

Matador Resources

**Lea County, NM (NAD27)
Brad Lummis Fed Com
#211H**

HOBBS OCD

MAR 06 2020

RECEIVED

OH

Design: Svy

Standard Survey Report

20 April, 2019

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #211H
Project:	Lea County, NM (NAD27)	TVD Reference:	3493 + 28.5 = KB @ 3521.50usft (Patt 274)
Site:	Brad Lummis Fed Com	MD Reference:	3493 + 28.5 = KB @ 3521.50usft (Patt 274)
Well:	#211H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Svy	Database:	WellPlanner1

Project	Lea County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Brad Lummis Fed Com			
Site Position:		Northing:	440,907.00 usft	Latitude:	32.209066
From:	Map	Easting:	774,006.00 usft	Longitude:	-103.447427
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	#211H					
Well Position	+N/-S	0.00 usft	Northing:	440,878.00 usft	Latitude:	32.208987
	+E/-W	0.00 usft	Easting:	774,003.00 usft	Longitude:	-103.447438
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,493.00 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/12/2019	6.65	59.87	47,919.40

Design	Svy				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.55

Survey Program	Date 4/20/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
150.00	17,161.00	ProMWD #1 (OH)	MWD+HDGM	OWSG MWD + HRGM

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
150.00	0.60	217.60	150.00	-0.62	-0.48	0.62	0.40	0.40	0.00
239.00	0.70	213.20	238.99	-1.45	-1.06	1.44	0.13	0.11	-4.94
329.00	0.30	244.40	328.99	-2.01	-1.57	2.00	0.52	-0.44	34.67
419.00	0.20	90.60	418.99	-2.11	-1.63	2.10	0.54	-0.11	-170.89
509.00	0.30	106.10	508.99	-2.18	-1.25	2.17	0.13	0.11	17.22
599.00	0.00	317.60	598.99	-2.24	-1.02	2.24	0.33	-0.33	0.00
695.00	0.10	224.70	694.99	-2.30	-1.08	2.29	0.10	0.10	0.00
790.00	0.50	112.60	789.99	-2.52	-0.75	2.52	0.57	0.42	-118.00
885.00	0.50	83.70	884.98	-2.64	0.04	2.64	0.26	0.00	-30.42

