



PHOENIX
TECHNOLOGY SERVICES

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DISTRICT II-ARTESIA O.C.D.

Matador Resources

Eddy County, NM (NAD27 NME)
Larry Wolfish 01-23S-27E RB
204H

OH / 64293

Survey: Phoenix MWD Surveys

Standard Survey Report

11 March, 2019

30-015 - 45269



Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3098.00usft (Patterson 813)
Site:	Larry Wolfish 01-23S-27E RB	MD Reference:	RKB @ 3098.00usft (Patterson 813)
Well:	204H	North Reference:	Grid
Wellbore:	OH / 64293	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	Database:	USA Compass.

Project:	Eddy County, NM (NAD27 NME)		
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		Larry Wolfish 01-23S-27E RB			
Site Position:		Northing:	488,883.00 usft	Latitude:	32° 20' 38.04821 N
From:	Map	Easting:	560,641.00 usft	Longitude:	104° 8' 13.11941 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well:	204H					
Well Position	+N/-S	0.00 usft	Northing:	488,883.00 usft	Latitude:	32° 20' 38.04821 N
	+E/-W	0.00 usft	Easting:	560,641.00 usft	Longitude:	104° 8' 13.11941 W
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,069.00 usft

Wellbore:	OH / 64293
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	2/20/2019	7.25	60.09	47,924.37927619

Design:	Surveys (Patterson 813)
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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	180.55

Survey Program	Date: 3/11/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
96.00	14,481.00	Phoenix MWD Surveys (OH / 64293)	MWD+HRGM	OWSG MWD + HRGM

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)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	96.00	0.42	219.82	96.00	-0.27	-0.23	0.27	0.44	0.44	0.00
First Phoenix MWD Survey										
	188.00	0.72	275.59	188.00	-0.47	-1.02	0.48	0.65	0.33	60.62
	279.00	1.03	277.31	278.98	-0.31	-2.40	0.34	0.34	0.34	1.89
	324.00	1.09	261.06	323.98	-0.33	-3.22	0.36	0.68	0.13	-36.11
	494.00	1.26	228.27	493.94	-1.82	-6.21	1.88	0.40	0.10	-19.29
	585.00	1.05	195.25	584.93	-3.29	-7.18	3.36	0.75	-0.23	-36.29
	676.00	0.98	194.23	675.91	-4.85	-7.59	4.93	0.08	-0.08	-1.12
	767.00	1.04	233.15	766.90	-6.10	-8.44	6.18	0.74	0.07	42.77
	858.00	1.18	236.22	857.88	-7.12	-9.88	7.21	0.17	0.15	3.37

