

Matador Resources

Eddy County, NM (NAD27)

Stebbins Federal 19

#203H

OH

Prelim C

Anticollision Report

14 March, 2019



Matador Resources
Eddy County, NM (NAD27)
Stebbins Federal 19
#203H
Prelim C
Patt 809



RKB Elevation: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)

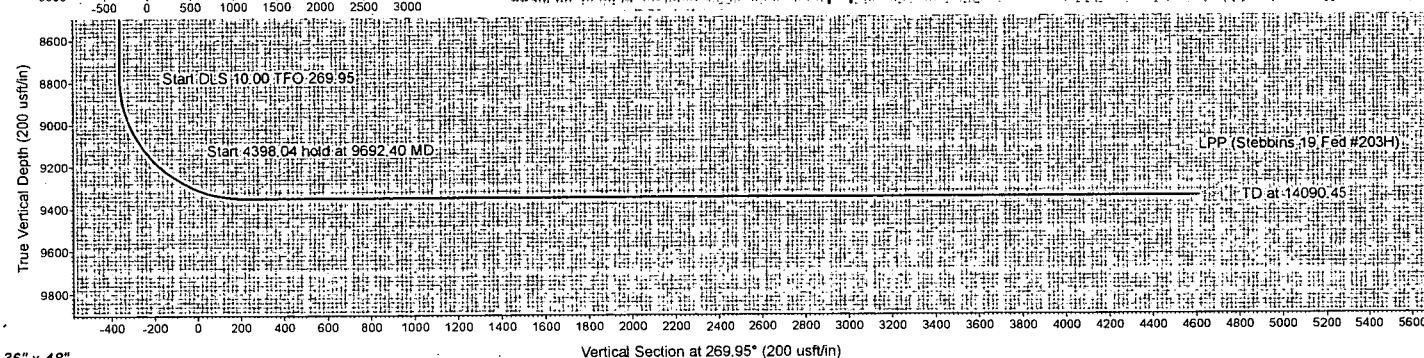
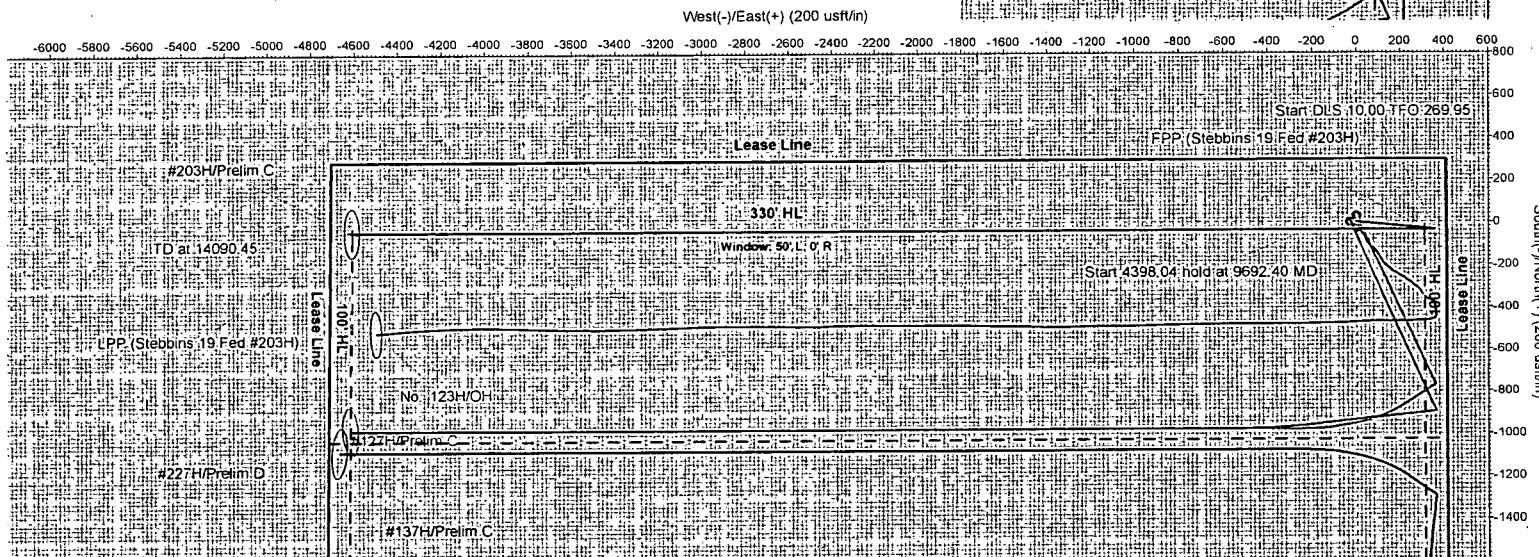
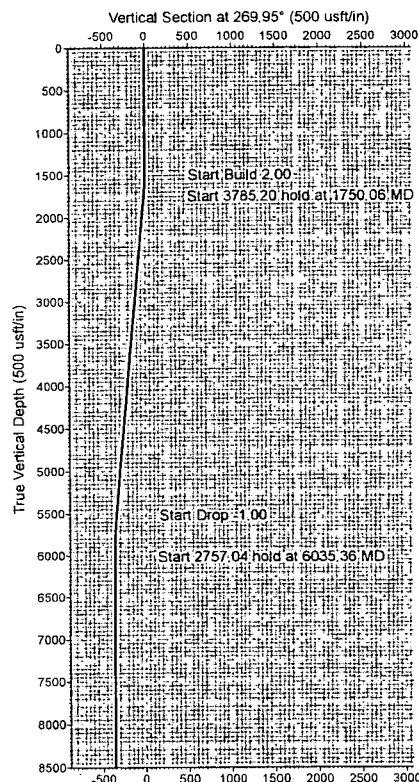
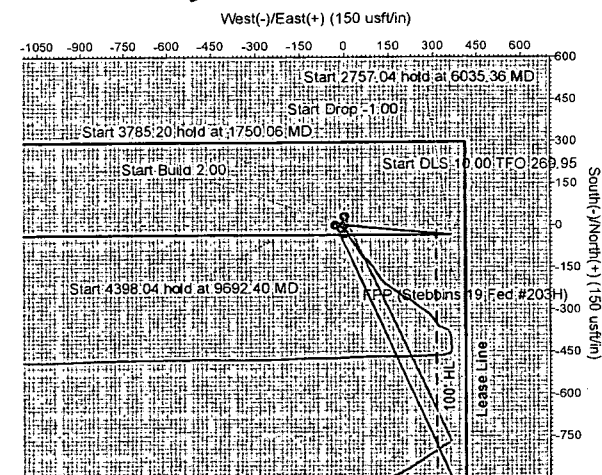
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
	0.00	0.00	566807.00	569854.00	32.558056	-104.106610	

Targets

Name	TVD	+N/-S	+E/-W	Northing	Easting
FPP (Stebbins 19 Fed #203H)	0.00	-35.00	311.00	566772.00	570165.00
LPP (Stebbins 19 Fed #203H)	9350.00	-39.00	-4610.00	566768.00	565244.00

SECTION DETAILS

Sec	MD	Inc	CAZI	TVD	+N/-S	+E/-W	Dleg	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00
3	1750.06	5.00	95.54	1749.74	-1.05	10.85	2.00	10.85
4	5535.25	5.00	95.54	5520.52	32.90	-339.29	0.00	-339.26
5	6035.36	0.00	0.00	6020.00	-35.00	-361.00	1.00	-360.97
6	8792.40	0.00	0.00	8777.04	-35.00	-361.00	0.00	-360.97
7	9692.40	90.00	269.95	9350.00	-35.46	-211.96	10.00	-211.99
8	14090.45	90.00	269.95	9350.00	-39.00	-4610.00	0.00	-4610.03



Azimuths to Grid North
True North: -0.12"
Magnetic North: 7.11"
Magnetic Field
Strength: 47998.9nT
Dip Angle: 60.32"
Date: 3/30/2019
Model: HDGM

US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

Azimuth Corrections
Total Magnetic Corr. (M to G): 7.11"

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference	Well #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Reference:	Prelim C
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 10,000.00 u
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date 3/14/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,090.45	Prelim 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
Stebbins Federal 19						
#127H - OH - Prelim C	1,500.00	1,500.00	30.02	19.72	2.916	CC, ES
#127H - OH - Prelim C	1,600.00	1,600.36	31.13	20.14	2.834	SF
#137H - OH - Prelim C	8,715.51	8,900.00	1,125.35	1,061.70	17.680	CC
#137H - OH - Prelim C	14,090.45	13,562.78	1,194.60	989.75	5.832	ES, SF
#204H - OH - Prelim B	6,092.07	6,077.90	1,865.98	1,822.44	42.852	CC
#204H - OH - Prelim B	14,090.45	14,062.27	1,933.94	1,701.45	8.318	ES, SF
#227H - OH - Prelim D	1,500.00	1,501.00	30.00	19.70	2.913	CC
#227H - OH - Prelim D	1,600.00	1,601.02	30.22	19.21	2.746	ES
#227H - OH - Prelim D	1,700.00	1,701.16	31.45	19.74	2.687	SF
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	7,651.26	7,676.00	2,004.80	1,954.25	39.661	CC, ES
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	14,090.45	12,417.00	2,507.20	2,324.24	13.703	SF
Stebbins Federal 19 (113-123-133-203)						
No. 123H - OH - OH	739.25	738.31	24.14	17.69	3.741	CC
No. 123H - OH - OH	800.00	798.87	24.41	17.61	3.591	ES
No. 123H - OH - OH	1,200.00	1,198.76	28.24	19.17	3.112	SF

