



PHOENIX
TECHNOLOGY SERVICES

Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - NME)
Airstream 24 State Com
506H**

OH / 65152

Survey: Phoenix MWD Surveys

**HOBBS CCD
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Standard Survey Report

13 September, 2019



Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - NME)
Site: Airstream 24 State Com
Well: 506H
Wellbore: OH / 65152
Design: Surveys (H&P 618)

Local Co-ordinate Reference: Well 506H
TVD Reference: RKB @ 3549.60usft (H&P 618)
MD Reference: RKB @ 3549.60usft (H&P 618)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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

Site	Airstream 24 State Com				
Site Position:		Northing:	505,402.74 usft	Latitude:	32° 23' 9.946151 N
From:	Map	Easting:	823,950.92 usft	Longitude:	103° 25' 4.085155 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	506H					
Well Position	+N/-S	0.00 usft	Northing:	505,402.95 usft	Latitude:	32° 23' 9.945689 N
	+E/-W	0.00 usft	Easting:	823,980.91 usft	Longitude:	103° 25' 3.735421 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,524.60 usft

Wellbore	OH / 65152				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/12/2019	6.65	60.10	48,014.11133728

Design	Surveys (H&P 618)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	1,779.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	177.67	

Survey Program	Date 9/13/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
180.00	1,779.00	Fabtech MWD Surveys (OH / Surface)	MWD	OWSG MWD - Standard	
1,913.00	20,950.00	Phoenix MWD Surveys (OH / 65152)	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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
1,779.00	0.40	83.79	1,778.95	-0.40	4.65	0.59	0.00	0.00	0.00
Tie In									
1,913.00	0.25	39.31	1,912.95	-0.12	5.30	0.34	0.21	-0.11	-33.19
First Phoenix MWD Survey									
2,008.00	0.83	92.36	2,007.95	0.01	6.12	0.24	0.75	0.61	55.84
2,103.00	2.20	93.82	2,102.91	-0.14	8.63	0.49	1.44	1.44	1.54
2,197.00	3.13	102.32	2,196.81	-0.81	12.94	1.33	1.07	0.99	9.04
2,292.00	3.85	106.16	2,291.63	-2.25	18.53	3.00	0.80	0.76	4.04
2,386.00	4.52	109.19	2,385.38	-4.34	25.06	5.36	0.75	0.71	3.22

