

Premier Directional Drilling

Survey Report

30-015- 24024

Company:	MATADOR RESOURCES	Local Co-ordinate Reference:	Well #204H - Slot 204H
Project:	Eddy County, New Mexico	TVD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Site:	Charlie Sweeney Fed Com #204H, #208H, #228H	MD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Well:	#204H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 5000 14 Multi User

Project	Eddy County, New Mexico	NM OIL CONSERVATION ARTESIA DISTRICT	
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		

MAR 12 2018

Site		Charlie Sweeney Fed Com #204H, #208H, #228H, centered on 208			RECEIVED			
Site Position:		Northing:		456,419.03 usft	Latitude:		32° 15' 16.68 N	
From:		Map	Easting:		566,069.74 usft	Longitude:		104° 7' 10.59 W
Position Uncertainty:		0.00 usft	Slot Radius:		13.200 in	Grid Convergence:		0.11 °

Well	#204H - Slot 204H				
Well Position	+N/-S	0.00 usft	Northing:	456,418.98 usft	Latitude: 32° 15' 16.68 N
	+E/-W	0.00 usft	Easting:	566,009.69 usft	Longitude: 104° 7' 11.29 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level: 3,101.00 usft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/31/2017	7.33	60.07	48,087

Design	Lateral				
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	0.49	

Survey Program	Date 9/29/2017				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
134.00	12,380.00	Survey #2 (Lateral)	MWD+HRGM	OWSG MWD + HRGM	
12,476.00	12,476.00	Survey #3 (Lateral)	Projection	Projection to Bit	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.00	0.38	133.61	134.00	-0.31	0.32	-0.30	0.28	0.28	0.00
226.00	0.32	133.61	226.00	-0.69	0.73	-0.69	0.07	-0.07	0.00
283.00	0.44	20.39	283.00	-0.60	0.92	-0.59	1.12	0.21	-198.63
406.00	0.75	22.00	405.99	0.59	1.39	0.60	0.25	0.25	1.31
498.00	0.87	11.12	497.98	1.83	1.75	1.85	0.21	0.13	-11.83
591.00	1.96	310.47	590.96	3.56	0.67	3.56	1.84	1.17	-65.21
683.00	3.79	277.24	682.84	4.96	-3.54	4.93	2.61	1.99	-36.12
775.00	5.93	268.52	774.51	5.22	-11.31	5.13	2.45	2.33	-9.48

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Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 5000 14 Multi User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
869.00	7.61	264.96	867.85	4.55	-22.36	4.36	1.84	1.79	-3.79
963.00	7.45	265.21	961.04	3.50	-34.64	3.20	0.17	-0.17	0.27
1,058.00	6.82	266.81	1,055.30	2.67	-46.41	2.27	0.70	-0.66	1.68
1,152.00	6.06	258.85	1,148.71	1.40	-56.85	0.91	1.25	-0.81	-8.47
1,246.00	5.73	255.88	1,242.21	-0.71	-66.27	-1.27	0.48	-0.35	-3.16
1,340.00	6.17	256.23	1,335.71	-3.05	-75.72	-3.70	0.47	0.47	0.37
1,434.00	7.26	244.05	1,429.06	-6.86	-85.97	-7.59	1.90	1.16	-12.96
1,528.00	8.76	238.12	1,522.15	-13.24	-97.39	-14.07	1.82	1.60	-6.31
1,623.00	8.93	235.33	1,616.02	-21.25	-109.60	-22.19	0.49	0.18	-2.94
1,718.00	7.31	230.79	1,710.06	-29.27	-120.35	-30.29	1.83	-1.71	-4.78
1,812.00	7.80	237.30	1,803.25	-36.49	-130.35	-37.61	1.05	0.52	6.93
1,907.00	8.25	239.18	1,897.32	-43.47	-141.63	-44.68	0.55	0.47	1.98
2,000.00	6.18	231.60	1,989.58	-50.00	-151.28	-51.29	2.45	-2.23	-8.15
2,094.00	5.78	237.69	2,083.07	-55.67	-159.25	-57.03	0.80	-0.43	6.48
2,189.00	7.22	254.07	2,177.46	-59.86	-169.03	-61.31	2.46	1.52	17.24
2,283.00	7.14	257.84	2,270.73	-62.72	-180.42	-64.26	0.51	-0.09	4.01
2,378.00	7.20	261.24	2,364.98	-64.87	-192.08	-66.51	0.45	0.06	3.58
2,471.00	8.18	269.60	2,457.15	-65.80	-204.45	-67.55	1.60	1.05	8.99
2,566.00	7.92	270.09	2,551.21	-65.84	-217.76	-67.70	0.28	-0.27	0.52
2,661.00	7.85	270.57	2,645.31	-65.76	-230.79	-67.73	0.10	-0.07	0.51
2,755.00	7.40	271.15	2,738.48	-65.58	-243.26	-67.66	0.49	-0.48	0.62
2,849.00	6.79	272.04	2,831.76	-65.26	-254.87	-67.44	0.66	-0.65	0.95
2,942.00	8.09	270.67	2,923.98	-64.99	-266.90	-67.27	1.41	1.40	-1.47
3,035.00	8.26	272.43	3,016.03	-64.63	-280.12	-67.02	0.33	0.18	1.89
3,130.00	8.19	258.07	3,110.07	-65.74	-293.56	-68.24	2.16	-0.07	-15.12
3,224.00	7.87	256.14	3,203.14	-68.66	-306.36	-71.28	0.45	-0.34	-2.05
3,318.00	7.52	262.37	3,296.30	-71.02	-318.71	-73.74	0.96	-0.37	6.63
3,412.00	7.43	264.82	3,389.50	-72.39	-330.86	-75.21	0.35	-0.10	2.61
3,504.00	7.34	265.98	3,480.74	-73.33	-342.64	-76.26	0.19	-0.10	1.26
3,598.00	10.36	264.37	3,573.61	-74.58	-357.05	-77.64	3.22	3.21	-1.71
3,692.00	9.56	264.09	3,666.19	-76.22	-373.22	-79.41	0.85	-0.85	-0.30
3,786.00	8.86	263.33	3,758.98	-77.86	-388.18	-81.18	0.76	-0.74	-0.81
3,879.00	7.57	261.24	3,851.02	-79.63	-401.35	-83.06	1.42	-1.39	-2.25
3,973.00	8.70	260.03	3,944.07	-81.80	-414.47	-85.34	1.22	1.20	-1.29
4,066.00	9.86	257.66	4,035.86	-84.72	-429.17	-88.39	1.31	1.25	-2.55
4,161.00	10.15	258.50	4,129.41	-88.13	-445.32	-91.93	0.34	0.31	0.88
4,254.00	9.94	258.54	4,220.99	-91.36	-461.22	-95.30	0.23	-0.23	0.04
4,348.00	9.37	258.27	4,313.65	-94.52	-476.66	-98.60	0.61	-0.61	-0.29
4,442.00	9.27	257.32	4,406.41	-97.74	-491.54	-101.94	0.20	-0.11	-1.01
4,536.00	8.26	255.97	4,499.31	-101.04	-505.48	-105.36	1.10	-1.07	-1.44
4,631.00	7.67	254.75	4,593.40	-104.36	-518.22	-108.79	0.65	-0.62	-1.28
4,725.00	6.18	253.13	4,686.71	-107.48	-529.11	-112.00	1.60	-1.59	-1.72