Offset Design		Stebbins Federal 19 - #127H - OH - Prelim C								Offset Site Error:		3.30 usft	
Survey Program: -0-MWD-HDGM										Offset Well Error:		0.00 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	0.00	0.00	0.00	0.00	-91.91	-1.00	-30.00	30.02				
100.00	100.00	100.00	100.00	0.13	0.13	-91.91	-1.00	-30.00	30.02	29.76	0.26	117.112	
200.00	200.00	200.00	200.00	0.49	0.49	-91.91	-1.00	-30.00	30.02	29.04	0.97	30.842	
300.00	300.00	300.00	300.00	0.85	0.85	-91.91	-1.00	-30.00	30.02	28.33	1.69	17.759	
400.00	400.00	400.00	400.00	1.20	1.20	-91.91	-1.00	-30.00	30.02	27.61	2.41	12.470	
500.00	500.00	500.00	500.00	1.56	1.56	-91.91	-1.00	-30.00	30.02	26.89	3.12	9.608	
600.00	600.00	600.00	600.00	1.92	1.92	-91.91	-1.00	-30.00	30.02	26.18	3.84	7.815	
700.00	700.00	700.00	700.00	2.28	2.28	-91.91	-1.00	-30.00	30.02	25.46	4.56	6.586	
800.00	800.00	800.00	800.00	2.64	2.64	-91.91	-1.00	-30.00	30.02	24.74	5.27	5.690	
900.00	900.00	900.00	900.00	3.00	3.00	-91.91	-1.00	-30.00	30.02	24.02	5.99	5.010	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-91.91	-1.00	-30.00	30.02	23.31	6.71	4.474	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-91.91	-1.00	-30.00	30.02	22.59	7.43	4.042	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #127H - OH - Prelim C												Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 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 Footface (°)	Offset Wellbore Centre (N/S)	Offset Wellbore Centre (E/W)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-91.91	-1.00	-30.00	30.02	21.87	8.14	3.686	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-91.91	-1.00	-30.00	30.02	21.16	8.86	3.388	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-91.91	-1.00	-30.00	30.02	20.44	9.58	3.134	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-91.91	-1.00	-30.00	30.02	19.72	10.29	2.916 CC, ES	
1,600.00	1,599.98	1,600.36	1,600.34	5.50	5.49	169.96	-2.61	-29.29	31.13	20.14	10.98	2.834 SF	
1,700.00	1,699.84	1,700.53	1,700.37	5.84	5.82	163.25	-7.42	-27.18	34.79	23.14	11.65	2.986	
1,800.00	1,799.49	1,800.34	1,799.79	6.18	6.15	154.68	-15.40	-23.68	41.29	28.96	12.33	3.349	
1,900.00	1,899.11	1,899.71	1,898.41	6.54	6.48	144.78	-26.49	-18.81	49.05	36.04	13.01	3.770	
2,000.00	1,998.73	1,998.41	1,995.90	6.89	6.83	134.52	-40.60	-12.61	58.73	45.03	13.69	4.289	
2,100.00	2,098.35	2,102.99	2,092.89	7.24	7.20	125.48	-56.87	-5.47	70.75	56.35	14.40	4.914	
2,200.00	2,197.97	2,204.25	2,189.99	7.60	7.57	119.10	-73.26	1.73	84.06	68.95	15.10	5.566	
2,300.00	2,297.59	2,305.51	2,287.10	7.96	7.95	114.48	-89.65	8.93	98.11	82.30	15.81	6.205	
2,400.00	2,397.21	2,406.76	2,384.20	8.32	8.34	111.04	-106.04	16.12	112.63	96.11	16.53	6.815	
2,500.00	2,496.83	2,508.02	2,481.31	8.69	8.73	108.38	-122.42	23.32	127.47	110.22	17.25	7.389	
2,600.00	2,596.45	2,609.28	2,578.41	9.05	9.13	106.29	-138.81	30.51	142.51	124.53	17.98	7.926	
2,700.00	2,696.07	2,689.46	2,675.52	9.41	9.45	104.59	-155.20	37.71	157.71	139.07	18.63	8.465	
2,800.00	2,795.69	2,788.20	2,772.63	9.78	9.84	103.19	-171.59	44.90	173.01	153.66	19.36	8.938	
2,900.00	2,895.30	2,886.94	2,869.73	10.15	10.24	102.02	-187.97	52.10	188.40	168.32	20.09	9.380	
3,000.00	2,994.92	2,985.68	2,966.84	10.51	10.64	101.03	-204.36	59.30	203.86	183.04	20.82	9.793	
3,100.00	3,094.54	3,084.42	3,063.94	10.88	11.04	100.17	-220.75	66.49	219.37	197.82	21.55	10.179	
3,200.00	3,194.16	3,183.16	3,161.05	11.25	11.45	99.43	-237.13	73.69	234.92	212.63	22.29	10.541	
3,300.00	3,293.78	3,281.91	3,258.15	11.62	11.86	98.78	-253.52	80.88	250.50	227.48	23.02	10.880	
3,400.00	3,393.40	3,380.65	3,355.26	11.99	12.26	98.21	-269.91	88.08	266.11	242.35	23.76	11.198	
3,500.00	3,493.02	3,479.39	3,452.36	12.36	12.68	97.70	-286.30	95.28	281.75	257.24	24.51	11.497	
3,600.00	3,592.64	3,578.13	3,549.47	12.73	13.09	97.25	-302.68	102.47	297.40	272.15	25.25	11.779	
3,700.00	3,692.26	3,676.87	3,646.57	13.11	13.50	96.84	-319.07	109.67	313.07	287.08	25.99	12.045	
3,800.00	3,791.88	3,775.61	3,743.68	13.48	13.92	96.47	-335.46	116.86	328.75	302.02	26.74	12.296	
3,900.00	3,891.50	3,874.35	3,840.79	13.85	14.34	96.13	-351.85	124.06	344.45	316.97	27.48	12.534	
4,000.00	3,991.12	3,973.09	3,937.89	14.22	14.75	95.82	-368.23	131.25	360.16	331.93	28.23	12.759	
4,100.00	4,090.74	4,071.83	4,035.00	14.59	15.17	95.54	-384.62	138.45	375.87	346.90	28.98	12.972	
4,200.00	4,190.36	4,170.58	4,132.10	14.97	15.59	95.28	-401.01	145.65	391.60	361.87	29.72	13.174	
4,300.00	4,289.98	4,269.32	4,229.21	15.34	16.01	95.04	-417.40	152.84	407.33	376.85	30.47	13.366	
4,400.00	4,389.59	4,368.06	4,326.31	15.71	16.44	94.82	-433.78	160.04	423.07	391.84	31.22	13.549	
4,500.00	4,489.21	4,466.80	4,423.42	16.09	16.86	94.61	-450.17	167.23	438.81	406.83	31.98	13.723	
4,600.00	4,588.83	4,565.54	4,520.52	16.46	17.28	94.42	-466.56	174.43	454.56	421.83	32.73	13.890	
4,700.00	4,688.45	4,664.28	4,617.63	16.84	17.70	94.24	-482.95	181.63	470.31	436.83	33.48	14.048	
4,800.00	4,788.07	4,763.02	4,714.74	17.21	18.13	94.08	-499.33	188.82	486.07	451.84	34.23	14.200	
4,900.00	4,887.69	4,861.76	4,811.84	17.58	18.55	93.92	-515.72	196.02	501.83	466.85	34.98	14.345	
5,000.00	4,987.31	4,960.50	4,908.95	17.96	18.98	93.77	-532.11	203.21	517.59	481.86	35.74	14.483	
5,100.00	5,086.93	5,059.25	5,006.05	18.33	19.40	93.63	-548.49	210.41	533.36	496.87	36.49	14.616	
5,200.00	5,186.55	5,157.99	5,103.16	18.71	19.83	93.50	-564.88	217.60	549.13	511.89	37.25	14.744	
5,300.00	5,286.17	5,256.73	5,200.26	19.08	20.26	93.38	-581.27	224.80	564.91	526.91	38.00	14.866	
5,400.00	5,385.79	5,355.47	5,297.37	19.46	20.68	93.26	-597.66	232.00	580.68	541.93	38.76	14.983	
5,500.00	5,485.41	5,454.21	5,394.47	19.83	21.11	93.15	-614.04	239.19	596.46	556.95	39.51	15.096	
5,600.00	5,585.06	5,552.95	5,491.58	20.21	21.54	93.12	-630.43	246.39	612.22	571.96	40.26	15.205	
5,700.00	5,684.83	5,651.66	5,588.66	20.58	21.96	92.99	-646.81	253.58	627.90	586.89	41.01	15.312	
5,800.00	5,784.70	5,750.33	5,685.68	20.94	22.39	92.72	-663.19	260.77	643.52	601.78	41.74	15.417	
5,900.00	5,884.65	5,848.90	5,782.63	21.30	22.82	92.32	-679.55	267.95	659.10	616.64	42.46	15.522	
6,000.00	5,984.64	5,947.37	5,879.46	21.65	23.25	91.80	-695.89	275.13	674.69	631.52	43.17	15.627	
6,100.00	6,084.64	6,045.72	5,976.18	21.99	23.67	-173.37	-712.21	282.30	690.34	646.47	43.87	15.736	
6,200.00	6,184.64	6,144.06	6,072.90	22.33	24.10	-174.11	-728.53	289.46	706.11	661.55	44.57	15.844	
6,300.00	6,284.64	6,242.41	6,169.61	22.67	24.53	-174.82	-744.86	296.63	721.99	676.73	45.26	15.952	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #127H - OH - Prelim C										Offset Site Error: 3.30 usft			
Survey Program: 0-MWD+HDGM										Offset Well Error: 0.00 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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,400.00	6,384.64	6,340.75	6,266.33	23.01	24.96	-175.50	-761.18	303.80	737.97	692.01	45.96	16.057	
6,500.00	6,484.64	6,439.09	6,363.04	23.35	25.39	-176.14	-777.50	310.97	754.05	707.39	46.66	16.162	
6,600.00	6,584.64	6,537.44	6,459.76	23.69	25.81	-176.77	-793.82	318.13	770.22	722.87	47.35	16.265	
6,700.00	6,684.64	6,635.78	6,556.47	24.03	26.24	-177.36	-810.14	325.30	786.48	738.42	48.05	16.366	
6,800.00	6,784.64	6,734.12	6,653.19	24.37	26.67	-177.94	-826.46	332.47	802.81	754.06	48.75	16.466	
6,900.00	6,884.64	6,832.47	6,749.90	24.72	27.10	-178.48	-842.78	339.63	819.22	769.77	49.46	16.565	
7,000.00	6,984.64	6,945.10	6,860.76	25.06	27.58	-179.07	-861.02	347.64	835.37	785.09	50.27	16.616	
7,100.00	7,084.64	7,080.41	6,994.74	25.40	28.14	-179.61	-878.29	355.22	848.09	796.87	51.22	16.558	
7,200.00	7,184.64	7,217.23	7,130.96	25.75	28.66	-179.95	-889.85	360.30	856.53	804.45	52.09	16.445	
7,300.00	7,284.64	7,354.95	7,268.53	26.09	29.13	-179.88	-895.45	362.76	860.61	807.75	52.86	16.281	
7,400.00	7,384.64	7,462.94	7,376.45	26.44	29.46	-179.99	-896.23	360.88	861.27	807.73	53.54	16.087	
7,500.00	7,484.64	7,546.71	7,459.08	26.78	29.68	-179.11	-897.69	347.67	863.17	808.98	54.20	15.927	
7,600.00	7,584.64	7,625.08	7,533.88	27.13	29.88	-177.59	-900.24	324.60	867.49	812.67	54.82	15.825	
7,700.00	7,684.64	7,695.99	7,598.25	27.47	30.03	-175.66	-903.49	295.16	875.26	819.89	55.36	15.809	
7,800.00	7,784.64	7,758.61	7,651.69	27.82	30.14	-173.57	-907.07	262.76	887.60	831.83	55.76	15.917	
7,900.00	7,884.64	7,813.07	7,695.03	28.17	30.23	-171.49	-910.68	230.02	905.50	849.54	55.96	16.182	
8,000.00	7,984.64	7,860.07	7,729.77	28.51	30.29	-169.53	-914.15	198.58	929.65	873.75	55.90	16.631	
8,100.00	8,084.64	7,900.00	7,757.17	28.86	30.33	-167.77	-917.34	169.72	960.39	904.82	55.57	17.284	
8,200.00	8,184.64	7,935.37	7,779.71	29.21	30.36	-166.14	-920.33	142.63	997.73	942.72	55.01	18.139	
8,300.00	8,284.64	7,965.51	7,797.55	29.56	30.39	-164.73	-922.99	118.49	1,041.44	987.21	54.24	19.202	
8,400.00	8,384.64	8,000.00	7,816.37	29.90	30.41	-163.07	-926.17	89.76	1,091.18	1,037.73	53.45	20.416	
8,500.00	8,484.64	8,014.54	7,823.77	30.25	30.42	-162.37	-927.54	77.33	1,146.23	1,093.91	52.32	21.908	
8,600.00	8,584.64	8,034.61	7,833.47	30.60	30.42	-161.39	-929.47	59.86	1,206.24	1,154.96	51.27	23.525	
8,700.00	8,684.64	8,050.00	7,840.48	30.95	30.43	-160.64	-930.97	46.25	1,270.60	1,220.41	50.19	25.314	
8,800.00	8,784.64	8,068.10	7,848.26	31.30	30.44	-69.03	-932.76	30.00	1,338.77	1,289.56	49.22	27.202	
8,900.00	8,884.01	8,085.17	7,855.11	31.61	30.44	-59.80	-934.48	14.46	1,407.44	1,359.20	48.24	29.177	
9,000.00	8,980.13	8,100.00	7,860.69	31.90	30.44	-52.17	-935.99	0.81	1,472.82	1,425.56	47.25	31.168	
9,100.00	9,070.07	8,127.84	7,870.19	32.17	30.45	-45.86	-938.86	-25.20	1,532.96	1,486.44	46.52	32.954	
9,200.00	9,151.12	8,150.00	7,876.84	32.43	30.45	-41.17	-941.18	-46.21	1,586.41	1,540.60	45.81	34.630	
9,300.00	9,220.80	8,178.03	7,884.06	32.71	30.45	-37.67	-944.15	-73.13	1,631.90	1,586.57	45.33	36.003	
9,400.00	9,276.99	8,200.00	7,888.80	33.03	30.45	-35.21	-946.50	-94.45	1,668.49	1,623.51	44.98	37.095	
9,500.00	9,318.00	8,232.40	7,894.27	33.43	30.45	-33.57	-950.01	-126.19	1,695.37	1,650.40	44.97	37.697	
9,600.00	9,342.56	8,250.00	7,896.49	33.93	30.45	-32.63	-951.92	-143.54	1,712.23	1,667.10	45.13	37.939	
9,700.00	9,350.00	8,300.00	7,899.84	34.51	30.47	-32.45	-957.40	-193.11	1,718.61	1,672.81	45.79	37.530	
9,800.00	9,350.00	8,329.84	7,900.00	35.21	30.51	-32.54	-960.62	-222.77	1,722.68	1,676.15	46.53	37.022	
9,900.00	9,350.00	8,477.78	7,900.00	36.05	31.55	-32.86	-972.21	-370.25	1,726.88	1,678.93	47.95	36.014	
10,000.00	9,350.00	8,626.52	7,900.00	37.01	33.10	-32.97	-976.17	-518.92	1,728.29	1,678.82	49.46	34.942	
10,003.10	9,350.00	8,631.14	7,900.00	37.04	33.15	-32.97	-976.17	-523.53	1,728.28	1,678.77	49.51	34.908	
10,100.00	9,350.00	8,726.28	7,900.00	38.09	34.30	-32.97	-976.27	-618.68	1,728.29	1,677.47	50.83	34.003	
10,200.00	9,350.00	8,826.28	7,900.00	39.27	35.61	-32.97	-976.36	-718.68	1,728.30	1,675.99	52.31	33.042	
10,300.00	9,350.00	8,926.28	7,900.00	40.55	37.01	-32.97	-976.45	-818.68	1,728.31	1,674.41	53.89	32.069	
10,400.00	9,350.00	9,026.28	7,900.00	41.92	38.50	-32.97	-976.55	-918.68	1,728.31	1,672.74	55.58	31.097	
10,500.00	9,350.00	9,126.28	7,900.00	43.37	40.06	-32.97	-976.64	-1,018.68	1,728.32	1,670.97	57.35	30.134	
10,600.00	9,350.00	9,226.28	7,900.00	44.89	41.69	-32.97	-976.73	-1,118.68	1,728.33	1,669.12	59.21	29.189	
10,700.00	9,350.00	9,326.28	7,900.00	46.48	43.38	-32.97	-976.83	-1,218.68	1,728.34	1,667.19	61.14	28.267	
10,800.00	9,350.00	9,426.28	7,900.00	48.12	45.13	-32.97	-976.92	-1,318.68	1,728.34	1,665.20	63.14	27.373	
10,900.00	9,350.00	9,526.28	7,900.00	49.82	46.92	-32.97	-977.01	-1,418.68	1,728.35	1,663.15	65.20	26.508	
11,000.00	9,350.00	9,626.28	7,900.00	51.56	48.76	-32.97	-977.11	-1,518.68	1,728.36	1,661.04	67.32	25.674	
11,100.00	9,350.00	9,726.28	7,900.00	53.35	50.63	-32.97	-977.20	-1,618.68	1,728.36	1,658.88	69.49	24.874	
11,200.00	9,350.00	9,826.28	7,900.00	55.18	52.54	-32.97	-977.29	-1,718.68	1,728.37	1,656.67	71.70	24.106	
11,300.00	9,350.00	9,926.28	7,900.00	57.04	54.48	-32.97	-977.39	-1,818.68	1,728.38	1,654.42	73.95	23.371	
11,400.00	9,350.00	10,026.28	7,900.00	58.93	56.45	-32.97	-977.48	-1,918.68	1,728.38	1,652.14	76.25	22.668	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #127H - OH - Prelim C												Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,500.00	9,350.00	10,126.28	7,900.00	60.85	58.44	-32.97	-977.57	-2,018.68	1,728.39	1,649.82	78.58	21.996	
11,600.00	9,350.00	10,226.28	7,900.00	62.80	60.45	-32.97	-977.67	-2,118.68	1,728.40	1,647.46	80.94	21.355	
11,700.00	9,350.00	10,326.28	7,900.00	64.77	62.49	-32.97	-977.76	-2,218.68	1,728.41	1,645.08	83.33	20.743	
11,800.00	9,350.00	10,426.28	7,900.00	66.76	64.54	-32.97	-977.85	-2,318.68	1,728.41	1,642.67	85.74	20.158	
11,900.00	9,350.00	10,526.28	7,900.00	68.78	66.61	-32.97	-977.95	-2,418.68	1,728.42	1,640.24	88.18	19.600	
12,000.00	9,350.00	10,626.28	7,900.00	70.81	68.69	-32.97	-978.04	-2,518.68	1,728.43	1,637.78	90.65	19.067	
12,100.00	9,350.00	10,726.28	7,900.00	72.85	70.79	-32.97	-978.13	-2,618.68	1,728.43	1,635.30	93.13	18.559	
12,200.00	9,350.00	10,826.28	7,900.00	74.92	72.90	-32.98	-978.23	-2,718.68	1,728.44	1,632.80	95.64	18.073	
12,300.00	9,350.00	10,926.28	7,900.00	76.99	75.02	-32.98	-978.32	-2,818.68	1,728.45	1,630.29	98.16	17.609	
12,400.00	9,350.00	11,026.28	7,900.00	79.08	77.16	-32.98	-978.41	-2,918.68	1,728.45	1,627.76	100.70	17.165	
12,500.00	9,350.00	11,126.28	7,900.00	81.18	79.30	-32.98	-978.51	-3,018.68	1,728.46	1,625.21	103.25	16.741	
12,600.00	9,350.00	11,226.28	7,900.00	83.30	81.45	-32.98	-978.60	-3,118.68	1,728.47	1,622.65	105.82	16.334	
12,700.00	9,350.00	11,326.28	7,900.00	85.42	83.61	-32.98	-978.69	-3,218.68	1,728.48	1,620.08	108.40	15.946	
12,800.00	9,350.00	11,426.28	7,900.00	87.55	85.78	-32.98	-978.79	-3,318.68	1,728.48	1,617.49	110.99	15.573	
12,900.00	9,350.00	11,526.28	7,900.00	89.69	87.95	-32.98	-978.88	-3,418.68	1,728.49	1,614.89	113.60	15.216	
13,000.00	9,350.00	11,626.28	7,900.00	91.84	90.13	-32.98	-978.97	-3,518.68	1,728.50	1,612.29	116.21	14.874	
13,100.00	9,350.00	11,726.28	7,900.00	94.00	92.32	-32.98	-979.07	-3,618.68	1,728.50	1,609.67	118.83	14.545	
13,200.00	9,350.00	11,826.28	7,900.00	96.16	94.51	-32.98	-979.16	-3,718.68	1,728.51	1,607.04	121.47	14.230	
13,300.00	9,350.00	11,926.28	7,900.00	98.33	96.71	-32.98	-979.25	-3,818.68	1,728.52	1,604.41	124.11	13.927	
13,400.00	9,350.00	12,026.28	7,900.00	100.50	98.91	-32.98	-979.35	-3,918.68	1,728.52	1,601.76	126.76	13.636	
13,500.00	9,350.00	12,126.28	7,900.00	102.69	101.12	-32.98	-979.44	-4,018.68	1,728.53	1,599.11	129.42	13.356	
13,600.00	9,350.00	12,226.28	7,900.00	104.87	103.33	-32.98	-979.53	-4,118.68	1,728.54	1,596.45	132.09	13.086	
13,700.00	9,350.00	12,326.28	7,900.00	107.07	105.55	-32.98	-979.63	-4,218.68	1,728.55	1,593.79	134.76	12.827	
13,800.00	9,350.00	12,426.28	7,900.00	109.26	107.77	-32.98	-979.72	-4,318.68	1,728.55	1,591.12	137.44	12.577	
13,900.00	9,350.00	12,526.28	7,900.00	111.46	109.99	-32.98	-979.81	-4,418.68	1,728.56	1,588.44	140.12	12.336	
14,000.00	9,350.00	12,626.28	7,900.00	113.67	112.22	-32.98	-979.91	-4,518.68	1,728.57	1,585.75	142.81	12.104	
14,090.45	9,350.00	12,716.73	7,900.00	115.67	114.11	-32.98	-979.99	-4,609.12	1,728.57	1,583.41	145.16	11.908	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #137H - OH - Prelim C												Offset Site Error:
Survey Program: 0-MWD+HDGM												Offset Well Error:
Reference	Offset	Semi-Major Axis		Distance		Minimum		Separation		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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.00	0.00	6.00	-6.00	0.00	0.01	172.67	-2,138.00	275.00	2,155.61			
100.00	100.00	106.00	94.00	0.13	0.15	172.67	-2,138.00	275.00	2,155.61	2,155.34	0.28	7,759.146
200.00	200.00	206.00	194.00	0.49	0.51	172.67	-2,138.00	275.00	2,155.61	2,154.62	0.99	2,166.971
300.00	300.00	306.00	294.00	0.85	0.87	172.67	-2,138.00	275.00	2,155.61	2,153.90	1.71	1,259.339
400.00	400.00	406.00	394.00	1.20	1.23	172.67	-2,138.00	275.00	2,155.61	2,153.18	2.43	887.579
500.00	500.00	506.00	494.00	1.56	1.58	172.67	-2,138.00	275.00	2,155.61	2,152.47	3.15	685.282
600.00	600.00	606.00	594.00	1.92	1.94	172.67	-2,138.00	275.00	2,155.61	2,151.75	3.86	558.083
700.00	700.00	706.00	694.00	2.28	2.30	172.67	-2,138.00	275.00	2,155.61	2,151.03	4.58	470.712
800.00	800.00	806.00	794.00	2.64	2.66	172.67	-2,138.00	275.00	2,155.61	2,150.32	5.30	406.995
900.00	900.00	906.00	894.00	3.00	3.02	172.67	-2,138.00	275.00	2,155.61	2,149.60	6.01	358.471
1,000.00	1,000.00	1,006.00	994.00	3.35	3.38	172.67	-2,138.00	275.00	2,155.61	2,148.88	6.73	320.285
1,100.00	1,100.00	1,106.00	1,094.00	3.71	3.73	172.67	-2,138.00	275.00	2,155.61	2,148.17	7.45	289.451
1,200.00	1,200.00	1,206.00	1,194.00	4.07	4.09	172.67	-2,138.00	275.00	2,155.61	2,147.45	8.16	264.033
1,300.00	1,300.00	1,306.00	1,294.00	4.43	4.45	172.67	-2,138.00	275.00	2,155.61	2,146.73	8.88	242.718
1,400.00	1,400.00	1,394.00	1,394.00	4.79	4.77	172.67	-2,138.00	275.00	2,155.61	2,146.06	9.56	225.599
1,500.00	1,500.00	1,749.46	1,748.59	5.15	6.04	172.54	-2,116.83	277.20	2,150.03	2,138.90	11.13	193.167
1,600.00	1,599.98	1,871.06	1,869.14	5.50	6.48	77.21	-2,100.98	278.85	2,136.80	2,124.90	11.90	179.540
1,700.00	1,699.84	1,970.04	1,967.25	5.84	6.84	77.54	-2,087.95	280.21	2,122.77	2,110.18	12.60	168.491
1,800.00	1,799.49	2,068.83	2,065.17	6.18	7.21	77.82	-2,074.95	281.57	2,108.10	2,094.80	13.30	158.510
1,900.00	1,899.11	2,167.58	2,163.05	6.54	7.58	77.98	-2,061.95	282.92	2,093.34	2,079.34	14.00	149.487
2,000.00	1,998.73	2,266.33	2,260.94	6.89	7.95	78.13	-2,048.95	284.27	2,078.60	2,063.89	14.71	141.293
2,100.00	2,098.35	2,365.08	2,358.82	7.24	8.32	78.29	-2,035.95	285.63	2,063.88	2,048.46	15.42	133.826
2,200.00	2,197.97	2,463.83	2,456.70	7.60	8.69	78.44	-2,022.95	286.98	2,049.17	2,033.03	16.14	126.995
2,300.00	2,297.59	2,562.58	2,554.58	7.96	9.07	78.61	-2,009.95	288.33	2,034.47	2,017.62	16.85	120.728
2,400.00	2,397.21	2,661.33	2,652.47	8.32	9.45	78.77	-1,996.96	289.69	2,019.79	2,002.22	17.57	114.958
2,500.00	2,496.83	2,760.08	2,750.35	8.69	9.82	78.93	-1,983.96	291.04	2,005.13	1,986.84	18.29	109.631
2,600.00	2,596.45	2,858.84	2,848.23	9.05	10.20	79.10	-1,970.96	292.40	1,990.49	1,971.48	19.01	104.700
2,700.00	2,696.07	2,957.59	2,946.11	9.41	10.58	79.27	-1,957.96	293.75	1,975.86	1,956.12	19.73	100.123
2,800.00	2,795.69	3,056.34	3,044.00	9.78	10.96	79.45	-1,944.96	295.10	1,961.25	1,940.79	20.46	95.864
2,900.00	2,895.30	3,155.09	3,141.88	10.15	11.35	79.62	-1,931.96	296.46	1,946.66	1,925.47	21.18	91.893
3,000.00	2,994.92	3,253.84	3,239.76	10.51	11.73	79.80	-1,918.96	297.81	1,932.08	1,910.17	21.91	88.181
3,100.00	3,094.54	3,352.59	3,337.65	10.88	12.11	79.98	-1,905.96	299.16	1,917.52	1,894.89	22.64	84.704
3,200.00	3,194.16	3,451.34	3,435.53	11.25	12.50	80.16	-1,892.96	300.52	1,902.99	1,879.62	23.37	81.442
3,300.00	3,293.78	3,550.09	3,533.41	11.62	12.88	80.35	-1,879.96	301.87	1,888.47	1,864.37	24.10	78.375
3,400.00	3,393.40	3,648.85	3,631.29	11.99	13.26	80.54	-1,866.97	303.23	1,873.97	1,849.15	24.82	75.487
3,500.00	3,493.02	3,747.60	3,729.18	12.36	13.65	80.73	-1,853.97	304.58	1,859.49	1,833.94	25.56	72.763
3,600.00	3,592.64	3,846.35	3,827.06	12.73	14.03	80.93	-1,840.97	305.93	1,845.04	1,818.75	26.29	70.190
3,700.00	3,692.26	3,945.10	3,924.94	13.11	14.42	81.13	-1,827.97	307.29	1,830.60	1,803.59	27.02	67.755
3,800.00	3,791.88	4,043.85	4,022.82	13.48	14.81	81.33	-1,814.97	308.64	1,816.19	1,788.44	27.75	65.448
3,900.00	3,891.50	4,142.60	4,120.71	13.85	15.19	81.53	-1,801.97	309.99	1,801.80	1,773.32	28.48	63.260
4,000.00	3,991.12	4,241.35	4,218.59	14.22	15.58	81.74	-1,788.97	311.35	1,787.43	1,758.22	29.22	61.181
4,100.00	4,090.74	4,340.10	4,316.47	14.59	15.97	81.95	-1,775.97	312.70	1,773.09	1,743.14	29.95	59.204
4,200.00	4,190.36	4,438.86	4,414.35	14.97	16.35	82.17	-1,762.97	314.06	1,758.77	1,728.09	30.68	57.321
4,300.00	4,289.98	4,537.61	4,512.24	15.34	16.74	82.39	-1,749.97	315.41	1,744.48	1,713.06	31.42	55.527
4,400.00	4,389.59	4,636.36	4,610.12	15.71	17.13	82.61	-1,736.97	316.76	1,730.21	1,698.05	32.15	53.814
4,500.00	4,489.21	4,735.11	4,708.00	16.09	17.52	82.83	-1,723.97	318.12	1,715.96	1,683.08	32.89	52.179
4,600.00	4,588.83	4,833.86	4,805.88	16.46	17.90	83.06	-1,710.98	319.47	1,701.75	1,668.12	33.62	50.615
4,700.00	4,688.45	4,932.61	4,903.77	16.84	18.29	83.30	-1,697.98	320.82	1,687.56	1,653.20	34.36	49.118
4,800.00	4,788.07	5,031.36	5,001.65	17.21	18.68	83.53	-1,684.98	322.18	1,673.39	1,638.30	35.09	47.685
4,900.00	4,887.69	5,130.11	5,099.53	17.58	19.07	83.77	-1,671.98	323.53	1,659.26	1,623.43	35.83	46.311
5,000.00	4,987.31	5,228.86	5,197.41	17.96	19.46	84.02	-1,658.98	324.89	1,645.16	1,608.59	36.56	44.993
5,100.00	5,086.93	5,327.62	5,295.30	18.33	19.85	84.27	-1,645.98	326.24	1,631.08	1,593.78	37.30	43.727

