

Pro Directional

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan C	Database:	WellPlanner1

Project	Eddy County, NM		
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	Stebbins Federal 20 (114-124-134-204)			
Site Position:		Northing:	564,880.00 usft	Latitude: 32.5527546
From:	Map	Easting:	570,529.00 usft	Longitude: -104.1044330
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.12 °

Well	No. 204H			
Well Position	+N/-S	0.00 usft	Northing:	564,850.00 usft
	+E/-W	0.00 usft	Easting:	570,529.00 usft
Position Uncertainty	1.10 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,245.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/21/2017	7.35	60.40	48,152.30

Design	Prelim Plan C				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.05	

Survey Tool Program	Date	11/21/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	1,500.00	Prelim Plan C (OH)	MWD+HDGM	OWSG MWD + HRGM	
1,500.00	8,800.00	Prelim Plan C (OH)	MWD+HDGM	OWSG MWD + HRGM	
8,800.00	14,100.57	Prelim Plan C (OH)	MWD+HDGM	OWSG MWD + HRGM	

Planned 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	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	

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Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan C	Database:	WellPlanner1

Planned 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)
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	1.00	343.50	1,499.99	0.84	-0.25	-0.25	1.00	1.00	0.00
1,600.00	2.00	343.50	1,599.96	3.35	-0.99	-0.99	1.00	1.00	0.00
1,700.00	3.00	343.50	1,699.86	7.53	-2.23	-2.24	1.00	1.00	0.00
1,800.00	4.00	343.50	1,799.68	13.38	-3.96	-3.98	1.00	1.00	0.00
1,900.00	5.00	343.50	1,899.37	20.91	-6.19	-6.21	1.00	1.00	0.00
2,000.00	6.00	343.50	1,998.90	30.09	-8.91	-8.94	1.00	1.00	0.00
2,100.00	7.00	343.50	2,098.26	40.95	-12.13	-12.16	1.00	1.00	0.00
2,200.00	7.00	343.50	2,197.51	52.63	-15.59	-15.64	0.00	0.00	0.00
2,300.00	7.00	343.50	2,296.77	64.32	-19.05	-19.11	0.00	0.00	0.00
2,400.00	7.00	343.50	2,396.02	76.00	-22.51	-22.58	0.00	0.00	0.00
2,500.00	7.00	343.50	2,495.28	87.69	-25.97	-26.05	0.00	0.00	0.00
2,600.00	7.00	343.50	2,594.53	99.37	-29.43	-29.52	0.00	0.00	0.00
2,700.00	7.00	343.50	2,693.79	111.06	-32.90	-32.99	0.00	0.00	0.00
2,800.00	7.00	343.50	2,793.04	122.74	-36.36	-36.46	0.00	0.00	0.00
2,900.00	7.00	343.50	2,892.30	134.43	-39.82	-39.93	0.00	0.00	0.00
3,000.00	7.00	343.50	2,991.55	146.12	-43.28	-43.41	0.00	0.00	0.00
3,100.00	7.00	343.50	3,090.81	157.80	-46.74	-46.88	0.00	0.00	0.00
3,200.00	7.00	343.50	3,190.06	169.49	-50.20	-50.35	0.00	0.00	0.00
3,300.00	7.00	343.50	3,289.32	181.17	-53.66	-53.82	0.00	0.00	0.00
3,400.00	7.00	343.50	3,388.57	192.86	-57.12	-57.29	0.00	0.00	0.00
3,500.00	7.00	343.50	3,487.82	204.54	-60.58	-60.76	0.00	0.00	0.00
3,600.00	7.00	343.50	3,587.08	216.23	-64.04	-64.23	0.00	0.00	0.00
3,700.00	7.00	343.50	3,686.33	227.91	-67.51	-67.70	0.00	0.00	0.00
3,800.00	7.00	343.50	3,785.59	239.60	-70.97	-71.18	0.00	0.00	0.00
3,900.00	7.00	343.50	3,884.84	251.28	-74.43	-74.65	0.00	0.00	0.00
4,000.00	7.00	343.50	3,984.10	262.97	-77.89	-78.12	0.00	0.00	0.00
4,100.00	7.00	343.50	4,083.35	274.65	-81.35	-81.59	0.00	0.00	0.00
4,200.00	7.00	343.50	4,182.61	286.34	-84.81	-85.06	0.00	0.00	0.00
4,300.00	7.00	343.50	4,281.86	298.02	-88.27	-88.53	0.00	0.00	0.00
4,400.00	7.00	343.50	4,381.12	309.71	-91.73	-92.00	0.00	0.00	0.00
4,500.00	7.00	343.50	4,480.37	321.39	-95.19	-95.47	0.00	0.00	0.00
4,600.00	7.00	343.50	4,579.63	333.08	-98.65	-98.95	0.00	0.00	0.00
4,700.00	7.00	343.50	4,678.88	344.76	-102.12	-102.42	0.00	0.00	0.00
4,800.00	7.00	343.50	4,778.13	356.45	-105.58	-105.89	0.00	0.00	0.00

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(Patt809))

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Grid

Minimum Curvature

WellPlanner1

Planned 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)
4,900.00	7.00	343.50	4,877.39	368.13	-109.04	-109.36	0.00	0.00	0.00
5,000.00	7.00	343.50	4,976.64	379.82	-112.50	-112.83	0.00	0.00	0.00
5,100.00	7.00	343.50	5,075.90	391.50	-115.96	-116.30	0.00	0.00	0.00
5,200.00	7.00	343.50	5,175.15	403.19	-119.42	-119.77	0.00	0.00	0.00
5,300.00	7.00	343.50	5,274.41	414.87	-122.88	-123.24	0.00	0.00	0.00
5,400.00	7.00	343.50	5,373.66	426.56	-126.34	-126.72	0.00	0.00	0.00
5,500.00	7.00	343.50	5,472.92	438.24	-129.80	-130.19	0.00	0.00	0.00
5,600.00	7.00	343.50	5,572.17	449.93	-133.27	-133.66	0.00	0.00	0.00
5,700.00	7.00	343.50	5,671.43	461.61	-136.73	-137.13	0.00	0.00	0.00
5,800.00	7.00	343.50	5,770.68	473.30	-140.19	-140.60	0.00	0.00	0.00
5,900.00	7.00	343.50	5,869.94	484.98	-143.65	-144.07	0.00	0.00	0.00
6,000.00	7.00	343.50	5,969.19	496.67	-147.11	-147.54	0.00	0.00	0.00
6,100.00	7.00	343.50	6,068.44	508.35	-150.57	-151.01	0.00	0.00	0.00
6,200.00	7.00	343.50	6,167.70	520.04	-154.03	-154.49	0.00	0.00	0.00
6,300.00	7.00	343.50	6,266.95	531.72	-157.49	-157.96	0.00	0.00	0.00
6,400.00	7.00	343.50	6,366.21	543.41	-160.95	-161.43	0.00	0.00	0.00
6,500.00	7.00	343.50	6,465.46	555.10	-164.41	-164.90	0.00	0.00	0.00
6,600.00	7.00	343.50	6,564.72	566.78	-167.88	-168.37	0.00	0.00	0.00
6,700.00	7.00	343.50	6,663.97	578.47	-171.34	-171.84	0.00	0.00	0.00
6,800.00	7.00	343.50	6,763.23	590.15	-174.80	-175.31	0.00	0.00	0.00
6,900.00	7.00	343.50	6,862.48	601.84	-178.26	-178.78	0.00	0.00	0.00
7,000.00	7.00	343.50	6,961.74	613.52	-181.72	-182.26	0.00	0.00	0.00
7,100.00	7.00	343.50	7,060.99	625.21	-185.18	-185.73	0.00	0.00	0.00
7,200.00	7.00	343.50	7,160.25	636.89	-188.64	-189.20	0.00	0.00	0.00
7,300.00	7.00	343.50	7,259.50	648.58	-192.10	-192.67	0.00	0.00	0.00
7,400.00	7.00	343.50	7,358.75	660.26	-195.56	-196.14	0.00	0.00	0.00
7,466.66	7.00	343.50	7,424.92	668.05	-197.87	-198.45	0.00	0.00	0.00
7,500.00	6.67	343.50	7,458.02	671.85	-199.00	-199.58	1.00	-1.00	0.00
7,600.00	5.67	343.50	7,557.44	682.15	-202.05	-202.64	1.00	-1.00	0.00
7,700.00	4.67	343.50	7,657.03	690.79	-204.61	-205.21	1.00	-1.00	0.00
7,800.00	3.67	343.50	7,756.77	697.75	-206.67	-207.28	1.00	-1.00	0.00
7,900.00	2.67	343.50	7,856.61	703.05	-208.24	-208.85	1.00	-1.00	0.00
8,000.00	1.67	343.50	7,956.54	706.68	-209.31	-209.93	1.00	-1.00	0.00
8,100.00	0.67	343.50	8,056.52	708.63	-209.89	-210.51	1.00	-1.00	0.00
8,166.66	0.00	0.00	8,123.18	709.00	-210.00	-210.62	1.00	-1.00	0.00
8,200.00	0.00	0.00	8,156.52	709.00	-210.00	-210.62	0.00	0.00	0.00
8,300.00	0.00	0.00	8,256.52	709.00	-210.00	-210.62	0.00	0.00	0.00
8,400.00	0.00	0.00	8,356.52	709.00	-210.00	-210.62	0.00	0.00	0.00
8,500.00	0.00	0.00	8,456.52	709.00	-210.00	-210.62	0.00	0.00	0.00
8,600.00	0.00	0.00	8,556.52	709.00	-210.00	-210.62	0.00	0.00	0.00
8,700.00	0.00	0.00	8,656.52	709.00	-210.00	-210.62	0.00	0.00	0.00
8,775.52	0.00	0.00	8,732.04	709.00	-210.00	-210.62	0.00	0.00	0.00

Pro Directional Survey Report

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Well: No. 204H

Wellbore: OH

Design: Prelim Plan C

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 204H

Well @ 3273.50usft (GL: 3245' + KB: 28.5'
(Patt809))

Well @ 3273.50usft (GL: 3245' + KB: 28.5'
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Grid

Minimum Curvature

WellPlanner1

Planned 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)
8,800.00	2.45	90.05	8,756.51	709.00	-209.48	-210.10	10.00	10.00	0.00
8,850.00	7.45	90.05	8,806.31	709.00	-205.17	-205.78	10.00	10.00	0.00
8,900.00	12.45	90.05	8,855.54	708.99	-196.53	-197.15	10.00	10.00	0.00
8,950.00	17.45	90.05	8,903.83	708.98	-183.64	-184.26	10.00	10.00	0.00
9,000.00	22.45	90.05	8,950.82	708.97	-166.59	-167.20	10.00	10.00	0.00
9,050.00	27.45	90.05	8,996.14	708.95	-145.50	-146.12	10.00	10.00	0.00
9,100.00	32.45	90.05	9,039.45	708.93	-120.55	-121.17	10.00	10.00	0.00
9,150.00	37.45	90.05	9,080.42	708.91	-91.92	-92.54	10.00	10.00	0.00
9,200.00	42.45	90.05	9,118.74	708.88	-59.82	-60.44	10.00	10.00	0.00
9,250.00	47.45	90.05	9,154.12	708.85	-24.51	-25.13	10.00	10.00	0.00
9,300.00	52.45	90.05	9,186.28	708.82	13.75	13.13	10.00	10.00	0.00
9,350.00	57.45	90.05	9,214.99	708.79	54.67	54.05	10.00	10.00	0.00
9,400.00	62.45	90.05	9,240.02	708.75	97.93	97.31	10.00	10.00	0.00
9,450.00	67.45	90.05	9,261.18	708.72	143.21	142.60	10.00	10.00	0.00
9,500.00	72.45	90.05	9,278.32	708.68	190.17	189.55	10.00	10.00	0.00
9,550.00	77.45	90.05	9,291.30	708.64	238.44	237.82	10.00	10.00	0.00
9,600.00	82.45	90.05	9,300.03	708.60	287.65	287.04	10.00	10.00	0.00
9,650.00	87.45	90.05	9,304.43	708.56	337.44	336.83	10.00	10.00	0.00
9,675.52	90.00	90.05	9,305.00	708.54	362.96	362.34	10.00	10.00	0.00
9,700.00	90.00	90.05	9,305.00	708.52	387.44	386.82	0.00	0.00	0.00
9,800.00	90.00	90.05	9,305.00	708.44	487.44	486.82	0.00	0.00	0.00
9,900.00	90.00	90.05	9,305.00	708.36	587.44	586.82	0.00	0.00	0.00
10,000.00	90.00	90.05	9,305.00	708.28	687.44	686.82	0.00	0.00	0.00
10,100.00	90.00	90.05	9,305.00	708.20	787.44	786.82	0.00	0.00	0.00
10,200.00	90.00	90.05	9,305.00	708.12	887.43	886.82	0.00	0.00	0.00
10,300.00	90.00	90.05	9,305.00	708.04	987.43	986.82	0.00	0.00	0.00
10,400.00	90.00	90.05	9,305.00	707.96	1,087.43	1,086.82	0.00	0.00	0.00
10,500.00	90.00	90.05	9,305.00	707.88	1,187.43	1,186.82	0.00	0.00	0.00
10,600.00	90.00	90.05	9,305.00	707.80	1,287.43	1,286.82	0.00	0.00	0.00
10,700.00	90.00	90.05	9,305.00	707.72	1,387.43	1,386.82	0.00	0.00	0.00
10,800.00	90.00	90.05	9,305.00	707.64	1,487.43	1,486.82	0.00	0.00	0.00
10,900.00	90.00	90.05	9,305.00	707.56	1,587.43	1,586.82	0.00	0.00	0.00
11,000.00	90.00	90.05	9,305.00	707.48	1,687.43	1,686.82	0.00	0.00	0.00
11,100.00	90.00	90.05	9,305.00	707.40	1,787.43	1,786.82	0.00	0.00	0.00
11,200.00	90.00	90.05	9,305.00	707.32	1,887.43	1,886.82	0.00	0.00	0.00
11,300.00	90.00	90.05	9,305.00	707.24	1,987.43	1,986.82	0.00	0.00	0.00
11,400.00	90.00	90.05	9,305.00	707.16	2,087.43	2,086.82	0.00	0.00	0.00
11,500.00	90.00	90.05	9,305.00	707.08	2,187.43	2,186.82	0.00	0.00	0.00
11,600.00	90.00	90.05	9,305.00	707.00	2,287.43	2,286.82	0.00	0.00	0.00
11,700.00	90.00	90.05	9,305.00	706.92	2,387.43	2,386.82	0.00	0.00	0.00
11,800.00	90.00	90.05	9,305.00	706.84	2,487.43	2,486.82	0.00	0.00	0.00
11,900.00	90.00	90.05	9,305.00	706.76	2,587.43	2,586.82	0.00	0.00	0.00