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,819.00	5.22	251.77	4,780.24	-110.29	-538.02	-114.88	1.03	-1.02	-1.45
4,914.00	4.48	240.71	4,874.90	-113.45	-545.36	-118.11	1.25	-0.78	-11.64
5,008.00	5.01	249.19	4,968.58	-116.71	-552.39	-121.43	0.93	0.56	9.02
5,101.00	5.33	255.85	5,061.21	-119.21	-560.38	-123.99	0.73	0.34	7.16
5,196.00	5.28	261.95	5,155.80	-120.90	-568.99	-125.76	0.60	-0.05	6.42
5,290.00	5.09	260.30	5,249.41	-122.21	-577.38	-127.14	0.26	-0.20	-1.76
5,384.00	6.32	258.62	5,342.95	-123.93	-586.56	-128.94	1.32	1.31	-1.79
5,478.00	6.18	263.33	5,436.39	-125.54	-596.66	-130.64	0.57	-0.15	5.01
5,572.00	5.37	262.37	5,529.91	-126.71	-606.04	-131.89	0.87	-0.86	-1.02
5,666.00	4.87	261.39	5,623.54	-127.89	-614.35	-133.14	0.54	-0.53	-1.04
5,759.00	5.11	254.44	5,716.18	-129.59	-622.24	-134.91	0.70	0.26	-7.47
5,852.00	5.41	250.66	5,808.79	-132.16	-630.37	-137.54	0.49	0.32	-4.06
5,947.00	4.82	254.46	5,903.41	-134.71	-638.44	-140.16	0.72	-0.62	4.00
6,040.00	2.98	249.03	5,996.20	-136.62	-644.46	-142.13	2.02	-1.98	-5.84
6,134.00	2.07	228.76	6,090.10	-138.61	-648.02	-144.15	1.34	-0.97	-21.56
6,228.00	2.08	255.21	6,184.05	-140.17	-650.95	-145.73	1.01	0.01	28.14
6,322.00	1.87	264.06	6,277.99	-140.76	-654.12	-146.35	0.39	-0.22	9.41
6,416.00	1.35	271.26	6,371.95	-140.90	-656.75	-146.51	0.59	-0.55	7.66
6,510.00	1.13	251.55	6,465.93	-141.17	-658.74	-146.79	0.51	-0.23	-20.97
6,605.00	0.58	55.23	6,560.93	-141.19	-659.23	-146.82	1.78	-0.58	172.29
6,700.00	1.15	96.46	6,655.92	-141.02	-657.89	-146.64	0.85	0.60	43.40
6,794.00	1.25	64.46	6,749.90	-140.69	-656.03	-146.29	0.71	0.11	-34.04
6,888.00	0.30	295.44	6,843.89	-140.14	-655.33	-145.74	1.55	-1.01	-137.26
6,982.00	2.31	151.80	6,937.87	-141.70	-654.65	-147.30	2.72	2.14	-152.81
7,076.00	2.00	136.19	7,031.80	-144.56	-652.62	-150.13	0.70	-0.33	-16.61
7,169.00	2.67	228.82	7,124.75	-147.15	-653.13	-152.73	3.66	0.72	99.60
7,264.00	1.13	170.79	7,219.70	-149.54	-654.64	-155.13	2.40	-1.62	-61.08
7,358.00	0.30	138.74	7,313.69	-150.64	-654.33	-156.23	0.95	-0.88	-34.10
7,452.00	2.74	190.58	7,407.65	-153.03	-654.58	-158.62	2.73	2.60	55.15
7,544.00	2.84	129.41	7,499.56	-156.64	-653.23	-162.22	3.09	0.11	-66.49
7,638.00	1.11	74.27	7,593.51	-157.87	-650.55	-163.43	2.54	-1.84	-58.66
7,732.00	0.85	91.60	7,687.50	-157.64	-648.98	-163.19	0.42	-0.28	18.44
7,826.00	1.40	330.88	7,781.49	-156.66	-648.84	-162.20	2.10	0.59	-128.43
7,919.00	3.17	32.95	7,874.42	-153.51	-647.99	-159.04	3.01	1.90	66.74
8,012.00	1.82	349.62	7,967.34	-149.90	-646.86	-155.42	2.40	-1.45	-46.59
8,106.00	0.96	293.97	8,061.31	-148.11	-647.85	-153.64	1.60	-0.91	-59.20
8,200.00	0.81	211.55	8,155.30	-148.36	-648.92	-153.90	1.25	-0.16	-87.68
8,293.00	0.39	181.30	8,248.30	-149.23	-649.27	-154.78	0.55	-0.45	-32.53
8,388.00	1.86	18.78	8,343.29	-148.10	-648.78	-153.64	2.35	1.55	-171.07
8,482.00	1.91	331.39	8,437.24	-145.28	-649.04	-150.82	1.61	0.05	-50.41
8,576.00	1.98	66.24	8,531.21	-143.25	-648.30	-148.78	3.05	0.07	100.90
8,709.00	0.47	224.57	8,664.18	-142.71	-646.58	-148.23	1.82	-1.14	119.04
8,803.00	0.47	214.07	8,758.18	-143.30	-647.07	-148.83	0.09	0.00	-11.17