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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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)
980.00	0.40	119.40	979.98	-2.75	0.74	2.76	0.31	-0.11	37.58
1,070.00	0.50	75.50	1,069.98	-2.81	1.39	2.82	0.39	0.11	-48.78
1,165.00	0.40	73.00	1,164.97	-2.61	2.11	2.62	0.11	-0.11	-2.63
1,260.00	0.60	80.70	1,259.97	-2.43	2.92	2.45	0.22	0.21	8.11
1,355.00	0.50	60.80	1,354.97	-2.15	3.77	2.18	0.23	-0.11	-20.95
1,450.00	0.50	47.40	1,449.96	-1.67	4.44	1.70	0.12	0.00	-14.11
1,545.00	0.20	23.10	1,544.96	-1.23	4.81	1.27	0.35	-0.32	-25.58
1,641.00	0.30	43.10	1,640.96	-0.89	5.05	0.93	0.14	0.10	20.83
1,736.00	0.40	72.00	1,735.96	-0.61	5.53	0.65	0.21	0.11	30.42
1,831.00	0.30	75.40	1,830.96	-0.45	6.09	0.49	0.11	-0.11	3.58
1,927.00	0.30	40.20	1,926.95	-0.19	6.50	0.24	0.19	0.00	-36.67
2,022.00	0.30	93.30	2,021.95	-0.01	6.90	0.07	0.28	0.00	55.89
2,117.00	0.20	35.10	2,116.95	0.11	7.25	-0.05	0.27	-0.11	-61.26
2,212.00	0.30	4.90	2,211.95	0.49	7.36	-0.43	0.17	0.11	-31.79
2,308.00	0.30	343.80	2,307.95	0.98	7.32	-0.92	0.11	0.00	-21.98
2,403.00	0.30	330.60	2,402.95	1.44	7.12	-1.38	0.07	0.00	-13.89
2,498.00	1.70	349.70	2,497.93	3.04	6.75	-2.99	1.49	1.47	20.11
2,594.00	2.20	348.30	2,593.88	6.25	6.12	-6.20	0.52	0.52	-1.46
2,689.00	3.00	353.40	2,688.78	10.50	5.47	-10.46	0.88	0.84	5.37
2,785.00	4.30	355.10	2,784.58	16.58	4.87	-16.54	1.36	1.35	1.77
2,880.00	5.20	4.90	2,879.26	24.42	4.93	-24.38	1.27	0.95	10.32
2,975.00	5.60	11.50	2,973.83	33.25	6.23	-33.20	0.78	0.42	6.95
3,070.00	5.10	13.30	3,068.42	41.90	8.12	-41.84	0.56	-0.53	1.89
3,165.00	6.30	12.90	3,162.95	51.09	10.26	-51.01	1.26	1.26	-0.42
3,261.00	7.10	14.40	3,258.29	61.98	12.91	-61.87	0.85	0.83	1.56
3,356.00	6.60	16.90	3,352.61	72.89	15.95	-72.76	0.61	-0.53	2.63
3,451.00	6.20	17.50	3,447.02	83.00	19.08	-82.85	0.43	-0.42	0.63
3,547.00	5.80	18.80	3,542.50	92.54	22.21	-92.36	0.44	-0.42	1.35
3,642.00	5.40	22.40	3,637.04	101.22	25.46	-101.01	0.56	-0.42	3.79
3,737.00	5.10	24.50	3,731.64	109.19	28.91	-108.96	0.37	-0.32	2.21
3,832.00	4.90	24.80	3,826.28	116.72	32.36	-116.46	0.21	-0.21	0.32
3,928.00	5.30	9.60	3,921.91	124.81	34.82	-124.53	1.46	0.42	-15.83
4,023.00	5.60	9.00	4,016.48	133.71	36.28	-133.42	0.32	0.32	-0.63
4,118.00	5.20	12.90	4,111.06	142.49	37.97	-142.19	0.57	-0.42	4.11
4,214.00	4.10	13.70	4,206.74	150.06	39.75	-149.75	1.15	-1.15	0.83
4,309.00	5.00	2.80	4,301.44	157.50	40.76	-157.17	1.31	0.95	-11.47
4,404.00	5.30	359.20	4,396.06	166.02	40.90	-165.69	0.46	0.32	-3.79
4,499.00	4.10	3.40	4,490.74	173.80	41.04	-173.47	1.31	-1.26	4.42
4,594.00	3.20	13.50	4,585.54	179.77	41.86	-179.43	1.16	-0.95	10.63
4,690.00	2.30	32.60	4,681.43	184.00	43.52	-183.65	1.33	-0.94	19.90
4,785.00	2.20	51.20	4,776.36	186.74	45.97	-186.38	0.77	-0.11	19.58
4,880.00	1.70	50.70	4,871.31	188.78	48.48	-188.39	0.53	-0.53	-0.53
4,974.00	1.90	66.70	4,965.26	190.28	50.99	-189.87	0.57	0.21	17.02
5,069.00	2.50	79.80	5,060.19	191.27	54.48	-190.83	0.82	0.63	13.79