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #137H - OH - Prelim C														Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HDGM														Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,200.00	5,186.55	5,426.37	5,393.18	18.71	20.24	84.52	-1,632.98	327.59	1,617.04	1,579.00	38.04	42.511			
5,300.00	5,286.17	5,525.12	5,491.06	19.08	20.62	84.78	-1,619.98	328.95	1,603.03	1,564.26	38.78	41.342			
5,400.00	5,385.79	5,623.87	5,588.94	19.46	21.01	85.04	-1,606.98	330.30	1,589.05	1,549.54	39.51	40.217			
5,500.00	5,485.41	5,722.62	5,686.83	19.83	21.40	85.31	-1,593.98	331.65	1,575.11	1,534.86	40.25	39.133			
5,600.00	5,585.06	5,821.40	5,784.74	20.21	21.79	85.48	-1,580.98	333.01	1,561.23	1,520.24	40.99	38.092			
5,700.00	5,684.83	5,920.30	5,882.77	20.58	22.18	85.55	-1,567.96	334.36	1,547.50	1,505.78	41.72	37.094			
5,800.00	5,784.70	6,019.30	5,980.90	20.94	22.57	85.55	-1,554.93	335.72	1,533.92	1,491.48	42.44	36.139			
5,900.00	5,884.65	6,118.37	6,079.10	21.30	22.96	85.49	-1,541.89	337.08	1,520.48	1,477.31	43.17	35.224			
6,000.00	5,984.64	6,217.48	6,177.34	21.65	23.36	85.37	-1,528.84	338.44	1,507.18	1,463.30	43.88	34.347			
6,100.00	6,084.64	6,316.60	6,275.58	21.99	23.75	-179.18	-1,515.80	339.80	1,493.99	1,449.40	44.59	33.508			
6,200.00	6,184.64	6,415.72	6,373.83	22.33	24.14	-179.23	-1,502.75	341.16	1,480.80	1,435.51	45.29	32.696			
6,300.00	6,284.64	6,514.84	6,472.08	22.67	24.53	-179.27	-1,489.70	342.52	1,467.62	1,421.63	46.00	31.908			
6,400.00	6,384.64	6,613.97	6,570.33	23.01	24.92	-179.32	-1,476.65	343.87	1,454.44	1,407.74	46.70	31.144			
6,500.00	6,484.64	6,713.09	6,668.58	23.35	25.31	-179.37	-1,463.61	345.23	1,441.26	1,393.86	47.41	30.402			
6,600.00	6,584.64	6,812.21	6,766.83	23.69	25.70	-179.42	-1,450.56	346.59	1,428.08	1,379.97	48.11	29.682			
6,700.00	6,684.64	6,911.33	6,865.08	24.03	26.10	-179.47	-1,437.51	347.95	1,414.91	1,366.09	48.82	28.982			
6,800.00	6,784.64	7,010.45	6,963.32	24.37	26.49	-179.52	-1,424.46	349.31	1,401.73	1,352.20	49.53	28.302			
6,900.00	6,884.64	7,109.57	7,061.57	24.72	26.88	-179.57	-1,411.41	350.67	1,388.56	1,338.32	50.24	27.641			
7,000.00	6,984.64	7,208.69	7,159.82	25.06	27.27	-179.62	-1,398.37	352.03	1,375.38	1,324.44	50.94	26.998			
7,100.00	7,084.64	7,307.81	7,258.07	25.40	27.66	-179.68	-1,385.32	353.39	1,362.21	1,310.56	51.65	26.372			
7,200.00	7,184.64	7,406.93	7,356.32	25.75	28.05	-179.73	-1,372.27	354.74	1,349.04	1,296.68	52.36	25.763			
7,300.00	7,284.64	7,506.05	7,454.57	26.09	28.45	-179.79	-1,359.22	356.10	1,335.87	1,282.79	53.07	25.170			
7,400.00	7,384.64	7,605.17	7,552.81	26.44	28.84	-179.85	-1,346.18	357.46	1,322.70	1,268.92	53.78	24.593			
7,500.00	7,484.64	7,704.29	7,651.06	26.78	29.23	-179.90	-1,333.13	358.82	1,309.53	1,255.04	54.49	24.030			
7,600.00	7,584.64	7,803.41	7,749.31	27.13	29.62	-179.96	-1,320.08	360.18	1,296.37	1,241.16	55.21	23.482			
7,700.00	7,684.64	7,876.69	7,822.02	27.47	29.91	179.99	-1,311.01	361.12	1,284.04	1,228.16	55.88	22.978			
7,800.00	7,784.64	7,945.59	7,890.58	27.82	30.17	179.96	-1,304.14	361.84	1,274.07	1,217.54	56.53	22.538			
7,900.00	7,884.64	8,014.79	7,959.57	28.17	30.43	179.94	-1,298.89	362.39	1,266.48	1,209.32	57.15	22.160			
8,000.00	7,984.64	8,084.20	8,028.88	28.51	30.67	179.92	-1,295.29	362.76	1,261.29	1,203.54	57.75	21.842			
8,100.00	8,084.64	8,693.01	8,579.03	28.86	32.97	-171.93	-1,179.40	198.68	1,259.52	1,201.96	57.56	21.883			
8,200.00	8,184.64	8,738.34	8,608.22	29.21	33.17	-170.30	-1,162.66	168.32	1,222.00	1,163.15	58.85	20.764			
8,300.00	8,284.64	8,777.61	8,631.75	29.56	33.34	-168.78	-1,149.17	139.94	1,189.51	1,129.38	60.13	19.782			
8,400.00	8,384.64	8,811.66	8,650.76	29.90	33.49	-167.37	-1,138.28	113.87	1,162.90	1,101.59	61.31	18.966			
8,500.00	8,484.64	8,841.27	8,666.16	30.25	33.62	-166.10	-1,129.45	90.18	1,142.94	1,080.62	62.32	18.339			
8,600.00	8,584.64	8,867.12	8,678.73	30.60	33.73	-164.96	-1,122.24	68.77	1,130.27	1,067.19	63.09	17.916			
8,700.00	8,684.64	8,900.00	8,693.48	30.95	33.89	-163.46	-1,113.79	40.64	1,125.45	1,061.82	63.64	17.686			
8,715.51	8,700.15	8,900.00	8,693.48	31.00	33.89	-73.42	-1,113.79	40.64	1,125.35	1,061.70	63.65	17.680 CC			
8,800.00	8,784.64	8,900.00	8,693.48	31.30	33.89	-73.36	-1,113.79	40.64	1,128.56	1,064.98	63.58	17.752			
8,900.00	8,884.01	8,931.28	8,706.20	31.61	34.04	-71.19	-1,106.51	13.01	1,136.59	1,073.12	63.46	17.909			
9,000.00	8,980.13	8,950.00	8,713.18	31.90	34.13	-69.47	-1,102.52	-3.90	1,146.74	1,083.85	62.89	18.233			
9,100.00	9,070.07	8,984.51	8,724.77	32.17	34.31	-67.20	-1,095.88	-35.71	1,157.75	1,095.46	62.29	18.585			
9,200.00	9,151.12	9,014.96	8,733.61	32.43	34.47	-65.26	-1,090.83	-64.40	1,168.73	1,107.21	61.52	18.998			
9,300.00	9,220.80	9,050.00	8,742.12	32.71	34.67	-63.50	-1,085.97	-98.04	1,178.71	1,117.91	60.80	19.386			
9,400.00	9,276.99	9,081.02	8,748.16	33.03	34.85	-62.18	-1,082.52	-128.27	1,186.86	1,126.69	60.17	19.725			
9,500.00	9,318.00	9,115.81	8,753.23	33.43	35.06	-61.21	-1,079.63	-162.56	1,192.58	1,132.75	59.83	19.932			
9,600.00	9,342.56	9,150.00	8,756.45	33.93	35.28	-60.70	-1,077.81	-196.54	1,195.42	1,135.59	59.83	19.979			
9,700.00	9,350.00	9,195.22	8,758.00	34.51	35.59	-60.63	-1,076.95	-241.72	1,195.23	1,134.89	60.34	19.809			
9,743.61	9,350.00	9,215.94	8,758.00	34.82	35.74	-60.63	-1,076.96	-262.44	1,195.01	1,134.32	60.68	19.692			
9,800.00	9,350.00	9,272.33	8,758.00	35.21	36.16	-60.63	-1,077.00	-318.83	1,195.00	1,133.58	61.42	19.455			
9,900.00	9,350.00	9,372.33	8,758.00	36.05	37.02	-60.63	-1,077.07	-418.83	1,194.99	1,132.05	62.94	18.985			
10,000.00	9,350.00	9,472.33	8,758.00	37.01	38.01	-60.63	-1,077.14	-518.83	1,194.98	1,130.30	64.69	18.474			
10,100.00	9,350.00	9,572.33	8,758.00	38.09	39.11	-60.63	-1,077.21	-618.83	1,194.97	1,128.34	66.63	17.934			