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Well:	#204H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	EDM 5000 14 Multi User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,896.00	0.48	236.85	8,851.18	-143.83	-647.61	-149.36	0.20	0.01	24.49
8,991.00	1.27	307.06	8,946.17	-143.41	-648.78	-148.96	1.26	0.83	73.91
9,084.00	11.07	1.53	9,038.54	-133.84	-649.37	-139.39	11.16	10.54	58.57
9,178.00	22.18	356.78	9,128.48	-107.02	-650.12	-112.58	11.90	11.82	-5.05
9,271.00	34.05	357.97	9,210.36	-63.32	-652.04	-68.89	12.78	12.76	1.28
9,365.00	41.19	0.19	9,284.77	-5.99	-652.87	-11.57	7.73	7.60	2.36
9,459.00	45.93	1.64	9,352.87	58.76	-651.80	53.18	5.15	5.04	1.54
9,553.00	54.28	359.73	9,413.11	130.80	-651.01	125.23	9.02	8.88	-2.03
9,648.00	59.78	359.32	9,464.79	210.47	-651.68	204.89	5.80	5.79	-0.43
9,741.00	63.56	356.01	9,508.92	292.23	-655.06	286.62	5.13	4.06	-3.56
9,835.00	68.72	3.78	9,546.98	378.08	-655.10	372.46	9.34	5.49	8.27
9,929.00	74.52	4.72	9,576.61	467.00	-648.48	461.44	6.24	6.17	1.00
10,024.00	81.92	3.53	9,595.99	559.69	-641.81	554.18	7.89	7.79	-1.25
10,118.00	92.77	358.98	9,600.34	653.40	-639.77	647.91	12.51	11.54	-4.84
10,212.00	91.26	357.61	9,597.04	747.30	-642.57	741.78	2.17	-1.61	-1.46
10,306.00	93.05	358.32	9,593.50	841.17	-645.90	835.61	2.05	1.90	0.76
10,401.00	90.81	358.47	9,590.30	936.07	-648.56	930.49	2.36	-2.36	0.16
10,495.00	93.64	358.55	9,586.65	1,029.96	-651.00	1,024.35	3.01	3.01	0.09
10,589.00	88.43	0.29	9,584.95	1,123.90	-651.95	1,118.29	5.84	-5.54	1.85
10,683.00	89.33	0.72	9,586.79	1,217.88	-651.12	1,212.27	1.06	0.96	0.46
10,777.00	89.62	0.98	9,587.65	1,311.87	-649.73	1,306.26	0.41	0.31	0.28
10,870.00	93.04	2.59	9,585.49	1,404.78	-646.84	1,399.20	4.06	3.68	1.73
10,965.00	92.50	2.74	9,580.90	1,499.56	-642.42	1,494.02	0.59	-0.57	0.16
11,059.00	92.91	3.99	9,576.47	1,593.30	-636.91	1,587.79	1.40	0.44	1.33
11,153.00	87.37	3.95	9,576.24	1,687.03	-630.41	1,681.58	5.89	-5.89	-0.04
11,247.00	87.88	4.15	9,580.13	1,780.72	-623.77	1,775.32	0.58	0.54	0.21
11,342.00	83.58	2.88	9,587.21	1,875.25	-617.96	1,869.90	4.72	-4.53	-1.34
11,435.00	84.74	359.14	9,596.67	1,967.74	-616.34	1,962.39	4.19	1.25	-4.02
11,530.00	85.14	358.22	9,605.05	2,062.34	-618.52	2,056.97	1.05	0.42	-0.97
11,624.00	93.87	357.28	9,605.86	2,156.17	-622.20	2,150.77	9.34	9.29	-1.00
11,719.00	93.15	356.05	9,600.05	2,250.83	-627.72	2,245.38	1.50	-0.76	-1.29
11,813.00	90.88	354.88	9,596.74	2,344.47	-635.15	2,338.95	2.72	-2.41	-1.24
11,907.00	90.86	354.83	9,595.31	2,438.08	-643.58	2,432.49	0.06	-0.02	-0.05
12,002.00	85.13	353.52	9,598.64	2,532.49	-653.21	2,526.81	6.19	-6.03	-1.38
12,097.00	91.78	354.15	9,601.20	2,626.85	-663.40	2,621.09	7.03	7.00	0.66
12,191.00	102.07	358.98	9,589.87	2,719.85	-669.02	2,714.02	12.07	10.95	5.14
12,285.00	98.98	5.37	9,572.68	2,812.13	-665.49	2,806.34	7.45	-3.29	6.80
12,380.00	95.11	6.24	9,561.04	2,905.91	-655.95	2,900.20	4.17	-4.07	0.92
12,476.00	91.00	2.00	9,555.92	3,001.49	-649.08	2,995.83	6.15	-4.28	-4.42