Pro Directional Survey Report

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Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan C	Database:	WellPlanner1

Planned 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)
12,000.00	90.00	90.05	9,305.00	706.68	2,687.43	2,686.82	0.00	0.00	0.00
12,100.00	90.00	90.05	9,305.00	706.60	2,787.43	2,786.82	0.00	0.00	0.00
12,200.00	90.00	90.05	9,305.00	706.52	2,887.43	2,886.82	0.00	0.00	0.00
12,300.00	90.00	90.05	9,305.00	706.44	2,987.43	2,986.82	0.00	0.00	0.00
12,400.00	90.00	90.05	9,305.00	706.36	3,087.43	3,086.82	0.00	0.00	0.00
12,500.00	90.00	90.05	9,305.00	706.28	3,187.43	3,186.82	0.00	0.00	0.00
12,600.00	90.00	90.05	9,305.00	706.20	3,287.43	3,286.82	0.00	0.00	0.00
12,700.00	90.00	90.05	9,305.00	706.12	3,387.43	3,386.82	0.00	0.00	0.00
12,800.00	90.00	90.05	9,305.00	706.04	3,487.43	3,486.82	0.00	0.00	0.00
12,900.00	90.00	90.05	9,305.00	705.96	3,587.43	3,586.82	0.00	0.00	0.00
13,000.00	90.00	90.05	9,305.00	705.88	3,687.43	3,686.82	0.00	0.00	0.00
13,100.00	90.00	90.05	9,305.00	705.80	3,787.43	3,786.82	0.00	0.00	0.00
13,200.00	90.00	90.05	9,305.00	705.72	3,887.43	3,886.82	0.00	0.00	0.00
13,300.00	90.00	90.05	9,305.00	705.64	3,987.43	3,986.82	0.00	0.00	0.00
13,400.00	90.00	90.05	9,305.00	705.56	4,087.43	4,086.82	0.00	0.00	0.00
13,500.00	90.00	90.05	9,305.00	705.48	4,187.43	4,186.82	0.00	0.00	0.00
13,600.00	90.00	90.05	9,305.00	705.40	4,287.43	4,286.82	0.00	0.00	0.00
13,700.00	90.00	90.05	9,305.00	705.32	4,387.43	4,386.82	0.00	0.00	0.00
13,800.00	90.00	90.05	9,305.00	705.24	4,487.43	4,486.82	0.00	0.00	0.00
13,900.00	90.00	90.05	9,305.00	705.16	4,587.43	4,586.82	0.00	0.00	0.00
14,000.00	90.00	90.05	9,305.00	705.08	4,687.43	4,686.82	0.00	0.00	0.00
14,100.57	90.00	90.05	9,305.00	705.00	4,788.00	4,787.38	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[StebFed20#204H]LPP - plan misses target center by 4750.60usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	705.00	4,698.00	565,555.00	575,227.00	32.5545814	-104.0891808
[StebFed20#204H]FPP - plan misses target center by 712.25usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	709.00	68.00	565,559.00	570,597.00	32.5546207	-104.1042075
[StebFed20#204H]BHL - plan hits target center - Point	0.00	0.00	9,305.00	705.00	4,788.00	565,555.00	575,317.00	32.5545808	-104.0888887

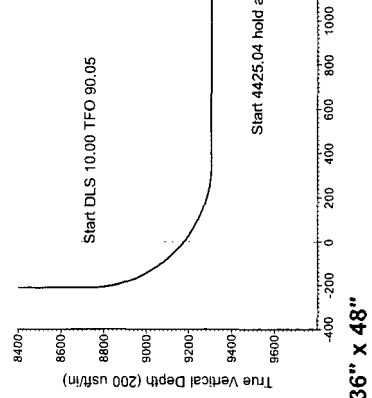
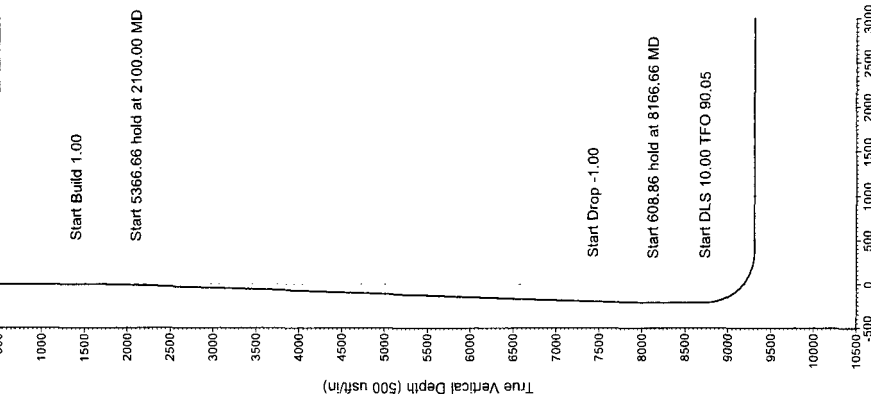
Checked By: _____	Approved By: _____	Date: _____
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Matador Resources
Eddy County, NM
Stebbins Federal 20 (114-124-134-204)
No. 204H
Prelim Plan C
GL: 3245' + KB: 28.5' (Patt809)



Vertical Section at 90.05° (500 usft/in)
-500 0 500 1000 1500 2000 2500 3000



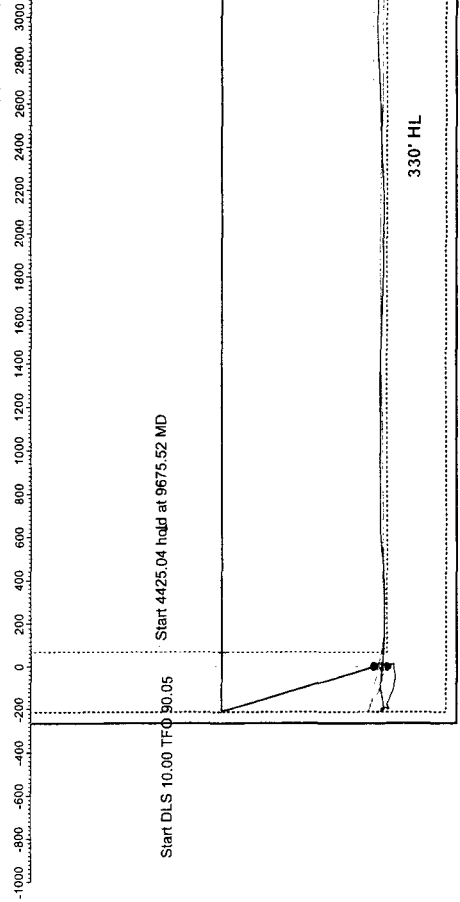
US State Plane 1983 (Estate edition)
NAD 1983 (NADCON CONUS)
Clarke 1886
New Mexico East 3001
Mean Sea Level

RKB Elevation:				
Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))				
+N/S	+E/W	Northing	Eastings	Longitude
0.00	0.00	564850.00	570523.00	-104.1044332
Slot				

SECTION DETAILS- Lateral

Sec	MD	IPC	Azi	TVD	+N/S	+E/W	Diag	V'Sed
1	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2100.00	7.00	343.50	2098.26	40.95	-12.13	1.00	-12.16
3	7466.66	7.00	343.50	7424.92	688.05	-197.87	1.00	-198.45
4	8166.66	0.00	0.00	8123.18	709.00	-210.00	1.00	-210.62
5	8775.52	0.00	0.00	8732.04	709.00	-210.00	1.00	-210.62
6	9675.52	90.00	90.05	9305.00	708.54	362.96	10.00	362.34
7	14100.57	90.00	90.05	9305.00	705.00	4788.00	0.00	4787.38
8								

West(-)/East(+) (200 usft/in)



Lease Line

TD at 14100.57

TD at 14100.57



Azimuths to Grid North
True North: -0.12°
Magnetic North: 7.23°
Magnetic Field
Strength: 48152.3nT
Dip Angle: 60.40°
Declination: 7.35° East
Model: HGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 7.23°
Declination (M to T): 7.35° East

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan C	Offset TVD Reference:	Offset Datum

Reference	Prelim Plan C		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,750.59 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 11/21/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,500.00	Prelim Plan C (OH)	MWD+HDGM	OWSG MWD + HRGM
1,500.00	8,800.00	Prelim Plan C (OH)	MWD+HDGM	OWSG MWD + HRGM
8,800.00	14,100.57	Prelim Plan C (OH)	MWD+HDGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Stebbins Federal 20 (114-124-134-204)						
No. 124H - OH - MWD	0.00	1.00	60.00			
No. 124H - OH - MWD	1,600.00	1,601.32	97.48	87.98	10.266 SF	
No. 134H - OH - Gyro-MWD	153.30	154.31	29.68	27.39	12.963 CC	
No. 134H - OH - Gyro-MWD	200.00	200.90	29.77	27.36	12.386 ES	
No. 134H - OH - Gyro-MWD	14,100.57	13,881.45	730.47	501.23	3.186 SF	

Offset Design												
Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - MWD												
Survey Program: 71-GYRO-NS-CT, 786-MWD+HDGM												
Reference	Offset	Semi Major Axis		Distance		Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)				
0.00	0.00	1.00	1.00	1.10	1.10	180.00	-60.00	0.00	60.00			
100.00	100.00	100.66	100.66	1.11	1.11	179.72	-60.35	0.30	60.36	58.13	2.22	27.164
200.00	200.00	200.52	200.51	1.20	1.22	179.08	-60.97	0.98	60.98	58.55	2.42	25.159
300.00	300.00	299.80	299.78	1.39	1.41	178.12	-62.14	2.04	62.19	59.39	2.80	22.241
400.00	400.00	399.02	398.94	1.63	1.66	176.56	-64.78	3.89	64.93	61.64	3.28	19.780
500.00	500.00	498.95	498.81	1.91	1.95	175.03	-67.92	5.90	68.21	64.37	3.84	17.763
600.00	600.00	599.09	598.89	2.21	2.26	173.92	-70.86	7.55	71.29	66.85	4.44	16.054
700.00	700.00	698.97	698.72	2.53	2.58	173.22	-73.71	8.76	74.27	69.20	5.07	14.655
800.00	800.00	798.91	798.61	2.86	2.75	172.80	-76.72	9.69	77.37	71.81	5.56	13.911
900.00	900.00	899.04	898.70	3.19	2.80	172.41	-79.60	10.61	80.34	74.39	5.94	13.517
1,000.00	1,000.00	999.09	998.70	3.53	2.89	172.08	-82.31	11.46	83.14	76.76	6.37	13.043
1,100.00	1,100.00	1,098.96	1,098.53	3.87	3.03	171.45	-84.93	12.78	85.92	79.06	6.85	12.535
1,200.00	1,200.00	1,198.63	1,198.16	4.22	3.20	170.78	-87.76	14.24	88.95	81.58	7.37	12.073
1,300.00	1,300.00	1,299.02	1,298.49	4.56	3.39	170.33	-90.78	15.47	92.13	84.22	7.91	11.653
1,400.00	1,400.00	1,400.75	1,400.19	4.91	3.61	171.19	-92.91	14.41	94.02	85.55	8.48	11.090
1,500.00	1,499.99	1,502.14	1,501.39	5.26	3.85	-168.78	-93.70	8.49	94.94	85.87	9.06	10.474
1,600.00	1,599.96	1,601.32	1,600.01	5.44	4.09	-162.89	-94.12	-2.01	97.48	87.98	9.50	10.266 SF
1,700.00	1,699.86	1,698.91	1,696.73	5.47	4.35	-156.47	-95.58	-14.80	103.95	94.17	9.79	10.622