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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)
5,164.00	2.80	88.70	5,155.09	191.69	58.84	-191.22	0.54	0.32	9.37
5,259.00	2.90	93.40	5,249.97	191.60	63.56	-191.09	0.27	0.11	4.95
5,346.00	2.20	87.70	5,336.89	191.53	67.42	-191.00	0.85	-0.80	-6.55
5,442.00	1.50	86.80	5,432.83	191.68	70.52	-191.12	0.73	-0.73	-0.94
5,537.00	2.50	354.10	5,527.79	193.81	71.55	-193.24	3.13	1.05	-97.58
5,633.00	2.30	346.80	5,623.71	197.77	70.89	-197.20	0.38	-0.21	-7.60
5,728.00	2.50	350.20	5,718.63	201.66	70.10	-201.11	0.26	0.21	3.58
5,824.00	4.70	356.80	5,814.43	207.66	69.53	-207.10	2.33	2.29	6.88
5,919.00	5.30	357.00	5,909.07	215.92	69.08	-215.37	0.63	0.63	0.21
6,013.00	5.30	356.30	6,002.67	224.59	68.57	-224.05	0.07	0.00	-0.74
6,108.00	5.50	355.50	6,097.25	233.51	67.93	-232.97	0.22	0.21	-0.84
6,204.00	5.70	353.80	6,192.79	242.83	67.06	-242.30	0.27	0.21	-1.77
6,299.00	5.80	353.00	6,287.31	252.29	65.96	-251.76	0.13	0.11	-0.84
6,394.00	5.40	352.80	6,381.86	261.49	64.82	-260.97	0.42	-0.42	-0.21
6,489.00	5.60	353.20	6,476.42	270.53	63.71	-270.02	0.21	0.21	0.42
6,585.00	5.80	354.80	6,571.95	280.01	62.71	-279.51	0.27	0.21	1.67
6,680.00	6.00	354.10	6,666.44	289.73	61.77	-289.23	0.22	0.21	-0.74
6,775.00	5.70	354.70	6,760.95	299.36	60.82	-298.88	0.32	-0.32	0.63
6,871.00	6.10	354.40	6,856.44	309.19	59.88	-308.71	0.42	0.42	-0.31
6,966.00	6.20	354.10	6,950.89	319.31	58.86	-318.84	0.11	0.11	-0.32
7,061.00	6.00	353.40	7,045.35	329.35	57.77	-328.88	0.22	-0.21	-0.74
7,156.00	4.00	354.70	7,139.99	337.58	56.89	-337.12	2.11	-2.11	1.37
7,251.00	4.00	356.00	7,234.76	344.18	56.35	-343.73	0.10	0.00	1.37
7,347.00	4.10	354.40	7,330.52	350.94	55.78	-350.49	0.16	0.10	-1.67
7,442.00	4.00	353.40	7,425.28	357.61	55.07	-357.17	0.13	-0.11	-1.05
7,537.00	1.60	10.30	7,520.16	362.21	54.93	-361.77	2.64	-2.53	17.79
7,632.00	1.30	5.90	7,615.13	364.59	55.27	-364.14	0.34	-0.32	-4.63
7,727.00	1.20	6.20	7,710.11	366.65	55.49	-366.20	0.11	-0.11	0.32
7,822.00	1.30	10.20	7,805.08	368.70	55.79	-368.25	0.14	0.11	4.21
7,916.00	1.20	4.30	7,899.06	370.73	56.05	-370.28	0.17	-0.11	-6.28
8,011.00	0.80	6.50	7,994.05	372.38	56.20	-371.92	0.42	-0.42	2.32
8,106.00	0.80	335.10	8,089.04	373.64	56.00	-373.19	0.46	0.00	-33.05
8,201.00	0.40	324.20	8,184.03	374.51	55.53	-374.06	0.44	-0.42	-11.47
8,296.00	0.30	326.30	8,279.03	374.98	55.19	-374.54	0.11	-0.11	2.21
8,391.00	0.30	300.00	8,374.03	375.32	54.84	-374.87	0.14	0.00	-27.68
8,486.00	0.60	304.20	8,469.03	375.72	54.21	-375.28	0.32	0.32	4.42
8,582.00	0.60	264.30	8,565.02	375.95	53.30	-375.52	0.43	0.00	-41.56
8,677.00	0.90	288.50	8,660.01	376.14	52.10	-375.72	0.45	0.32	25.47
8,772.00	1.20	309.10	8,755.00	377.00	50.62	-376.59	0.50	0.32	21.68
8,867.00	0.30	13.20	8,849.99	377.87	49.90	-377.47	1.16	-0.95	67.47
8,963.00	0.30	37.10	8,945.99	378.32	50.11	-377.91	0.13	0.00	24.90
9,057.00	0.10	48.10	9,039.99	378.57	50.32	-378.16	0.22	-0.21	11.70
9,153.00	0.30	306.30	9,135.99	378.77	50.18	-378.37	0.35	0.21	-106.04

