69
2,273.00	4.38	105.88	2,272.42	1.66	8.63	2.24	0.15	0.15	0.03
2,367.00	5.09	109.58	2,366.09	-0.72	16.01	0.36	0.82	0.76	3.94

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**Centennial Resources
Development, Inc.**

Lea County, NM (NAD83 - UTM Zone 13)
Carne Asada Sate Com
502H

OH / 65377

Survey: Phoenix MWD Surveys

Standard Survey Report

24 September, 2019

Survey Report

Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - UTM Zone 13)
Site: Came Asada Sate Com
Well: 502H
Wellbore: OH / 65377
Design: Surveys (H&P 650)

Local Co-ordinate Reference: Well 502H
TVD Reference: RKB @ 3662.30usft (H&P 650)
MD Reference: RKB @ 3662.30usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)
2,461.00	6.16	113.01	2,459.64	-4.09	24.58	-2.43	1.19	1.14	3.65
2,555.00	7.64	115.74	2,552.96	-8.77	34.85	-6.41	1.61	1.57	2.90
2,649.00	8.51	114.62	2,646.03	-14.38	46.80	-11.21	0.94	0.93	-1.19
2,743.00	8.46	114.72	2,739.00	-20.17	59.40	-16.14	0.06	-0.05	0.11
2,837.00	7.97	110.86	2,832.03	-25.39	71.78	-20.51	0.78	-0.52	-4.11
2,931.00	7.80	110.90	2,925.14	-29.98	83.82	-24.29	0.18	-0.18	0.04
3,025.00	8.04	109.52	3,018.25	-34.45	95.98	-27.93	0.33	0.26	-1.47
3,119.00	8.43	107.21	3,111.28	-38.69	108.76	-31.30	0.54	0.41	-2.46
3,213.00	8.05	104.72	3,204.31	-42.40	121.70	-34.13	0.55	-0.40	-2.65
3,307.00	8.17	100.96	3,297.37	-45.34	134.63	-36.20	0.58	0.13	-4.00
3,401.00	7.53	98.11	3,390.49	-47.48	147.28	-37.48	0.80	-0.68	-3.03
3,495.00	7.21	102.30	3,483.71	-49.61	159.14	-38.81	0.67	-0.34	4.46
3,589.00	6.95	111.86	3,577.00	-52.98	170.19	-41.43	1.28	-0.28	10.17
3,683.00	7.04	116.93	3,670.30	-57.71	180.60	-45.45	0.66	0.10	5.39
3,776.00	6.41	118.16	3,762.66	-62.74	190.26	-49.82	0.69	-0.68	1.32
3,870.00	5.80	118.57	3,856.12	-67.49	199.05	-53.97	0.65	-0.65	0.44
3,964.00	6.04	115.58	3,949.62	-71.89	207.69	-57.79	0.42	0.26	-3.18