CC - Min centre to center distance or covergent point. SF - min separation factor. ES - min ellipse separation

Pro Directional Anticollision Report

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Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
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Reference Well:	No. 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - MWD													Offset Site Error:
Survey Program: 71-GYRO-NS-CT, 786-MWD+HDGM													Offset Well Error:
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,800.00	1,799.68	1,797.14	1,793.94	5.51	4.62	-150.81	-98.21	-28.75	114.51	104.39	10.12	11.317	
1,900.00	1,899.37	1,899.14	1,895.12	5.59	4.92	-147.12	-100.49	-41.40	126.50	116.00	10.50	12.044	
2,000.00	1,998.90	2,002.22	1,997.70	5.69	5.24	-145.22	-100.44	-51.54	137.34	126.42	10.92	12.579	
2,100.00	2,098.26	2,101.22	2,096.20	5.81	5.56	-143.85	-99.05	-61.33	148.42	137.07	11.35	13.076	
2,200.00	2,197.51	2,199.19	2,193.51	5.96	5.89	-142.41	-97.89	-72.54	160.83	149.02	11.81	13.617	
2,300.00	2,296.77	2,298.64	2,292.29	6.13	6.22	-141.15	-96.56	-84.05	173.60	161.29	12.30	14.110	
2,400.00	2,396.02	2,399.46	2,392.54	6.31	6.57	-140.36	-95.34	-94.63	185.96	173.14	12.82	14.503	
2,500.00	2,495.28	2,502.24	2,494.89	6.52	6.92	-139.98	-93.13	-103.77	196.85	183.49	13.36	14.729	
2,600.00	2,594.53	2,603.44	2,595.76	6.75	7.26	-139.91	-90.00	-111.34	206.33	192.41	13.92	14.824	
2,700.00	2,693.79	2,702.52	2,694.47	6.98	7.80	-139.72	-86.60	-119.08	215.63	201.15	14.48	14.888	
2,800.00	2,793.04	2,800.74	2,792.25	7.24	7.94	-139.31	-83.22	-127.81	225.37	210.30	15.07	14.959	
2,900.00	2,892.30	2,899.73	2,890.68	7.50	8.29	-138.67	-79.88	-137.77	235.65	219.99	15.67	15.041	
3,000.00	2,991.55	3,001.44	2,991.94	7.77	8.65	-138.37	-76.66	-146.73	245.62	229.33	16.29	15.080	
3,100.00	3,090.81	3,102.87	3,093.07	8.06	9.00	-138.44	-73.10	-153.78	254.51	237.59	16.91	15.047	
3,200.00	3,190.06	3,203.54	3,193.43	8.35	9.36	-138.54	-69.25	-160.47	262.98	245.44	17.55	14.989	
3,300.00	3,289.32	3,303.83	3,293.47	8.65	9.71	-138.74	-65.31	-166.52	271.11	252.93	18.18	14.910	
3,400.00	3,388.57	3,392.66	3,382.12	8.96	10.02	-139.11	-63.56	-171.61	280.91	262.13	18.78	14.958	
3,500.00	3,487.82	3,487.55	3,476.84	9.27	10.35	-139.72	-64.86	-177.08	293.75	274.35	19.40	15.143	
3,600.00	3,587.08	3,587.18	3,576.28	9.59	10.70	-140.30	-66.67	-183.06	307.14	287.09	20.05	15.318	
3,700.00	3,686.33	3,686.18	3,674.09	9.92	11.05	-140.80	-68.38	-189.05	320.53	299.83	20.70	15.485	
3,800.00	3,785.59	3,785.28	3,774.02	10.25	11.40	-141.48	-70.70	-194.13	334.08	312.72	21.36	15.640	
3,900.00	3,884.84	3,903.09	3,891.78	10.58	11.80	-142.57	-71.13	-196.87	344.93	322.84	22.10	15.611	
4,000.00	3,984.10	4,015.84	4,004.41	10.92	12.16	-144.00	-66.65	-194.77	350.26	327.50	22.76	15.386	
4,100.00	4,083.35	4,116.55	4,104.96	11.26	12.48	-145.30	-61.54	-192.06	354.55	331.14	23.40	15.149	
4,200.00	4,182.61	4,217.01	4,205.25	11.60	12.80	-146.50	-56.02	-189.75	358.73	334.68	24.05	14.916	
4,300.00	4,281.86	4,309.63	4,297.73	11.95	13.10	-147.48	-51.24	-188.28	363.60	338.91	24.69	14.728	
4,400.00	4,381.12	4,405.04	4,393.08	12.30	13.42	-148.27	-47.98	-188.57	370.73	345.39	25.34	14.632	
4,500.00	4,480.37	4,505.22	4,493.20	12.65	13.76	-148.99	-44.67	-189.39	378.17	352.17	26.01	14.541	
4,600.00	4,579.63	4,605.27	4,593.18	13.01	14.10	-149.65	-41.10	-190.41	385.47	358.79	26.68	14.448	
4,700.00	4,678.88	4,704.69	4,692.52	13.37	14.44	-150.23	-37.46	-191.74	392.80	365.44	27.36	14.359	
4,800.00	4,778.13	4,794.13	4,781.93	13.72	14.75	-150.76	-35.24	-193.01	401.34	373.35	27.99	14.336	
4,900.00	4,877.39	4,899.91	4,877.70	14.08	15.08	-151.42	-34.94	-193.94	411.92	383.26	28.65	14.377	
5,000.00	4,976.64	4,999.10	4,976.89	14.45	15.42	-152.08	-34.95	-194.91	422.87	393.54	29.33	14.418	
5,100.00	5,075.90	5,099.16	5,076.93	14.81	15.77	-152.85	-34.77	-196.29	433.78	403.76	30.02	14.451	
5,200.00	5,175.15	5,198.60	5,176.37	15.17	16.12	-153.17	-34.46	-197.83	444.62	413.91	30.71	14.480	
5,300.00	5,274.41	5,298.10	5,275.85	15.54	16.47	-153.65	-34.08	-199.53	455.45	424.05	31.40	14.507	
5,400.00	5,373.66	5,396.42	5,374.15	15.91	16.81	-154.06	-33.77	-201.44	466.41	434.33	32.08	14.539	
5,500.00	5,472.92	5,495.24	5,472.94	16.28	17.16	-154.44	-33.61	-203.61	477.59	444.82	32.77	14.573	
5,600.00	5,572.17	5,594.81	5,572.49	16.65	17.51	-154.79	-33.39	-205.87	488.74	455.27	33.47	14.603	
5,700.00	5,671.43	5,694.64	5,649.29	17.02	17.84	-155.09	-33.47	-208.07	500.26	466.14	34.12	14.663	
5,800.00	5,770.68	5,793.74	5,747.31	17.39	18.12	-155.39	-36.24	-210.11	514.89	480.21	34.69	14.845	
5,900.00	5,869.94	5,892.55	5,866.05	17.76	18.48	-156.05	-40.19	-210.15	529.57	494.14	35.43	14.946	
6,000.00	5,969.19	5,992.02	5,960.47	18.13	18.83	-156.80	-42.90	-208.57	543.15	507.01	36.13	15.032	
6,100.00	6,068.44	6,091.43	6,067.87	18.51	19.18	-157.44	-44.10	-207.64	555.40	518.55	36.85	15.070	
6,200.00	6,167.70	6,190.31	6,171.75	18.88	19.52	-157.96	-43.89	-207.40	566.45	528.89	37.56	15.082	
6,300.00	6,266.95	6,289.38	6,271.82	19.26	19.87	-158.40	-43.22	-207.52	577.13	538.88	38.25	15.088	
6,400.00	6,366.21	6,388.00	6,367.43	19.63	20.19	-158.82	-42.82	-207.46	588.07	549.16	38.91	15.112	
6,500.00	6,465.46	6,487.49	6,462.92	20.01	20.51	-159.28	-43.14	-206.92	599.76	560.19	39.57	15.157	
6,600.00	6,564.72	6,586.28	6,563.70	20.39	20.84	-159.79	-43.74	-205.95	611.71	571.46	40.25	15.196	
6,700.00	6,663.97	6,685.91	6,665.33	20.77	21.17	-160.30	-43.95	-204.72	623.31	582.37	40.94	15.223	
6,800.00	6,763.23	6,784.25	6,761.66	21.14	21.50	-160.69	-44.13	-204.40	634.98	593.37	41.61	15.259	

CC - Min centre to center distance or convergent point. SF - min separation factor. ES - min ellipse separation

Pro Directional

Anticollision Report

Company: Matador Resources
Project: Eddy County, NM
Reference Site: Stebbins Federal 20 (114-124-134-204)
Site Error: 3.30 usft
Reference Well: No. 204H
Well Error: 1.10 usft
Reference Wellbore: OH
Reference Design: Prelim Plan C