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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9,248.00	1.60	80.40	9,230.98	379.14	51.29	-378.73	1.92	1.37	141.16
9,343.00	1.20	80.60	9,325.95	379.53	53.58	-379.09	0.42	-0.42	0.21
9,438.00	0.40	85.50	9,420.94	379.72	54.89	-379.27	0.84	-0.84	5.16
9,533.00	0.10	143.50	9,515.94	379.67	55.27	-379.23	0.38	-0.32	61.05
9,628.00	1.30	82.20	9,610.93	379.75	56.38	-379.30	1.32	1.26	-64.53
9,722.00	0.60	131.00	9,704.92	379.58	57.81	-379.11	1.08	-0.74	51.91
9,818.00	0.80	232.30	9,800.91	378.84	57.66	-378.37	1.14	0.21	105.52
9,913.00	1.50	233.30	9,895.89	377.69	56.14	-377.24	0.74	0.74	1.05
10,008.00	1.20	185.90	9,990.87	375.95	55.04	-375.51	1.18	-0.32	-49.89
10,103.00	1.00	188.70	10,085.85	374.15	54.81	-373.70	0.22	-0.21	2.95
10,198.00	1.60	211.20	10,180.83	372.19	54.00	-371.76	0.82	0.63	23.68
10,293.00	1.10	176.50	10,275.80	370.15	53.37	-369.72	0.99	-0.53	-36.53
10,388.00	1.90	149.40	10,370.77	367.88	54.23	-367.44	1.10	0.84	-28.53
10,483.00	2.50	129.10	10,465.70	365.22	56.64	-364.76	1.03	0.63	-21.37
10,578.00	2.50	117.90	10,560.61	362.94	60.08	-362.46	0.51	0.00	-11.79
10,674.00	2.40	89.70	10,656.53	361.97	63.94	-361.46	1.25	-0.10	-29.38
10,769.00	1.60	93.30	10,751.47	361.91	67.25	-361.37	0.85	-0.84	3.79
10,864.00	0.80	116.00	10,846.45	361.54	69.17	-360.99	0.96	-0.84	23.89
10,960.00	0.00	220.10	10,942.44	361.25	69.77	-360.69	0.83	-0.83	0.00
11,055.00	0.40	306.60	11,037.44	361.44	69.51	-360.89	0.42	0.42	0.00
11,150.00	0.30	154.10	11,132.44	361.42	69.35	-360.86	0.72	-0.11	-160.53
11,245.00	0.60	205.70	11,227.44	360.75	69.24	-360.19	0.50	0.32	54.32
11,340.00	0.80	186.60	11,322.43	359.64	68.95	-359.09	0.32	0.21	-20.11
11,435.00	0.60	209.40	11,417.43	358.55	68.63	-358.00	0.36	-0.21	24.00
11,531.00	1.30	225.40	11,513.41	357.35	67.61	-356.80	0.77	0.73	16.67
11,626.00	1.60	212.30	11,608.38	355.47	66.13	-354.94	0.47	0.32	-13.79
11,657.00	1.50	201.80	11,639.37	354.72	65.75	-354.20	0.97	-0.32	-33.87
11,785.00	2.10	185.00	11,767.31	350.83	64.92	-350.31	0.62	0.47	-13.13
11,817.00	7.00	157.10	11,799.20	348.45	65.63	-347.92	16.36	15.31	-87.19
11,881.00	17.70	153.50	11,861.63	336.12	71.51	-335.54	16.75	16.72	-5.63
11,903.84	20.73	156.48	11,883.19	329.30	74.67	-328.70	13.94	13.26	13.05
FTP: 11904' MD									
11,976.00	30.50	162.10	11,948.19	300.09	85.42	-299.41	13.94	13.54	7.79
12,071.00	41.30	167.90	12,025.06	246.32	99.45	-245.53	11.91	11.37	6.11
12,166.00	50.40	171.40	12,091.17	179.33	111.52	-178.45	9.93	9.58	3.68
12,261.00	52.80	181.00	12,150.26	105.19	116.34	-104.28	8.31	2.53	10.11
12,356.00	59.00	187.90	12,203.54	26.89	110.07	-26.03	8.87	6.53	7.26
12,451.00	68.90	188.20	12,245.20	-57.51	98.13	58.28	10.42	10.42	0.32
12,521.00	72.00	185.20	12,268.63	-123.01	90.45	123.71	5.99	4.43	-4.29
12,566.00	71.30	184.80	12,282.80	-165.56	86.73	166.23	1.77	-1.56	-0.89
12,610.00	75.40	183.50	12,295.40	-207.59	83.68	208.24	9.74	9.32	-2.95
12,655.00	81.90	181.80	12,304.25	-251.64	81.65	252.27	14.91	14.44	-3.78
12,744.00	89.00	179.90	12,311.31	-340.29	80.34	340.91	8.26	7.98	-2.13
12,833.00	88.60	178.90	12,313.17	-429.26	81.27	429.89	1.21	-0.45	-1.12