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #137H - OH - Prelim C													Offset Site Error: 3.30usft
Survey Program: 0:MWD-HDGM													Offset Well Error: 0.00usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	9,350.00	9,672.33	8,758.00	39.27	40.32	-60.63	-1,077.28	-718.83	1,194.96	1,126.19	68.77	17.376	
10,300.00	9,350.00	9,772.33	8,758.00	40.55	41.63	-60.63	-1,077.35	-818.83	1,194.95	1,123.88	71.08	16.812	
10,400.00	9,350.00	9,872.33	8,758.00	41.92	43.03	-60.63	-1,077.42	-918.83	1,194.94	1,121.40	73.54	16.249	
10,500.00	9,350.00	9,972.33	8,758.00	43.37	44.50	-60.63	-1,077.49	-1,018.83	1,194.94	1,118.79	76.15	15.693	
10,600.00	9,350.00	10,072.33	8,758.00	44.89	46.05	-60.63	-1,077.56	-1,118.83	1,194.93	1,116.05	78.88	15.150	
10,700.00	9,350.00	10,172.33	8,758.00	46.48	47.66	-60.63	-1,077.63	-1,218.83	1,194.92	1,113.20	81.72	14.622	
10,800.00	9,350.00	10,272.33	8,758.00	48.12	49.32	-60.63	-1,077.70	-1,318.83	1,194.91	1,110.24	84.66	14.113	
10,900.00	9,350.00	10,372.33	8,758.00	49.82	51.03	-60.63	-1,077.77	-1,418.83	1,194.90	1,107.20	87.70	13.624	
11,000.00	9,350.00	10,472.33	8,758.00	51.56	52.79	-60.63	-1,077.84	-1,518.83	1,194.89	1,104.07	90.82	13.156	
11,100.00	9,350.00	10,572.33	8,758.00	53.35	54.60	-60.63	-1,077.91	-1,618.83	1,194.88	1,100.86	94.02	12.709	
11,200.00	9,350.00	10,672.33	8,758.00	55.18	56.44	-60.63	-1,077.98	-1,718.83	1,194.87	1,097.59	97.28	12.283	
11,300.00	9,350.00	10,772.33	8,758.00	57.04	58.31	-60.63	-1,078.05	-1,818.83	1,194.86	1,094.26	100.60	11.877	
11,400.00	9,350.00	10,872.33	8,758.00	58.93	60.21	-60.63	-1,078.12	-1,918.83	1,194.85	1,090.87	103.98	11.491	
11,500.00	9,350.00	10,972.33	8,758.00	60.85	62.14	-60.63	-1,078.19	-2,018.83	1,194.84	1,087.43	107.41	11.124	
11,600.00	9,350.00	11,072.33	8,758.00	62.80	64.10	-60.63	-1,078.26	-2,118.83	1,194.83	1,083.95	110.88	10.776	
11,700.00	9,350.00	11,172.33	8,758.00	64.77	66.08	-60.63	-1,078.33	-2,218.83	1,194.82	1,080.43	114.39	10.445	
11,800.00	9,350.00	11,272.33	8,758.00	66.76	68.08	-60.63	-1,078.40	-2,318.83	1,194.81	1,076.87	117.94	10.131	
11,900.00	9,350.00	11,372.33	8,758.00	68.78	70.10	-60.63	-1,078.47	-2,418.83	1,194.80	1,073.28	121.53	9.832	
12,000.00	9,350.00	11,472.33	8,758.00	70.81	72.13	-60.63	-1,078.54	-2,518.83	1,194.79	1,069.65	125.14	9.548	
12,100.00	9,350.00	11,572.33	8,758.00	72.85	74.19	-60.63	-1,078.61	-2,618.83	1,194.78	1,066.00	128.78	9.277	
12,200.00	9,350.00	11,672.33	8,758.00	74.92	76.25	-60.63	-1,078.68	-2,718.83	1,194.78	1,062.32	132.45	9.020	
12,300.00	9,350.00	11,772.33	8,758.00	76.99	78.33	-60.63	-1,078.75	-2,818.83	1,194.77	1,058.62	136.15	8.775	
12,400.00	9,350.00	11,872.33	8,758.00	79.08	80.43	-60.63	-1,078.82	-2,918.83	1,194.76	1,054.89	139.86	8.542	
12,500.00	9,350.00	11,972.33	8,758.00	81.18	82.53	-60.63	-1,078.88	-3,018.83	1,194.75	1,051.15	143.60	8.320	
12,600.00	9,350.00	12,072.33	8,758.00	83.30	84.65	-60.63	-1,078.95	-3,118.83	1,194.74	1,047.38	147.36	8.108	
12,700.00	9,350.00	12,172.33	8,758.00	85.42	86.77	-60.63	-1,079.02	-3,218.83	1,194.73	1,043.60	151.13	7.905	
12,800.00	9,350.00	12,272.33	8,758.00	87.55	88.91	-60.63	-1,079.09	-3,318.83	1,194.72	1,039.80	154.92	7.712	
12,900.00	9,350.00	12,372.33	8,758.00	89.69	91.05	-60.63	-1,079.16	-3,418.83	1,194.71	1,035.99	158.72	7.527	
13,000.00	9,350.00	12,472.33	8,758.00	91.84	93.20	-60.63	-1,079.23	-3,518.83	1,194.70	1,032.16	162.54	7.350	
13,100.00	9,350.00	12,572.33	8,758.00	94.00	95.36	-60.63	-1,079.30	-3,618.83	1,194.69	1,028.32	166.37	7.181	
13,200.00	9,350.00	12,672.33	8,758.00	96.16	97.52	-60.63	-1,079.37	-3,718.83	1,194.68	1,024.47	170.21	7.019	
13,300.00	9,350.00	12,772.33	8,758.00	98.33	99.69	-60.63	-1,079.44	-3,818.83	1,194.67	1,020.61	174.06	6.863	
13,400.00	9,350.00	12,872.33	8,758.00	100.50	101.87	-60.63	-1,079.51	-3,918.83	1,194.66	1,016.73	177.93	6.714	
13,500.00	9,350.00	12,972.33	8,758.00	102.69	104.06	-60.63	-1,079.58	-4,018.83	1,194.65	1,012.85	181.80	6.571	
13,600.00	9,350.00	13,072.33	8,758.00	104.87	106.24	-60.63	-1,079.65	-4,118.83	1,194.64	1,008.96	185.69	6.434	
13,700.00	9,350.00	13,172.33	8,758.00	107.07	108.44	-60.62	-1,079.72	-4,218.83	1,194.63	1,005.05	189.58	6.301	
13,800.00	9,350.00	13,272.33	8,758.00	109.26	110.64	-60.62	-1,079.79	-4,318.83	1,194.62	1,001.14	193.48	6.174	
13,900.00	9,350.00	13,372.33	8,758.00	111.46	112.84	-60.62	-1,079.86	-4,418.83	1,194.61	997.23	197.39	6.052	
14,000.00	9,350.00	13,472.33	8,758.00	113.67	115.04	-60.62	-1,079.93	-4,518.83	1,194.61	993.30	201.30	5.934	
14,090.45	9,350.00	13,562.78	8,758.00	115.67	117.04	-60.62	-1,079.99	-4,609.28	1,194.60	989.75	204.85	5.832 ES, SF	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #204H - OH - Prelim B													Offset Site Error:
Survey Program: 0-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
0.00	0.00	6.00	-6.00	0.00	0.01	171.88	-2,138.00	305.00	2,159.65				
100.00	100.00	106.00	94.00	0.13	0.15	171.88	-2,138.00	305.00	2,159.65	2,159.37	0.28	7,773.660	
200.00	200.00	206.00	194.00	0.49	0.51	171.88	-2,138.00	305.00	2,159.65	2,158.65	0.99	2,171.024	
300.00	300.00	306.00	294.00	0.85	0.87	171.88	-2,138.00	305.00	2,159.65	2,157.93	1.71	1,261.695	
400.00	400.00	406.00	394.00	1.20	1.23	171.88	-2,138.00	305.00	2,159.65	2,157.22	2.43	889.239	
500.00	500.00	506.00	494.00	1.56	1.58	171.88	-2,138.00	305.00	2,159.65	2,156.50	3.15	686.563	
600.00	600.00	606.00	594.00	1.92	1.94	171.88	-2,138.00	305.00	2,159.65	2,155.78	3.86	559.127	
700.00	700.00	706.00	694.00	2.28	2.30	171.88	-2,138.00	305.00	2,159.65	2,155.07	4.58	471.592	
800.00	800.00	806.00	794.00	2.64	2.66	171.88	-2,138.00	305.00	2,159.65	2,154.35	5.30	407.756	
900.00	900.00	906.00	894.00	3.00	3.02	171.88	-2,138.00	305.00	2,159.65	2,153.63	6.01	359.141	
1,000.00	1,000.00	1,006.00	994.00	3.35	3.38	171.88	-2,138.00	305.00	2,159.65	2,152.92	6.73	320.884	
1,100.00	1,100.00	1,106.00	1,094.00	3.71	3.73	171.88	-2,138.00	305.00	2,159.65	2,152.20	7.45	289.993	
1,200.00	1,200.00	1,206.00	1,194.00	4.07	4.09	171.88	-2,138.00	305.00	2,159.65	2,151.48	8.16	264.527	
1,300.00	1,300.00	1,306.00	1,294.00	4.43	4.45	171.88	-2,138.00	305.00	2,159.65	2,150.76	8.88	243.172	
1,400.00	1,400.00	1,394.00	1,394.00	4.79	4.77	171.88	-2,138.00	305.00	2,159.65	2,150.09	9.56	226.021	
1,500.00	1,500.00	1,544.29	1,544.28	5.15	5.31	171.86	-2,136.24	305.45	2,158.55	2,148.10	10.45	206.565	
1,600.00	1,599.98	1,697.58	1,697.44	5.50	5.85	76.41	-2,130.51	306.90	2,154.57	2,143.23	11.34	189.995	
1,700.00	1,699.84	1,814.62	1,814.28	5.84	6.27	76.63	-2,123.85	308.58	2,147.87	2,135.77	12.10	177.542	
1,800.00	1,799.49	1,914.17	1,913.65	6.18	6.63	76.85	-2,118.00	310.06	2,140.34	2,127.54	12.80	167.207	
1,900.00	1,899.11	2,013.68	2,012.98	6.54	6.99	77.02	-2,112.15	311.54	2,132.73	2,119.23	13.51	157.904	
2,000.00	1,998.73	2,113.20	2,112.31	6.89	7.34	77.19	-2,106.31	313.02	2,125.14	2,110.92	14.22	149.493	
2,100.00	2,098.35	2,212.71	2,211.65	7.24	7.70	77.36	-2,100.46	314.50	2,117.57	2,102.64	14.93	141.857	
2,200.00	2,197.97	2,312.23	2,310.98	7.60	8.06	77.53	-2,094.62	315.98	2,110.01	2,094.37	15.64	134.898	
2,300.00	2,297.59	2,411.75	2,410.31	7.96	8.42	77.70	-2,088.77	317.46	2,102.47	2,086.12	16.36	128.531	
2,400.00	2,297.21	2,511.26	2,509.65	8.32	8.78	77.87	-2,082.93	318.94	2,094.96	2,077.88	17.08	122.688	
2,500.00	2,496.83	2,610.78	2,608.98	8.69	9.14	78.05	-2,077.08	320.42	2,087.46	2,069.66	17.79	117.307	
2,600.00	2,596.45	2,710.29	2,708.31	9.05	9.50	78.22	-2,071.24	321.90	2,079.98	2,061.46	18.52	112.336	
2,700.00	2,696.07	2,809.81	2,807.64	9.41	9.86	78.40	-2,065.39	323.38	2,072.52	2,053.28	19.24	107.733	
2,800.00	2,795.69	2,909.32	2,906.98	9.78	10.23	78.58	-2,059.55	324.86	2,065.08	2,045.12	19.96	103.458	
2,900.00	2,895.30	3,008.84	3,006.31	10.15	10.59	78.76	-2,053.70	326.34	2,057.66	2,036.97	20.68	99.478	
3,000.00	2,994.92	3,108.36	3,105.64	10.51	10.95	78.94	-2,047.85	327.82	2,050.26	2,028.85	21.41	95.764	
3,100.00	3,094.54	3,207.87	3,204.98	10.88	11.31	79.12	-2,042.01	329.30	2,042.88	2,020.75	22.14	92.291	
3,200.00	3,194.16	3,307.39	3,304.31	11.25	11.67	79.30	-2,036.16	330.78	2,035.52	2,012.66	22.86	89.037	
3,300.00	3,293.78	3,406.90	3,403.64	11.62	12.03	79.49	-2,030.32	332.26	2,028.19	2,004.60	23.59	85.981	
3,400.00	3,393.40	3,506.42	3,502.98	11.99	12.40	79.67	-2,024.47	333.74	2,020.87	1,996.55	24.32	83.108	
3,500.00	3,493.02	3,605.94	3,602.31	12.36	12.76	79.86	-2,018.63	335.22	2,013.58	1,988.53	25.04	80.400	
3,600.00	3,592.64	3,705.45	3,701.64	12.73	13.12	80.05	-2,012.78	336.70	2,006.30	1,980.53	25.77	77.845	
3,700.00	3,692.26	3,804.97	3,800.97	13.11	13.48	80.24	-2,006.94	338.18	1,999.05	1,972.55	26.50	75.429	
3,800.00	3,791.88	3,904.48	3,900.31	13.48	13.85	80.43	-2,001.09	339.66	1,991.82	1,964.59	27.23	73.143	
3,900.00	3,891.50	4,004.00	3,999.64	13.85	14.21	80.62	-1,995.25	341.14	1,984.61	1,956.65	27.96	70.976	
4,000.00	3,991.12	4,103.52	4,098.97	14.22	14.57	80.82	-1,989.40	342.62	1,977.43	1,948.74	28.69	68.919	
4,100.00	4,090.74	4,203.03	4,198.31	14.59	14.93	81.01	-1,983.56	344.10	1,970.27	1,940.85	29.42	66.964	
4,200.00	4,190.36	4,302.55	4,297.64	14.97	15.30	81.21	-1,977.71	345.58	1,963.13	1,932.98	30.15	65.104	
4,300.00	4,289.98	4,402.06	4,396.97	15.34	15.66	81.41	-1,971.87	347.06	1,956.02	1,925.13	30.89	63.332	
4,400.00	4,389.59	4,501.58	4,496.31	15.71	16.02	81.61	-1,966.02	348.54	1,948.92	1,917.31	31.62	61.642	
4,500.00	4,489.21	4,601.09	4,595.64	16.09	16.39	81.81	-1,960.18	350.02	1,941.86	1,909.51	32.35	60.029	
4,600.00	4,588.83	4,700.61	4,694.97	16.46	16.75	82.01	-1,954.33	351.50	1,934.81	1,901.73	33.08	58.487	
4,700.00	4,688.45	4,800.13	4,794.31	16.84	17.11	82.21	-1,948.49	352.98	1,927.79	1,893.98	33.81	57.013	
4,800.00	4,788.07	4,900.36	4,893.64	17.21	17.48	82.42	-1,942.64	354.46	1,920.80	1,886.25	34.55	55.598	
4,900.00	4,887.69	5,000.84	4,992.97	17.58	17.84	82.63	-1,936.79	355.94	1,913.83	1,878.55	35.28	54.240	
5,000.00	4,987.31	5,101.33	5,092.30	17.96	18.21	82.84	-1,930.95	357.42	1,906.89	1,870.86	36.02	52.938	
5,100.00	5,086.93	5,201.81	5,191.64	18.33	18.58	83.05	-1,925.10	358.90	1,899.97	1,863.21	36.76	51.689	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #204H - OH - Prelim B													Offset Site Error:
