



PHOENIX
TECHNOLOGY SERVICES

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Matador Resources

Lea County, NM (NAD83)

Leslie Fed Com

203H

OH

Design: Surveys (Patterson 297)

Standard Survey Report

27 February, 2019





Survey Report



Company: Matador Resources
 Project: Lea County, NM (NAD83)
 Site: Leslie Fed Com
 Well: 203H
 Wellbore: OH
 Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 203H
 TVD Reference: RKB @ 3285.50usft (Patterson 297)
 MD Reference: RKB @ 3285.50usft (Patterson 297)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: USA Compass

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

Site	Leslie Fed Com		
Site Position:	Map	Northing:	410,215.00 usft
From:		Easting:	835,566.00 usft
Position Uncertainty:	1.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 27.09322 N
		Longitude:	103° 22' 58.47002 W
		Grid Convergence:	0.51 "

Well	203H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 7' 27.09322 N
		Longitude:	103° 22' 58.47002 W
		Ground Level:	3,257.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	MVHD	2/20/2019	6.63
			Dip Angle
			(°)
			59.78
			Field Strength
			(nT)
			47,779.03751887

Design	Surveys (Patterson 297)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.49

Survey Program	Date 2/27/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
197.00	17,760.00	Phoenix MWD Surveys (OH)	MWD+HRGM
			Description
			OWSG MWD + HRGM

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197.00	0.23	257.26	197.00	-0.09	-0.39	-0.08	0.12	0.12	0.00
First Phoenix MWD Survey									
290.00	0.77	220.57	290.00	-0.60	-0.97	-0.59	0.65	0.58	-39.45
381.00	0.93	245.27	380.99	-1.38	-2.04	-1.36	0.43	0.18	27.14
471.00	1.32	233.10	470.97	-2.30	-3.54	-2.27	0.51	0.43	-13.52
563.00	1.98	227.35	562.93	-4.02	-5.55	-3.97	0.74	0.72	-8.25
654.00	2.39	226.98	653.86	-6.38	-8.09	-6.30	0.45	0.45	-0.41
744.00	2.75	232.74	743.77	-8.96	-11.19	-8.86	0.49	0.40	6.40
836.00	3.12	236.67	835.65	-11.68	-15.03	-11.54	0.46	0.40	4.27
888.00	3.17	239.38	887.57	-13.19	-17.45	-13.03	0.30	0.10	5.21