4,059.00	6.01	114.75	4,044.10	-76.13	216.71	-61.41	0.10	-0.03	-0.87
4,153.00	5.87	113.71	4,137.59	-80.13	225.58	-64.80	0.19	-0.15	-1.11
4,247.00	6.61	111.93	4,231.04	-84.08	235.00	-68.11	0.81	0.79	-1.89
4,341.00	6.86	112.62	4,324.39	-88.26	245.20	-71.60	0.28	0.27	0.73
4,435.00	6.98	112.04	4,417.70	-92.56	255.68	-75.19	0.15	0.13	-0.62
4,528.00	7.13	111.11	4,510.00	-96.76	266.30	-78.66	0.20	0.16	-1.00
4,623.00	7.05	110.45	4,604.27	-100.92	277.26	-82.08	0.12	-0.08	-0.69
4,717.00	7.11	110.75	4,697.56	-105.00	288.11	-85.42	0.07	0.06	0.32
4,811.00	7.20	110.52	4,790.82	-109.12	299.07	-88.80	0.10	0.10	-0.24
4,905.00	7.60	108.98	4,884.04	-113.21	310.46	-92.11	0.47	0.43	-1.64
4,999.00	7.96	108.83	4,977.18	-117.33	322.50	-95.41	0.38	0.38	-0.16
5,093.00	8.31	108.55	5,070.23	-121.59	335.10	-98.82	0.37	0.37	-0.30
5,187.00	8.51	108.16	5,163.22	-125.92	348.15	-102.26	0.22	0.21	-0.41
5,281.00	8.59	108.45	5,256.17	-130.31	361.42	-105.75	0.10	0.09	0.31
5,375.00	7.64	110.90	5,349.23	-134.76	373.91	-109.35	1.08	-1.01	2.61
5,435.00	6.94	112.90	5,408.75	-137.60	380.98	-111.71	1.24	-1.17	3.33
5,557.00	7.02	114.52	5,529.84	-143.56	394.55	-116.74	0.17	0.07	1.33
5,652.00	7.22	113.26	5,624.11	-148.33	405.32	-120.78	0.27	0.21	-1.33
5,746.00	7.08	113.57	5,717.38	-152.98	416.05	-124.69	0.15	-0.15	0.33
5,840.00	7.08	114.91	5,810.66	-157.73	426.62	-128.73	0.18	0.00	1.43
5,934.00	7.08	114.45	5,903.95	-162.57	437.14	-132.85	0.06	0.00	-0.49
6,028.00	7.04	100.29	5,997.24	-166.00	448.09	-135.53	1.85	-0.04	-15.06
6,122.00	7.23	100.00	6,090.51	-168.05	459.58	-136.81	0.21	0.20	-0.31
6,217.00	7.27	99.56	6,184.75	-170.09	471.39	-138.05	0.07	0.04	-0.46
6,310.00	7.21	99.09	6,277.01	-171.99	482.96	-139.17	0.09	-0.06	-0.51
6,405.00	6.88	96.91	6,371.29	-173.61	494.50	-140.02	0.45	-0.35	-2.29