Pro Directional Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #211H
Project:	Lea County, NM (NAD27)	TVD Reference:	3493 + 28.5 = KB @ 3521.50usft (Patt 274)
Site:	Brad Lummis Fed Com	MD Reference:	3493 + 28.5 = KB @ 3521.50usft (Patt 274)
Well:	#211H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Svy	Database:	WellPlanner1

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)
12,923.00	88.30	178.50	12,315.61	-519.21	83.31	519.84	0.56	-0.33	-0.44
13,012.00	87.10	176.90	12,319.18	-608.06	86.88	608.72	2.25	-1.35	-1.80
13,101.00	88.60	177.30	12,322.52	-696.88	91.38	697.57	1.74	1.69	0.45
13,190.00	88.10	176.20	12,325.08	-785.70	96.42	786.43	1.36	-0.56	-1.24
13,279.00	91.70	179.10	12,325.24	-874.60	100.07	875.36	5.19	4.04	3.26
13,369.00	90.90	181.30	12,323.19	-964.57	99.76	965.32	2.60	-0.89	2.44
13,458.00	88.50	182.80	12,323.66	-1,053.50	96.58	1,054.23	3.18	-2.70	1.69
13,547.00	87.10	182.60	12,327.08	-1,142.33	92.39	1,143.02	1.59	-1.57	-0.22
13,637.00	87.40	181.80	12,331.40	-1,232.16	88.94	1,232.82	0.95	0.33	-0.89
13,726.00	86.10	181.20	12,336.44	-1,320.99	86.61	1,321.63	1.61	-1.46	-0.67
13,815.00	87.20	179.50	12,341.64	-1,409.83	86.07	1,410.46	2.27	1.24	-1.91
13,904.00	88.80	177.60	12,344.75	-1,498.74	88.32	1,499.39	2.79	1.80	-2.13
13,994.00	88.00	176.60	12,347.26	-1,588.59	92.87	1,589.27	1.42	-0.89	-1.11
14,083.00	91.60	178.20	12,347.57	-1,677.48	96.91	1,678.19	4.43	4.04	1.80
14,172.00	90.00	177.90	12,346.33	-1,766.41	99.93	1,767.14	1.83	-1.80	-0.34
14,262.00	88.70	177.00	12,347.35	-1,856.32	103.94	1,857.08	1.76	-1.44	-1.00
14,351.00	89.20	176.70	12,348.98	-1,945.17	108.83	1,945.96	0.66	0.56	-0.34
14,440.00	88.60	176.10	12,350.69	-2,033.97	114.41	2,034.81	0.95	-0.67	-0.67
14,530.00	88.90	178.30	12,352.65	-2,123.84	118.81	2,124.71	2.47	0.33	2.44
14,619.00	87.90	180.70	12,355.14	-2,212.79	119.59	2,213.66	2.92	-1.12	2.70
14,709.00	87.80	180.10	12,358.52	-2,302.73	118.96	2,303.59	0.68	-0.11	-0.67
14,798.00	87.20	183.10	12,362.40	-2,391.60	116.48	2,392.44	3.43	-0.67	3.37
14,887.00	86.90	183.50	12,366.98	-2,480.33	111.36	2,481.13	0.56	-0.34	0.45
14,976.00	87.00	183.30	12,371.71	-2,569.05	106.09	2,569.80	0.25	0.11	-0.22
15,066.00	86.80	182.70	12,376.58	-2,658.79	101.39	2,659.51	0.70	-0.22	-0.67