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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)
952.00	1.37	179.32	951.86	-8.78	-10.67	8.88	1.30	0.20	-60.53
1,046.00	1.96	183.49	1,045.82	-11.51	-10.76	11.61	0.64	0.63	4.44
1,139.00	1.69	163.27	1,138.77	-14.41	-10.46	14.51	0.75	-0.29	-21.74
1,233.00	4.45	126.44	1,232.64	-17.90	-7.13	17.97	3.47	2.94	-39.18
1,327.00	4.72	130.09	1,326.34	-22.56	-1.23	22.57	0.42	0.29	3.88
1,421.00	6.03	122.10	1,419.92	-27.68	5.91	27.62	1.60	1.39	-8.50
1,515.00	9.03	121.52	1,513.10	-34.16	16.38	34.00	3.19	3.19	-0.62
1,609.00	10.69	119.89	1,605.71	-42.36	30.23	42.06	1.79	1.77	-1.73
1,703.00	9.12	127.61	1,698.31	-51.25	43.69	50.83	2.18	-1.67	8.21
1,797.00	9.25	139.10	1,791.11	-61.51	54.54	60.98	1.95	0.14	12.22
1,892.00	9.92	140.98	1,884.79	-73.64	64.69	73.01	0.78	0.71	1.98
1,987.00	9.84	135.10	1,978.38	-85.75	75.57	85.01	1.06	-0.08	-6.19
2,082.00	9.34	135.60	2,072.05	-97.00	86.70	96.16	0.53	-0.53	0.53
2,177.00	8.70	131.56	2,165.88	-107.28	97.47	106.33	0.95	-0.67	-4.25
2,271.00	7.46	133.62	2,258.94	-116.20	107.20	115.16	1.35	-1.32	2.19
2,350.00	6.32	131.95	2,337.37	-122.65	114.15	121.54	1.47	-1.44	-2.11
2,517.00	5.79	129.95	2,503.44	-134.20	127.45	132.96	0.34	-0.32	-1.20
2,611.00	7.56	146.55	2,596.81	-142.41	134.49	141.10	2.77	1.88	17.66
2,705.00	9.88	147.80	2,689.71	-154.39	142.20	153.01	2.48	2.47	1.33
2,799.00	10.27	148.27	2,782.26	-168.34	150.90	166.88	0.42	0.41	0.50
2,893.00	10.11	140.45	2,874.79	-181.83	160.56	180.27	1.48	-0.17	-8.32
2,987.00	9.92	139.10	2,967.35	-194.31	171.12	192.65	0.32	-0.20	-1.44
3,081.00	9.41	141.37	3,060.02	-206.44	181.22	204.68	0.68	-0.54	2.41
3,175.00	8.34	139.52	3,152.89	-217.63	190.44	215.77	1.18	-1.14	-1.97
3,269.00	7.80	138.70	3,245.96	-227.60	199.07	225.67	0.59	-0.57	-0.87
3,364.00	7.51	139.42	3,340.12	-237.16	207.37	235.15	0.32	-0.31	0.76
3,459.00	7.47	139.00	3,434.30	-246.54	215.46	244.44	0.07	-0.04	-0.44
3,553.00	8.90	136.83	3,527.34	-256.45	224.44	254.27	1.56	1.52	-2.31
3,648.00	9.15	138.42	3,621.17	-267.46	234.48	265.18	0.37	0.26	1.67
3,742.00	8.32	137.91	3,714.08	-278.10	244.00	275.73	0.89	-0.88	-0.54
3,837.00	8.30	136.86	3,808.08	-288.21	253.30	285.74	0.16	-0.02	-1.11
3,932.00	8.46	138.47	3,902.07	-298.44	262.62	295.89	0.30	0.17	1.69
4,026.00	8.51	139.45	3,995.04	-308.90	271.72	306.26	0.16	0.05	1.04
4,120.00	8.65	138.63	4,087.99	-319.49	280.92	316.76	0.20	0.15	-0.57
4,215.00	8.58	139.97	4,181.91	-330.28	290.20	327.46	0.22	-0.07	1.41
4,309.00	7.63	140.97	4,274.97	-340.50	298.64	337.59	1.02	-1.01	1.06
4,402.00	6.89	143.01	4,367.23	-349.75	305.88	346.77	0.84	-0.80	2.19
4,496.00	6.21	143.96	4,460.61	-358.36	312.27	355.32	0.73	-0.72	1.01
4,590.00	6.30	137.74	4,554.06	-366.29	318.73	363.19	0.73	0.10	-6.62
4,684.00	6.98	138.95	4,647.42	-374.41	325.95	371.24	0.74	0.72	1.29
4,778.00	8.25	142.09	4,740.59	-384.04	333.84	380.80	1.42	1.35	3.34
4,873.00	8.56	145.57	4,834.57	-395.25	342.03	391.93	0.63	0.33	3.66
4,968.00	8.41	144.95	4,928.53	-406.77	350.01	403.37	0.18	-0.16	-0.65