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
MD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - MWD													Offset Site Error:	3.30 usft
Survey Program: 71-GYRO-NS-CT, 786-MWD+HDGM													Offset Well Error:	1.10 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,900.00	6,862.48	6,871.55	6,858.96	21.52	21.84	-160.94	-44.62	-205.52	647.05	604.75	42.30	15.297		
7,000.00	6,961.74	6,967.14	6,954.51	21.90	22.17	-161.08	-45.52	-207.74	659.61	616.63	42.98	15.347		
7,100.00	7,060.99	7,072.02	7,059.38	22.28	22.53	-161.35	-46.32	-208.73	671.95	628.23	43.71	15.373		
7,200.00	7,160.25	7,174.24	7,161.60	22.66	22.88	-161.71	-46.43	-208.46	683.61	639.19	44.41	15.392		
7,300.00	7,259.50	7,272.96	7,260.32	23.04	23.22	-162.03	-46.42	-208.43	695.19	650.08	45.11	15.412		
7,400.00	7,358.75	7,367.16	7,354.45	23.42	23.54	-162.50	-46.57	-206.27	706.93	661.17	45.76	15.447		
7,500.00	7,458.02	7,526.20	7,507.14	23.80	24.02	-166.23	-44.53	-165.05	718.80	672.18	46.81	15.420		
7,600.00	7,557.44	7,614.81	7,583.78	24.18	24.27	-169.89	-35.91	-121.52	723.01	675.83	47.18	15.325		
7,700.00	7,657.03	7,661.63	7,622.56	24.54	24.41	-172.02	-32.63	-95.52	732.46	684.99	47.46	15.432		
7,800.00	7,756.77	7,699.83	7,653.03	24.90	24.52	-173.83	-31.65	-72.84	748.94	701.52	47.43	15.791		
7,900.00	7,856.61	7,731.00	7,677.60	25.25	24.62	-175.33	-32.51	-53.36	772.94	725.88	47.06	16.425		
8,000.00	7,956.54	7,777.00	7,712.51	25.58	24.78	-177.52	-35.98	-23.61	803.78	757.09	46.69	17.216		
8,100.00	8,056.52	7,820.24	7,743.95	25.91	24.94	-179.56	-40.22	5.76	840.00	793.83	46.16	18.196		
8,200.00	8,156.52	7,870.28	7,777.99	26.24	25.13	-161.50	-44.48	42.15	880.55	834.88	45.67	19.283		
8,300.00	8,256.52	7,921.52	7,809.61	26.56	25.36	-158.86	-47.18	82.37	926.24	881.09	45.14	20.518		
8,400.00	8,356.52	7,964.00	7,833.56	26.88	25.56	-156.62	-48.36	117.43	977.41	932.95	44.46	21.982		
8,500.00	8,456.52	7,982.57	7,843.28	27.20	25.67	-155.63	-48.74	133.24	1,034.06	990.64	43.41	23.819		
8,600.00	8,556.52	8,011.00	7,857.05	27.53	25.82	-154.11	-49.42	158.10	1,096.07	1,053.48	42.58	25.738		
8,700.00	8,656.52	8,011.00	7,857.05	27.85	25.82	-154.11	-49.42	158.10	1,162.52	1,121.14	41.38	28.091		
8,800.00	8,756.51	8,038.12	7,868.97	28.14	25.99	-150.45	-50.07	182.45	1,232.60	1,192.12	40.48	30.447		
8,900.00	8,855.54	8,057.00	7,876.59	28.13	26.10	-151.74	-50.44	199.72	1,301.55	1,262.02	39.54	32.921		
9,000.00	8,950.82	8,078.99	7,884.74	28.11	26.25	-144.78	-50.83	220.14	1,365.83	1,327.14	38.69	35.299		
9,100.00	9,039.45	8,104.00	7,893.01	28.10	26.42	-139.45	-51.28	243.73	1,423.81	1,385.84	37.97	37.498		
9,200.00	9,118.74	8,140.81	7,903.74	28.11	26.69	-135.37	-51.79	278.94	1,473.79	1,436.29	37.50	39.304		
9,300.00	9,186.28	8,180.20	7,913.64	28.14	27.00	-132.47	-51.85	317.06	1,514.19	1,477.01	37.17	40.732		
9,400.00	9,240.02	8,222.56	7,922.17	28.22	27.36	-130.49	-51.05	358.54	1,544.21	1,507.18	37.03	41.702		
9,500.00	9,278.32	8,264.70	7,928.56	28.40	27.74	-129.28	-49.27	400.15	1,563.05	1,525.99	37.06	42.177		
9,600.00	9,300.03	8,307.28	7,932.49	28.79	28.14	-128.73	-46.26	442.43	1,570.56	1,533.28	37.28	42.124		
9,700.00	9,305.00	8,361.38	7,934.73	29.44	28.69	-128.66	-41.14	496.24	1,566.59	1,528.81	37.78	41.468		
9,800.00	9,305.00	8,432.00	7,936.07	30.31	29.45	-128.49	-35.23	566.60	1,560.77	1,522.28	38.50	40.541		
9,900.00	9,305.00	8,494.79	7,936.66	31.34	30.20	-128.39	-31.63	629.28	1,557.06	1,517.75	39.31	39.607		
10,000.00	9,305.00	8,564.27	7,937.03	32.51	31.07	-128.33	-29.81	698.72	1,555.31	1,515.01	40.29	38.598		
10,038.38	9,305.00	8,590.77	7,936.96	33.00	31.42	-128.32	-29.53	725.23	1,555.16	1,514.45	40.71	38.204		
10,100.00	9,305.00	8,635.98	7,936.63	33.80	32.03	-128.31	-29.50	770.44	1,555.52	1,514.12	41.40	37.571		
10,200.00	9,305.00	8,718.39	7,935.29	35.20	33.20	-128.30	-29.91	852.83	1,557.16	1,514.48	42.68	36.483		
10,300.00	9,305.00	8,810.18	7,933.01	36.69	34.59	-128.28	-30.64	944.59	1,559.67	1,515.55	44.12	35.352		
10,400.00	9,305.00	9,017.73	7,935.22	38.26	37.98	-128.34	-31.41	1,152.07	1,558.81	1,512.05	46.75	33.340		
10,500.00	9,305.00	9,122.48	7,940.55	39.91	39.81	-128.43	-31.51	1,256.68	1,564.33	1,505.71	48.62	31.970		
10,600.00	9,305.00	9,214.80	7,945.12	41.62	41.47	-128.52	-31.73	1,348.88	1,550.06	1,499.63	50.43	30.737		
10,700.00	9,305.00	9,307.57	7,949.67	43.38	43.18	-128.64	-32.98	1,441.53	1,546.35	1,494.00	52.34	29.544		
10,800.00	9,305.00	9,403.21	7,954.63	45.19	44.98	-128.80	-35.26	1,537.02	1,542.90	1,488.52	54.38	28.370		
10,900.00	9,305.00	9,491.44	7,959.42	47.05	46.67	-128.99	-38.63	1,625.06	1,539.96	1,483.52	56.44	27.285		
11,000.00	9,305.00	9,573.53	7,963.03	48.94	48.27	-129.16	-41.97	1,707.00	1,538.06	1,479.60	58.47	26.307		
11,100.00	9,305.00	9,659.16	7,965.78	50.87	49.96	-129.33	-45.76	1,792.50	1,537.36	1,476.78	60.58	25.377		
11,200.00	9,305.00	9,779.45	7,968.45	52.83	52.36	-129.43	-47.36	1,912.73	1,535.98	1,472.90	63.08	24.350		
11,300.00	9,305.00	9,861.08	7,969.21	54.81	54.01	-129.42	-46.50	1,994.35	1,534.66	1,469.62	65.04	23.597		
11,320.75	9,305.00	9,874.30	7,969.24	55.23	54.27	-129.42	-46.50	2,007.58	1,534.61	1,469.20	65.41	23.462		
11,400.00	9,305.00	9,929.00	7,969.08	56.82	55.39	-129.44	-47.39	2,062.27	1,535.36	1,468.47	66.89	22.953		
11,500.00	9,305.00	10,103.69	7,968.82	58.86	58.98	-129.42	-46.91	2,236.91	1,535.91	1,465.88	70.03	21.933		
11,600.00	9,305.00	10,194.81	7,969.82	60.91	60.87	-129.29	-42.68	2,327.93	1,532.65	1,460.60	72.05	21.272		

CC - Min centre to center distance or convergent point. SF - min separation factor. ES - min ellipse separation

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - MWD													Offset Site Error:	3.30 usft
Survey Program: 71-GYRO-NS-CT, 786-MWD+HDGM													Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,700.00	9,305.00	10,291.14	7,970.30	62.98	62.88	29.17	-38.72	2,424.18	1,530.17	1,456.03	74.14	20.638		
11,800.00	9,305.00	10,381.78	7,970.75	65.06	64.79	29.07	-35.57	2,514.76	1,528.00	1,451.80	76.21	20.051		
11,900.00	9,305.00	10,467.70	7,970.94	67.16	67.03	28.95	-31.76	2,620.61	1,526.07	1,447.64	78.43	19.457		
12,000.00	9,305.00	10,572.76	7,970.77	69.27	68.83	28.84	-28.46	2,705.61	1,524.34	1,443.92	80.41	18.956		
12,100.00	9,305.00	10,667.78	7,969.97	71.40	70.86	28.71	-25.07	2,800.56	1,523.31	1,440.81	82.50	18.464		
12,200.00	9,305.00	10,822.49	7,972.31	73.54	74.19	28.58	-20.13	2,955.16	1,520.31	1,434.97	85.34	17.814		
12,300.00	9,305.00	10,908.05	7,976.04	75.88	76.05	28.61	-18.98	3,040.82	1,515.87	1,428.29	87.58	17.308		
12,400.00	9,305.00	10,975.25	7,978.61	77.84	77.51	28.70	-20.34	3,107.76	1,513.42	1,423.72	89.70	16.872		
12,467.75	9,305.00	11,022.16	7,980.08	79.30	78.53	28.79	-22.37	3,154.60	1,512.96	1,421.75	91.21	16.588		
12,500.00	9,305.00	11,051.00	7,980.84	80.00	79.16	28.86	-24.03	3,183.38	1,513.08	1,421.03	92.05	16.437		
12,600.00	9,305.00	11,122.12	7,982.24	82.17	80.71	29.04	-28.82	3,254.32	1,514.49	1,420.11	94.38	16.046		
12,700.00	9,305.00	11,251.98	7,985.02	84.35	83.56	29.38	-37.47	3,383.86	1,515.89	1,418.04	97.85	15.492		
12,800.00	9,305.00	11,342.79	7,987.28	86.54	85.56	29.59	-42.78	3,474.49	1,516.55	1,415.96	100.59	15.077		
12,900.00	9,305.00	11,481.04	7,991.46	88.73	88.61	29.86	-48.61	3,612.55	1,515.92	1,411.81	104.11	14.561		
13,000.00	9,305.00	11,580.64	7,994.78	90.93	90.81	29.98	-50.59	3,712.07	1,513.98	1,407.13	106.86	14.168		
13,100.00	9,305.00	11,658.37	7,996.80	93.13	92.54	30.08	-52.45	3,789.75	1,512.93	1,403.65	109.28	13.845		
13,110.44	9,305.00	11,665.89	7,996.94	93.36	92.70	30.09	-52.69	3,797.27	1,512.92	1,403.40	109.52	13.814		
13,200.00	9,305.00	11,738.55	7,997.79	95.34	94.32	30.19	-55.31	3,869.87	1,513.57	1,401.81	111.75	13.544		
13,300.00	9,305.00	11,829.70	7,996.79	97.55	96.34	30.19	-56.05	3,961.01	1,514.89	1,400.72	114.17	13.269		
13,400.00	9,305.00	11,948.07	7,993.21	99.76	98.97	30.06	-54.25	4,079.31	1,516.84	1,400.14	116.70	12.998		
13,500.00	9,305.00	12,069.16	7,991.80	101.98	101.66	29.90	-50.31	4,200.33	1,516.08	1,396.91	119.18	12.721		
13,571.50	9,305.00	12,127.21	7,990.92	103.57	102.95	29.82	-48.22	4,258.33	1,515.72	1,395.11	120.61	12.567		
13,600.00	9,305.00	12,149.47	7,990.45	104.21	103.44	29.78	-47.51	4,280.58	1,515.78	1,394.61	121.17	12.510		
13,700.00	9,305.00	12,334.31	7,992.30	106.44	107.56	29.63	-41.87	4,465.27	1,513.33	1,388.92	124.41	12.164		
13,800.00	9,305.00	12,438.29	7,996.78	108.67	109.89	29.59	-38.26	4,569.09	1,507.82	1,380.92	126.90	11.882		
13,900.00	9,305.00	12,557.63	8,000.72	110.90	112.55	29.54	-34.57	4,667.02	1,502.43	1,372.86	129.56	11.596		
14,000.00	9,305.00	12,636.22	8,004.73	113.14	114.31	29.49	-30.92	4,766.72	1,497.09	1,365.38	131.71	11.367		
14,100.00	9,305.00	12,675.00	8,006.29	115.38	115.18	29.47	-29.50	4,805.44	1,493.00	1,359.54	133.47	11.186		
14,100.57	9,305.00	12,675.00	8,006.29	115.39	115.18	29.47	-29.50	4,805.44	1,493.00	1,359.53	133.47	11.186		