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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)
2,481.00	5.12	113.31	2,480.04	-7.25	32.49	8.57	0.73	0.63	4.34
2,575.00	6.41	115.39	2,573.57	-11.16	41.08	12.82	1.39	1.37	2.21
2,670.00	5.86	116.56	2,668.02	-15.60	50.21	17.63	0.59	-0.58	1.23
2,764.00	5.64	117.22	2,761.55	-19.86	58.61	22.23	0.24	-0.23	0.70
2,859.00	6.06	114.43	2,856.06	-24.07	67.33	26.79	0.53	0.44	-2.94
2,953.00	7.17	112.59	2,949.43	-28.38	77.26	31.49	1.20	1.18	-1.96
3,048.00	6.99	112.82	3,043.70	-32.90	88.07	36.45	0.19	-0.19	0.24
3,142.00	7.54	114.97	3,136.95	-37.72	98.93	41.71	0.65	0.59	2.29
3,237.00	8.60	116.05	3,231.01	-43.47	110.96	47.94	1.13	1.12	1.14
3,331.00	8.42	113.31	3,323.97	-49.28	123.59	54.26	0.47	-0.19	-2.91
3,426.00	8.50	114.02	3,417.94	-54.89	136.40	60.39	0.14	0.08	0.75
3,520.00	9.26	118.39	3,510.81	-61.31	149.39	67.34	1.08	0.81	4.65
3,615.00	8.99	115.87	3,604.61	-68.19	162.80	74.75	0.51	-0.28	-2.65
3,709.00	8.78	120.19	3,697.48	-75.00	175.61	82.08	0.74	-0.22	4.60
3,803.00	9.61	135.54	3,790.29	-84.21	187.31	91.75	2.75	0.88	16.33
3,897.00	9.20	133.15	3,883.03	-94.95	198.28	102.93	0.60	-0.44	-2.54
3,991.00	8.54	133.45	3,975.90	-104.89	208.83	113.29	0.70	-0.70	0.32
4,086.00	7.98	131.92	4,069.91	-114.14	218.86	122.95	0.63	-0.59	-1.61
4,181.00	7.52	132.14	4,164.05	-122.72	228.38	131.90	0.49	-0.48	0.23
4,275.00	7.06	132.57	4,257.29	-130.75	237.19	140.29	0.49	-0.49	0.46
4,369.00	6.41	132.85	4,350.64	-138.23	245.29	148.09	0.69	-0.69	0.30
4,464.00	5.72	134.69	4,445.11	-145.17	252.55	155.31	0.75	-0.73	1.94
4,558.00	5.10	134.68	4,538.69	-151.40	258.85	161.80	0.66	-0.66	-0.01
4,652.00	4.93	120.02	4,632.33	-156.36	265.32	167.01	1.37	-0.18	-15.60
4,747.00	5.57	117.44	4,726.93	-160.52	272.94	171.49	0.72	0.67	-2.72
4,841.00	6.24	119.70	4,820.43	-165.16	281.43	176.46	0.75	0.71	2.40
4,936.00	5.90	120.60	4,914.90	-170.20	290.12	181.86	0.37	-0.36	0.95
5,030.00	5.66	122.10	5,008.42	-175.12	298.20	187.10	0.30	-0.26	1.60
5,124.00	5.32	121.06	5,101.99	-179.84	305.86	192.12	0.38	-0.36	-1.11
5,219.00	5.19	121.37	5,196.59	-184.34	313.30	196.93	0.14	-0.14	0.33
5,313.00	4.89	124.06	5,290.23	-188.80	320.25	201.67	0.41	-0.32	2.86
5,408.00	4.49	127.47	5,384.91	-193.33	326.56	206.45	0.51	-0.42	3.59
5,502.00	4.18	127.28	5,478.64	-197.64	332.20	210.99	0.33	-0.33	-0.20
5,588.00	3.67	129.04	5,564.44	-201.28	336.84	214.80	0.61	-0.59	2.05
5,754.00	4.98	133.04	5,729.96	-209.54	346.23	223.44	0.81	0.79	2.41
5,849.00	6.35	134.54	5,824.50	-216.04	352.99	230.21	1.45	1.44	1.58
5,943.00	7.35	130.74	5,917.82	-223.61	361.25	238.11	1.17	1.06	-4.04
6,038.00	8.61	125.66	6,011.90	-231.72	371.63	246.64	1.52	1.33	-5.35
6,133.00	8.44	125.12	6,105.85	-239.88	383.11	255.26	0.20	-0.18	-0.57
6,227.00	8.69	124.01	6,198.81	-247.82	394.64	263.66	0.32	0.27	-1.18
6,321.00	8.78	123.63	6,291.72	-255.77	406.50	272.08	0.11	0.10	-0.40
6,416.00	9.17	122.97	6,385.55	-263.90	418.89	280.71	0.42	0.41	-0.69
6,510.00	7.90	118.83	6,478.51	-271.09	430.83	288.38	1.50	-1.35	-4.40