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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)
5,062.00	7.42	145.76	5,021.64	-417.42	357.38	413.94	1.06	-1.05	0.86
5,157.00	7.81	137.06	5,115.80	-427.21	365.22	423.66	1.28	0.41	-9.16
5,252.00	7.57	131.16	5,209.95	-436.06	374.33	432.42	0.87	-0.25	-6.21
5,346.00	7.18	133.32	5,303.17	-444.16	383.27	440.43	0.51	-0.41	2.30
5,440.00	6.48	132.27	5,396.50	-451.76	391.47	447.95	0.76	-0.74	-1.12
5,535.00	6.10	133.25	5,490.93	-458.83	399.11	454.94	0.42	-0.40	1.03
5,629.00	5.55	131.70	5,584.45	-465.27	406.14	461.32	0.61	-0.59	-1.65
5,724.00	5.28	129.86	5,679.02	-471.13	412.93	467.11	0.34	-0.28	-1.94
5,819.00	5.27	130.23	5,773.62	-476.75	419.61	472.67	0.04	-0.01	0.39
5,914.00	4.52	143.08	5,868.28	-482.56	425.19	478.42	1.39	-0.79	13.53
6,007.00	4.42	136.64	5,960.99	-488.09	429.86	483.91	0.55	-0.11	-6.92
6,101.00	3.85	137.14	6,054.75	-493.04	434.49	488.82	0.61	-0.61	0.53
6,195.00	3.68	137.83	6,148.55	-497.59	438.66	493.32	0.19	-0.18	0.73
6,288.00	3.54	148.46	6,241.36	-502.25	442.17	497.95	0.73	-0.15	11.43
6,382.00	3.11	147.06	6,335.20	-506.86	445.07	502.53	0.47	-0.46	-1.49
6,475.00	3.80	150.31	6,428.03	-511.66	447.97	507.30	0.77	0.74	3.49
6,569.00	1.50	137.51	6,521.93	-515.27	450.34	510.89	2.51	-2.45	-13.62
6,663.00	1.76	38.73	6,615.90	-515.05	452.08	510.65	2.64	0.28	-105.09
6,759.00	2.40	37.85	6,711.84	-512.31	454.23	507.90	0.67	0.67	-0.92
6,851.00	1.77	26.94	6,803.78	-509.53	456.06	505.09	0.81	-0.68	-11.86
6,948.00	1.36	21.11	6,900.74	-507.12	457.15	502.67	0.45	-0.42	-6.01
7,041.00	1.04	38.60	6,993.72	-505.43	458.08	500.97	0.52	-0.34	18.81
7,138.00	0.58	84.06	7,090.71	-504.69	459.11	500.22	0.78	-0.47	46.87
7,233.00	0.54	132.28	7,185.71	-504.94	459.92	500.47	0.48	-0.04	50.76
7,327.00	1.27	85.76	7,279.70	-505.16	461.29	500.68	1.04	0.78	-49.49
7,422.00	1.74	47.90	7,374.67	-504.12	463.41	499.61	1.13	0.49	-39.85
7,516.00	0.46	5.49	7,468.65	-502.78	464.51	498.27	1.53	-1.36	-45.12
7,611.00	0.98	175.22	7,563.65	-503.21	464.61	498.70	1.51	0.55	178.66
7,705.00	1.21	167.92	7,657.63	-504.99	464.88	500.47	0.29	0.24	-7.77
7,798.00	0.52	182.77	7,750.62	-506.37	465.07	501.85	0.77	-0.74	15.97
7,892.00	1.03	290.68	7,844.61	-506.50	464.26	501.98	1.37	0.54	114.80
7,985.00	1.61	272.35	7,937.59	-506.15	462.17	501.65	0.76	0.62	-19.71
8,080.00	1.91	271.29	8,032.54	-506.06	459.25	501.59	0.32	0.32	-1.12
8,174.00	1.63	244.13	8,126.50	-506.60	456.49	502.17	0.93	-0.30	-28.03
8,268.00	1.55	218.64	8,220.46	-508.18	454.49	503.76	0.75	-0.09	-27.12
8,363.00	2.36	202.82	8,315.41	-510.99	452.93	506.58	1.02	0.85	-16.65
8,457.00	2.22	202.85	8,409.33	-514.45	451.47	510.06	0.15	-0.15	0.03
8,552.00	2.44	201.31	8,504.26	-518.03	450.02	513.65	0.24	0.23	-1.62
8,646.00	2.77	192.50	8,598.16	-522.11	448.80	517.74	0.55	0.35	-9.37
8,666.00	2.77	193.58	8,618.14	-523.05	448.58	518.69	0.26	0.00	5.40
8,871.00	9.04	189.43	8,821.95	-543.77	444.78	539.45	3.06	3.06	-2.02
8,919.00	14.74	183.79	8,868.90	-553.60	443.76	549.28	12.11	11.88	-11.75
8,965.00	17.59	186.80	8,913.08	-566.34	442.55	562.03	6.46	6.20	6.54