Premier Directional Drilling Survey Report

Company:	MATADOR RESOURCES	Local Co-ordinate Reference:	Well #204H - Slot 204H
Project:	Eddy County, New Mexico	TVD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Site:	Charlie Sweeney Fed Com #204H, #208H, #228H	MD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Well:	#204H	North Reference:	Grid
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	EDM 5000 14 Multi User

Project	Eddy County, New Mexico		
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	Charlie Sweeney Fed Com #204H, #208H, #228H, centered on 208			
Site Position:		Northing:	456,419.03 usft	Latitude: 32° 15' 16.68 N
From:	Map	Easting:	566,069.74 usft	Longitude: 104° 7' 10.59 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: 0.11 °

Well	#204H - Slot 204H			
Well Position	+N/-S	0.00 usft	Northing:	456,418.98 usft
	+E/-W	0.00 usft	Easting:	566,069.69 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	3,101.00 usft

Wellbore	Lateral 2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/17/2017	7.32	60.07	48,082

Design	Lateral 2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	11,530.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	352.52	

Survey Program	Date 9/29/2017				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
134.00	11,530.00	Survey #2 (Lateral)	MWD+HRGM	OWSG MWD + HRGM	
11,593.00	14,281.00	Survey #1 (Lateral 2)	MWD+HDGM	OWSG MWD + HDGM	
14,340.00	14,340.00	Survey #2 (Lateral 2)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
134.00	0.38	133.61	134.00	-0.31	0.32	-0.35	0.28	0.28	0.00	
226.00	0.32	133.61	226.00	-0.69	0.73	-0.78	0.07	-0.07	0.00	
283.00	0.44	20.39	283.00	-0.60	0.92	-0.71	1.12	0.21	-198.63	
406.00	0.75	22.00	405.99	0.59	1.39	0.40	0.25	0.25	1.31	
498.00	0.87	11.12	497.98	1.83	1.75	1.59	0.21	0.13	-11.83	
591.00	1.96	310.47	590.96	3.56	0.67	3.44	1.84	1.17	-65.21	
683.00	3.79	277.24	682.84	4.96	-3.54	5.38	2.61	1.99	-36.12	

Premier Directional Drilling Survey Report

Company:	MATADOR RESOURCES	Local Co-ordinate Reference:	Well #204H - Slot 204H
Project:	Eddy County, New Mexico	TVD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Site:	Charlie Sweeney Fed Com #204H, #208H, #228H	MD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Well:	#204H	North Reference:	Grid
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	EDM 5000 14 Multi User