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3662.30usft (H&P 650)
Site:	Came Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH / 65377	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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)
6,499.00	6.33	109.51	6,464.67	-176.02	504.97	-141.72	1.64	-0.59	13.40
6,593.00	6.30	116.10	6,558.11	-180.02	514.49	-145.07	0.77	-0.03	7.01
6,688.00	5.50	120.66	6,652.60	-184.64	523.08	-149.10	0.98	-0.84	4.80
6,782.00	3.91	115.23	6,746.28	-188.30	529.86	-152.30	1.75	-1.69	-5.78
6,876.00	2.29	115.93	6,840.14	-190.49	534.45	-154.17	1.72	-1.72	0.74
6,970.00	0.69	136.22	6,934.11	-191.72	536.53	-155.26	1.77	-1.70	21.59
7,065.00	0.46	152.75	7,029.10	-192.47	537.10	-155.97	0.30	-0.24	17.40
7,159.00	0.49	130.34	7,123.10	-193.07	537.58	-156.53	0.20	0.03	-23.84
7,253.00	0.38	137.31	7,217.10	-193.55	538.09	-156.99	0.13	-0.12	7.41
7,347.00	0.34	179.05	7,311.10	-194.06	538.31	-157.48	0.28	-0.04	44.40
7,441.00	0.16	172.93	7,405.09	-194.47	538.33	-157.89	0.19	-0.19	-6.51
7,535.00	0.38	114.13	7,499.09	-194.73	538.63	-158.12	0.35	0.23	-62.55
7,629.00	0.23	95.05	7,593.09	-194.87	539.10	-158.24	0.19	-0.16	-20.30
7,723.00	0.46	118.89	7,687.09	-195.07	539.62	-158.40	0.28	0.24	25.36
7,817.00	0.38	107.62	7,781.09	-195.35	540.25	-158.63	0.12	-0.09	-11.99
7,911.00	0.65	107.51	7,875.08	-195.60	541.06	-158.83	0.29	0.29	-0.12
8,005.00	0.89	85.40	7,969.08	-195.71	542.29	-158.85	0.40	0.26	-23.52
8,099.00	0.95	97.31	8,063.06	-195.75	543.79	-158.79	0.21	0.06	12.67
8,193.00	1.16	84.62	8,157.05	-195.76	545.51	-158.69	0.33	0.22	-13.50
8,287.00	0.97	66.41	8,251.03	-195.35	547.19	-158.17	0.41	-0.20	-19.37
8,382.00	1.11	328.97	8,346.02	-194.24	547.45	-157.04	1.65	0.15	-102.57
8,476.00	1.29	319.57	8,440.00	-192.65	546.30	-155.54	0.28	0.19	-10.00
8,570.00	1.27	328.31	8,533.98	-190.96	545.06	-153.93	0.21	-0.02	9.30
8,665.00	1.19	334.45	8,628.96	-189.18	544.08	-152.22	0.16	-0.08	6.46
8,759.00	1.04	356.79	8,722.94	-187.44	543.62	-150.52	0.49	-0.16	23.77
8,853.00	1.04	8.70	8,816.92	-185.75	543.70	-148.82	0.23	0.00	12.67
8,947.00	0.77	20.19	8,910.91	-184.31	544.04	-147.37	0.34	-0.29	12.22
9,041.00	0.69	69.75	9,004.90	-183.52	544.79	-146.53	0.66	-0.09	52.72
9,135.00	0.48	32.47	9,098.90	-182.99	545.53	-145.95	0.45	-0.22	-39.66
9,229.00	0.42	332.00	9,192.90	-182.36	545.58	-145.31	0.49	-0.06	-64.33
9,323.00	0.47	321.88	9,286.89	-181.75	545.18	-144.73	0.10	0.05	-10.77
9,417.00	0.78	250.39	9,380.89	-181.66	544.34	-144.70	0.82	0.33	-76.05
9,500.00	0.99	210.46	9,463.88	-182.47	543.45	-145.57	0.77	0.25	-48.11
9,547.00	0.55	250.80	9,510.88	-182.89	543.03	-146.02	1.43	-0.94	85.83
9,594.00	3.37	348.41	9,557.85	-181.61	542.54	-144.78	7.42	6.00	207.68
9,641.00	8.36	356.59	9,604.59	-176.85	542.06	-140.05	10.74	10.62	17.40
9,688.00	12.83	0.76	9,650.78	-168.21	541.92	-131.45	9.64	9.51	8.87
9,735.00	15.92	8.94	9,696.31	-156.63	542.99	-119.81	7.85	6.57	17.40
9,782.00	18.06	11.50	9,741.25	-143.12	545.45	-106.17	4.82	4.55	5.45
9,829.00	22.14	8.10	9,785.38	-127.20	548.15	-90.11	9.03	8.68	-7.23
9,876.00	26.60	3.74	9,828.19	-107.92	550.09	-70.74	10.23	9.49	-9.28
9,923.00	32.11	0.85	9,869.14	-84.91	550.96	-47.73	12.10	11.72	-6.15
9,970.00	36.78	359.31	9,907.89	-58.34	550.97	-21.21	10.11	9.94	-3.28
10,017.00	43.72	358.48	9,943.74	-28.00	550.37	9.02	14.81	14.77	-1.77