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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)
1,046.00	3.00	243.86	1,045.35	-17.23	-24.92	-17.01	0.19	-0.11	2.84
1,135.00	2.93	240.99	1,134.23	-19.36	-29.00	-19.10	0.18	-0.08	-3.22
1,227.00	2.71	236.79	1,226.11	-21.69	-32.88	-21.40	0.33	-0.24	-4.57
1,317.00	3.08	240.58	1,316.00	-24.05	-36.77	-23.72	0.46	0.41	4.21
1,411.00	4.21	243.17	1,409.81	-26.84	-42.05	-26.47	1.21	1.20	2.76
1,504.00	5.31	245.08	1,502.49	-30.20	-48.99	-29.76	1.19	1.18	2.05
1,598.00	6.69	245.10	1,595.97	-34.34	-57.91	-33.82	1.47	1.47	0.02
1,691.00	7.17	243.76	1,688.29	-39.18	-68.03	-38.58	0.54	0.52	-1.44
1,785.00	7.18	243.39	1,781.55	-44.41	-78.54	-43.71	0.05	0.01	-0.39
1,878.00	6.88	243.90	1,873.85	-49.46	-88.74	-48.67	0.33	-0.32	0.55
1,972.00	6.72	243.14	1,967.19	-54.42	-98.70	-53.54	0.20	-0.17	-0.81
2,066.00	6.44	240.40	2,060.57	-59.51	-108.19	-58.55	0.45	-0.30	-2.91
2,159.00	6.84	240.78	2,152.95	-64.79	-117.56	-63.74	0.43	0.43	0.41
2,253.00	7.32	241.36	2,246.23	-70.40	-127.70	-69.28	0.52	0.51	0.62
2,346.00	7.20	241.43	2,338.49	-76.02	-138.02	-74.79	0.13	-0.13	0.08
2,440.00	6.71	240.95	2,431.80	-81.51	-147.99	-80.19	0.52	-0.52	-0.51
2,534.00	6.51	239.58	2,525.17	-86.87	-157.39	-85.47	0.27	-0.21	-1.48
2,627.00	6.13	239.40	2,617.60	-92.07	-166.21	-90.59	0.41	-0.41	-0.17
2,721.00	5.85	238.47	2,711.09	-97.13	-174.61	-95.57	0.32	-0.30	-0.99
2,814.00	6.17	238.99	2,803.58	-102.18	-182.93	-100.55	0.35	0.34	0.56
2,908.00	6.35	240.81	2,897.02	-107.32	-191.80	-105.61	0.29	0.19	1.94
3,002.00	6.41	240.36	2,990.44	-112.45	-200.90	-110.66	0.08	0.06	-0.48
3,095.00	7.00	242.84	3,082.80	-117.61	-210.45	-115.73	0.71	0.63	2.67
3,189.00	6.64	242.96	3,176.14	-122.69	-220.39	-120.73	0.38	-0.38	0.13
3,282.00	7.12	243.43	3,268.47	-127.71	-230.33	-125.86	0.52	0.52	0.51
3,376.00	7.22	243.52	3,361.73	-132.95	-240.83	-130.80	0.11	0.11	0.10
3,470.00	6.98	243.51	3,455.01	-138.13	-251.22	-135.89	0.28	-0.28	-0.01
3,563.00	6.75	243.45	3,547.35	-143.08	-261.15	-140.75	0.23	-0.23	-0.06
3,657.00	6.22	242.68	3,640.75	-147.89	-270.61	-145.48	0.57	-0.56	-0.82
3,750.00	6.20	240.84	3,733.20	-152.65	-279.48	-150.16	0.22	-0.02	-1.98
3,844.00	6.23	241.65	3,826.65	-157.55	-288.40	-154.97	0.10	0.03	0.86
3,938.00	6.97	241.89	3,920.02	-162.65	-297.92	-160.00	0.79	0.79	0.26
4,031.00	7.76	242.73	4,012.26	-168.19	-308.48	-165.44	0.86	0.85	0.90
4,125.00	7.56	242.86	4,105.42	-173.92	-318.62	-171.07	0.21	-0.21	0.14
4,218.00	7.37	243.15	4,197.63	-179.40	-330.38	-176.46	0.21	-0.20	0.31
4,312.00	6.73	244.47	4,290.92	-184.50	-340.73	-181.46	0.70	-0.68	1.40
4,406.00	7.00	243.28	4,384.24	-189.45	-350.82	-186.32	0.32	0.29	-1.27
4,499.00	6.88	241.45	4,476.56	-194.66	-360.78	-191.44	0.27	-0.13	-1.87
4,593.00	6.77	240.16	4,569.90	-200.11	-370.53	-196.80	0.20	-0.12	-1.37
4,687.00	7.35	240.55	4,663.18	-205.82	-380.57	-202.42	0.62	0.62	0.41
4,780.00	6.54	240.53	4,755.50	-211.35	-390.36	-207.87	0.87	-0.87	-0.02
4,874.00	7.25	240.80	4,848.82	-216.88	-400.20	-213.31	0.76	0.76	0.29
4,968.00	7.17	238.16	4,942.08	-222.87	-410.36	-219.21	0.36	-0.09	-2.81