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
775.00	5.93	268.52	774.51	5.22	-11.31	6.65	2.45	2.33	-9.48
869.00	7.61	264.96	867.85	4.55	-22.36	7.43	1.84	1.79	-3.79
963.00	7.45	265.21	961.04	3.50	-34.64	7.98	0.17	-0.17	0.27
1,058.00	6.82	266.81	1,055.30	2.67	-46.41	8.69	0.70	-0.66	1.68
1,152.00	6.06	258.85	1,148.71	1.40	-56.85	8.79	1.25	-0.81	-8.47
1,246.00	5.73	255.88	1,242.21	-0.71	-66.27	7.93	0.48	-0.35	-3.16
1,340.00	6.17	256.23	1,335.71	-3.05	-75.72	6.83	0.47	0.47	0.37
1,434.00	7.26	244.05	1,429.06	-6.86	-85.97	4.40	1.90	1.16	-12.96
1,528.00	8.76	238.12	1,522.15	-13.24	-97.39	-0.44	1.82	1.60	-6.31
1,623.00	8.93	235.33	1,616.02	-21.25	-109.60	-6.80	0.49	0.18	-2.94
1,718.00	7.31	230.79	1,710.06	-29.27	-120.35	-13.34	1.83	-1.71	-4.78
1,812.00	7.80	237.30	1,803.25	-36.49	-130.35	-19.21	1.05	0.52	6.93
1,907.00	8.25	239.18	1,897.32	-43.47	-141.63	-24.65	0.55	0.47	1.98
2,000.00	6.18	231.60	1,989.58	-50.00	-151.28	-29.87	2.45	-2.23	-8.15
2,094.00	5.78	237.69	2,083.07	-55.67	-159.25	-34.46	0.80	-0.43	6.48
2,189.00	7.22	254.07	2,177.46	-59.86	-169.03	-37.34	2.46	1.52	17.24
2,283.00	7.14	257.84	2,270.73	-62.72	-180.42	-38.69	0.51	-0.09	4.01
2,378.00	7.20	261.24	2,364.98	-64.87	-192.08	-39.30	0.45	0.06	3.58
2,471.00	8.18	269.60	2,457.15	-65.80	-204.45	-38.61	1.60	1.05	8.99
2,566.00	7.92	270.09	2,551.21	-65.84	-217.76	-36.92	0.28	-0.27	0.52
2,661.00	7.85	270.57	2,645.31	-65.76	-230.79	-35.15	0.10	-0.07	0.51
2,755.00	7.40	271.15	2,738.48	-65.58	-243.26	-33.34	0.49	-0.48	0.62
2,849.00	6.79	272.04	2,831.76	-65.26	-254.87	-31.51	0.66	-0.65	0.95
2,942.00	8.09	270.67	2,923.98	-64.99	-266.90	-29.67	1.41	1.40	-1.47
3,035.00	8.26	272.43	3,016.03	-64.63	-280.12	-27.59	0.33	0.18	1.89
3,130.00	8.19	258.07	3,110.07	-65.74	-293.56	-26.94	2.16	-0.07	-15.12
3,224.00	7.87	256.14	3,203.14	-68.66	-306.36	-28.18	0.45	-0.34	-2.05
3,318.00	7.52	262.37	3,296.30	-71.02	-318.71	-28.91	0.96	-0.37	6.63
3,412.00	7.43	264.82	3,389.50	-72.39	-330.86	-28.68	0.35	-0.10	2.61
3,504.00	7.34	265.98	3,480.74	-73.33	-342.64	-28.09	0.19	-0.10	1.26
3,598.00	10.36	264.37	3,573.61	-74.58	-357.05	-27.45	3.22	3.21	-1.71
3,692.00	9.56	264.09	3,666.19	-76.22	-373.22	-26.96	0.85	-0.85	-0.30
3,786.00	8.86	263.33	3,758.98	-77.86	-388.18	-26.64	0.76	-0.74	-0.81
3,879.00	7.57	261.24	3,851.02	-79.63	-401.35	-26.68	1.42	-1.39	-2.25
3,973.00	8.70	260.03	3,944.07	-81.80	-414.47	-27.13	1.22	1.20	-1.29
4,066.00	9.86	257.66	4,035.86	-84.72	-429.17	-28.11	1.31	1.25	-2.55
4,161.00	10.15	258.50	4,129.41	-88.13	-445.32	-29.38	0.34	0.31	0.88
4,254.00	9.94	258.54	4,220.99	-91.36	-461.22	-30.51	0.23	-0.23	0.04
4,348.00	9.37	258.27	4,313.65	-94.52	-476.66	-31.64	0.61	-0.61	-0.29
4,442.00	9.27	257.32	4,406.41	-97.74	-491.54	-32.89	0.20	-0.11	-1.01
4,536.00	8.26	255.97	4,499.31	-101.04	-505.48	-34.35	1.10	-1.07	-1.44
4,631.00	7.67	254.75	4,593.40	-104.36	-518.22	-35.98	0.65	-0.62	-1.28

Premier Directional Drilling Survey Report

Company:	MATADOR RESOURCES	Local Co-ordinate Reference:	Well #204H - Slot 204H
Project:	Eddy County, New Mexico	TVD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Site:	Charlie Sweeney Fed Com #204H, #208H, #228H	MD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Well:	#204H	North Reference:	Grid
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	EDM 5000 14 Multi User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,725.00	6.18	253.13	4,686.71	-107.48	-529.11	-37.66	1.60	-1.59	-1.72
4,819.00	5.22	251.77	4,780.24	-110.29	-538.02	-39.28	1.03	-1.02	-1.45
4,914.00	4.48	240.71	4,874.90	-113.45	-545.36	-41.46	1.25	-0.78	-11.64
5,008.00	5.01	249.19	4,968.58	-116.71	-552.39	-43.77	0.93	0.56	9.02
5,101.00	5.33	255.85	5,061.21	-119.21	-560.38	-45.21	0.73	0.34	7.16
5,196.00	5.28	261.95	5,155.80	-120.90	-568.99	-45.77	0.60	-0.05	6.42
5,290.00	5.09	260.30	5,249.41	-122.21	-577.38	-45.97	0.26	-0.20	-1.76
5,384.00	6.32	258.62	5,342.95	-123.93	-586.56	-46.48	1.32	1.31	-1.79
5,478.00	6.18	263.33	5,436.39	-125.54	-596.66	-46.76	0.57	-0.15	5.01
5,572.00	5.37	262.37	5,529.91	-126.71	-606.04	-46.70	0.87	-0.86	-1.02
5,666.00	4.87	261.39	5,623.54	-127.89	-614.35	-46.79	0.54	-0.53	-1.04
5,759.00	5.11	254.44	5,716.18	-129.59	-622.24	-47.45	0.70	0.26	-7.47
5,852.00	5.41	250.66	5,808.79	-132.16	-630.37	-48.93	0.49	0.32	-4.06
5,947.00	4.82	254.46	5,903.41	-134.71	-638.44	-50.41	0.72	-0.62	4.00
6,040.00	2.98	249.03	5,996.20	-136.62	-644.46	-51.53	2.02	-1.98	-5.84
6,134.00	2.07	228.76	6,090.10	-138.61	-648.02	-53.04	1.34	-0.97	-21.56
6,228.00	2.08	255.21	6,184.05	-140.17	-650.95	-54.20	1.01	0.01	28.14
6,322.00	1.87	264.06	6,277.99	-140.76	-654.12	-54.37	0.39	-0.22	9.41
6,416.00	1.35	271.26	6,371.95	-140.90	-656.75	-54.17	0.59	-0.55	7.66
6,510.00	1.13	251.55	6,465.93	-141.17	-658.74	-54.17	0.51	-0.23	-20.97
6,605.00	0.58	55.23	6,560.93	-141.19	-659.23	-54.13	1.78	-0.58	172.29
6,700.00	1.15	96.46	6,655.92	-141.02	-657.89	-54.14	0.85	0.60	43.40
6,794.00	1.25	64.46	6,749.90	-140.69	-656.03	-54.05	0.71	0.11	-34.04
6,888.00	0.30	295.44	6,843.89	-140.14	-655.33	-53.60	1.55	-1.01	-137.26
6,982.00	2.31	151.80	6,937.87	-141.70	-654.65	-55.24	2.72	2.14	-152.81
7,076.00	2.00	136.19	7,031.80	-144.56	-652.62	-58.33	0.70	-0.33	-16.61
7,169.00	2.67	228.82	7,124.75	-147.15	-653.13	-60.84	3.66	0.72	99.60
7,264.00	1.13	170.79	7,219.70	-149.54	-654.64	-63.00	2.40	-1.62	-61.08
7,358.00	0.30	138.74	7,313.69	-150.64	-654.33	-64.14	0.95	-0.88	-34.10
7,452.00	2.74	190.58	7,407.65	-153.03	-654.58	-66.48	2.73	2.60	55.15
7,544.00	2.84	129.41	7,499.56	-156.64	-653.23	-70.23	3.09	0.11	-66.49
7,638.00	1.11	74.27	7,593.51	-157.87	-650.55	-71.80	2.54	-1.84	-58.66
7,732.00	0.85	91.60	7,687.50	-157.64	-648.98	-71.78	0.42	-0.28	18.44
7,826.00	1.40	330.88	7,781.49	-156.66	-648.84	-70.82	2.10	0.59	-128.43
7,919.00	3.17	32.95	7,874.42	-153.51	-647.99	-67.81	3.01	1.90	66.74
8,012.00	1.82	349.62	7,967.34	-149.90	-646.86	-64.38	2.40	-1.45	-46.59
8,106.00	0.96	293.97	8,061.31	-148.11	-647.85	-62.47	1.60	-0.91	-59.20
8,200.00	0.81	211.55	8,155.30	-148.36	-648.92	-62.58	1.25	-0.16	-87.68
8,293.00	0.39	181.30	8,248.30	-149.23	-649.27	-63.40	0.55	-0.45	-32.53
8,388.00	1.86	18.78	8,343.29	-148.10	-648.78	-62.34	2.35	1.55	-171.07
8,482.00	1.91	331.39	8,437.24	-145.28	-649.04	-59.51	1.61	0.05	-50.41
8,576.00	1.98	66.24	8,531.21	-143.25	-648.30	-57.59	3.05	0.07	100.90
8,709.00	0.47	224.57	8,664.18	-142.71	-646.58	-57.29	1.82	-1.14	119.04