15,155.00	86.90	182.90	12,381.47	-2,747.55	97.05	2,748.23	0.25	0.11	0.22
15,244.00	86.60	182.50	12,386.52	-2,836.31	92.86	2,836.95	0.56	-0.34	-0.45
15,334.00	85.80	182.20	12,392.48	-2,926.04	89.18	2,926.65	0.95	-0.89	-0.33
15,423.00	85.80	181.70	12,399.00	-3,014.75	86.16	3,015.33	0.56	0.00	-0.56
15,512.00	85.40	181.30	12,405.83	-3,103.45	83.83	3,104.02	0.63	-0.45	-0.45
15,602.00	86.40	180.60	12,412.26	-3,193.21	82.35	3,193.76	1.36	1.11	-0.78
15,691.00	86.60	180.60	12,417.70	-3,282.04	81.42	3,282.58	0.22	0.22	0.00
15,781.00	86.30	180.30	12,423.27	-3,371.86	80.71	3,372.39	0.47	-0.33	-0.33
15,870.00	86.90	180.10	12,428.55	-3,460.71	80.40	3,461.23	0.71	0.67	-0.22
15,959.00	86.90	179.50	12,433.36	-3,549.57	80.71	3,550.10	0.67	0.00	-0.67
16,049.00	87.20	179.50	12,437.99	-3,639.45	81.49	3,639.98	0.33	0.33	0.00
16,138.00	86.20	179.10	12,443.12	-3,728.30	82.58	3,728.83	1.21	-1.12	-0.45
16,228.00	85.70	178.80	12,449.47	-3,818.06	84.23	3,818.60	0.65	-0.56	-0.33
16,317.00	87.80	177.80	12,454.52	-3,906.87	86.86	3,907.43	2.61	2.36	-1.12
16,406.00	87.00	177.60	12,458.55	-3,995.70	90.43	3,996.29	0.93	-0.90	-0.22
16,495.00	86.50	177.20	12,463.60	-4,084.47	94.46	4,085.08	0.72	-0.56	-0.45
16,585.00	87.50	178.10	12,468.31	-4,174.27	98.15	4,174.91	1.49	1.11	1.00
16,674.00	87.10	178.10	12,472.50	-4,263.12	101.09	4,263.78	0.45	-0.45	0.00

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Svy	Database:	WellPlanner1

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)
16,764.00	87.50	178.10	12,476.74	-4,352.97	104.07	4,353.65	0.44	0.44	0.00
16,853.00	87.60	177.70	12,480.55	-4,441.83	107.33	4,442.53	0.46	0.11	-0.45
16,942.00	88.10	177.90	12,483.89	-4,530.70	110.75	4,531.43	0.61	0.56	0.22
17,032.00	87.50	177.80	12,487.34	-4,620.57	114.12	4,621.32	0.68	-0.67	-0.11
17,100.00	87.50	177.50	12,490.31	-4,688.45	116.91	4,689.22	0.44	0.00	-0.44
Final Svy: 17100.00 MD, 12490.31 TVD									
17,161.00	87.50	177.50	12,492.97	-4,749.33	119.56	4,750.12	0.00	0.00	0.00
PTD: 17161.00 MD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,903.84	11,883.19	329.30	74.67	FTP: 11904' MD
17,100.00	12,490.31	-4,688.45	116.91	Final Svy: 17100.00 MD, 12490.31 TVD
17,161.00	12,492.97	-4,749.33	119.56	PTD: 17161.00 MD

Checked By: _____ Approved By: _____ Date: _____