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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)
5,061.00	7.33	238.98	5,034.33	-228.99	-420.37	-225.23	0.20	0.17	0.88
5,155.00	7.69	241.39	5,127.53	-235.09	-431.03	-231.24	0.51	0.38	2.56
5,249.00	7.13	241.17	5,220.74	-240.91	-441.67	-236.97	0.60	-0.60	-0.23
5,342.00	6.72	241.30	5,313.06	-246.31	-451.50	-242.28	0.44	-0.44	0.14
5,441.00	6.18	240.63	5,411.44	-251.70	-461.22	-247.59	0.55	-0.55	-0.68
5,531.00	6.00	251.10	5,500.93	-255.60	-469.89	-251.41	1.25	-0.20	11.63
5,624.00	6.41	252.55	5,593.39	-258.73	-479.44	-254.46	0.47	0.44	1.58
5,718.00	7.60	262.37	5,686.69	-261.13	-490.61	-256.76	1.79	1.27	10.45
5,812.00	9.18	258.68	5,779.68	-263.43	-504.13	-258.93	1.77	1.68	-3.93
5,905.00	9.65	250.76	5,871.43	-267.46	-518.76	-262.83	1.48	0.51	-8.52
5,999.00	10.58	247.35	5,963.97	-273.38	-534.16	-268.61	1.18	0.99	-3.63
6,092.00	10.90	243.70	6,055.34	-280.56	-549.92	-275.65	0.81	0.34	-3.92
6,186.00	10.20	234.29	6,147.76	-289.36	-564.65	-284.32	1.98	-0.74	-10.01
6,279.00	8.93	224.18	6,239.47	-299.34	-576.37	-294.20	2.26	-1.37	-10.87
6,373.00	8.19	225.05	6,332.42	-309.30	-586.19	-304.07	0.80	-0.79	0.93
6,468.00	8.00	225.94	6,424.49	-318.48	-595.53	-313.17	0.24	-0.20	0.96
6,560.00	8.02	230.15	6,517.58	-327.23	-605.27	-321.83	0.62	0.02	4.48
6,653.00	7.78	237.46	6,609.70	-334.78	-615.55	-329.28	1.11	-0.26	7.86
6,747.00	7.94	236.17	6,702.81	-341.81	-626.31	-336.22	0.25	0.17	-1.37
6,841.00	7.28	234.57	6,795.99	-348.88	-636.56	-343.20	0.74	-0.70	-1.70
6,935.00	6.25	235.95	6,889.33	-355.20	-645.65	-349.44	1.11	-1.10	1.47
7,028.00	6.16	233.55	6,981.79	-361.00	-653.86	-355.16	0.30	-0.10	-2.58
7,122.00	4.74	238.03	7,075.36	-366.05	-661.21	-360.15	1.58	-1.51	4.77
7,215.00	2.41	263.33	7,168.18	-368.31	-666.41	-362.37	2.97	-2.51	27.20
7,309.00	2.40	260.85	7,262.09	-368.85	-670.32	-362.87	0.11	-0.01	-2.64
7,402.00	1.97	261.23	7,355.03	-369.41	-673.82	-363.40	0.46	-0.46	0.41
7,496.00	1.18	261.62	7,448.99	-369.80	-676.37	-363.76	0.84	-0.84	0.41
7,590.00	1.29	251.30	7,542.87	-370.28	-678.33	-364.22	0.26	0.12	-10.98
7,683.00	0.85	231.20	7,635.95	-371.04	-679.86	-364.98	0.62	-0.47	-21.61
7,777.00	0.79	150.82	7,729.94	-372.05	-680.09	-365.98	1.13	-0.06	-85.51
7,871.00	0.72	131.57	7,823.94	-373.00	-679.33	-366.94	0.28	-0.07	-20.48
7,964.00	0.44	161.53	7,916.93	-373.73	-678.78	-367.67	0.43	-0.30	32.22
8,058.00	0.38	155.38	8,010.93	-374.36	-678.54	-368.30	0.08	-0.06	-6.54
8,152.00	0.38	156.22	8,104.93	-374.92	-678.28	-368.87	0.01	0.00	0.89
8,245.00	0.15	12.18	8,197.93	-375.09	-678.13	-369.04	0.55	-0.25	-154.88
8,338.00	0.66	38.70	8,290.92	-374.55	-677.77	-368.50	0.57	0.55	28.52
8,432.00	0.58	70.16	8,384.92	-373.97	-676.99	-367.93	0.37	-0.09	33.47
8,526.00	0.54	92.93	8,478.91	-373.83	-676.10	-367.80	0.24	-0.04	24.22
8,619.00	0.58	66.39	8,571.91	-373.66	-675.23	-367.64	0.28	0.04	-28.54
8,713.00	0.68	27.95	8,665.91	-372.98	-674.53	-366.98	0.45	0.11	-40.89
8,806.00	0.51	94.76	8,758.90	-372.53	-673.86	-366.51	0.72	-0.18	71.84
8,900.00	0.73	70.77	8,852.90	-372.36	-672.88	-366.36	0.36	0.23	-25.52
8,993.00	1.01	56.50	8,945.89	-371.72	-671.63	-365.72	0.38	0.30	-15.34