Survey Report

Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - UTM Zone 13)
Site: Carne Asada Sate Com
Well: 502H
Wellbore: OH / 65377
Design: Surveys (H&P 650)

Local Co-ordinate Reference: Well 502H
TVD Reference: RKB @ 3662.30usft (H&P 650)
MD Reference: RKB @ 3662.30usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)
10,064.00	50.10	358.07	9,975.83	6.29	549.33	43.16	13.59	13.57	-0.87
10,111.00	56.31	357.40	10,003.97	43.88	547.84	80.57	13.26	13.21	-1.43
10,158.00	61.42	356.34	10,028.26	84.04	545.63	120.48	11.04	10.87	-2.26
10,205.00	65.10	358.49	10,049.41	125.96	543.75	162.18	8.83	7.83	4.57
10,252.00	70.23	359.13	10,067.26	169.41	542.86	205.47	10.99	10.91	1.36
10,299.00	76.50	1.04	10,080.71	214.41	542.93	250.39	13.90	13.34	4.06
10,346.00	81.47	0.97	10,089.69	260.53	543.74	296.45	10.58	10.57	-0.15
10,393.00	87.13	0.26	10,094.35	307.27	544.24	343.12	12.14	12.04	-1.51
10,440.00	89.82	0.51	10,095.60	354.25	544.56	390.02	5.75	5.72	0.53
10,472.00	90.38	0.54	10,095.55	386.25	544.85	421.96	1.75	1.75	0.09
10,560.00	90.42	358.49	10,094.93	474.24	544.11	509.70	2.33	0.05	-2.33
10,654.00	90.53	357.69	10,094.16	568.18	540.97	603.22	0.86	0.12	-0.85
10,749.00	90.84	358.98	10,093.02	663.13	538.21	697.78	1.40	0.33	1.36
10,843.00	90.81	358.11	10,091.67	757.09	535.83	791.36	0.93	-0.03	-0.93
10,937.00	90.87	359.15	10,090.29	851.06	533.58	884.96	1.11	0.06	1.11
11,031.00	90.70	358.32	10,089.00	945.02	531.51	978.58	0.90	-0.18	-0.88
11,125.00	90.73	357.97	10,087.83	1,038.97	528.46	1,072.10	0.37	0.03	-0.37
11,220.00	90.87	0.14	10,086.50	1,133.94	526.90	1,166.76	2.29	0.15	2.28
11,314.00	90.87	358.53	10,085.07	1,227.92	525.81	1,260.45	1.71	0.00	-1.71
11,408.00	90.67	357.68	10,083.81	1,321.86	522.70	1,353.97	0.93	-0.21	-0.90
11,502.00	91.34	358.59	10,082.16	1,415.79	519.64	1,447.49	1.20	0.71	0.97
11,596.00	92.52	0.36	10,079.00	1,509.73	518.78	1,541.15	2.26	1.26	1.88
11,690.00	92.38	359.21	10,074.98	1,603.64	518.43	1,634.83	1.23	-0.15	-1.22
11,784.00	92.32	0.03	10,071.12	1,697.56	517.80	1,728.49	0.87	-0.06	0.87
11,879.00	92.27	0.95	10,067.32	1,792.48	518.61	1,823.25	0.97	-0.05	0.97
11,973.00	92.41	1.59	10,063.48	1,886.38	520.70	1,917.08	0.70	0.15	0.68
12,068.00	92.30	359.98	10,059.58	1,981.28	522.00	2,011.86	1.70	-0.12	-1.69
12,162.00	92.18	359.95	10,055.90	2,075.21	521.94	2,105.57	0.13	-0.13	-0.03
12,256.00	91.90	1.39	10,052.56	2,169.14	523.04	2,199.37	1.56	-0.30	1.53
12,350.00	91.79	0.51	10,049.53	2,263.08	524.59	2,293.20	0.94	-0.12	-0.94
12,445.00	91.57	0.45	10,046.74	2,358.04	525.39	2,387.99	0.24	-0.23	-0.06
12,539.00	91.60	0.57	10,044.14	2,452.00	526.23	2,481.80	0.13	0.03	0.13
12,633.00	91.74	359.61	10,041.40	2,545.96	526.37	2,575.55	1.03	0.15	-1.02
12,727.00	91.57	359.83	10,038.69	2,639.91	525.92	2,669.27	0.30	-0.18	0.23
12,821.00	91.74	359.55	10,035.97	2,733.87	525.41	2,762.98	0.35	0.18	-0.30
12,915.00	91.23	0.00	10,033.54	2,827.84	525.04	2,856.71	0.72	-0.54	0.48
13,009.00	91.20	1.57	10,031.55	2,921.81	526.33	2,950.55	1.67	-0.03	1.67
13,103.00	90.70	1.15	10,029.99	3,015.77	528.56	3,044.45	0.69	-0.53	-0.45
13,197.00	90.73	0.46	10,028.81	3,109.75	529.88	3,138.31	0.73	0.03	-0.73
13,291.00	90.67	0.15	10,027.67	3,203.74	530.38	3,232.12	0.34	-0.06	-0.33
13,385.00	90.56	1.47	10,026.66	3,297.73	531.71	3,325.98	1.41	-0.12	1.40
13,479.00	90.98	0.88	10,025.39	3,391.70	533.63	3,419.87	0.77	0.45	-0.63
13,573.00	90.76	1.03	10,023.97	3,485.67	535.20	3,513.74	0.28	-0.23	0.16