Premier Directional Drilling

Survey Report

Company:	MATADOR RESOURCES	Local Co-ordinate Reference:	Well #204H - Slot 204H
Project:	Eddy County, New Mexico	TVD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Site:	Charlie Sweeney Fed Com #204H, #208H, #228H	MD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Well:	#204H	North Reference:	Grid
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	EDM 5000 14 Multi User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,803.00	0.47	214.07	8,758.18	-143.30	-647.07	-57.81	0.09	0.00	-11.17
8,896.00	0.48	236.85	8,851.18	-143.83	-647.61	-58.27	0.20	0.01	24.49
8,991.00	1.27	307.06	8,946.17	-143.41	-648.78	-57.70	1.26	0.83	73.91
9,084.00	11.07	1.53	9,038.54	-133.84	-649.37	-48.13	11.16	10.54	58.57
9,178.00	22.18	356.78	9,128.48	-107.02	-650.12	-21.44	11.90	11.82	-5.05
9,271.00	34.05	357.97	9,210.36	-63.32	-652.04	22.14	12.78	12.76	1.28
9,365.00	41.19	0.19	9,284.77	-5.99	-652.87	79.09	7.73	7.60	2.36
9,459.00	45.93	1.64	9,352.87	58.76	-651.80	143.14	5.15	5.04	1.54
9,553.00	54.28	359.73	9,413.11	130.80	-651.01	214.47	9.02	8.88	-2.03
9,648.00	59.78	359.32	9,464.79	210.47	-651.68	293.55	5.80	5.79	-0.43
9,741.00	63.56	356.01	9,508.92	292.23	-655.06	375.05	5.13	4.06	-3.56
9,835.00	68.72	3.78	9,546.98	378.08	-655.10	460.18	9.34	5.49	8.27
9,929.00	74.52	4.72	9,576.61	467.00	-648.48	547.48	6.24	6.17	1.00
10,024.00	81.92	3.53	9,595.99	559.69	-641.81	638.51	7.89	7.79	-1.25
10,118.00	92.77	358.98	9,600.34	653.40	-639.77	731.16	12.51	11.54	-4.84
10,212.00	91.26	357.61	9,597.04	747.30	-642.57	824.62	2.17	-1.61	-1.46
10,306.00	93.05	358.32	9,593.50	841.17	-645.90	918.12	2.05	1.90	0.76
10,401.00	90.81	358.47	9,590.30	936.07	-648.56	1,012.56	2.36	-2.36	0.16
10,495.00	93.64	358.55	9,586.65	1,029.96	-651.00	1,105.97	3.01	3.01	0.09
10,589.00	88.43	0.29	9,584.95	1,123.90	-651.95	1,199.24	5.84	-5.54	1.85
10,683.00	89.33	0.72	9,586.79	1,217.88	-651.12	1,292.31	1.06	0.96	0.46
10,777.00	89.62	0.98	9,587.65	1,311.87	-649.73	1,385.31	0.41	0.31	0.28
10,870.00	93.04	2.59	9,585.49	1,404.78	-646.84	1,477.06	4.06	3.68	1.73
10,965.00	92.50	2.74	9,580.90	1,499.56	-642.42	1,570.46	0.59	-0.57	0.16
11,059.00	92.91	3.99	9,576.47	1,593.30	-636.91	1,662.67	1.40	0.44	1.33
11,153.00	87.37	3.95	9,576.24	1,687.03	-630.41	1,754.77	5.89	-5.89	-0.04
11,247.00	87.88	4.15	9,580.13	1,780.72	-623.77	1,846.79	0.58	0.54	0.21
11,342.00	83.58	2.88	9,587.21	1,875.25	-617.96	1,939.76	4.72	-4.53	-1.34
11,435.00	84.74	359.14	9,596.67	1,967.74	-616.34	2,031.25	4.19	1.25	-4.02
11,530.00	85.14	358.22	9,605.05	2,062.34	-618.52	2,125.33	1.05	0.42	-0.97
11,593.00	88.17	356.75	9,608.73	2,125.16	-621.28	2,187.98	5.34	4.81	-2.33
11,626.00	85.30	359.12	9,610.61	2,158.08	-622.47	2,220.77	11.27	-8.70	7.18
11,720.00	87.70	359.36	9,616.34	2,251.89	-623.71	2,313.94	2.57	2.55	0.26
11,814.00	91.33	359.92	9,617.14	2,345.87	-624.30	2,407.20	3.91	3.86	0.60
11,909.00	92.82	0.33	9,613.70	2,440.80	-624.09	2,501.30	1.63	1.57	0.43
12,003.00	96.30	359.33	9,606.23	2,534.49	-624.37	2,594.22	3.85	3.70	-1.06
12,098.00	95.20	0.20	9,596.71	2,629.01	-624.76	2,687.98	1.47	-1.16	0.92
12,192.00	95.51	1.12	9,587.94	2,722.59	-623.68	2,780.63	1.03	0.33	0.98
12,286.00	91.41	2.21	9,582.26	2,816.36	-620.95	2,873.24	4.51	-4.36	1.16
12,381.00	91.50	1.35	9,579.85	2,911.28	-618.00	2,966.97	0.91	0.09	-0.91
12,475.00	93.40	2.06	9,575.83	3,005.15	-615.21	3,059.68	2.16	2.02	0.76
12,569.00	93.99	2.16	9,569.78	3,098.89	-611.75	3,152.17	0.64	0.63	0.11