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 134H - OH - Gyro-MWD												Offset Site Error:	3.30 usft
Survey Program: 100-GYRO-NS, 693-MWD+HDGM												Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	1.10	1.10	180.00	-30.00	0.00	30.00				
100.00	100.00	101.12	101.12	1.11	1.11	179.13	-29.79	0.45	29.79	27.58	2.21	13.451	
153.30	153.30	154.31	154.30	1.15	1.14	178.16	-29.67	0.95	29.68	27.39	2.29	12.963 CC	
200.00	200.00	200.90	200.90	1.20	1.20	177.24	-29.73	1.43	29.77	27.36	2.40	12.386 ES	
300.00	300.00	300.64	300.63	1.39	1.38	175.70	-30.47	2.29	30.56	27.79	2.76	11.054	
400.00	400.00	400.08	400.04	1.63	1.62	174.89	-32.50	2.91	32.64	29.40	3.24	10.072	
500.00	500.00	499.98	499.90	1.91	1.89	174.40	-35.47	3.48	35.66	31.86	3.79	9.405	
600.00	600.00	599.91	599.77	2.21	2.19	173.96	-38.55	4.08	38.78	34.40	4.39	8.841	
700.00	700.00	700.16	699.98	2.53	2.39	174.43	-41.32	4.03	41.53	36.63	4.90	8.477	
800.00	800.00	800.54	800.26	2.86	2.44	179.76	-43.44	0.18	43.45	38.17	5.28	8.235	
900.00	900.00	900.40	899.92	3.19	2.54	-172.37	-45.08	-6.04	45.49	39.78	5.71	7.965	
1,000.00	1,000.00	1,000.36	999.67	3.53	2.68	-165.36	-46.47	-12.14	48.05	41.85	6.20	7.753	
1,100.00	1,100.00	1,100.25	1,099.42	3.87	2.87	-159.85	-47.86	-17.56	51.00	44.28	6.73	7.582	
1,200.00	1,200.00	1,200.88	1,199.91	4.22	3.08	-155.38	-49.01	-22.47	53.93	46.64	7.29	7.400	
1,300.00	1,300.00	1,301.97	1,300.90	4.56	3.33	-150.54	-47.72	-26.95	54.80	46.93	7.88	6.957	
1,400.00	1,400.00	1,401.93	1,400.69	4.91	3.58	-144.51	-44.72	-31.89	54.92	46.44	8.48	6.474	
1,500.00	1,499.99	1,501.11	1,499.63	5.26	3.86	-121.90	-41.66	-37.94	56.82	47.71	9.11	6.239	
1,600.00	1,599.96	1,600.59	1,598.87	5.44	4.15	-118.00	-39.57	-44.56	61.19	51.62	9.57	6.392	
1,700.00	1,699.86	1,700.46	1,698.59	5.47	4.46	-117.55	-38.90	-50.02	66.66	56.77	9.90	6.735	
1,800.00	1,799.68	1,800.08	1,798.07	5.51	4.77	-118.74	-38.58	-55.17	73.00	62.75	10.26	7.118	
1,900.00	1,899.37	1,899.63	1,897.47	5.59	5.09	-120.62	-38.29	-60.68	80.50	69.86	10.65	7.561	
2,000.00	1,998.90	1,999.75	1,997.42	5.69	5.42	-122.93	-37.62	-66.31	88.80	77.73	11.07	8.020	
2,100.00	2,098.26	2,099.40	2,096.91	5.81	5.75	-125.40	-36.35	-72.00	97.80	86.27	11.52	8.486	
2,200.00	2,197.51	2,198.39	2,195.69	5.96	6.08	-127.52	-34.79	-78.25	107.60	95.60	12.00	8.965	
2,300.00	2,296.77	2,297.29	2,294.31	6.13	6.42	-128.85	-33.20	-85.54	118.08	105.57	12.50	9.444	
2,400.00	2,396.02	2,397.90	2,394.65	6.31	6.77	-130.03	-31.29	-92.61	128.18	115.15	13.03	9.835	
2,500.00	2,495.28	2,497.74	2,494.30	6.52	7.12	-131.43	-29.41	-98.53	137.78	124.20	13.58	10.148	
2,600.00	2,594.53	2,597.08	2,593.45	6.75	7.46	-132.70	-27.57	-104.24	147.36	133.23	14.13	10.426	
2,700.00	2,693.79	2,695.73	2,691.93	6.98	7.80	-133.90	-26.11	-109.86	157.31	142.61	14.71	10.698	
2,800.00	2,793.04	2,796.45	2,792.46	7.24	8.16	-134.88	-24.80	-116.00	167.68	152.38	15.30	10.960	
2,900.00	2,892.30	2,899.56	2,895.38	7.50	8.52	-135.76	-21.65	-121.37	176.12	160.21	15.91	11.070	
3,000.00	2,991.55	3,000.05	2,995.64	7.77	8.87	-136.36	-17.16	-126.50	183.29	166.77	16.52	11.092	
3,100.00	3,090.81	3,099.41	3,094.69	8.06	9.22	-136.60	-12.33	-132.54	190.56	173.41	17.15	11.112	
3,200.00	3,190.06	3,198.88	3,193.82	8.35	9.57	-136.64	-7.38	-139.19	198.01	180.22	17.79	11.133	
3,300.00	3,289.32	3,297.24	3,291.93	8.65	9.92	-137.05	-3.32	-144.76	205.77	187.34	18.42	11.169	
3,400.00	3,388.57	3,394.77	3,389.39	8.96	10.26	-138.31	-1.54	-147.66	214.44	195.39	19.05	11.255	
3,500.00	3,487.82	3,494.11	3,488.70	9.27	10.61	-139.66	-0.51	-150.28	223.81	204.12	19.69	11.364	
3,600.00	3,587.08	3,593.71	3,588.25	9.59	10.96	-140.85	0.69	-153.08	233.20	212.86	20.34	11.463	
3,700.00	3,686.33	3,694.23	3,688.73	9.92	11.31	-142.01	2.06	-155.62	242.44	221.44	21.00	11.544	
3,800.00	3,785.59	3,793.63	3,788.08	10.25	11.66	-143.02	3.65	-158.25	251.58	229.92	21.66	11.616	
3,900.00	3,884.84	3,893.86	3,888.25	10.58	12.01	-143.90	5.49	-161.13	260.64	238.32	22.32	11.675	
4,000.00	3,984.10	3,994.11	3,988.44	10.92	12.36	-144.76	7.57	-163.79	269.48	246.49	22.99	11.719	
4,100.00	4,083.35	4,094.29	4,088.57	11.26	12.71	-145.62	9.77	-166.11	278.15	254.48	23.67	11.753	
4,200.00	4,182.61	4,194.63	4,188.86	11.60	13.06	-146.43	12.23	-168.30	286.59	262.25	24.34	11.775	
4,300.00	4,281.86	4,290.57	4,284.74	11.95	13.40	-147.13	14.56	-170.61	295.19	270.19	25.00	11.809	
4,400.00	4,381.12	4,384.35	4,378.44	12.30	13.73	-147.59	15.01	-174.40	306.10	280.45	25.65	11.936	
4,500.00	4,480.37	4,484.67	4,478.65	12.65	14.09	-147.95	15.13	-179.16	317.57	291.24	26.34	12.058	
4,600.00	4,579.63	4,585.71	4,579.60	13.01	14.45	-148.33	15.77	-183.49	328.45	301.42	27.04	12.149	
4,700.00	4,678.88	4,685.08	4,678.89	13.37	14.81	-148.76	16.51	-187.28	339.12	311.40	27.73	12.231	
4,800.00	4,778.13	4,784.86	4,778.60	13.72	15.17	-149.18	17.17	-190.97	349.86	321.44	28.42	12.311	
4,900.00	4,877.39	4,884.23	4,877.91	14.08	15.52	-149.62	17.91	-194.37	360.47	331.36	29.11	12.383	

CC - Min centre to center distance or covergent point. SF - min separation factor. ES - min ellipse separation

Pro Directional

Anticollision Report

Company: Matador Resources
Project: Eddy County, NM
Reference Site: Stebbins Federal 20 (114-124-134-204)
Site Error: 3.30 usft
Reference Well: No. 204H
Well Error: 1.10 usft
Reference Wellbore: OH
Reference Design: Prelim Plan C

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
MD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 134H - OH - Gyro-MWD													Offset Site Error:	3.30 usft
Survey Program: 100-GYRO-NS, 693-MWD+HDGM													Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,976.64	4,983.86	4,977.47	14.45	15.88	-150.04	18.60	-197.72	371.14	341.33	29.81	12.452		
5,100.00	5,075.90	5,083.98	5,077.54	14.81	16.23	-150.46	19.40	-200.94	381.68	351.18	30.50	12.512		
5,200.00	5,175.15	5,184.90	5,178.44	15.17	16.58	-151.10	20.14	-202.51	391.96	360.77	31.19	12.566		
5,300.00	5,274.41	5,285.25	5,278.79	15.54	16.91	-151.99	20.78	-202.05	401.98	370.12	31.86	12.617		
5,400.00	5,373.66	5,384.72	5,378.25	15.91	17.24	-152.79	21.60	-201.85	411.96	379.42	32.53	12.662		
5,500.00	5,472.92	5,484.41	5,477.94	16.28	17.58	-153.50	22.55	-202.02	421.94	388.72	33.22	12.702		
5,600.00	5,572.17	5,583.65	5,577.18	16.65	17.93	-154.14	23.61	-202.48	431.92	398.02	33.90	12.739		
5,700.00	5,671.43	5,681.38	5,674.89	17.02	18.27	-154.70	24.49	-203.27	442.17	407.58	34.59	12.784		
5,800.00	5,770.68	5,779.44	5,772.94	17.39	18.62	-155.18	25.00	-204.51	452.89	417.62	35.28	12.839		
5,900.00	5,869.94	5,879.63	5,873.11	17.76	18.97	-155.56	25.69	-206.51	463.58	427.60	35.98	12.884		
6,000.00	5,969.19	5,981.99	5,975.44	18.13	19.33	-155.91	26.63	-208.71	474.09	437.40	36.70	12.919		
6,100.00	6,068.44	6,086.86	6,080.30	18.51	19.70	-156.48	28.48	-208.83	483.52	446.11	37.41	12.923		
6,200.00	6,167.70	6,186.32	6,179.73	18.88	20.03	-157.09	30.81	-208.20	492.35	454.25	38.10	12.923		
6,300.00	6,266.95	6,284.42	6,277.81	19.26	20.37	-157.62	32.83	-207.98	501.54	462.76	38.78	12.933		
6,400.00	6,366.21	6,382.92	6,376.29	19.63	20.71	-158.14	34.66	-207.78	510.98	471.52	39.46	12.948		
6,500.00	6,465.46	6,481.39	6,474.75	20.01	21.05	-158.62	36.32	-207.78	520.65	480.50	40.15	12.967		
6,600.00	6,564.72	6,580.68	6,574.03	20.39	21.39	-159.06	37.90	-208.04	530.46	489.62	40.85	12.987		
6,700.00	6,663.97	6,678.96	6,672.29	20.77	21.74	-159.45	39.39	-208.52	540.41	498.87	41.54	13.010		
6,800.00	6,763.23	6,781.07	6,774.39	21.14	22.09	-159.83	41.05	-209.13	550.27	508.02	42.25	13.023		
6,900.00	6,862.48	6,870.87	6,864.18	21.52	22.41	-160.14	41.93	-209.84	560.79	517.90	42.90	13.073		
7,000.00	6,961.74	6,956.40	6,949.70	21.90	22.70	-160.50	41.02	-209.88	573.34	529.86	43.49	13.184		
7,100.00	7,060.99	7,054.45	7,047.71	22.28	23.02	-160.92	38.60	-209.67	587.29	543.14	44.16	13.300		
7,200.00	7,160.25	7,153.46	7,146.70	22.66	23.35	-161.28	36.20	-209.97	601.25	556.41	44.84	13.410		
7,300.00	7,259.50	7,256.94	7,250.15	23.04	23.69	-161.67	34.10	-209.95	614.83	569.28	45.55	13.499		
7,400.00	7,358.75	7,357.87	7,351.08	23.42	24.02	-162.08	32.56	-209.43	627.91	581.68	46.24	13.580		
7,500.00	7,458.02	7,457.53	7,450.72	23.80	24.35	-162.48	31.21	-208.94	640.78	593.86	46.92	13.657		
7,600.00	7,557.44	7,557.89	7,551.07	24.18	24.68	-162.87	29.98	-208.08	652.24	604.64	47.60	13.702		
7,700.00	7,657.03	7,657.54	7,650.71	24.54	25.00	-163.22	28.91	-207.12	661.93	613.65	48.28	13.712		
7,800.00	7,756.77	7,756.91	7,750.07	24.90	25.33	-163.51	27.74	-206.11	670.06	621.12	48.95	13.690		
7,900.00	7,856.61	7,855.89	7,849.03	25.25	25.65	-163.77	26.61	-204.76	676.50	626.89	49.61	13.636		
8,000.00	7,956.54	7,954.81	7,947.94	25.58	25.98	-163.99	25.25	-203.29	681.52	631.25	50.27	13.556		
8,100.00	8,056.52	8,053.29	8,046.40	25.91	26.30	-164.14	23.81	-202.23	684.95	634.02	50.93	13.448		
8,200.00	8,156.52	8,152.53	8,145.62	26.24	26.63	-179.27	22.12	-201.25	687.04	635.44	51.60	13.316		
8,300.00	8,256.52	8,252.30	8,245.28	26.56	26.96	-178.92	20.44	-196.96	688.79	636.53	52.26	13.181		
8,400.00	8,356.52	8,355.19	8,348.05	26.88	27.30	-178.56	18.86	-192.61	690.42	637.48	52.94	13.042		
8,500.00	8,456.52	8,455.05	8,447.90	27.20	27.63	-178.49	17.54	-191.73	691.77	638.16	53.61	12.904		
8,600.00	8,556.52	8,550.36	8,543.19	27.53	27.95	-178.39	16.24	-190.59	693.18	638.94	54.25	12.779		
8,700.00	8,656.52	8,626.00	8,618.35	27.85	28.19	-177.81	13.45	-183.42	697.16	642.46	54.70	12.745		
8,800.00	8,756.51	8,701.06	8,690.25	28.14	28.42	-177.81	8.98	-162.72	704.80	649.82	54.98	12.819		
8,900.00	8,856.54	8,774.53	8,756.55	28.13	28.63	-177.81	3.68	-131.62	715.31	660.45	54.86	13.038		
9,000.00	8,950.82	8,842.07	8,813.83	28.11	28.83	-177.81	-2.54	-96.44	728.15	673.53	54.62	13.331		
9,100.00	9,039.45	8,906.00	8,864.14	28.10	29.01	-177.81	-9.96	-57.74	742.86	688.54	54.32	13.676		
9,200.00	9,118.74	8,973.41	8,913.32	28.11	29.23	-177.81	-19.83	-12.74	758.85	704.68	54.17	14.009		
9,300.00	9,186.28	9,072.04	8,980.29	28.14	29.58	-177.81	-34.18	58.21	772.57	717.89	54.69	14.127		
9,400.00	9,240.02	9,194.15	9,057.25	28.22	30.12	-177.81	-48.71	151.77	781.30	725.46	55.84	13.993		
9,500.00	9,278.32	9,350.62	9,134.49	28.40	31.02	-177.81	-50.94	287.46	779.40	721.76	57.64	13.523		
9,600.00	9,300.03	9,441.47	9,168.69	28.79	31.66	-177.81	-46.81	371.51	771.49	712.48	59.01	13.074		
9,700.00	9,305.00	9,504.25	9,187.13	29.44	32.17	-177.81	-44.67	431.44	763.78	703.37	60.41	12.644		
9,800.00	9,305.00	9,563.49	9,198.49	30.31	32.68	-177.81	-44.66	489.56	760.74	698.82	61.92	12.286		
9,900.00	9,305.00	9,667.61	9,205.26	31.34	33.68	-177.81	-45.38	593.37	760.47	696.43	64.04	11.874		