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3662.30usft (H&P 650)
Site:	Came Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH / 65377	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
13,667.00	90.70	0.68	10,022.77	3,579.65	536.60	3,607.61	0.38	-0.06	-0.37
13,761.00	90.64	1.52	10,021.67	3,673.63	538.41	3,701.49	0.90	-0.06	0.89
13,855.00	90.64	0.64	10,020.62	3,767.61	540.18	3,795.37	0.94	0.00	-0.94
13,949.00	90.67	2.04	10,019.54	3,861.57	542.38	3,889.28	1.49	0.03	1.49
14,043.00	90.76	0.24	10,018.37	3,955.54	544.25	3,983.16	1.92	0.10	-1.91
14,138.00	90.53	0.26	10,017.30	4,050.54	544.66	4,077.97	0.24	-0.24	0.02
14,231.00	90.31	358.28	10,016.62	4,143.52	543.48	4,170.66	2.14	-0.24	-2.13
14,325.00	90.45	0.33	10,016.00	4,237.51	542.34	4,264.36	2.19	0.15	2.18
14,420.00	90.36	358.38	10,015.33	4,332.49	541.27	4,359.06	2.05	-0.09	-2.05
14,514.00	90.59	0.81	10,014.55	4,426.48	540.60	4,452.79	2.60	0.24	2.59
14,608.00	90.98	359.99	10,013.26	4,520.47	541.26	4,546.61	0.97	0.41	-0.87
14,702.00	90.39	358.02	10,012.13	4,614.44	539.63	4,640.26	2.19	-0.63	-2.10
14,795.00	90.45	357.38	10,011.45	4,707.37	535.89	4,732.72	0.69	0.06	-0.69
14,889.00	90.64	359.79	10,010.56	4,801.33	533.57	4,826.32	2.57	0.20	2.56
14,984.00	90.50	0.20	10,009.61	4,896.32	533.56	4,921.10	0.46	-0.15	0.43
15,077.00	90.28	357.38	10,008.98	4,989.29	531.60	5,013.72	3.04	-0.24	-3.03
15,171.00	90.28	356.66	10,008.52	5,083.16	526.71	5,107.05	0.77	0.00	-0.77
15,266.00	90.64	359.48	10,007.76	5,178.09	523.52	5,201.56	2.99	0.38	2.97
15,360.00	90.50	358.17	10,006.82	5,272.07	521.59	5,295.19	1.40	-0.15	-1.39
15,454.00	90.28	0.56	10,006.18	5,366.05	520.55	5,388.89	2.55	-0.23	2.54
15,548.00	90.42	359.57	10,005.61	5,460.05	520.65	5,482.69	1.06	0.15	-1.05
15,642.00	90.34	358.30	10,004.98	5,554.03	518.91	5,576.34	1.35	-0.09	-1.35
15,736.00	90.03	359.90	10,004.68	5,648.01	517.43	5,670.01	1.73	-0.33	1.70
15,830.00	90.34	358.92	10,004.38	5,742.01	516.46	5,763.73	1.09	0.33	-1.04
15,924.00	90.03	0.49	10,004.07	5,836.00	515.98	5,857.48	1.70	-0.33	1.67
16,018.00	90.53	0.20	10,003.61	5,930.00	516.54	5,951.30	0.61	0.53	-0.31
16,112.00	90.22	0.96	10,003.00	6,023.99	517.49	6,045.14	0.87	-0.33	0.81
16,206.00	90.73	0.65	10,002.22	6,117.98	518.82	6,139.01	0.63	0.54	-0.33
16,300.00	89.24	0.88	10,002.25	6,211.97	520.07	6,232.87	1.60	-1.59	0.24
16,394.00	88.99	0.17	10,003.70	6,305.95	520.93	6,326.70	0.80	-0.27	-0.76
16,488.00	88.91	359.41	10,005.42	6,399.93	520.59	6,420.45	0.81	-0.09	-0.81
16,583.00	88.94	358.98	10,007.20	6,494.91	519.25	6,515.11	0.45	0.03	-0.45
16,677.00	88.85	359.43	10,009.01	6,588.88	517.95	6,608.79	0.49	-0.10	0.48
16,771.00	88.94	359.13	10,010.83	6,682.86	516.77	6,702.47	0.33	0.10	-0.32
16,865.00	88.88	1.20	10,012.62	6,776.83	517.04	6,796.26	2.20	-0.06	2.20
16,959.00	89.24	1.82	10,014.16	6,870.79	519.52	6,890.16	0.76	0.38	0.66
17,053.00	88.82	1.28	10,015.75	6,964.74	522.06	6,984.07	0.73	-0.45	-0.57
17,147.00	88.88	0.63	10,017.64	7,058.71	523.62	7,077.93	0.69	0.06	-0.69
17,241.00	88.57	0.02	10,019.73	7,152.68	524.16	7,171.73	0.73	-0.33	-0.65
17,335.00	89.19	0.08	10,021.56	7,246.66	524.24	7,265.51	0.66	0.66	0.06
17,429.00	89.16	0.15	10,022.92	7,340.65	524.43	7,359.30	0.08	-0.03	0.07
17,523.00	89.52	358.67	10,024.00	7,434.64	523.46	7,453.01	1.62	0.38	-1.57
17,618.00	89.64	359.41	10,024.70	7,529.62	521.87	7,547.67	0.79	0.13	0.78