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9,087.00	1.20	58.70	9,039.87	-370.75	-670.10	-364.77	0.21	0.20	2.34
9,181.00	1.27	41.88	9,133.85	-369.46	-668.57	-363.49	0.39	0.07	-17.89
9,275.00	1.72	33.27	9,227.81	-367.50	-667.10	-361.55	0.53	0.48	-9.16
9,368.00	1.75	12.44	9,320.77	-364.95	-666.02	-359.01	0.68	0.03	-22.40
9,461.00	1.42	346.06	9,413.74	-362.45	-666.00	-356.50	0.85	-0.35	-28.37
9,555.00	1.42	333.60	9,507.71	-360.27	-666.80	-354.32	0.33	0.00	-13.26
9,648.00	2.19	325.11	9,600.66	-357.78	-668.32	-351.82	0.87	0.83	-9.13
9,742.00	2.55	311.15	9,694.58	-354.93	-670.93	-348.95	0.72	0.38	-14.85
9,835.00	0.52	319.70	9,787.54	-353.25	-672.76	-347.25	2.19	-2.18	9.19
9,929.00	1.31	144.79	9,881.54	-353.80	-672.41	-347.80	1.95	0.84	-186.07
10,022.00	1.78	155.59	9,974.50	-355.99	-671.20	-350.00	0.59	0.51	11.61
10,116.00	1.83	109.25	10,068.47	-357.76	-669.34	-351.78	1.43	-0.16	-49.30
10,210.00	2.31	127.59	10,162.41	-359.35	-666.57	-353.41	0.98	0.72	19.51
10,302.00	3.84	135.78	10,254.28	-362.69	-662.96	-356.78	1.73	1.66	8.90
10,396.00	2.95	140.31	10,348.11	-366.81	-659.22	-360.93	0.99	-0.95	4.82
10,490.00	0.68	153.54	10,442.08	-369.17	-657.42	-363.30	2.44	-2.41	14.07
10,583.00	1.30	306.25	10,535.05	-369.04	-658.03	-363.17	2.07	0.67	164.20
10,677.00	1.09	312.70	10,629.03	-367.80	-659.54	-361.92	0.26	-0.22	6.86
10,770.00	0.79	318.64	10,722.02	-366.72	-660.62	-360.83	0.34	-0.32	6.39
10,864.00	0.70	304.78	10,816.01	-365.91	-661.52	-360.01	0.21	-0.10	-14.73
10,957.00	0.48	271.24	10,909.01	-365.58	-662.37	-359.67	0.43	-0.24	-36.08
11,051.00	1.34	258.62	11,002.99	-365.78	-663.85	-359.86	0.93	0.91	-13.43
11,145.00	3.37	258.00	11,096.91	-366.58	-667.63	-360.62	2.16	2.16	-0.66
11,238.00	2.64	255.79	11,189.78	-367.67	-672.38	-361.67	0.79	-0.78	-2.38
11,331.00	3.35	249.68	11,282.65	-369.14	-677.00	-363.10	0.84	0.76	-6.59
11,425.00	0.97	164.08	11,376.59	-370.88	-679.38	-364.80	3.63	-2.53	-91.04
11,519.00	0.68	133.85	11,470.58	-372.01	-678.74	-365.96	0.55	-0.31	-32.16
11,612.00	0.38	212.99	11,563.58	-372.65	-678.51	-366.60	0.77	-0.32	85.10
11,706.00	0.87	258.89	11,657.58	-373.05	-679.38	-366.99	0.71	0.52	48.83
11,800.00	1.10	268.59	11,751.58	-373.21	-680.98	-367.14	0.30	0.24	10.32
11,893.00	1.59	259.38	11,844.54	-373.47	-683.14	-367.38	0.57	0.53	-9.90
11,987.00	1.44	246.59	11,938.50	-374.18	-685.51	-368.08	0.39	-0.16	-13.61
12,080.00	0.97	227.69	12,031.48	-375.18	-687.16	-369.04	0.66	-0.51	-20.32
12,182.00	1.27	319.35	12,133.47	-374.90	-688.54	-368.76	1.59	0.29	89.86
12,229.00	5.40	343.50	12,180.38	-372.38	-689.50	-366.23	9.09	8.79	51.38
12,276.00	8.84	349.75	12,227.01	-366.71	-690.77	-360.54	7.49	7.32	13.30
12,323.00	11.34	350.84	12,273.28	-358.59	-692.15	-352.41	5.33	5.32	2.32
12,370.00	15.15	0.17	12,319.03	-347.88	-692.87	-341.70	9.27	8.11	19.85
12,416.00	21.56	0.92	12,362.67	-333.40	-692.72	-327.22	13.94	13.93	1.63
12,464.00	26.33	4.84	12,406.53	-313.97	-691.68	-307.80	10.47	9.94	8.17
12,511.00	32.04	8.70	12,447.55	-291.24	-688.91	-285.09	12.79	12.15	8.21
12,557.00	36.38	5.79	12,485.58	-265.59	-685.68	-259.47	10.08	9.43	-6.33
12,604.00	42.57	3.83	12,521.84	-235.83	-683.21	-229.74	13.43	13.17	-4.17
12,651.00	47.83	2.60	12,554.95	-202.54	-681.36	-198.47	11.34	11.19	-2.62



Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Leslie Fed Com
Well: 203H
Wellbore: OH
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 203H
TVD Reference: RKB @ 3285.50usft (Patterson 297)
MD Reference: RKB @ 3285.50usft (Patterson 297)
North Reference: Grid
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)
12,698.00	54.12	1.53	12,584.53	-166.07	-680.06	-160.01	13.50	13.38	-2.28
12,744.00	59.66	0.74	12,609.65	-127.56	-679.31	-121.51	12.13	12.04	-1.72
12,791.00	65.30	358.21	12,631.36	-85.91	-679.71	-79.85	12.91	12.00	-5.38
12,885.00	75.55	356.29	12,662.81	2.43	-684.00	8.52	11.07	10.90	-2.04
12,932.00	79.78	355.57	12,672.85	48.22	-687.26	54.34	9.12	9.00	-1.53
12,979.00	86.22	355.98	12,678.58	94.72	-690.70	100.87	13.73	13.70	0.87
13,026.00	92.41	356.16	12,679.14	141.58	-693.92	147.76	13.18	13.17	0.38
13,121.00	93.42	356.84	12,674.31	236.28	-699.71	242.50	1.28	1.06	0.72
13,215.00	94.20	357.01	12,668.06	329.94	-704.74	336.20	0.85	0.83	0.18
13,310.00	94.71	357.09	12,660.68	424.53	-709.61	430.83	0.54	0.54	0.08
13,405.00	93.86	358.18	12,653.58	519.18	-713.52	525.51	1.45	-0.89	1.15
13,500.00	93.72	0.16	12,647.30	613.96	-714.90	620.29	2.08	-0.15	2.08
13,594.00	92.52	359.70	12,642.19	707.81	-715.01	714.15	1.37	-1.28	-0.49
13,689.00	91.54	2.35	12,638.82	802.73	-713.31	809.05	2.97	-1.03	2.79
13,784.00	91.34	3.34	12,636.43	897.58	-708.60	903.85	1.06	-0.21	1.04
13,879.00	91.90	1.68	12,633.75	992.45	-704.44	998.68	1.84	0.59	-1.75
13,974.00	91.85	2.20	12,630.64	1,087.34	-701.22	1,093.54	0.55	-0.05	0.55
14,069.00	91.79	1.51	12,627.62	1,182.24	-698.15	1,188.41	0.73	-0.06	-0.73
14,163.00	94.14	1.54	12,622.76	1,276.08	-695.65	1,282.22	2.50	2.50	0.03
14,258.00	94.48	1.85	12,615.62	1,370.77	-692.85	1,376.88	0.48	0.36	0.33
14,353.00	95.02	2.30	12,607.75	1,465.38	-689.42	1,471.46	0.74	0.57	0.47
14,447.00	93.41	3.15	12,600.85	1,559.02	-684.97	1,565.05	1.94	-1.71	0.90
14,542.00	88.15	2.11	12,599.55	1,653.87	-680.61	1,659.86	5.64	-5.54	-1.09
14,637.00	88.74	357.96	12,602.13	1,748.82	-680.55	1,754.80	4.41	0.62	-4.37
14,731.00	89.13	356.01	12,603.88	1,842.66	-685.49	1,848.69	2.12	0.41	-2.07
14,826.00	89.75	354.90	12,604.81	1,937.36	-693.02	1,943.45	1.34	0.65	-1.17
14,921.00	88.82	355.52	12,605.99	2,032.02	-700.95	2,038.18	1.18	-0.98	0.65
15,015.00	90.92	356.81	12,606.21	2,125.79	-707.40	2,132.00	2.52	2.23	1.16
15,110.00	92.13	358.70	12,603.68	2,220.67	-711.29	2,226.91	2.54	1.27	2.20
15,205.00	92.80	358.67	12,599.59	2,315.56	-713.47	2,321.82	0.71	0.71	-0.03
15,300.00	92.68	358.67	12,595.07	2,410.42	-715.67	2,416.70	0.15	-0.15	0.00
15,394.00	92.91	1.07	12,590.50	2,504.30	-715.88	2,510.58	2.56	0.27	2.55
15,489.00	91.43	1.90	12,586.90	2,599.20	-713.42	2,605.45	1.79	-1.56	0.87
15,584.00	92.15	3.03	12,583.93	2,694.08	-709.34	2,700.27	1.41	0.78	1.19
15,678.00	92.55	3.68	12,580.08	2,787.82	-703.84	2,793.98	0.81	0.43	0.69
15,773.00	89.61	3.87	12,578.29	2,882.59	-697.59	2,888.69	3.10	-3.09	0.20
15,869.00	88.57	2.48	12,579.81	2,978.43	-692.27	2,984.47	1.81	-1.08	-1.45
15,964.00	92.52	4.47	12,578.91	3,073.23	-686.52	3,079.21	4.66	4.16	2.09
16,058.00	90.34	2.79	12,576.56	3,167.00	-680.57	3,172.93	2.93	-2.32	-1.79
16,154.00	93.08	3.54	12,573.70	3,262.80	-675.27	3,268.68	2.96	2.85	0.78
16,248.00	89.50	3.10	12,571.58	3,356.60	-669.83	3,362.43	3.84	-3.81	-0.47
16,343.00	90.70	0.23	12,571.42	3,451.55	-667.07	3,457.35	3.27	1.26	-3.02
16,437.00	91.09	358.26	12,569.95	3,545.53	-668.31	3,551.33	2.14	0.41	-2.10