CC - Min centre to center distance or covergent point. SF - min separation factor ES - min ellipse separation

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 134H - OH - Gyro-MWD														Offset Site Error:	3.30 usft
Survey Program: 100-GYRO-NS, 693-MWD+HDM														Offset Well Error:	1.10 usft
Reference		Offset		Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,000.00	9,305.00	9,764.31	9,204.96	32.51	34.71	82.36	-44.92	690.06	759.95	693.71	66.24	11.472			
10,100.00	9,305.00	9,870.98	9,207.45	33.80	35.97	82.54	-44.28	796.68	758.96	690.12	68.84	11.025			
10,200.00	9,305.00	9,968.44	9,210.40	35.20	37.24	82.75	-43.52	894.09	757.73	686.20	71.53	10.593			
10,300.00	9,305.00	10,064.51	9,212.13	36.69	38.56	82.88	-43.28	990.14	757.17	682.81	74.36	10.183			
10,400.00	9,305.00	10,167.42	9,208.79	38.26	40.07	82.62	-42.32	1,092.99	756.57	679.17	77.40	9.775			
10,500.00	9,305.00	10,268.95	9,203.85	39.91	41.63	82.23	-40.74	1,194.38	755.59	675.06	80.54	9.382			
10,600.00	9,305.00	10,387.63	9,202.80	41.62	43.54	82.13	-38.54	1,313.03	753.88	669.72	84.16	8.958			
10,700.00	9,305.00	10,478.30	9,202.13	43.38	45.06	82.04	-35.56	1,403.64	750.68	663.29	87.40	8.589			
10,800.00	9,305.00	10,563.39	9,198.98	45.19	46.53	81.79	-34.12	1,488.66	749.44	658.88	90.57	8.275			
10,812.24	9,305.00	10,573.82	9,198.61	45.42	46.71	81.76	-34.06	1,499.08	749.43	658.47	90.96	8.239			
10,900.00	9,305.00	10,656.96	9,195.64	47.05	48.18	81.54	-34.07	1,582.17	749.82	655.84	93.98	7.979			
11,000.00	9,305.00	10,759.16	9,191.34	48.94	50.03	81.21	-34.08	1,684.28	750.38	652.76	97.63	7.686			
11,100.00	9,305.00	10,861.73	9,186.74	50.87	51.93	80.86	-33.61	1,786.75	750.54	649.20	101.34	7.408			
11,200.00	9,305.00	10,956.19	9,181.56	52.83	53.71	80.46	-33.15	1,881.06	750.88	645.96	104.92	7.157			
11,300.00	9,305.00	11,058.32	9,175.85	54.81	55.67	80.03	-32.97	1,983.02	751.58	642.87	108.70	6.914			
11,400.00	9,305.00	11,159.84	9,173.62	56.82	57.64	79.86	-33.08	2,084.51	751.99	639.39	112.59	6.679			
11,500.00	9,305.00	11,251.65	9,173.66	58.86	59.45	79.88	-34.05	2,176.32	752.93	636.58	116.35	6.471			
11,600.00	9,305.00	11,352.49	9,175.57	60.91	61.47	80.04	-35.84	2,277.12	754.27	633.84	120.43	6.263			
11,700.00	9,305.00	11,452.07	9,177.52	62.98	63.48	80.21	-37.53	2,376.66	755.54	631.02	124.51	6.068			
11,800.00	9,305.00	11,547.56	9,179.43	65.06	65.42	80.38	-39.51	2,472.11	757.17	628.64	128.52	5.891			
11,900.00	9,305.00	11,642.66	9,181.47	67.16	67.38	80.56	-42.15	2,567.16	759.47	626.91	132.56	5.729			
12,000.00	9,305.00	11,749.57	9,183.73	69.27	69.59	80.77	-45.39	2,674.00	762.07	625.11	136.96	5.564			
12,100.00	9,305.00	11,865.48	9,186.21	71.40	72.01	80.96	-46.17	2,789.87	762.25	620.65	141.60	5.383			
12,177.46	9,305.00	11,939.98	9,186.82	73.05	73.57	81.00	-46.05	2,864.37	761.97	617.17	144.79	5.263			
12,200.00	9,305.00	11,960.38	9,186.83	73.54	74.00	81.00	-46.09	2,884.77	761.99	616.31	145.68	5.231			
12,300.00	9,305.00	12,059.20	9,186.59	75.68	76.08	80.99	-46.68	2,983.59	762.54	612.68	149.86	5.088			
12,400.00	9,305.00	12,161.30	9,187.78	77.84	78.25	81.08	-47.22	3,085.67	762.80	608.62	154.18	4.947			
12,500.00	9,305.00	12,257.32	9,189.44	80.00	80.29	81.21	-47.89	3,181.67	763.15	604.77	158.38	4.818			
12,600.00	9,305.00	12,371.48	9,191.18	82.17	82.74	81.35	-48.19	3,295.83	763.12	600.07	163.05	4.680			
12,700.00	9,305.00	12,484.61	9,193.67	84.35	85.17	81.52	-46.06	3,408.90	760.79	593.10	167.69	4.537			
12,800.00	9,305.00	12,580.12	9,195.11	86.54	87.22	81.59	-43.81	3,504.37	758.20	586.27	171.93	4.410			
12,900.00	9,305.00	12,674.89	9,195.23	88.73	89.27	81.58	-41.95	3,599.13	756.16	580.04	176.12	4.293			
13,000.00	9,305.00	12,764.67	9,195.40	90.93	91.22	81.58	-41.10	3,688.90	755.13	574.93	180.20	4.190			
13,013.33	9,305.00	12,776.02	9,195.41	91.22	91.46	81.58	-41.10	3,700.25	755.11	574.38	180.73	4.178			
13,100.00	9,305.00	12,855.72	9,195.30	93.13	93.20	81.58	-41.78	3,779.95	755.77	571.47	184.30	4.101			
13,200.00	9,305.00	12,974.69	9,196.66	95.34	95.80	81.68	-41.66	3,898.90	755.42	566.24	189.18	3.993			
13,300.00	9,305.00	13,076.06	9,199.29	97.55	98.01	81.85	-39.93	4,000.23	753.28	559.63	193.65	3.890			
13,400.00	9,305.00	13,183.94	9,201.58	99.76	100.38	82.01	-38.37	4,108.07	751.50	553.25	198.25	3.791			
13,500.00	9,305.00	13,285.06	9,204.86	101.98	102.60	82.23	-35.65	4,209.10	748.32	545.56	202.75	3.691			
13,600.00	9,305.00	13,383.14	9,208.35	104.21	104.76	82.47	-33.42	4,307.09	745.50	538.29	207.21	3.598			
13,700.00	9,305.00	13,485.64	9,210.78	106.44	107.02	82.63	-30.87	4,409.53	742.65	530.92	211.73	3.508			
13,800.00	9,305.00	13,590.86	9,212.43	108.67	109.34	82.72	-27.55	4,514.68	739.25	522.98	216.27	3.418			
13,900.00	9,305.00	13,687.26	9,213.07	110.90	111.47	82.74	-24.30	4,611.03	735.73	515.10	220.63	3.335			
14,000.00	9,305.00	13,780.94	9,212.05	113.14	113.54	82.63	-21.58	4,704.66	732.91	508.04	224.88	3.259			
14,100.00	9,305.00	13,880.89	9,210.13	115.38	115.76	82.46	-18.97	4,804.55	730.49	501.27	229.22	3.187			
14,100.57	9,305.00	13,881.45	9,210.12	115.39	115.77	82.46	-18.95	4,805.12	730.47	501.23	229.24	3.186 SF			

Pro Directional

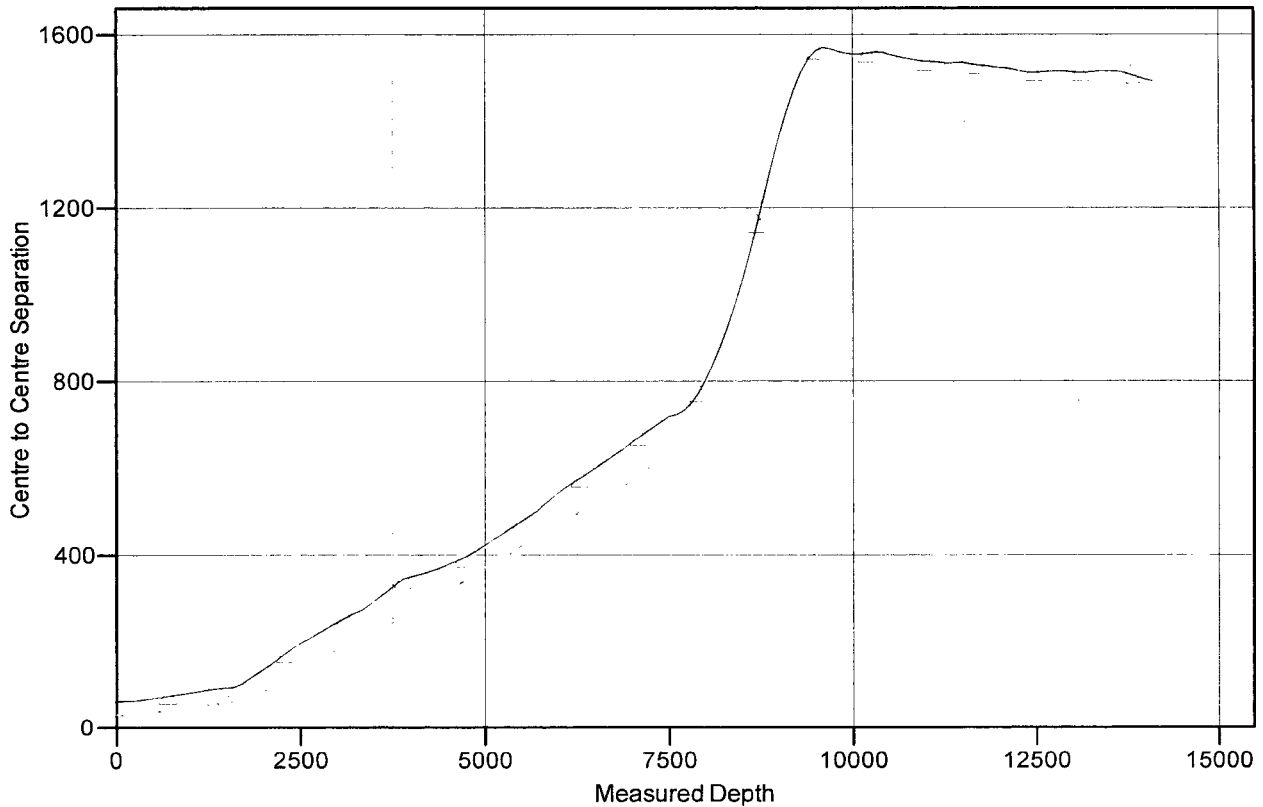
Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM	TVD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Reference Site:	Stebbins Federal 20 (114-124-134-204)	MD Reference:	Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	No. 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.10 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim Plan C	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3273.50usft (GL: 3245' + KB:
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: No. 204H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.12°