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6,605.00	6.14	115.84	6,572.79	-276.45	441.12	294.16	1.89	-1.85	-3.15
6,699.00	5.79	111.33	6,666.29	-280.37	450.06	298.44	0.62	-0.37	-4.80
6,794.00	4.31	109.99	6,760.91	-283.33	457.88	301.71	1.56	-1.56	-1.41
6,888.00	3.96	109.75	6,854.67	-285.64	464.26	304.28	0.37	-0.37	-0.26
6,983.00	2.75	108.98	6,949.51	-287.49	469.50	306.34	1.27	-1.27	-0.81
7,077.00	1.76	109.44	7,043.43	-288.70	472.99	307.69	1.05	-1.05	0.49
7,171.00	1.77	117.23	7,137.39	-289.85	475.65	308.94	0.26	0.01	8.29
7,266.00	1.99	117.47	7,232.34	-291.28	478.41	310.49	0.23	0.23	0.25
7,360.00	2.12	114.98	7,326.28	-292.77	481.44	312.10	0.17	0.14	-2.65
7,455.00	1.47	109.79	7,421.23	-293.92	484.18	313.36	0.70	-0.68	-5.46
7,549.00	1.27	125.35	7,515.20	-294.93	486.16	314.45	0.45	-0.21	16.55
7,643.00	1.01	125.70	7,609.18	-296.02	487.68	315.60	0.28	-0.28	0.37
7,738.00	0.85	114.59	7,704.17	-296.80	489.01	316.43	0.25	-0.17	-11.69
7,832.00	0.92	103.63	7,798.16	-297.27	490.37	316.96	0.19	0.07	-11.66
7,927.00	0.74	76.67	7,893.15	-297.31	491.71	317.05	0.45	-0.19	-28.38
8,021.00	0.63	60.24	7,987.14	-296.91	492.75	316.70	0.24	-0.12	-17.48
8,116.00	0.92	22.82	8,082.13	-295.95	493.50	315.77	0.60	0.31	-39.39
8,210.00	0.93	355.40	8,176.12	-294.49	493.73	314.32	0.47	0.01	-29.17
8,304.00	1.32	331.67	8,270.11	-292.78	493.16	312.58	0.64	0.41	-25.24
8,398.00	1.74	327.93	8,364.07	-290.62	491.88	310.37	0.46	0.45	-3.98
8,492.00	1.85	321.08	8,458.03	-288.23	490.17	307.91	0.26	0.12	-7.29
8,587.00	1.77	320.90	8,552.98	-285.89	488.28	305.51	0.08	-0.08	-0.19
8,681.00	2.02	319.05	8,646.93	-283.52	486.28	303.05	0.27	0.27	-1.97
8,776.00	3.04	311.80	8,741.83	-280.57	483.31	299.99	1.12	1.07	-7.63
8,870.00	2.62	285.00	8,835.72	-278.35	479.37	297.61	1.46	-0.45	-28.51
8,965.00	2.44	266.30	8,930.63	-277.92	475.26	297.01	0.89	-0.19	-19.68
9,059.00	2.56	274.70	9,024.54	-277.88	471.17	296.81	0.41	0.13	8.94
9,154.00	2.29	252.49	9,119.46	-278.28	467.25	297.04	1.02	-0.28	-23.38
9,248.00	2.44	228.50	9,213.38	-280.17	463.96	298.80	1.06	0.16	-25.52
9,342.00	2.97	234.04	9,307.28	-282.92	460.49	301.41	0.63	0.56	5.89
9,437.00	2.14	228.53	9,402.18	-285.54	457.16	303.89	0.91	-0.87	-5.80
9,531.00	1.57	201.02	9,496.13	-287.91	455.39	306.18	1.11	-0.61	-29.27
9,626.00	1.25	210.63	9,591.10	-290.01	454.39	308.25	0.42	-0.34	10.12
9,720.00	1.02	221.66	9,685.09	-291.52	453.31	309.71	0.34	-0.24	11.73
9,764.00	1.06	220.89	9,729.08	-292.12	452.79	310.29	0.10	0.09	-1.75
9,864.00	5.53	174.84	9,828.90	-297.62	452.62	315.78	4.85	4.47	-46.05
9,911.00	10.90	167.54	9,875.40	-304.22	453.78	322.42	11.62	11.43	-15.53
9,958.00	13.72	162.17	9,921.32	-313.87	456.44	332.17	6.47	6.00	-11.43
10,005.00	18.34	163.84	9,966.48	-326.29	460.21	344.73	9.88	9.83	3.55
10,052.00	21.89	167.96	10,010.60	-341.96	464.10	360.55	8.13	7.55	8.77
10,099.00	26.39	168.18	10,053.48	-360.76	468.07	379.50	9.58	9.57	0.47
10,147.00	29.98	169.23	10,095.79	-382.99	472.50	401.89	7.55	7.48	2.19
10,194.00	36.15	169.71	10,135.15	-408.19	477.17	427.26	13.14	13.13	1.02
10,241.00	41.35	169.79	10,171.80	-437.13	482.40	456.38	11.06	11.06	0.17