Survey Report



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Site: Leslie Fed Com
Well: 203H
Wellbore: OH
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 203H
TVD Reference: RKB @ 3285.50usft (Patterson 297)
MD Reference: RKB @ 3285.50usft (Patterson 297)
North Reference: Grid
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)
16,532.00	92.43	356.81	12,567.03	3,640.39	-672.39	3,646.23	2.08	1.41	-1.53
16,628.00	89.55	355.63	12,565.37	3,736.15	-678.72	3,742.05	3.24	-3.00	-1.23
16,722.00	89.52	357.13	12,566.14	3,829.96	-684.66	3,835.90	1.60	-0.03	1.60
16,818.00	88.26	356.78	12,568.00	3,925.80	-689.75	3,931.79	1.36	-1.31	-0.38
16,913.00	87.43	354.48	12,571.57	4,020.45	-696.99	4,026.50	2.57	-0.87	-2.42
17,008.00	90.67	357.21	12,572.98	4,115.17	-703.67	4,121.27	4.62	3.62	2.87
17,103.00	88.43	355.85	12,573.56	4,209.99	-709.62	4,216.14	2.94	-2.57	-1.43
17,197.00	87.93	356.00	12,576.54	4,303.70	-716.29	4,309.91	0.56	-0.53	0.16
17,292.00	89.80	352.14	12,578.43	4,398.15	-726.10	4,404.44	4.51	1.97	-4.06
17,388.00	90.62	352.80	12,578.07	4,493.32	-738.68	4,499.72	1.10	0.85	0.69
17,483.00	90.08	354.24	12,577.49	4,587.71	-749.41	4,594.20	1.82	-0.57	1.52
17,578.00	88.43	354.61	12,578.73	4,682.25	-758.63	4,688.82	1.78	-1.74	0.39
17,673.00	88.57	354.27	12,581.22	4,776.77	-767.83	4,783.42	0.39	0.15	-0.36
17,701.00	89.47	354.56	12,581.70	4,804.63	-770.56	4,811.30	3.38	3.21	1.04
Final Phoenix MWD Survey									
17,760.00	89.47	354.56	12,582.24	4,863.36	-776.15	4,870.08	0.00	0.00	0.00
Projection to TD									