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9,012.00	21.80	184.81	8,957.32	-582.10	440.97	577.80	9.07	8.96	-4.23	
9,059.00	25.56	184.55	9,000.35	-600.91	439.44	596.63	8.00	8.00	-0.55	
9,154.00	34.96	177.03	9,082.35	-648.64	439.22	644.36	10.65	9.89	-7.92	
9,248.00	46.32	169.64	9,153.60	-709.21	446.76	704.85	13.11	12.09	-7.86	
9,295.00	52.28	171.42	9,184.24	-744.34	452.59	739.93	13.00	12.68	3.79	
9,343.00	57.07	175.44	9,211.99	-783.22	457.03	778.77	12.09	9.98	8.38	
9,390.00	61.68	176.43	9,235.93	-823.56	459.89	819.07	9.97	9.81	2.11	
9,437.00	65.88	180.28	9,256.69	-865.68	461.07	861.18	11.57	8.94	8.19	
9,485.00	69.55	181.11	9,274.89	-910.09	460.53	905.59	7.81	7.65	1.73	
9,525.00	75.32	182.00	9,286.96	-948.19	459.49	943.70	14.58	14.43	2.23	
9,600.00	82.59	181.59	9,301.32	-1,021.72	457.19	1,017.25	9.71	9.69	-0.55	
9,663.00	82.79	182.18	9,309.33	-1,084.17	455.13	1,079.72	0.98	0.32	0.94	
9,734.00	84.24	182.49	9,317.35	-1,154.65	452.26	1,150.23	2.09	2.04	0.44	
HL: 9734' MD										
9,758.00	84.73	182.60	9,319.66	-1,178.52	451.19	1,174.10	2.09	2.04	0.44	
9,852.00	83.72	181.41	9,329.12	-1,271.98	447.92	1,267.59	1.66	-1.07	-1.27	
9,946.00	84.82	181.65	9,338.50	-1,365.48	445.42	1,361.11	1.20	1.17	0.26	
10,041.00	87.59	180.35	9,344.79	-1,460.24	443.77	1,455.88	3.22	2.92	-1.37	
10,135.00	92.57	180.09	9,344.66	-1,554.21	443.41	1,549.85	5.31	5.30	-0.28	
10,229.00	88.80	176.80	9,343.53	-1,648.14	445.96	1,643.75	5.32	-4.01	-3.50	
10,323.00	89.74	177.56	9,344.73	-1,742.02	450.59	1,737.58	1.29	1.00	0.81	
10,418.00	90.70	177.57	9,344.37	-1,836.93	454.62	1,832.45	1.01	1.01	0.01	
10,513.00	92.69	177.59	9,341.56	-1,931.80	458.63	1,927.27	2.09	2.09	0.02	
10,607.00	92.57	179.27	9,337.24	-2,025.66	461.20	2,021.11	1.79	-0.13	1.79	
10,701.00	91.31	179.38	9,334.06	-2,119.60	462.31	2,115.03	1.35	-1.34	0.12	
10,796.00	88.91	178.42	9,333.88	-2,214.57	464.13	2,209.98	2.72	-2.53	-1.01	
10,890.00	91.57	179.53	9,333.49	-2,308.55	465.82	2,303.94	3.07	2.83	1.18	
10,984.00	91.87	180.81	9,330.66	-2,402.50	465.54	2,397.89	1.40	0.32	1.36	
11,078.00	89.36	179.72	9,329.66	-2,496.49	465.10	2,491.87	2.91	-2.67	-1.16	
11,173.00	90.03	180.45	9,330.16	-2,591.49	464.96	2,586.87	1.04	0.71	0.77	
11,267.00	90.81	179.11	9,329.47	-2,685.48	465.32	2,680.85	1.65	0.83	-1.43	
11,362.00	91.54	180.91	9,327.52	-2,780.46	465.31	2,775.82	2.04	0.77	1.89	
11,456.00	92.18	181.43	9,324.47	-2,874.39	463.39	2,869.77	0.88	0.68	0.55	
11,550.00	89.19	180.77	9,323.35	-2,968.35	461.58	2,963.75	3.26	-3.18	-0.70	
11,644.00	90.64	182.24	9,323.49	-3,062.31	459.12	3,057.73	2.20	1.54	1.56	
11,738.00	91.76	183.07	9,321.52	-3,156.19	454.76	3,151.64	1.48	1.19	0.88	
11,833.00	90.84	183.31	9,319.37	-3,251.02	449.48	3,246.52	1.00	-0.97	0.25	
11,928.00	90.39	183.42	9,318.35	-3,345.85	443.90	3,341.40	0.49	-0.47	0.12	
12,023.00	89.75	184.20	9,318.23	-3,440.64	437.59	3,436.24	1.06	-0.67	0.82	
12,117.00	89.36	184.34	9,318.96	-3,534.37	430.59	3,530.04	0.44	-0.41	0.15	
12,211.00	89.38	183.84	9,319.99	-3,628.13	423.89	3,623.86	0.53	0.02	-0.53	
12,306.00	89.97	184.85	9,320.53	-3,722.85	416.69	3,718.65	1.23	0.62	1.06	
12,400.00	90.64	186.05	9,320.03	-3,816.42	407.76	3,812.30	1.46	0.71	1.28	
12,495.00	90.62	186.79	9,318.99	-3,910.82	397.14	3,906.79	0.78	-0.02	0.78	