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis		Reference	Offset	Highside	Offset Wellbore	Centre	Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,200.00	5,186.55	5,302.29	5,290.97	18.71	18.94	83.26	-1,919.26	360.38	1,893.07	1,855.58	37.49	50.489	
5,300.00	5,286.17	5,402.78	5,390.30	19.08	19.31	83.47	-1,913.41	361.86	1,886.21	1,847.98	38.23	49.336	
5,400.00	5,385.79	5,481.86	5,474.79	19.46	19.60	83.65	-1,908.63	363.07	1,879.61	1,840.71	38.90	48.318	
5,500.00	5,485.41	5,557.51	5,550.37	19.83	19.87	83.83	-1,905.27	363.92	1,874.22	1,834.66	39.56	47.378	
5,600.00	5,585.06	5,633.24	5,626.06	20.21	20.15	83.98	-1,902.88	364.52	1,870.17	1,829.96	40.21	46.510	
5,700.00	5,684.83	5,709.09	5,701.89	20.58	20.42	84.09	-1,901.45	364.89	1,867.59	1,826.74	40.85	45.718	
5,800.00	5,784.70	5,785.90	5,778.70	20.94	20.69	84.20	-1,901.00	365.00	1,866.49	1,825.00	41.48	44.995	
5,900.00	5,884.65	5,885.85	5,878.65	21.30	21.04	84.29	-1,901.00	365.00	1,866.16	1,823.97	42.20	44.226	
6,000.00	5,984.64	5,985.84	5,978.64	21.65	21.40	84.34	-1,901.00	365.00	1,866.02	1,823.11	42.90	43.493	
6,092.07	6,076.70	6,077.90	6,070.70	21.96	21.72	84.35	-1,901.00	365.00	1,865.98	1,822.44	43.55	42.852 CC	
6,100.00	6,084.64	6,085.84	6,078.64	21.99	21.75	179.88	-1,901.00	365.00	1,866.00	1,822.40	43.60	42.798	
6,200.00	6,184.64	6,185.84	6,178.64	22.33	22.10	179.88	-1,901.00	365.00	1,866.00	1,821.71	44.30	42.125	
6,300.00	6,284.64	6,285.84	6,278.64	22.67	22.46	179.88	-1,901.00	365.00	1,866.00	1,821.01	44.99	41.473	
6,400.00	6,384.64	6,385.84	6,378.64	23.01	22.81	179.88	-1,901.00	365.00	1,866.00	1,820.31	45.69	40.840	
6,500.00	6,484.64	6,485.84	6,478.64	23.35	23.17	179.88	-1,901.00	365.00	1,866.00	1,819.62	46.39	40.225	
6,600.00	6,584.64	6,585.84	6,578.64	23.69	23.52	179.88	-1,901.00	365.00	1,866.00	1,818.92	47.09	39.629	
6,700.00	6,684.64	6,685.84	6,678.64	24.03	23.87	179.88	-1,901.00	365.00	1,866.00	1,818.22	47.79	39.049	
6,800.00	6,784.64	6,785.84	6,778.64	24.37	24.23	179.88	-1,901.00	365.00	1,866.00	1,817.52	48.49	38.485	
6,900.00	6,884.64	6,885.84	6,878.64	24.72	24.58	179.88	-1,901.00	365.00	1,866.00	1,816.82	49.19	37.938	
7,000.00	6,984.64	6,985.84	6,978.64	25.06	24.94	179.88	-1,901.00	365.00	1,866.00	1,816.12	49.89	37.405	
7,100.00	7,084.64	7,085.84	7,078.64	25.40	25.29	179.88	-1,901.00	365.00	1,866.00	1,815.42	50.59	36.887	
7,200.00	7,184.64	7,185.84	7,178.64	25.75	25.65	179.88	-1,901.00	365.00	1,866.00	1,814.72	51.29	36.382	
7,300.00	7,284.64	7,285.84	7,278.64	26.09	26.00	179.88	-1,901.00	365.00	1,866.00	1,814.01	51.99	35.891	
7,400.00	7,384.64	7,385.84	7,378.64	26.44	26.36	179.88	-1,901.00	365.00	1,866.00	1,813.31	52.69	35.413	
7,500.00	7,484.64	7,485.84	7,478.64	26.78	26.71	179.88	-1,901.00	365.00	1,866.00	1,812.61	53.40	34.947	
7,600.00	7,584.64	7,585.84	7,578.64	27.13	27.07	179.88	-1,901.00	365.00	1,866.00	1,811.91	54.10	34.493	
7,700.00	7,684.64	7,685.84	7,678.64	27.47	27.43	179.88	-1,901.00	365.00	1,866.00	1,811.20	54.80	34.050	
7,800.00	7,784.64	7,785.84	7,778.64	27.82	27.78	179.88	-1,901.00	365.00	1,866.00	1,810.50	55.51	33.618	
7,900.00	7,884.64	7,885.84	7,878.64	28.17	28.14	179.88	-1,901.00	365.00	1,866.00	1,809.79	56.21	33.197	
8,000.00	7,984.64	7,985.84	7,978.64	28.51	28.49	179.88	-1,901.00	365.00	1,866.00	1,809.09	56.91	32.786	
8,100.00	8,084.64	8,085.84	8,078.64	28.86	28.85	179.88	-1,901.00	365.00	1,866.00	1,808.39	57.62	32.385	
8,200.00	8,184.64	8,185.84	8,178.64	29.21	29.20	179.88	-1,901.00	365.00	1,866.00	1,807.68	58.32	31.994	
8,300.00	8,284.64	8,285.84	8,278.64	29.56	29.56	179.88	-1,901.00	365.00	1,866.00	1,806.98	59.03	31.612	
8,400.00	8,384.64	8,385.84	8,378.64	29.90	29.92	179.88	-1,901.00	365.00	1,866.00	1,806.27	59.73	31.238	
8,500.00	8,484.64	8,485.84	8,478.64	30.25	30.27	179.88	-1,901.00	365.00	1,866.00	1,805.56	60.44	30.873	
8,600.00	8,584.64	8,585.84	8,578.64	30.60	30.63	179.88	-1,901.00	365.00	1,866.00	1,804.86	61.15	30.517	
8,700.00	8,684.64	8,685.84	8,678.64	30.95	30.98	179.88	-1,901.00	365.00	1,866.00	1,804.15	61.85	30.168	
8,700.11	8,684.75	8,685.95	8,678.75	30.95	30.98	179.88	-1,901.00	365.00	1,866.00	1,804.15	61.85	30.168	
8,800.00	8,784.64	8,774.43	8,767.22	31.30	31.30	-90.06	-1,901.06	364.72	1,866.10	1,803.58	62.51	29.852	
8,900.00	8,884.01	8,835.89	8,828.43	31.61	31.50	-89.93	-1,902.07	359.57	1,867.74	1,804.74	63.01	29.644	
9,000.00	8,980.13	8,900.00	8,891.29	31.90	31.71	-89.73	-1,904.49	347.39	1,871.44	1,807.97	63.46	29.488	
9,100.00	9,070.07	8,959.06	8,947.65	32.17	31.88	-89.45	-1,907.90	330.14	1,877.11	1,813.25	63.87	29.391	
9,200.00	9,151.12	9,021.02	9,004.49	32.43	32.06	-89.10	-1,912.68	306.03	1,884.70	1,820.42	64.27	29.323	
9,300.00	9,220.80	9,083.42	9,058.72	32.71	32.23	-88.71	-1,918.66	275.80	1,894.10	1,829.39	64.71	29.271	
9,400.00	9,276.99	9,150.00	9,112.52	33.03	32.44	-88.30	-1,926.27	237.39	1,905.21	1,839.98	65.23	29.206	
9,500.00	9,318.00	9,218.49	9,162.74	33.43	32.67	-87.87	-1,935.27	191.76	1,917.89	1,852.02	65.87	29.115	
9,600.00	9,342.56	9,425.83	9,277.32	33.93	33.51	-88.93	-1,957.72	21.79	1,928.46	1,861.09	67.37	28.623	
9,700.00	9,350.00	9,668.87	9,326.29	34.51	34.99	-89.48	-1,967.89	-214.19	1,932.51	1,863.02	69.49	27.810	
9,800.00	9,350.00	9,773.02	9,324.70	35.21	35.83	-89.43	-1,967.94	-318.33	1,932.49	1,861.46	71.03	27.207	
9,900.00	9,350.00	9,873.01	9,323.13	36.05	36.75	-89.38	-1,967.99	-418.31	1,932.48	1,859.69	72.79	26.550	
10,000.00	9,350.00	9,973.00	9,321.56	37.01	37.79	-89.33	-1,968.04	-518.28	1,932.46	1,857.67	74.79	25.839	
10,100.00	9,350.00	10,072.99	9,319.99	38.09	38.94	-89.29	-1,968.09	-618.26	1,932.45	1,855.43	77.02	25.091	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim B												Offset Site Error:
Survey Program: 0-MWD+HDGM												Offset Well Error:
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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
10,200.00	9,350.00	10,172.97	9,318.42	39.27	40.20	-89.24	-1,968.13	-718.23	1,932.43	1,852.98	79.45	24.323
10,300.00	9,350.00	10,272.96	9,316.85	40.55	41.54	-89.20	-1,968.18	-818.21	1,932.42	1,850.35	82.07	23.546
10,400.00	9,350.00	10,372.95	9,315.28	41.92	42.96	-89.15	-1,968.23	-918.18	1,932.41	1,847.55	84.86	22.771
10,500.00	9,350.00	10,472.94	9,313.71	43.37	44.46	-89.10	-1,968.28	-1,018.16	1,932.40	1,844.60	87.81	22.008
10,600.00	9,350.00	10,572.92	9,312.14	44.89	46.02	-89.06	-1,968.33	-1,118.13	1,932.40	1,841.51	90.89	21.261
10,700.00	9,350.00	10,672.91	9,310.57	46.48	47.65	-89.01	-1,968.37	-1,218.11	1,932.39	1,838.29	94.10	20.536
10,800.00	9,350.00	10,772.90	9,309.00	48.12	49.33	-88.96	-1,968.42	-1,318.08	1,932.39	1,834.97	97.42	19.835
10,900.00	9,350.00	10,872.89	9,307.43	49.82	51.06	-88.92	-1,968.47	-1,418.06	1,932.38	1,831.54	100.84	19.162
11,000.00	9,350.00	10,972.87	9,305.86	51.56	52.83	-88.87	-1,968.52	-1,518.03	1,932.38	1,828.02	104.36	18.517
11,100.00	9,350.00	11,072.86	9,304.29	53.35	54.64	-88.82	-1,968.56	-1,618.01	1,932.38	1,824.42	107.96	17.900
11,139.62	9,350.00	11,112.48	9,303.67	54.07	55.37	-88.80	-1,968.58	-1,657.62	1,932.38	1,822.97	109.40	17.663
11,200.00	9,350.00	11,172.56	9,302.64	55.18	56.48	-88.77	-1,968.61	-1,717.70	1,932.38	1,820.76	111.62	17.312
11,300.00	9,350.00	11,272.54	9,300.38	57.04	58.37	-88.71	-1,968.66	-1,817.65	1,932.40	1,817.04	115.36	16.751
11,400.00	9,350.00	11,372.51	9,298.12	58.93	60.28	-88.64	-1,968.71	-1,917.60	1,932.42	1,813.26	119.16	16.217
11,500.00	9,350.00	11,472.49	9,295.85	60.85	62.22	-88.57	-1,968.75	-2,017.54	1,932.44	1,809.42	123.02	15.709
11,600.00	9,350.00	11,572.46	9,293.59	62.80	64.18	-88.51	-1,968.80	-2,117.49	1,932.46	1,805.54	126.92	15.226
11,700.00	9,350.00	11,672.44	9,291.33	64.77	66.17	-88.44	-1,968.85	-2,217.44	1,932.49	1,801.62	130.87	14.766
11,800.00	9,350.00	11,772.41	9,289.07	66.76	68.17	-88.37	-1,968.90	-2,317.39	1,932.52	1,797.66	134.86	14.329
11,900.00	9,350.00	11,872.38	9,286.81	68.78	70.20	-88.30	-1,968.94	-2,417.34	1,932.56	1,793.66	138.89	13.914
12,000.00	9,350.00	11,972.36	9,284.55	70.81	72.24	-88.24	-1,968.99	-2,517.29	1,932.59	1,789.63	142.96	13.519
12,100.00	9,350.00	12,072.33	9,282.29	72.85	74.29	-88.17	-1,969.04	-2,617.24	1,932.63	1,785.57	147.05	13.142
12,200.00	9,350.00	12,172.31	9,280.03	74.92	76.37	-88.10	-1,969.09	-2,717.19	1,932.67	1,781.49	151.18	12.784
12,300.00	9,350.00	12,272.28	9,277.76	76.99	78.45	-88.04	-1,969.14	-2,817.13	1,932.71	1,777.38	155.33	12.442
12,400.00	9,350.00	12,372.26	9,275.50	79.08	80.55	-87.97	-1,969.18	-2,917.08	1,932.76	1,773.25	159.51	12.117
12,500.00	9,350.00	12,472.23	9,273.24	81.18	82.65	-87.90	-1,969.23	-3,017.03	1,932.81	1,769.10	163.71	11.806
12,600.00	9,350.00	12,572.21	9,270.98	83.30	84.77	-87.84	-1,969.28	-3,116.98	1,932.86	1,764.93	167.93	11.510
12,700.00	9,350.00	12,672.18	9,268.72	85.42	86.90	-87.77	-1,969.33	-3,216.93	1,932.91	1,760.75	172.17	11.227
12,800.00	9,350.00	12,772.15	9,266.46	87.55	89.04	-87.70	-1,969.37	-3,316.88	1,932.97	1,756.55	176.42	10.956
12,900.00	9,350.00	12,872.13	9,264.20	89.69	91.18	-87.63	-1,969.42	-3,416.83	1,933.03	1,752.33	180.70	10.698
13,000.00	9,350.00	12,972.10	9,261.94	91.84	93.33	-87.57	-1,969.47	-3,516.78	1,933.09	1,748.11	184.99	10.450
13,100.00	9,350.00	13,072.08	9,259.67	94.00	95.49	-87.50	-1,969.52	-3,616.73	1,933.16	1,743.87	189.29	10.213
13,200.00	9,350.00	13,172.05	9,257.41	96.16	97.66	-87.43	-1,969.56	-3,716.67	1,933.22	1,739.62	193.60	9.985
13,300.00	9,350.00	13,272.03	9,255.15	98.33	99.83	-87.37	-1,969.61	-3,816.62	1,933.29	1,735.36	197.93	9.767
13,400.00	9,350.00	13,372.00	9,252.89	100.50	102.01	-87.30	-1,969.66	-3,916.57	1,933.37	1,731.09	202.27	9.558
13,500.00	9,350.00	13,471.97	9,250.63	102.69	104.19	-87.23	-1,969.71	-4,016.52	1,933.44	1,726.82	206.62	9.357
13,600.00	9,350.00	13,571.95	9,248.37	104.87	106.38	-87.17	-1,969.76	-4,116.47	1,933.52	1,722.54	210.98	9.164
13,700.00	9,350.00	13,671.92	9,246.11	107.07	108.58	-87.10	-1,969.80	-4,216.42	1,933.60	1,718.25	215.35	8.979
13,800.00	9,350.00	13,771.90	9,243.85	109.26	110.78	-87.03	-1,969.85	-4,316.37	1,933.68	1,713.95	219.73	8.800
13,900.00	9,350.00	13,871.87	9,241.58	111.46	112.98	-86.96	-1,969.90	-4,416.32	1,933.77	1,709.65	224.12	8.628
14,000.00	9,350.00	13,971.85	9,239.32	113.67	115.19	-86.90	-1,969.95	-4,516.26	1,933.86	1,705.35	228.51	8.463
14,090.45	9,350.00	14,062.27	9,237.28	115.67	117.19	-86.84	-1,969.99	-4,606.66	1,933.94	1,701.45	232.49	8.318 ES, SF