Survey Report

Company: Centennial Resources Development, Inc.	Local Co-ordinate Reference: Well 502H
Project: Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference: RKB @ 3662.30usft (H&P 650)
Site: Came Asada Sate Com	MD Reference: RKB @ 3662.30usft (H&P 650)
Well: 502H	North Reference: True
Wellbore: OH / 65377	Survey Calculation Method: Minimum Curvature
Design: Surveys (H&P 650)	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)
17,712.00	88.35	1.14	10,026.35	7,623.60	522.32	7,641.47	2.30	-1.37	1.84
17,806.00	90.00	1.10	10,027.70	7,717.57	524.16	7,735.35	1.76	1.76	-0.04
17,900.00	89.82	359.87	10,027.85	7,811.56	524.95	7,829.18	1.32	-0.19	-1.31
17,907.00	89.82	359.87	10,027.87	7,818.56	524.94	7,836.17	0.00	0.00	0.00
Final Phoenix MWD Survey									
17,949.00	89.82	359.87	10,028.00	7,860.56	524.84	7,878.06	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)	
1,853.50	1,853.38	5.29	-3.41	Tie In
1,929.00	1,928.87	5.63	-4.51	First Phoenix MWD Survey
17,907.00	10,027.87	7,818.56	524.94	Final Phoenix MWD Survey
17,949.00	10,028.00	7,860.56	524.84	Projection to TD