Company:	Matador Resources	Local Co-ordinate Reference:	Well 204H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3098.00usft (Patterson 813)
Site:	Larry Wolfish 01-23S-27E RB	MD Reference:	RKB @ 3098.00usft (Patterson 813)
Well:	204H	North Reference:	Grid
Wellbore:	OH / 64293	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	Database:	USA Compass

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)
12,589.00	89.05	186.58	9,319.26	-4,004.18	386.20	4,000.25	1.69	-1.67	-0.22
12,684.00	87.76	185.96	9,321.90	-4,098.57	375.83	4,094.74	1.51	-1.36	-0.65
12,778.00	90.42	186.09	9,323.39	-4,192.03	365.96	4,188.29	2.83	2.83	0.14
12,872.00	88.60	182.39	9,324.20	-4,285.75	359.01	4,282.08	4.39	-1.94	-3.94
12,967.00	86.59	179.91	9,328.19	-4,380.63	357.11	4,376.97	3.36	-2.12	-2.61
13,061.00	89.67	179.41	9,331.25	-4,474.57	357.66	4,470.90	3.32	3.28	-0.53
13,155.00	85.86	176.75	9,334.92	-4,568.42	360.81	4,564.72	4.94	-4.05	-2.83
13,249.00	87.20	176.05	9,340.61	-4,662.06	366.70	4,658.30	1.61	1.43	-0.74
13,344.00	86.92	176.03	9,345.48	-4,756.71	373.25	4,752.88	0.30	-0.29	-0.02
13,438.00	86.84	176.05	9,350.60	-4,850.35	379.73	4,846.45	0.09	-0.09	0.02
13,533.00	91.06	173.40	9,352.34	-4,944.90	388.47	4,940.91	5.24	4.44	-2.79
13,627.00	93.86	174.11	9,348.30	-5,038.24	398.68	5,034.15	3.07	2.98	0.76
13,722.00	93.61	175.30	9,342.11	-5,132.64	407.43	5,128.45	1.28	-0.26	1.25
13,816.00	94.98	176.20	9,335.07	-5,226.11	414.38	5,221.86	1.74	1.46	0.96
13,911.00	93.70	177.23	9,327.89	-5,320.68	419.80	5,316.37	1.73	-1.35	1.08
14,005.00	93.08	179.32	9,322.33	-5,414.47	422.63	5,410.13	2.32	-0.66	2.22
14,100.00	87.74	179.05	9,321.65	-5,509.42	423.98	5,505.06	5.63	-5.62	-0.28
14,194.00	89.08	178.39	9,324.25	-5,603.36	426.08	5,598.97	1.59	1.43	-0.70
14,289.00	88.18	177.74	9,326.53	-5,698.27	429.28	5,693.86	1.17	-0.95	-0.68
14,384.00	90.08	177.18	9,327.97	-5,793.17	433.49	5,788.70	2.09	2.00	-0.59
14,391.00	90.08	177.03	9,327.96	-5,800.16	433.85	5,795.69	2.16	0.03	-2.16
HL: 14391' MD									
14,415.00	90.09	176.51	9,327.92	-5,824.12	435.20	5,819.64	2.16	0.03	-2.16
Final Phoenix MWD Survey									
14,481.00	90.09	176.51	9,327.82	-5,890.00	439.22	5,885.47	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)	
96.00	96.00	-0.27	-0.23	First Phoenix MWD Survey
9,734.00	9,317.35	-1,154.65	452.26	HL: 9734' MD
14,391.00	9,327.96	-5,800.16	433.85	HL: 14391' MD
14,415.00	9,327.92	-5,824.12	435.20	Final Phoenix MWD Survey
14,481.00	9,327.82	-5,890.00	439.22	Projection to TD