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 #203H
Project	Eddy County, NM (NAD27)	TVD Reference	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site	Stebbins Federal 19	MD Reference	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error	3.30 usft	North Reference	Grid
Reference Well	#203H	Survey Calculation Method	Minimum Curvature
Well Error	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database	WellPlanner1
Reference Design	Prelim C	Offset TVD Reference	Offset Datum

Offset Design											Stebbins Federal 19 - #227H - OH - Prelim D				Offset Site Error: 3.30 usft	
Survey Program: 3D-MWD-HDGM															Offset Well Error: 0.00 usft	
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	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)						
0.00	0.00	1.00	-1.00	0.00	0.00	0.00	30.00	0.00	30.00							
100.00	100.00	101.00	99.00	0.13	0.13	0.00	30.00	0.00	30.00	29.74	0.26	115.432				
200.00	200.00	201.00	199.00	0.49	0.49	0.00	30.00	0.00	30.00	29.02	0.98	30.711				
300.00	300.00	301.00	299.00	0.85	0.85	0.00	30.00	0.00	30.00	28.31	1.69	17.712				
400.00	400.00	401.00	399.00	1.20	1.21	0.00	30.00	0.00	30.00	27.59	2.41	12.444				
500.00	500.00	501.00	499.00	1.56	1.57	0.00	30.00	0.00	30.00	26.87	3.13	9.592				
600.00	600.00	601.00	599.00	1.92	1.92	0.00	30.00	0.00	30.00	26.16	3.84	7.803				
700.00	700.00	701.00	699.00	2.28	2.28	0.00	30.00	0.00	30.00	25.44	4.56	6.577				
800.00	800.00	801.00	799.00	2.64	2.64	0.00	30.00	0.00	30.00	24.72	5.28	5.683				
900.00	900.00	901.00	899.00	3.00	3.00	0.00	30.00	0.00	30.00	24.00	6.00	5.004				
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	0.00	30.00	0.00	30.00	23.29	6.71	4.469				
1,100.00	1,100.00	1,101.00	1,099.00	3.71	3.72	0.00	30.00	0.00	30.00	22.57	7.43	4.038				
1,200.00	1,200.00	1,201.00	1,199.00	4.07	4.07	0.00	30.00	0.00	30.00	21.85	8.15	3.683				
1,300.00	1,300.00	1,301.00	1,299.00	4.43	4.43	0.00	30.00	0.00	30.00	21.14	8.86	3.385				
1,400.00	1,400.00	1,401.00	1,399.00	4.79	4.79	0.00	30.00	0.00	30.00	20.42	9.58	3.131				
1,500.00	1,500.00	1,501.00	1,499.00	5.15	5.15	0.00	30.00	0.00	30.00	19.70	10.30	2.913 CC				
1,600.00	1,599.98	1,601.02	1,598.98	5.50	5.51	-98.83	30.00	0.00	30.22	19.21	11.00	2.746 ES				
1,700.00	1,699.84	1,701.16	1,698.84	5.84	5.87	-108.26	30.00	0.00	31.45	19.74	11.71	2.687 SF				
1,800.00	1,799.49	1,798.49	1,798.49	6.18	6.22	-121.20	30.00	0.00	34.95	22.55	12.40	2.818				
1,900.00	1,899.11	1,898.78	1,898.77	6.54	6.56	-132.20	29.23	0.35	39.34	26.26	13.09	3.006				
2,000.00	1,998.73	1,999.17	1,999.13	6.89	6.89	-141.57	26.85	1.43	43.24	29.49	13.76	3.143				
2,100.00	2,098.35	2,099.59	2,099.45	7.24	7.22	-150.27	22.87	3.25	46.57	32.14	14.43	3.227				
2,200.00	2,197.97	2,199.98	2,199.66	7.60	7.55	-158.91	17.30	5.78	49.43	34.32	15.10	3.272				
2,300.00	2,297.59	2,300.28	2,299.65	7.96	7.89	-167.85	10.14	9.05	52.08	36.29	15.79	3.299				
2,400.00	2,397.21	2,400.43	2,399.33	8.32	8.23	-177.24	1.40	13.03	54.88	38.41	16.48	3.331				
2,500.00	2,496.83	2,500.36	2,498.62	8.69	8.58	-172.94	-8.91	17.72	58.29	41.11	17.18	3.393				
2,600.00	2,596.45	2,600.02	2,597.42	9.05	8.93	-162.92	-20.75	23.11	62.79	44.89	17.90	3.508				
2,700.00	2,696.07	2,700.71	2,695.69	9.41	9.28	-153.53	-33.56	28.95	68.85	50.22	18.63	3.696				
2,800.00	2,795.69	2,801.48	2,793.91	9.78	9.65	-145.80	-46.40	34.80	76.45	57.09	19.36	3.949				
2,900.00	2,895.30	2,902.25	2,892.13	10.15	10.02	-139.55	-59.23	40.64	85.18	65.09	20.09	4.240				
3,000.00	2,994.92	3,003.02	2,990.35	10.51	10.39	-134.50	-72.07	46.49	94.74	73.92	20.82	4.550				
3,100.00	3,094.54	3,103.80	3,088.57	10.88	10.76	-130.40	-84.90	52.33	104.90	83.34	21.56	4.866				
3,200.00	3,194.16	3,204.57	3,186.79	11.25	11.14	-127.03	-97.73	58.18	115.49	93.20	22.29	5.181				
3,300.00	3,293.78	3,305.34	3,285.02	11.62	11.52	-124.23	-110.57	64.02	126.41	103.39	23.03	5.490				
3,400.00	3,393.40	3,406.11	3,383.24	11.99	11.90	-121.88	-123.40	69.87	137.59	113.83	23.76	5.790				
3,500.00	3,493.02	3,506.88	3,481.46	12.36	12.28	-119.89	-136.24	75.71	148.96	124.46	24.50	6.079				
3,600.00	3,592.64	3,607.66	3,579.68	12.73	12.67	-118.18	-149.07	81.56	160.48	135.24	25.24	6.357				
3,700.00	3,692.26	3,708.43	3,677.90	13.11	13.06	-116.70	-161.90	87.40	172.12	146.14	25.98	6.624				
3,800.00	3,791.88	3,790.80	3,776.12	13.48	13.38	-115.41	-174.74	93.25	183.87	157.21	26.66	6.897				
3,900.00	3,891.50	3,890.03	3,874.34	13.85	13.76	-114.27	-187.57	99.09	195.69	168.29	27.40	7.143				
4,000.00	3,991.12	3,989.26	3,972.56	14.22	14.15	-113.27	-200.41	104.94	207.58	179.45	28.14	7.378				
4,100.00	4,090.74	4,088.48	4,070.78	14.59	14.53	-112.37	-213.24	110.79	219.53	190.66	28.88	7.603				
4,200.00	4,190.36	4,187.71	4,169.00	14.97	14.92	-111.56	-226.07	116.63	231.53	201.91	29.62	7.817				
4,300.00	4,289.98	4,286.94	4,267.22	15.34	15.31	-110.84	-238.91	122.48	243.56	213.20	30.36	8.023				
4,400.00	4,389.59	4,386.17	4,365.44	15.71	15.70	-110.18	-251.74	128.32	255.64	224.53	31.10	8.219				
4,500.00	4,489.21	4,485.40	4,463.66	16.09	16.09	-109.58	-264.58	134.17	267.74	235.89	31.85	8.407				
4,600.00	4,588.83	4,584.62	4,561.89	16.46	16.48	-109.04	-277.41	140.01	279.86	247.27	32.59	8.587				
4,700.00	4,688.45	4,683.85	4,660.11	16.84	16.88	-108.53	-290.24	145.86	292.02	258.68	33.34	8.760				
4,800.00	4,788.07	4,783.08	4,758.33	17.21	17.27	-108.07	-303.08	151.70	304.19	270.11	34.08	8.925				
4,900.00	4,887.69	4,882.31	4,856.55	17.58	17.67	-107.65	-315.91	157.55	316.38	281.55	34.83	9.084				
5,000.00	4,987.31	4,981.54	4,954.77	17.96	18.06	-107.25	-328.75	163.39	328.58	293.01	35.57	9.236				
5,100.00	5,086.93	5,080.76	5,052.99	18.33	18.46	-106.89	-341.58	169.24	340.80	304.48	36.32	9.383				