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10,288.00	48.62	170.42	10,205.02	-469.84	488.10	489.30	15.50	15.47	1.34
10,336.00	53.20	172.67	10,235.28	-506.68	493.55	526.33	10.21	9.54	4.69
10,383.00	58.34	177.42	10,261.72	-545.37	496.85	565.12	13.76	10.94	10.11
10,431.00	63.20	180.93	10,285.15	-587.23	497.43	606.97	11.97	10.13	7.31
10,462.00	67.84	182.00	10,298.00	-615.43	496.70	635.11	15.29	14.97	3.45
10,494.00	69.88	181.97	10,309.54	-645.26	495.67	664.87	6.38	6.38	-0.09
10,525.00	70.18	181.97	10,320.12	-674.38	494.66	693.93	0.97	0.97	0.00
10,557.00	70.95	181.99	10,330.77	-704.53	493.62	724.02	2.41	2.41	0.06
10,588.00	71.97	181.62	10,340.63	-733.91	492.70	753.33	3.48	3.29	-1.19
10,620.00	71.82	181.48	10,350.57	-764.31	491.87	783.68	0.63	-0.47	-0.44
10,652.00	71.03	181.44	10,360.77	-794.64	491.10	813.95	2.47	-2.47	-0.13
10,683.00	73.33	180.93	10,370.25	-824.14	490.49	843.40	7.58	7.42	-1.65
10,715.00	77.46	181.00	10,378.32	-855.10	489.97	874.31	12.91	12.91	0.22
10,762.00	80.45	180.89	10,387.32	-901.21	489.21	920.36	6.37	6.36	-0.23
10,810.00	85.95	180.65	10,393.00	-948.85	488.57	967.93	11.47	11.46	-0.50
10,824.00	87.00	180.61	10,393.87	-962.83	488.42	981.89	7.51	7.50	-0.29
10,869.00	87.34	179.66	10,396.09	-1,007.77	488.31	1,026.79	2.24	0.76	-2.11
10,986.00	86.71	179.01	10,402.16	-1,124.60	489.67	1,143.58	0.77	-0.54	-0.56
11,080.00	87.08	182.08	10,407.25	-1,218.45	488.77	1,237.31	3.28	0.39	3.27
11,174.00	87.53	181.86	10,411.67	-1,312.29	485.55	1,330.95	0.53	0.48	-0.23
11,269.00	88.00	181.40	10,415.38	-1,407.18	482.84	1,425.65	0.69	0.49	-0.48
11,363.00	87.77	181.58	10,418.85	-1,501.08	480.40	1,519.37	0.31	-0.24	0.19
11,458.00	87.87	181.69	10,422.46	-1,595.98	477.69	1,614.08	0.16	0.11	0.12
11,552.00	87.77	181.78	10,426.04	-1,689.86	474.85	1,707.77	0.14	-0.11	0.10
11,646.00	87.87	181.80	10,429.61	-1,783.75	471.92	1,801.46	0.11	0.11	0.02
11,741.00	88.07	181.69	10,432.98	-1,878.65	469.02	1,896.16	0.24	0.21	-0.12
11,835.00	87.93	181.16	10,436.26	-1,972.56	466.69	1,989.90	0.58	-0.15	-0.56
11,930.00	87.79	181.28	10,439.80	-2,067.47	464.67	2,084.65	0.19	-0.15	0.13
12,024.00	87.85	181.94	10,443.38	-2,161.37	462.03	2,178.36	0.70	0.06	0.70
12,118.00	88.21	180.59	10,446.61	-2,255.29	459.95	2,272.12	1.49	0.38	-1.44
12,213.00	87.79	181.02	10,449.93	-2,350.22	458.62	2,366.92	0.63	-0.44	0.45
12,307.00	88.99	179.34	10,452.57	-2,444.18	458.33	2,460.79	2.20	1.28	-1.79
12,402.00	88.10	177.91	10,454.98	-2,539.11	460.60	2,555.74	1.77	-0.94	-1.51
12,496.00	88.13	180.35	10,458.07	-2,633.05	462.03	2,649.65	2.59	0.03	2.60
12,591.00	88.70	178.85	10,460.70	-2,728.00	462.69	2,744.56	1.69	0.60	-1.58
12,686.00	88.51	175.79	10,463.01	-2,822.86	467.13	2,839.52	3.23	-0.20	-3.22
12,780.00	88.14	178.01	10,465.76	-2,916.68	472.21	2,933.46	2.39	-0.39	2.36
12,874.00	88.17	179.93	10,468.79	-3,010.61	473.90	3,027.39	2.04	0.03	2.04
12,969.00	88.42	178.29	10,471.62	-3,105.55	475.38	3,122.31	1.75	0.26	-1.73
13,063.00	87.54	180.78	10,474.93	-3,199.48	476.14	3,216.19	2.81	-0.94	2.65
13,158.00	88.50	181.76	10,478.21	-3,294.40	474.04	3,310.95	1.44	1.01	1.03
13,252.00	88.79	178.10	10,480.44	-3,388.36	474.15	3,404.83	3.90	0.31	-3.89
13,347.00	87.96	179.04	10,483.13	-3,483.29	476.52	3,499.78	1.32	-0.87	0.99

Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - NME)
Site: Airstream 24 State Com
Well: 506H
Wellbore: OH / 65152
Design: Surveys (H&P 618)

Local Co-ordinate Reference: Well 506H
TVD Reference: RKB @ 3549.60usft (H&P 618)
MD Reference: RKB @ 3549.60usft (H&P 618)
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)
13,441.00	88.56	178.18	10,485.98	-3,577.22	478.80	3,593.72	1.12	0.64	-0.91
13,535.00	88.25	179.64	10,488.60	-3,671.16	480.59	3,687.66	1.59	-0.33	1.55
13,630.00	88.56	177.59	10,491.24	-3,766.09	482.88	3,782.61	2.18	0.33	-2.16
13,724.00	87.59	178.99	10,494.40	-3,859.99	485.69	3,876.55	1.81	-1.03	1.49
13,818.00	87.91	182.39	10,498.09	-3,953.90	484.56	3,970.33	3.63	0.34	3.62
13,913.00	89.07	181.03	10,500.60	-4,048.82	481.72	4,065.06	1.88	1.22	-1.43
14,007.00	88.93	180.40	10,502.24	-4,142.80	480.55	4,158.91	0.69	-0.15	-0.67
14,101.00	88.73	181.08	10,504.16	-4,236.77	479.34	4,252.75	0.75	-0.21	0.72
14,195.00	88.51	180.26	10,506.42	-4,330.73	478.24	4,346.60	0.90	-0.23	-0.87
14,289.00	88.67	182.63	10,508.73	-4,424.67	475.87	4,440.36	2.53	0.17	2.52
14,383.00	88.91	180.06	10,510.72	-4,518.61	473.66	4,534.14	2.75	0.26	-2.73
14,477.00	88.79	180.65	10,512.61	-4,612.59	473.08	4,628.01	0.64	-0.13	0.63
14,571.00	88.87	182.19	10,514.53	-4,706.54	470.75	4,721.79	1.64	0.09	1.64
14,665.00	89.75	179.73	10,515.66	-4,800.51	469.18	4,815.62	2.78	0.94	-2.62
14,759.00	88.56	180.15	10,517.04	-4,894.50	469.27	4,909.53	1.34	-1.27	0.45
14,853.00	88.87	180.32	10,519.15	-4,988.48	468.89	5,003.42	0.38	0.33	0.18
14,947.00	88.47	181.55	10,521.33	-5,082.44	467.36	5,097.24	1.38	-0.43	1.31
15,041.00	88.08	183.07	10,524.16	-5,176.32	463.57	5,190.88	1.67	-0.41	1.62
15,135.00	88.71	179.62	10,526.80	-5,270.24	461.36	5,284.64	3.73	0.67	-3.67
15,229.00	88.11	179.61	10,529.41	-5,364.20	462.00	5,378.55	0.64	-0.64	-0.01
15,323.00	87.56	182.56	10,532.96	-5,458.10	460.22	5,472.30	3.19	-0.59	3.14
15,417.00	88.36	184.66	10,536.30	-5,551.85	454.30	5,565.73	2.39	0.85	2.23
15,511.00	90.64	182.72	10,537.12	-5,645.64	448.25	5,659.20	3.18	2.43	-2.06
15,605.00	91.06	178.83	10,535.73	-5,739.61	446.98	5,753.03	4.16	0.45	-4.14
15,700.00	90.67	177.62	10,534.30	-5,834.55	449.93	5,848.02	1.34	-0.41	-1.27
15,794.00	89.61	178.89	10,534.07	-5,928.50	452.79	5,942.01	1.76	-1.13	1.35
15,888.00	91.15	177.94	10,533.44	-6,022.46	455.39	6,035.99	1.92	1.64	-1.01
15,982.00	91.61	174.48	10,531.18	-6,116.21	461.60	6,129.92	3.71	0.49	-3.68
16,076.00	89.82	174.76	10,530.00	-6,209.79	470.41	6,223.78	1.93	-1.90	0.30
16,171.00	89.05	178.59	10,530.94	-6,304.60	475.92	6,318.74	4.11	-0.81	4.03
16,265.00	88.70	181.18	10,532.79	-6,398.58	476.11	6,412.64	2.78	-0.37	2.76
16,359.00	91.63	183.46	10,532.52	-6,492.48	472.30	6,506.32	3.95	3.12	2.43
16,453.00	92.63	184.70	10,529.02	-6,586.18	465.62	6,599.66	1.69	1.06	1.32
16,547.00	92.53	184.54	10,524.79	-6,679.78	458.06	6,692.88	0.20	-0.11	-0.17
16,641.00	91.76	182.38	10,521.27	-6,773.53	452.39	6,786.32	2.44	-0.82	-2.30
16,735.00	90.78	178.46	10,519.19	-6,867.49	451.70	6,880.17	4.30	-1.04	-4.17
16,829.00	89.47	176.22	10,518.98	-6,961.38	456.06	6,974.16	2.76	-1.39	-2.38
16,923.00	89.51	180.11	10,519.82	-7,055.31	459.07	7,068.14	4.14	0.04	4.14
17,017.00	90.41	181.09	10,519.89	-7,149.30	458.09	7,162.01	1.42	0.96	1.04
17,111.00	90.42	180.83	10,519.21	-7,243.29	456.51	7,255.86	0.28	0.01	-0.28
17,205.00	90.32	181.04	10,518.60	-7,337.27	454.98	7,349.70	0.25	-0.11	0.22
17,299.00	90.35	181.07	10,518.05	-7,431.25	453.25	7,443.54	0.05	0.03	0.03
17,393.00	89.65	180.84	10,518.05	-7,525.24	451.68	7,537.38	0.78	-0.74	-0.24

Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - NME)
Site: Airstream 24 State Com
Well: 506H
Wellbore: OH / 65152
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Local Co-ordinate Reference: Well 506H
TVD Reference: RKB @ 3549.60usft (H&P 618)
MD Reference: RKB @ 3549.60usft (H&P 618)
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)
17,487.00	89.31	181.12	10,518.90	-7,619.22	450.07	7,631.22	0.47	-0.36	0.30
17,581.00	89.38	181.35	10,519.98	-7,713.19	448.05	7,725.03	0.26	0.07	0.24
17,675.00	89.59	181.15	10,520.82	-7,807.17	446.00	7,818.84	0.31	0.22	-0.21
17,769.00	89.35	181.33	10,521.69	-7,901.14	443.96	7,912.66	0.32	-0.26	0.19
17,863.00	89.28	181.07	10,522.82	-7,995.11	441.99	8,006.47	0.29	-0.07	-0.28
17,957.00	88.59	180.92	10,524.56	-8,089.08	440.36	8,100.30	0.75	-0.73	-0.16
18,051.00	89.48	179.46	10,526.15	-8,183.07	440.05	8,194.19	1.82	0.95	-1.55
18,145.00	88.02	179.01	10,528.20	-8,277.03	441.31	8,288.13	1.63	-1.55	-0.48
18,239.00	87.19	179.22	10,532.12	-8,370.94	442.76	8,382.02	0.91	-0.88	0.22
18,333.00	88.41	181.24	10,535.73	-8,464.86	442.38	8,475.85	2.51	1.30	2.15
18,427.00	87.71	181.38	10,538.92	-8,558.78	440.23	8,569.60	0.76	-0.74	0.15
18,521.00	90.87	181.47	10,540.08	-8,652.73	437.89	8,663.38	3.36	3.36	0.10
18,615.00	92.60	178.97	10,537.23	-8,746.68	437.53	8,757.24	3.23	1.84	-2.66
18,646.00	92.07	177.90	10,535.97	-8,777.64	438.38	8,788.21	3.85	-1.71	-3.45
18,678.00	91.29	176.77	10,535.03	-8,809.59	439.87	8,820.19	4.29	-2.44	-3.53
18,709.00	90.44	176.11	10,534.56	-8,840.53	441.79	8,851.18	3.47	-2.74	-2.13
18,803.00	87.45	174.92	10,536.29	-8,934.21	449.14	8,945.09	3.42	-3.18	-1.27
18,897.00	86.03	173.42	10,541.64	-9,027.57	458.67	9,038.75	2.20	-1.51	-1.60
18,992.00	84.75	174.77	10,549.28	-9,121.76	468.41	9,133.26	1.95	-1.35	1.42
19,086.00	84.27	178.98	10,558.27	-9,215.16	473.51	9,226.80	4.49	-0.51	4.48