Ladder Plot



LEGEND

→ No. 134H, OH, Gyro-MWD V0 → No. 124H, OH, MWD V0

Pro Directional

Anticollision Report

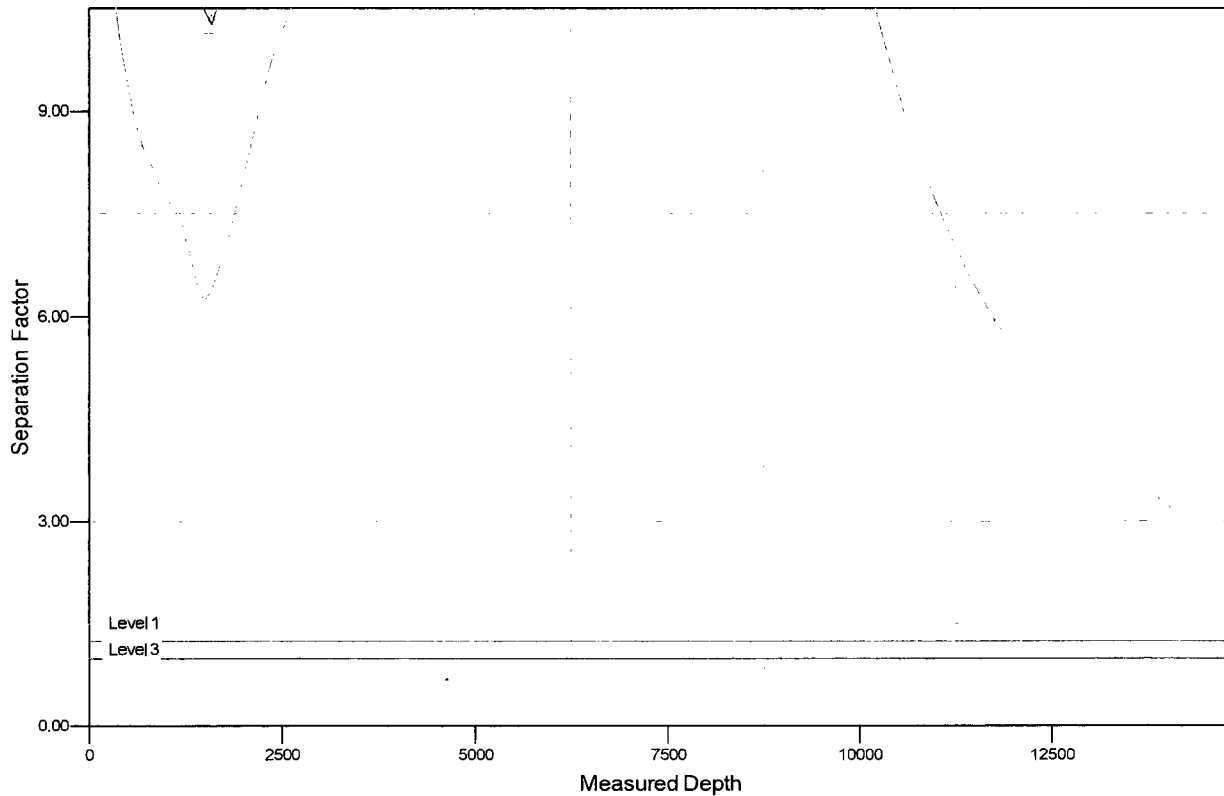
Company: Matador Resources
Project: Eddy County, NM
Reference Site: Stebbins Federal 20 (114-124-134-204)
Site Error: 3.30 usft
Reference Well: No. 204H
Well Error: 1.10 usft
Reference Wellbore: OH
Reference Design: Prelim Plan C

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
MD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to Well @ 3273.50usft (GL: 3245' + KB:
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: No. 204H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.12°

Separation Factor Plot

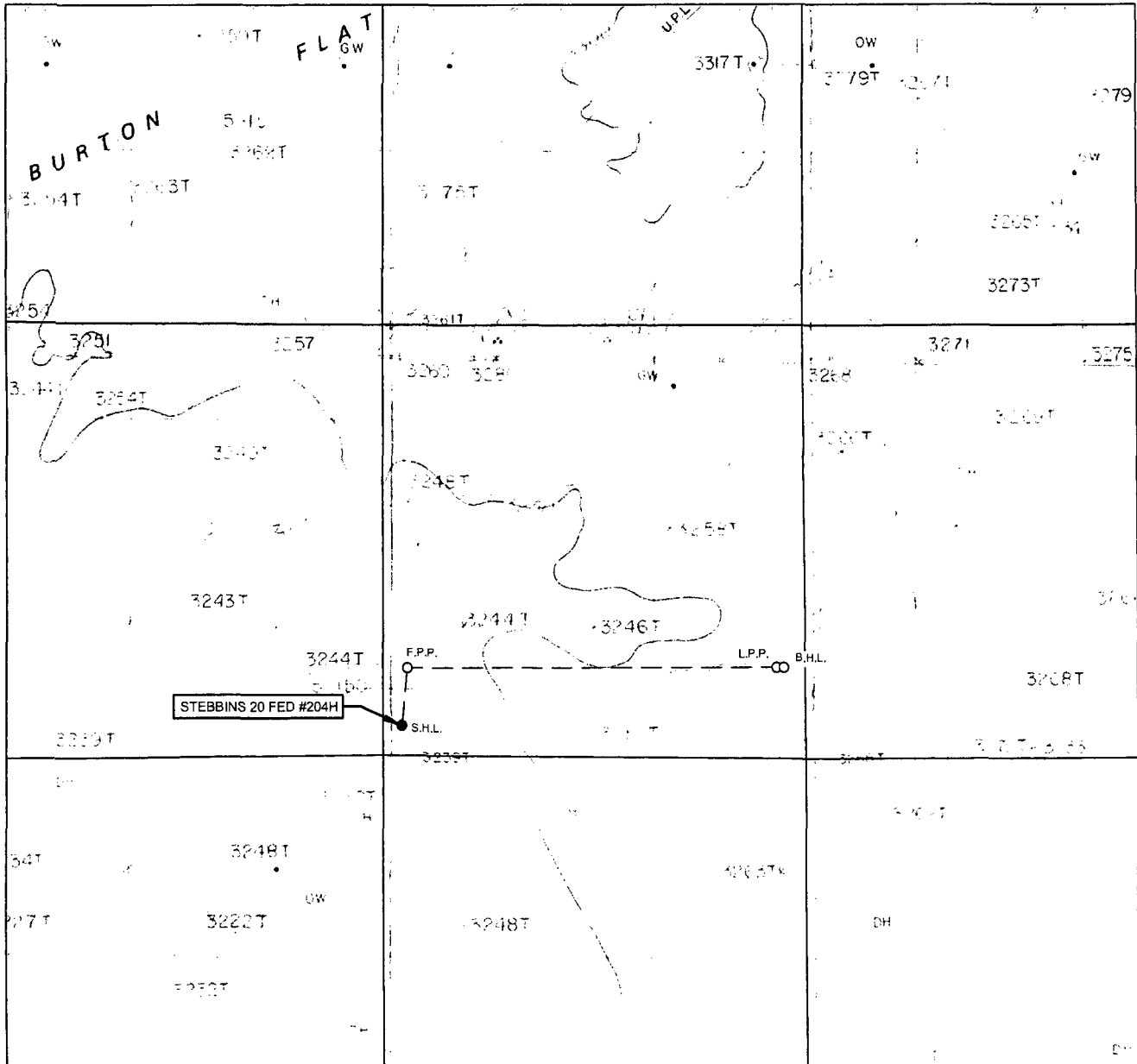


LEGEND

No. 134H, OH, Gyro-MWD V0

No. 124H, OH, MWD V0

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: STEBBINS 20 FED #204H

SECTION 20 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3245'
 DESCRIPTION 391' FSL & 260' FWL

LATITUDE N 32.5527914 LONGITUDE W 104.1049369



SCALE: 1" = 2000'
 0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

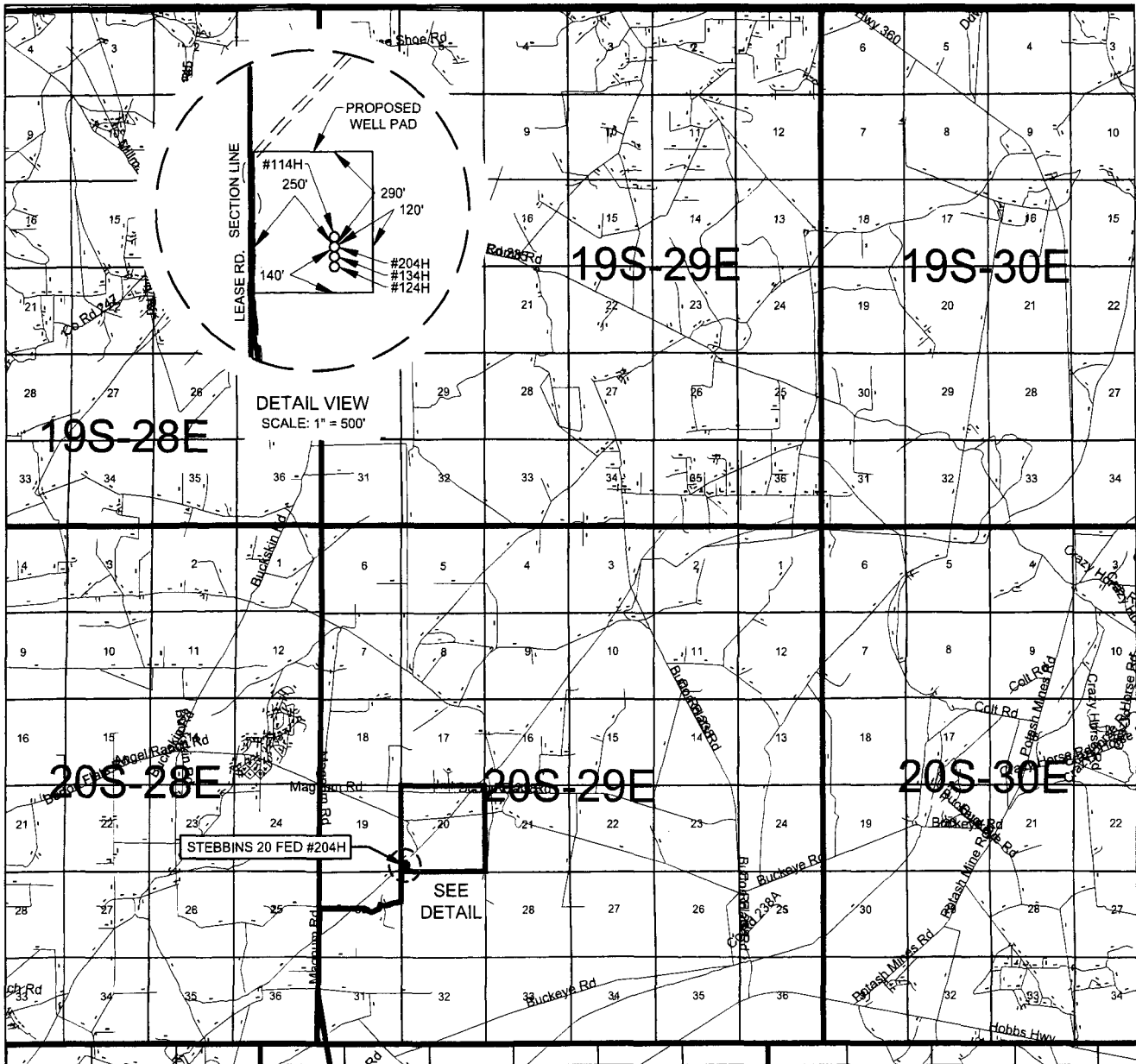
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
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 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

VICINITY MAP



LEASE NAME & WELL NO.: STEBBINS 20 FED #204H

SECTION 20 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 391' FSL & 260' FWL

DISTANCE & DIRECTION

FROM INT. OF US-285 AND US-180/US-62 E/W GREENE ST. GO EAST ON
US-180 E/US-62 E/W ±8.3 MILES, THENCE NORTH (LEFT) ON MAGNUM
RD. ±4.5 MILES, THENCE EAST (RIGHT) ON LEASE RD. ±1.0 MILES,
THENCE NORTH (LEFT) ON LEASE RD. ±0.4 MILES, TO A POINT ±250
FEET WEST OF THE LOCATION

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.