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #227H - OH - Prelim D													Offset Site Error
Survey Program 0-MWD-HDGM													3.30 usft
Reference		Offset		Semi Major Axis		Distance		Offset Wellbore Centre		Between Centres		Minimum Separation	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)	Centres (usft)	Ellipses (usft)	(usft)	Factor
5,200.00	5,186.55	5,179.99	5,151.21	18.71	18.85	106.55		-354.41	175.08	353.03	315.96	37.07	9.523
5,300.00	5,286.17	5,279.22	5,249.43	19.08	19.25	106.23		-367.25	180.93	365.27	327.46	37.82	9.659
5,400.00	5,385.79	5,378.45	5,347.65	19.46	19.65	105.93		-380.08	186.77	377.53	338.96	38.57	9.789
5,500.00	5,485.41	5,477.68	5,445.87	19.83	20.04	105.66		-392.92	192.62	389.79	350.48	39.32	9.914
5,600.00	5,585.06	5,576.91	5,544.10	20.21	20.44	105.42		-405.75	198.47	401.97	361.90	40.06	10.033
5,700.00	5,684.83	5,676.15	5,642.33	20.58	20.84	105.02		-418.59	204.31	413.73	372.93	40.80	10.140
5,800.00	5,784.70	5,775.36	5,740.54	20.94	21.24	104.42		-431.42	210.16	425.10	383.56	41.53	10.235
5,900.00	5,884.65	5,874.52	5,838.69	21.30	21.64	103.63		-444.24	216.00	436.11	393.86	42.25	10.321
6,000.00	5,984.64	5,973.60	5,936.76	21.65	22.04	102.66		-457.06	221.83	446.85	403.89	42.97	10.400
6,100.00	6,084.64	6,072.59	6,034.75	21.99	22.43	-162.95		-469.86	227.67	457.46	413.80	43.66	10.477
6,200.00	6,184.64	6,171.58	6,132.73	22.33	22.83	-164.10		-482.66	233.50	468.24	423.89	44.36	10.556
6,300.00	6,284.64	6,270.56	6,230.71	22.67	23.23	-165.20		-495.47	239.33	479.20	434.15	45.05	10.637
6,400.00	6,384.64	6,369.55	6,328.69	23.01	23.63	-166.25		-508.27	245.16	490.33	444.58	45.75	10.719
6,500.00	6,484.64	6,468.53	6,426.67	23.35	24.03	-167.25		-521.07	250.99	501.61	455.17	46.44	10.801
6,600.00	6,584.64	6,567.52	6,524.65	23.69	24.43	-168.20		-533.87	256.82	513.04	465.90	47.14	10.884
6,700.00	6,684.64	6,666.50	6,622.63	24.03	24.83	-169.12		-546.68	262.65	524.60	476.77	47.83	10.968
6,800.00	6,784.64	6,765.49	6,720.61	24.37	25.23	-170.00		-559.48	268.48	536.29	487.76	48.53	11.051
6,900.00	6,884.64	6,864.47	6,818.59	24.72	25.63	-170.83		-572.28	274.31	548.10	498.88	49.23	11.135
7,000.00	6,984.64	6,963.46	6,916.57	25.06	26.04	-171.64		-585.08	280.15	560.03	510.10	49.92	11.218
7,100.00	7,084.64	7,062.44	7,014.55	25.40	26.44	-172.41		-597.89	285.98	572.05	521.43	50.62	11.301
7,200.00	7,184.64	7,161.43	7,112.53	25.75	26.84	-173.15		-610.69	291.81	584.18	532.86	51.32	11.383
7,300.00	7,284.64	7,260.41	7,210.51	26.09	27.24	-173.85		-623.49	297.64	596.39	544.37	52.02	11.465
7,400.00	7,384.64	7,359.40	7,308.49	26.44	27.64	-174.53		-636.29	303.47	608.70	555.98	52.72	11.546
7,500.00	7,484.64	7,458.38	7,406.47	26.78	28.04	-175.19		-649.10	309.30	621.08	567.66	53.42	11.626
7,600.00	7,584.64	7,557.37	7,504.45	27.13	28.45	-175.82		-661.90	315.13	633.54	579.42	54.12	11.706
7,700.00	7,684.64	7,656.35	7,602.43	27.47	28.85	-176.42		-674.70	320.96	646.08	591.25	54.82	11.785
7,800.00	7,784.64	7,755.34	7,700.41	27.82	29.25	-177.00		-687.50	326.79	658.68	603.15	55.53	11.863
7,900.00	7,884.64	7,854.32	7,798.39	28.17	29.65	-177.56		-700.31	332.62	671.35	615.12	56.23	11.940
8,000.00	7,984.64	7,953.31	7,896.37	28.51	30.05	-178.10		-713.11	338.46	684.07	627.14	56.93	12.016
8,100.00	8,084.64	8,063.56	8,005.63	28.86	30.50	-178.64		-726.54	344.57	696.12	638.39	57.73	12.058
8,200.00	8,184.64	8,175.24	8,116.57	29.21	30.94	-179.09		-738.19	349.88	706.47	647.95	58.52	12.072
8,300.00	8,284.64	8,287.38	8,228.21	29.56	31.36	-179.46		-747.91	354.31	715.09	655.79	59.30	12.059
8,400.00	8,384.64	8,399.91	8,340.41	29.90	31.78	-179.75		-755.66	357.84	721.97	661.90	60.07	12.020
8,500.00	8,484.64	8,512.72	8,453.04	30.25	32.19	-179.96		-761.42	360.46	727.06	666.25	60.81	11.955
8,600.00	8,584.64	8,625.74	8,565.99	30.60	32.59	-179.91		-765.16	362.16	730.38	668.83	61.55	11.867
8,700.00	8,684.64	8,738.88	8,679.11	30.95	32.97	-179.85		-766.88	362.95	731.90	669.64	62.26	11.756
8,800.00	8,784.64	8,816.08	8,756.28	31.30	33.21	-90.00		-767.71	361.94	733.23	670.33	62.90	11.657
8,900.00	8,884.01	8,874.11	8,813.88	31.61	33.40	-89.36		-771.52	356.31	739.76	676.42	63.34	11.679
9,000.00	8,980.13	8,931.52	8,869.90	31.90	33.59	-88.57		-778.46	346.01	751.74	688.14	63.60	11.820
9,100.00	9,070.07	8,987.96	8,923.50	32.17	33.77	-87.63		-788.31	331.40	768.88	705.14	63.74	12.063
9,200.00	9,151.12	9,050.00	8,980.10	32.43	33.97	-86.68		-802.48	310.40	790.93	726.98	63.95	12.368
9,300.00	9,220.80	9,100.00	9,023.51	32.71	34.12	-85.30		-816.34	289.86	817.42	753.32	64.10	12.752
9,400.00	9,276.99	9,150.00	9,064.59	33.03	34.26	-83.71		-832.26	266.25	848.10	783.67	64.43	13.163
9,500.00	9,318.00	9,200.00	9,103.04	33.43	34.41	-81.93		-850.12	239.77	882.51	817.52	64.98	13.580
9,600.00	9,342.56	9,326.19	9,188.09	33.93	34.72	-82.94		-897.15	159.66	918.90	852.48	66.41	13.836
9,700.00	9,350.00	9,676.25	9,323.51	34.51	35.39	-88.44		-973.02	-148.05	940.62	871.83	68.79	13.674
9,800.00	9,350.00	9,847.46	9,330.00	35.21	36.13	-88.84		-976.78	-318.85	941.42	870.93	70.50	13.354
9,900.00	9,350.00	9,947.46	9,330.00	36.05	36.83	-88.84		-976.85	-418.85	941.42	869.29	72.13	13.052
10,000.00	9,350.00	10,047.46	9,330.00	37.01	37.70	-88.84		-976.93	-518.85	941.41	867.40	74.01	12.720
10,100.00	9,350.00	10,147.46	9,330.00	38.09	38.70	-88.84		-977.00	-618.85	941.41	865.28	76.13	12.366
10,200.00	9,350.00	10,247.46	9,330.00	39.27	39.83	-88.84		-977.08	-718.85	941.40	862.94	78.46	11.998
10,300.00	9,350.00	10,347.46	9,330.00	40.55	41.05	-88.84		-977.15	-818.85	941.39	860.41	80.99	11.624

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #227H - OH - Prelim D													Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HOGM													Offset Well Error:	0.00 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	
10,400.00	9,350.00	10,447.46	9,330.00	41.92	42.37	-88.84	-977.23	-918.85	941.39	857.69	83.70	11.248		
10,500.00	9,350.00	10,547.46	9,330.00	43.37	43.77	-88.84	-977.30	-1,018.85	941.38	854.82	86.56	10.875		
10,600.00	9,350.00	10,647.46	9,330.00	44.89	45.25	-88.84	-977.38	-1,118.85	941.38	851.80	89.58	10.509		
10,700.00	9,350.00	10,747.46	9,330.00	46.48	46.79	-88.84	-977.45	-1,218.85	941.37	848.65	92.72	10.152		
10,800.00	9,350.00	10,847.46	9,330.00	48.12	48.40	-88.84	-977.53	-1,318.85	941.37	845.38	95.99	9.807		
10,900.00	9,350.00	10,947.46	9,330.00	49.82	50.06	-88.84	-977.60	-1,418.85	941.36	842.00	99.36	9.474		
11,000.00	9,350.00	11,047.46	9,330.00	51.56	51.77	-88.84	-977.68	-1,518.85	941.36	838.52	102.83	9.154		
11,100.00	9,350.00	11,147.46	9,330.00	53.35	53.52	-88.84	-977.75	-1,618.85	941.35	834.96	106.39	8.848		
11,200.00	9,350.00	11,247.46	9,330.00	55.18	55.31	-88.84	-977.83	-1,718.85	941.34	831.32	110.02	8.556		
11,300.00	9,350.00	11,347.46	9,330.00	57.04	57.15	-88.84	-977.90	-1,818.85	941.34	827.61	113.73	8.277		
11,400.00	9,350.00	11,447.46	9,330.00	58.93	59.01	-88.84	-977.98	-1,918.85	941.33	823.83	117.50	8.011		
11,500.00	9,350.00	11,547.46	9,330.00	60.85	60.91	-88.84	-978.05	-2,018.85	941.33	820.00	121.33	7.758		
11,600.00	9,350.00	11,647.46	9,330.00	62.80	62.83	-88.84	-978.13	-2,118.85	941.32	816.11	125.21	7.518		
11,700.00	9,350.00	11,747.46	9,330.00	64.77	64.78	-88.84	-978.20	-2,218.85	941.32	812.17	129.14	7.289		
11,800.00	9,350.00	11,847.46	9,330.00	66.76	66.75	-88.84	-978.28	-2,318.85	941.31	808.19	133.12	7.071		
11,900.00	9,350.00	11,947.46	9,330.00	68.78	68.74	-88.84	-978.35	-2,418.85	941.31	804.17	137.13	6.864		
12,000.00	9,350.00	12,047.46	9,330.00	70.81	70.75	-88.84	-978.43	-2,518.85	941.30	800.12	141.18	6.667		
12,100.00	9,350.00	12,147.46	9,330.00	72.85	72.78	-88.84	-978.50	-2,618.85	941.29	796.03	145.27	6.480		
12,200.00	9,350.00	12,247.46	9,330.00	74.92	74.83	-88.84	-978.58	-2,718.85	941.29	791.90	149.39	6.301		
12,300.00	9,350.00	12,347.46	9,330.00	76.99	76.89	-88.84	-978.65	-2,818.85	941.28	787.75	153.53	6.131		
12,400.00	9,350.00	12,447.46	9,330.00	79.08	78.96	-88.84	-978.73	-2,918.85	941.28	783.58	157.70	5.969		
12,500.00	9,350.00	12,547.46	9,330.00	81.18	81.05	-88.84	-978.80	-3,018.85	941.27	779.38	161.90	5.814		
12,600.00	9,350.00	12,647.46	9,330.00	83.30	83.14	-88.84	-978.88	-3,118.85	941.27	775.15	166.11	5.666		
12,700.00	9,350.00	12,747.46	9,330.00	85.42	85.25	-88.84	-978.95	-3,218.85	941.26	770.91	170.35	5.525		
12,800.00	9,350.00	12,847.46	9,330.00	87.55	87.37	-88.84	-979.03	-3,318.85	941.26	766.65	174.61	5.391		
12,900.00	9,350.00	12,947.46	9,330.00	89.69	89.50	-88.84	-979.10	-3,418.85	941.25	762.37	178.88	5.262		
13,000.00	9,350.00	13,047.46	9,330.00	91.84	91.64	-88.84	-979.18	-3,518.85	941.25	758.07	183.18	5.138		
13,100.00	9,350.00	13,147.46	9,330.00	94.00	93.78	-88.84	-979.25	-3,618.85	941.24	753.76	187.48	5.020		
13,200.00	9,350.00	13,247.46	9,330.00	96.16	95.93	-88.84	-979.33	-3,718.85	941.23	749.43	191.80	4.907		
13,300.00	9,350.00	13,347.46	9,330.00	98.33	98.09	-88.84	-979.40	-3,818.85	941.23	745.09	196.14	4.799		
13,400.00	9,350.00	13,447.46	9,330.00	100.50	100.26	-88.84	-979.48	-3,918.85	941.22	740.74	200.49	4.695		
13,500.00	9,350.00	13,547.46	9,330.00	102.69	102.43	-88.84	-979.55	-4,018.85	941.22	736.37	204.84	4.595		
13,600.00	9,350.00	13,647.46	9,330.00	104.87	104.61	-88.84	-979.63	-4,118.85	941.21	732.00	209.21	4.499		
13,700.00	9,350.00	13,747.46	9,330.00	107.07	106.79	-88.84	-979.70	-4,218.85	941.21	727.61	213.60	4.406		
13,800.00	9,350.00	13,847.46	9,330.00	109.26	108.98	-88.84	-979.78	-4,318.85	941.20	723.22	217.99	4.318		
13,900.00	9,350.00	13,947.46	9,330.00	111.46	111.18	-88.84	-979.85	-4,418.85	941.20	718.81	222.38	4.232		
14,000.00	9,350.00	14,047.46	9,330.00	113.67	113.37	-88.84	-979.92	-4,518.85	941.19	714.40	226.79	4.150		
14,090.45	9,350.00	14,137.90	9,330.00	115.67	115.37	-88.84	-979.99	-4,609.30	941.18	710.40	230.79	4.078		