Premier Directional Drilling Survey Report

Company:	MATADOR RESOURCES	Local Co-ordinate Reference:	Well #204H - Slot 204H
Project:	Eddy County, New Mexico	TVD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Site:	Charlie Sweeney Fed Com #204H, #208H, #228H	MD Reference:	3101+28.5 @ 3129.50usft (Patterson282)
Well:	#204H	North Reference:	Grid
Wellbore:	Lateral 2	Survey Calculation Method:	Minimum Curvature
Design:	Lateral 2	Database:	EDM 5000 14 Multi User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,663.00	94.02	2.94	9,563.21	3,192.57	-607.58	3,244.51	0.83	0.03	0.83
12,757.00	94.89	3.07	9,555.91	3,286.15	-602.67	3,336.65	0.94	0.93	0.14
12,851.00	92.48	2.02	9,549.87	3,379.86	-598.50	3,429.02	2.80	-2.56	-1.12
12,945.00	91.61	1.86	9,546.51	3,473.74	-595.32	3,521.69	0.94	-0.93	-0.17
13,040.00	89.80	1.61	9,545.35	3,568.69	-592.45	3,615.45	1.92	-1.91	-0.26
13,134.00	89.89	1.63	9,545.60	3,662.65	-589.79	3,708.27	0.10	0.10	0.02
13,227.00	87.55	0.56	9,547.68	3,755.60	-588.01	3,800.20	2.77	-2.52	-1.15
13,321.00	87.33	359.74	9,551.88	3,849.51	-587.77	3,893.27	0.90	-0.23	-0.87
13,415.00	86.69	357.63	9,556.78	3,943.35	-589.92	3,986.59	2.34	-0.68	-2.24
13,509.00	86.84	357.86	9,562.08	4,037.13	-593.61	4,080.05	0.29	0.16	0.24
13,603.00	87.43	355.28	9,566.78	4,130.83	-599.23	4,173.69	2.81	0.63	-2.74
13,697.00	88.67	354.89	9,569.98	4,224.43	-607.28	4,267.54	1.38	1.32	-0.41
13,791.00	91.72	355.62	9,569.66	4,318.10	-615.06	4,361.42	3.34	3.24	0.78
13,885.00	91.41	355.97	9,567.09	4,411.81	-621.95	4,455.23	0.50	-0.33	0.37
13,979.00	92.16	356.67	9,564.17	4,505.57	-627.98	4,548.98	1.09	0.80	0.74
14,073.00	92.48	357.56	9,560.36	4,599.37	-632.70	4,642.60	1.01	0.34	0.95
14,168.00	91.07	358.65	9,557.42	4,694.27	-635.84	4,737.10	1.88	-1.48	1.15
14,281.00	92.11	359.00	9,554.28	4,807.20	-638.16	4,849.37	0.97	0.92	0.31
14,340.00	92.11	359.00	9,552.11	4,866.15	-639.19	4,907.95	0.00	0.00	0.00