19,180.00	84.86	182.72	10,567.18	-9,308.71	472.12	9,320.21	4.01	0.63	3.98
19,274.00	87.10	186.08	10,573.77	-9,402.19	464.93	9,413.31	4.29	2.38	3.57
19,368.00	86.60	188.48	10,578.94	-9,495.28	453.04	9,505.85	2.60	-0.53	2.55
19,399.00	85.95	189.71	10,580.95	-9,525.82	448.15	9,536.17	4.48	-2.10	3.97
19,431.00	85.60	190.32	10,583.31	-9,557.25	442.60	9,567.34	2.19	-1.09	1.91
19,462.00	86.52	189.81	10,585.44	-9,587.70	437.19	9,597.55	3.39	2.97	-1.65
19,493.00	87.96	189.16	10,586.93	-9,618.24	432.09	9,627.86	5.10	4.65	-2.10
19,525.00	89.05	188.62	10,587.77	-9,649.85	427.15	9,659.23	3.80	3.41	-1.69
19,556.00	90.05	187.70	10,588.01	-9,680.53	422.75	9,689.71	4.38	3.23	-2.97
19,587.00	90.70	186.26	10,587.81	-9,711.30	418.98	9,720.30	5.10	2.10	-4.65
19,619.00	91.44	184.81	10,587.21	-9,743.14	415.89	9,752.00	5.09	2.31	-4.53
19,650.00	92.21	183.30	10,586.22	-9,774.05	413.70	9,782.79	5.47	2.48	-4.87
19,681.00	92.78	181.72	10,584.87	-9,804.99	412.35	9,813.65	5.41	1.84	-5.10
19,713.00	93.31	180.46	10,583.17	-9,836.94	411.74	9,845.54	4.27	1.66	-3.94
19,744.00	92.27	179.18	10,581.66	-9,867.90	411.83	9,876.48	5.32	-3.35	-4.13
19,775.00	91.43	178.14	10,580.66	-9,898.87	412.56	9,907.46	4.31	-2.71	-3.35
19,806.00	90.47	176.95	10,580.15	-9,929.84	413.89	9,938.46	4.93	-3.10	-3.84
19,838.00	89.53	176.07	10,580.15	-9,961.78	415.84	9,970.45	4.02	-2.94	-2.75
19,869.00	87.67	174.74	10,580.91	-9,992.67	418.32	10,001.41	7.38	-6.00	-4.29
19,932.00	84.39	174.54	10,585.27	-10,055.23	424.19	10,064.17	5.22	-5.21	-0.32
19,995.00	82.92	177.17	10,592.23	-10,117.68	428.71	10,126.74	4.76	-2.33	4.17
20,026.00	83.12	178.10	10,596.00	-10,148.42	429.98	10,157.51	3.05	0.65	3.00
20,057.00	83.82	179.27	10,599.52	-10,179.21	430.69	10,188.31	4.38	2.26	3.77
20,089.00	84.68	180.25	10,602.73	-10,211.05	430.82	10,220.12	4.06	2.69	3.06

Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - NME)
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Local Co-ordinate Reference: Well 506H
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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)
20,120.00	85.80	181.02	10,605.30	-10,241.94	430.48	10,250.97	4.38	3.61	2.48
20,183.00	86.93	181.86	10,609.30	-10,304.79	428.90	10,313.71	2.23	1.79	1.33
20,214.00	86.89	181.56	10,610.97	-10,335.73	427.98	10,344.59	0.97	-0.13	-0.97
20,308.00	88.24	181.13	10,614.96	-10,429.62	425.77	10,438.31	1.51	1.44	-0.46
20,402.00	89.33	180.75	10,616.95	-10,523.58	424.23	10,532.13	1.23	1.16	-0.40
20,496.00	89.70	179.64	10,617.75	-10,617.58	423.91	10,626.03	1.24	0.39	-1.18
20,587.00	90.15	178.48	10,617.87	-10,708.56	425.40	10,717.01	1.37	0.49	-1.27
20,679.00	90.10	177.01	10,617.67	-10,800.49	429.02	10,809.00	1.60	-0.05	-1.60
20,770.00	89.90	175.71	10,617.67	-10,891.30	434.80	10,899.98	1.45	-0.22	-1.43
20,862.00	89.95	174.25	10,617.79	-10,982.95	442.85	10,991.87	1.59	0.05	-1.59
20,916.00	90.16	173.39	10,617.73	-11,036.6	448.66	11,045.75	1.64	0.39	-1.59
Final Phoenix MWD Survey									
20,950.00	90.16	173.39	10,617.64	-11,070.41	452.58	11,079.66	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)	
1,779.00	1,778.95	-0.40	4.65	Tie In
1,913.00	1,912.95	-0.12	5.30	First Phoenix MWD Survey
20,916.00	10,617.73	-11,036.64	448.66	Final Phoenix MWD Survey
20,950.00	10,617.64	-11,070.41	452.58	Projection to TD