SCALE: 1" = 10000'
 0' 5000' 10000'



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

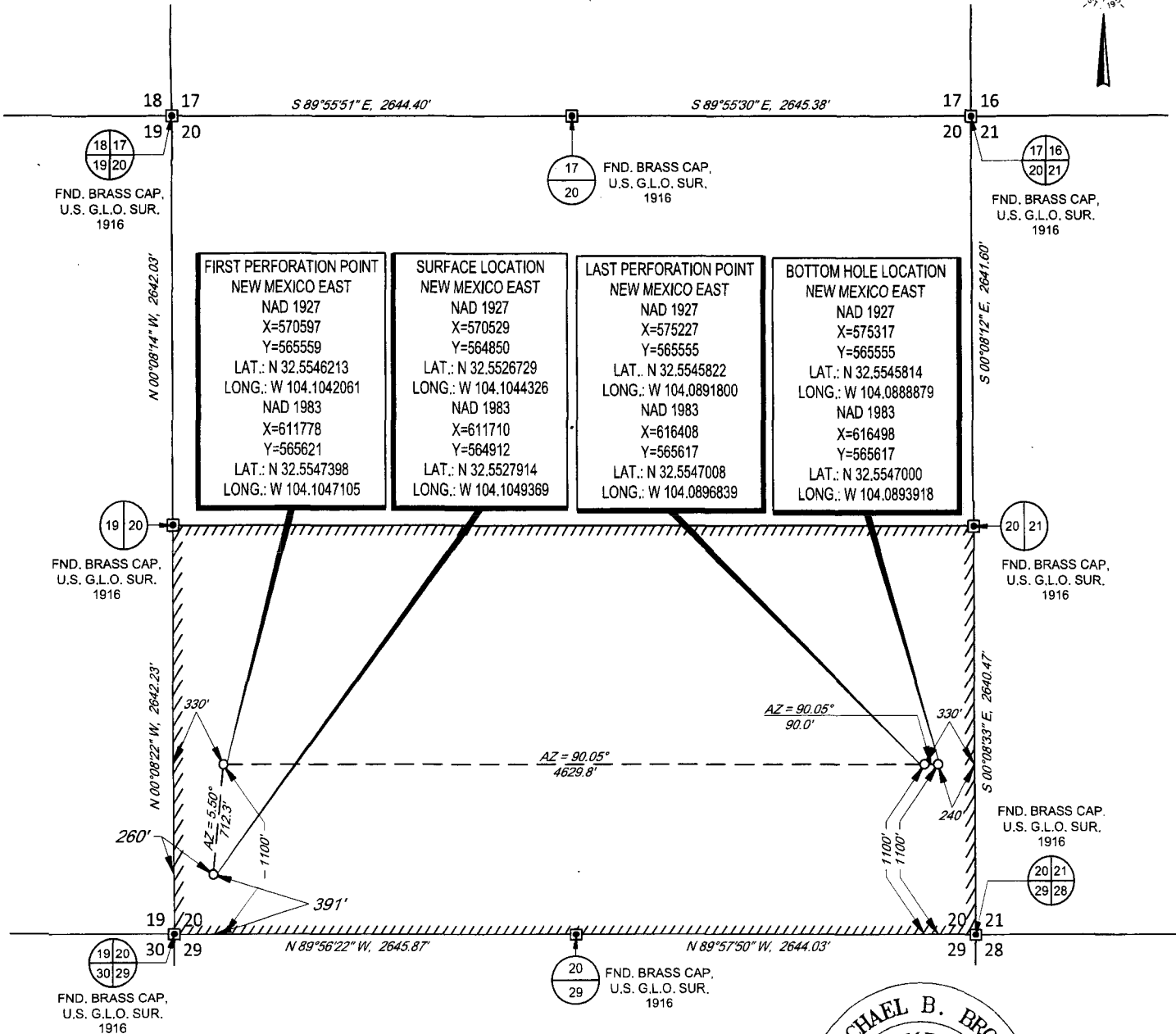
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
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 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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SCALE: 1" = 1000'

0' 500' 1000'



SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



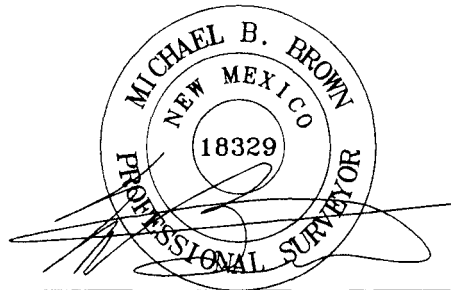
LEASE NAME & WELL NO.: STEBBINS 20 FED #204H
SECTION 20 TWP 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 391' FSL & 260' FWL

DISTANCE & DIRECTION

FROM INT. OF US-285 AND US-180/US-62 E/W GREENE ST. GO EAST ON
US-180 E/W ±8.3 MILES. THENCE NORTH (LEFT) ON MAGNUM
RD. ±4.5 MILES, THENCE EAST (RIGHT) ON LEASE RD. ±1.0 MILES,
THENCE NORTH (LEFT) ON LEASE RD. ±0.4 MILES, TO A POINT ±250
FEET WEST OF THE LOCATION

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW
MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY
SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA
PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS
OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR
THIS TRANSACTION ONLY.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED
LOCATION ARE SHOWN HEREON.



Michael Blake Brown, P.S. No. 18329
NOVEMBER 20, 2017



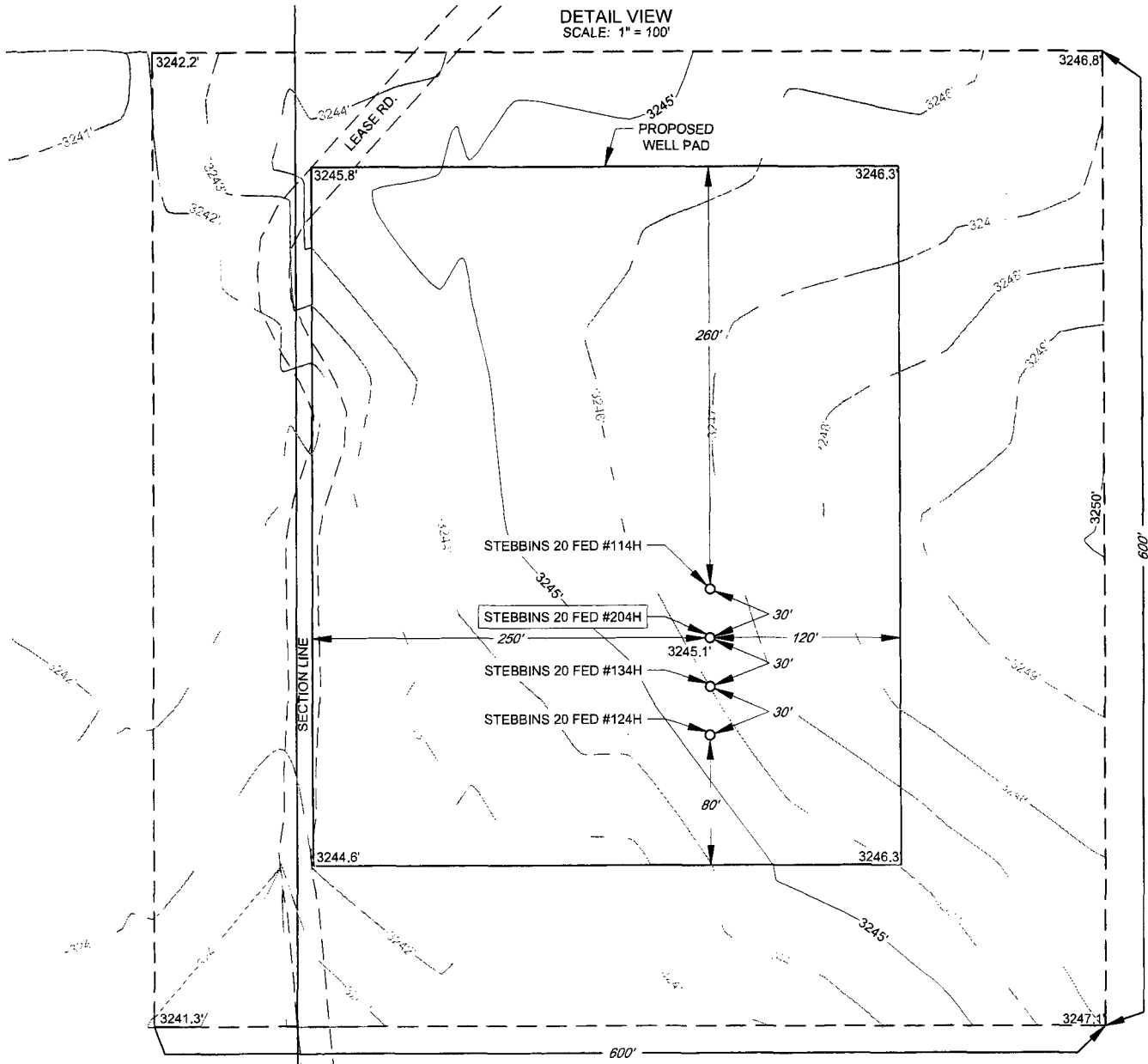
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SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: STEBBINS 20 FED #204H

#204H LATITUDE N 32.5527914

#204H LONGITUDE W 104.1049369

LEGEND

- SECTION LINE
- ROAD WAY

SCALE: 1" = 100'

0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE
NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER
MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY,
AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND
LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS
NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

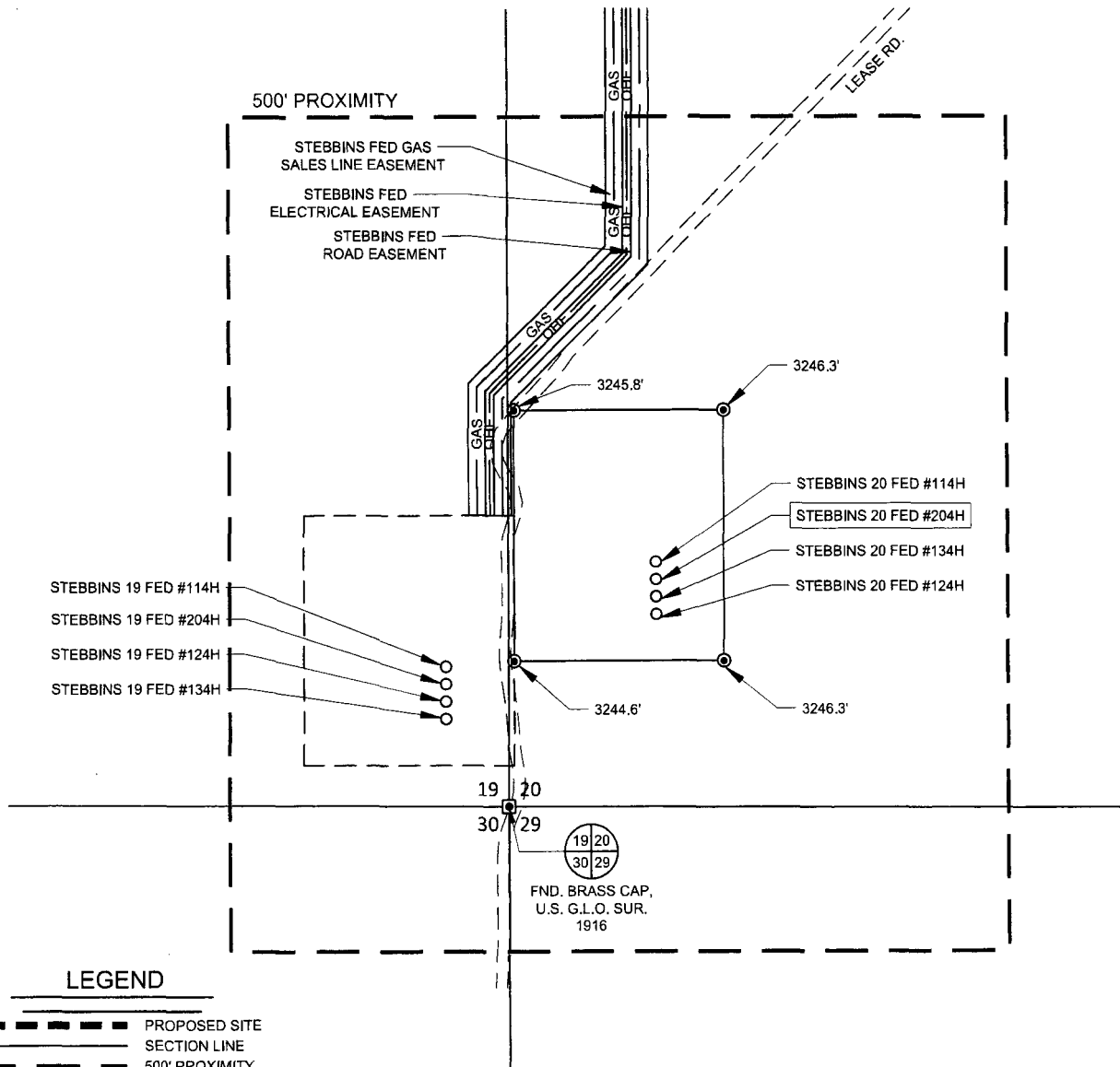
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
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TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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SCALE: 1" = 300'

0' 150' 300'

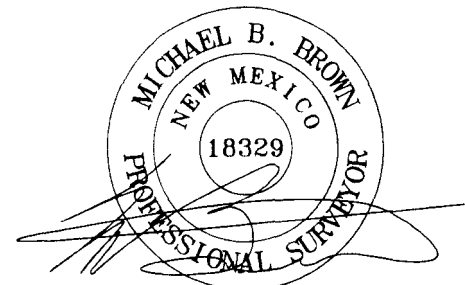
SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

-N-



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Michael Blake Brown, P.S. No. 18329
NOVEMBER 20, 2017

STEBBINS 20 FED #204H
PROXIMITY MAP

REVISION:

GLH	06/22/17
MML	11/20/17

DATE: 08/29/16

FILE: LO_STEBBINS_20_FED_204H_REV3

DRAWN BY: R.M.

SHEET: 7 OF 7

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.