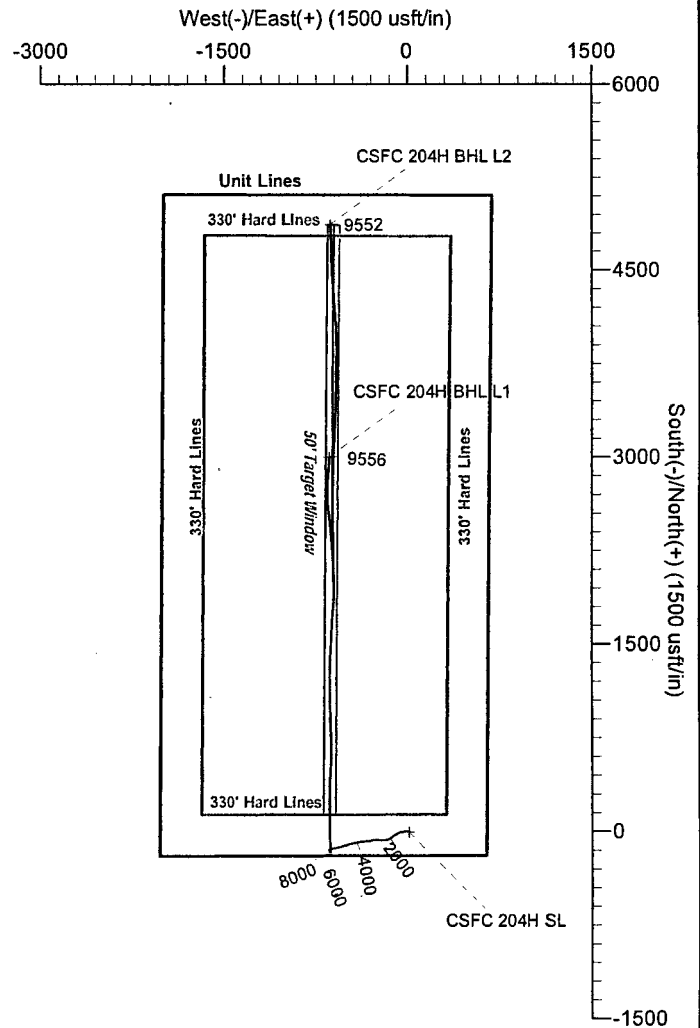
MATADOR RESOURCES

Project: Eddy County, New Mexico
 Site: Charlie Sweeney Fed Com #204H, #208H, #228H
 Well: #204H
 Wellbore: Lateral 2
 Design: Lateral 2



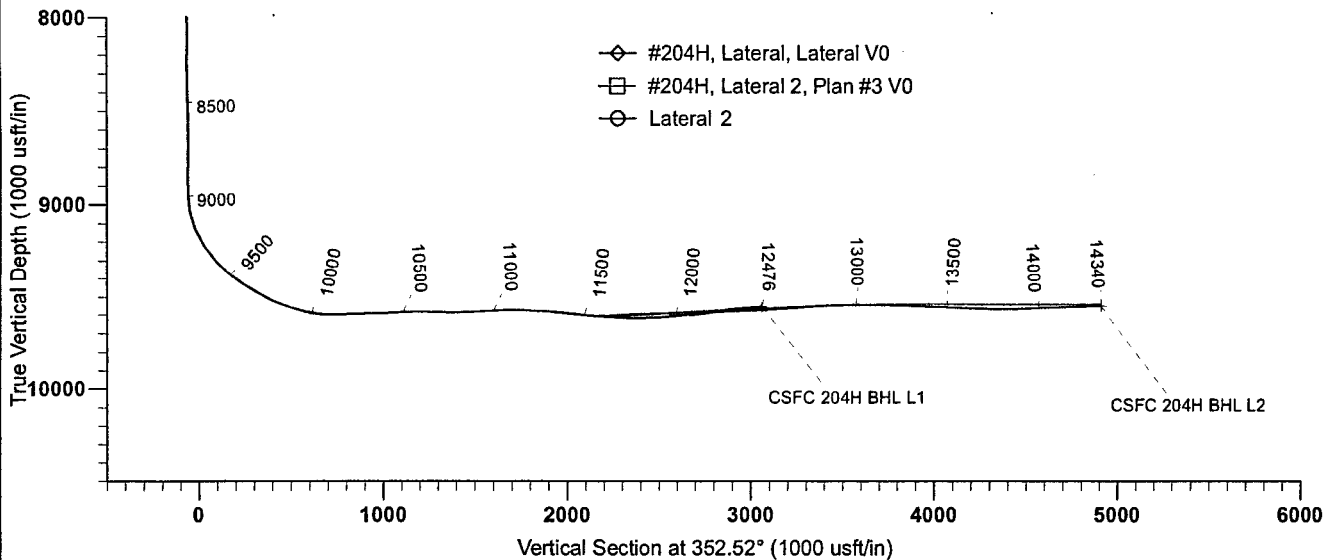
Azimuths to Grid North
 True North: -0.11°
 Magnetic North: 7.20°

Magnetic Field
 Strength: 48082.1snT
 Dip Angle: 60.07°
 Date: 9/17/2017
 Model: HDGM



LEGEND

- ◇— #204H, Lateral, Lateral V0
- #204H, Lateral 2, Plan #3 V0
- Lateral 2



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
CSFC 204H SL	0.00	0.00	0.00	456418.98	566009.69	Point
CSFC 204H BHL L2	9552.11	4866.15	-639.19	461285.13	565370.50	Point
CSFC 204H BHL L1	9555.92	3001.49	-649.08	459420.47	565360.61	Point

Design: Lateral 2 (#204H/Lateral 2)

Created By: Ashley Wischnewsky
 Date: 11:44, September 29 2017

PREMIER DIRECTIONAL DRILLING
 363 N Sam Houston Pwky E, Ste 300 Houston, TX 77060
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