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Stebbins Federal 19 - No. 124H - OH - OH Surveys 98'-12354' PTB 12417'														Offset Site Error:
Survey Program: 98-GYRO-NS-CT 1243-MWD-HDGM														3.30 usft
Reference														Offset Well Error:
Offset														1.10 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	1.10	171.97		-2,168.00	306.00	2,189.50				
100.00	100.00	89.34	89.34	0.13	1.11	171.97		-2,168.08	305.99	2,189.57	2,188.33	1.23	1,774.652	
200.00	200.00	180.37	180.37	0.49	1.17	171.97		-2,168.42	305.91	2,189.93	2,188.27	1.66	1,318.496	
300.00	300.00	259.89	259.88	0.85	1.30	171.97		-2,169.23	305.89	2,190.94	2,188.80	2.14	1,021.931	
400.00	400.00	341.36	341.33	1.20	1.47	171.97		-2,170.78	308.34	2,192.90	2,190.23	2.67	819.874	
500.00	500.00	441.12	441.05	1.56	1.73	171.93		-2,173.09	308.11	2,195.44	2,192.15	3.29	667.903	
600.00	600.00	580.93	580.80	1.92	2.15	171.84		-2,174.78	311.89	2,197.07	2,193.01	4.05	542.023	
700.00	700.00	694.35	694.17	2.28	2.50	171.75		-2,174.35	315.25	2,197.08	2,192.32	4.77	460.742	
707.43	707.43	700.62	700.43	2.31	2.52	171.75		-2,174.32	315.44	2,197.08	2,192.27	4.82	456.262	
800.00	800.00	786.49	786.26	2.64	2.79	171.67		-2,174.16	318.28	2,197.34	2,191.92	5.43	404.863	
900.00	900.00	907.99	907.70	3.00	3.19	171.58		-2,173.50	321.90	2,197.26	2,191.07	6.19	355.093	
1,000.00	1,000.00	1,013.52	1,013.21	3.35	3.54	171.52		-2,172.21	323.80	2,196.31	2,189.41	6.90	318.511	
1,100.00	1,100.00	1,105.05	1,104.72	3.71	3.81	171.48		-2,171.33	325.24	2,195.58	2,188.06	7.52	291.904	
1,200.00	1,200.00	1,202.53	1,202.18	4.07	3.98	171.43		-2,170.57	327.13	2,195.11	2,187.06	8.05	272.691	
1,300.00	1,300.00	1,313.93	1,313.54	4.43	4.08	171.36		-2,169.56	329.70	2,194.56	2,186.05	8.51	257.961	
1,400.00	1,400.00	1,490.57	1,490.10	4.79	4.21	171.28		-2,164.80	331.90	2,192.24	2,183.25	8.99	243.854	
1,500.00	1,500.00	1,622.58	1,621.89	5.15	4.36	171.23		-2,157.44	332.93	2,186.78	2,177.29	9.49	230.328	
1,600.00	1,599.98	1,711.00	1,710.12	5.50	4.49	75.79		-2,151.80	334.23	2,180.32	2,170.35	9.98	218.564	
1,700.00	1,699.84	1,782.34	1,781.34	5.84	4.61	75.95		-2,147.85	335.63	2,173.99	2,163.55	10.44	208.181	
1,800.00	1,799.49	1,855.13	1,854.06	6.18	4.74	76.10		-2,145.15	337.42	2,168.64	2,157.71	10.93	198.497	
1,900.00	1,899.11	1,948.19	1,947.04	6.54	4.93	76.24		-2,142.45	339.77	2,164.03	2,152.57	11.46	188.855	
2,000.00	1,998.73	2,065.38	2,064.12	6.89	5.18	76.40		-2,138.51	343.13	2,159.04	2,146.98	12.06	178.993	
2,100.00	2,098.35	2,169.00	2,167.60	7.24	5.42	76.53		-2,134.33	346.51	2,153.45	2,140.79	12.66	170.120	
2,200.00	2,197.97	2,243.66	2,242.17	7.60	5.61	76.62		-2,131.64	349.07	2,148.36	2,135.15	13.20	162.727	
2,300.00	2,297.59	2,315.78	2,314.25	7.96	5.79	76.73		-2,130.15	350.88	2,144.62	2,130.87	13.75	156.026	
2,400.00	2,397.21	2,396.48	2,394.93	8.32	6.00	76.86		-2,129.48	352.70	2,142.07	2,127.75	14.31	149.638	
2,500.00	2,496.83	2,502.44	2,500.85	8.69	6.28	77.03		-2,128.80	355.28	2,139.78	2,124.82	14.96	143.027	
2,600.00	2,596.45	2,608.71	2,607.09	9.05	6.58	77.21		-2,127.69	357.60	2,137.07	2,121.45	15.62	136.825	
2,700.00	2,696.07	2,705.95	2,704.32	9.41	6.86	77.38		-2,126.69	359.41	2,134.36	2,118.10	16.26	131.255	
2,800.00	2,795.69	2,812.00	2,810.33	9.78	7.17	77.57		-2,125.61	361.44	2,131.69	2,114.75	16.94	125.866	
2,900.00	2,895.30	2,904.81	2,903.12	10.15	7.44	77.72		-2,124.46	363.35	2,128.84	2,111.26	17.58	121.098	
3,000.00	2,994.92	3,010.64	3,008.92	10.51	7.77	77.90		-2,123.45	365.64	2,126.30	2,108.03	18.27	116.401	
3,100.00	3,094.54	3,118.01	3,116.26	10.88	8.10	78.09		-2,121.91	367.75	2,123.28	2,104.32	18.97	111.955	
3,200.00	3,194.16	3,220.30	3,218.51	11.25	8.42	78.26		-2,120.24	369.84	2,120.09	2,100.44	19.65	107.869	
3,300.00	3,293.78	3,325.15	3,323.32	11.62	8.75	78.44		-2,118.24	372.20	2,116.66	2,096.30	20.36	103.985	
3,400.00	3,393.40	3,410.94	3,409.08	11.99	9.02	78.58		-2,116.68	373.92	2,113.35	2,092.35	21.00	100.646	
3,500.00	3,493.02	3,471.96	3,470.09	12.36	9.21	78.71		-2,116.54	374.34	2,111.46	2,089.91	21.55	97.961	
3,600.00	3,592.64	3,553.60	3,551.72	12.73	9.45	78.92		-2,117.70	373.78	2,111.08	2,088.92	22.16	95.251	
3,612.66	3,605.25	3,564.87	3,562.99	12.78	9.48	78.95		-2,117.89	373.66	2,111.08	2,088.83	22.24	94.910	
3,700.00	3,692.26	3,646.43	3,644.53	13.11	9.72	79.17		-2,119.48	372.60	2,111.22	2,088.41	22.81	92.571	
3,800.00	3,791.88	3,745.88	3,743.95	13.48	10.02	79.45		-2,121.58	371.09	2,111.57	2,088.10	23.47	89.953	
3,900.00	3,891.50	3,855.91	3,853.94	13.85	10.35	79.76		-2,123.66	369.13	2,111.74	2,087.56	24.18	87.335	
4,000.00	3,991.12	3,962.45	3,960.44	14.22	10.68	80.07		-2,125.22	366.93	2,111.51	2,086.63	24.88	84.872	
4,100.00	4,090.74	4,080.35	4,078.31	14.59	11.04	80.42		-2,126.15	364.37	2,110.64	2,085.02	25.62	82.385	
4,200.00	4,190.36	4,195.72	4,193.64	14.97	11.41	80.77		-2,126.33	361.46	2,109.22	2,082.86	26.36	80.028	
4,300.00	4,289.98	4,310.67	4,308.55	15.34	11.78	81.11		-2,125.44	358.56	2,106.89	2,079.79	27.10	77.755	
4,400.00	4,389.59	4,427.36	4,425.18	15.71	12.16	81.48		-2,123.77	355.16	2,103.97	2,076.13	27.85	75.559	
4,500.00	4,489.21	4,531.82	4,529.56	16.09	12.50	81.82		-2,121.75	351.57	2,100.59	2,072.03	28.56	73.550	
4,600.00	4,588.83	4,642.25	4,639.90	16.46	12.86	82.18		-2,119.15	347.80	2,096.84	2,067.55	29.30	71.576	
4,700.00	4,688.45	4,748.77	4,746.30	16.84	13.21	82.53		-2,116.14	343.85	2,092.69	2,062.67	30.02	69.708	
4,800.00	4,788.07	4,841.09	4,838.51	17.21	13.52	82.85		-2,113.44	340.30	2,088.53	2,057.82	30.71	68.017	
4,900.00	4,887.69	4,931.78	4,929.16	17.58	13.83	83.09		-2,111.28	339.15	2,085.02	2,053.63	31.39	66.426	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - No. 124H - OH - OH Surveys 98-12354' PTB 12417'													Offset Site Error:
Survey Program: 98-GYRO-NS-CT 1243-MWD-HDGM													3.30 usft
Reference													Offset Well Error:
Offset													1.10 usft
Semi-Major Axis													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,987.31	5,031.26	5,028.62	17.96	14.17	83.31	-2,108.92	339.76	2,081.62	2,049.52	32.10	64.845	
5,100.00	5,086.93	5,129.12	5,126.45	18.33	14.50	83.54	-2,106.70	340.04	2,078.35	2,045.54	32.81	63.345	
5,200.00	5,186.55	5,226.17	5,223.48	18.71	14.83	83.78	-2,104.57	339.68	2,075.17	2,041.65	33.52	61.915	
5,300.00	5,286.17	5,324.07	5,321.35	19.08	15.16	84.03	-2,102.57	339.07	2,072.18	2,037.96	34.23	60.544	
5,400.00	5,385.79	5,416.63	5,413.89	19.46	15.48	84.27	-2,100.79	338.50	2,069.36	2,034.44	34.92	59.261	
5,500.00	5,485.41	5,502.72	5,499.96	19.83	15.78	84.45	-2,099.58	339.37	2,067.10	2,031.51	35.59	58.079	
5,600.00	5,585.06	5,589.28	5,586.50	20.21	16.07	84.59	-2,098.98	341.25	2,065.59	2,029.33	36.26	56.965	
5,700.00	5,684.83	5,678.29	5,675.50	20.58	16.37	84.71	-2,098.85	342.37	2,064.82	2,027.89	36.93	55.912	
5,761.95	5,746.69	5,733.52	5,730.73	20.80	16.56	84.78	-2,099.00	342.83	2,064.69	2,027.35	37.34	55.294	
5,800.00	5,784.70	5,769.56	5,766.77	20.94	16.68	84.82	-2,099.18	343.07	2,064.72	2,027.12	37.60	54.916	
5,900.00	5,884.65	5,866.24	5,863.45	21.30	17.00	84.90	-2,099.80	343.26	2,065.06	2,026.79	38.27	53.954	
6,000.00	5,984.64	5,969.79	5,966.99	21.65	17.34	84.97	-2,100.47	342.52	2,065.59	2,026.62	38.97	53.005	
6,100.00	6,084.64	6,101.98	6,099.18	21.99	17.79	-179.46	-2,100.35	341.61	2,065.55	2,025.80	39.76	51.955	
6,200.00	6,184.64	6,205.31	6,202.48	22.33	18.14	-179.51	-2,099.15	343.44	2,064.38	2,023.93	40.45	51.033	
6,300.00	6,284.64	6,293.10	6,290.25	22.67	18.44	-179.56	-2,098.38	345.27	2,063.48	2,022.39	41.09	50.212	
6,400.00	6,384.64	6,393.16	6,390.29	23.01	18.79	-179.61	-2,097.81	347.01	2,062.89	2,021.11	41.78	49.375	
6,500.00	6,484.64	6,513.47	6,510.58	23.35	19.21	-179.65	-2,096.42	348.54	2,061.72	2,019.18	42.54	48.470	
6,600.00	6,584.64	6,621.25	6,618.34	23.69	19.58	-179.68	-2,094.47	349.48	2,059.90	2,016.65	43.25	47.627	
6,700.00	6,684.64	6,723.63	6,720.70	24.03	19.94	-179.68	-2,092.35	349.69	2,057.84	2,013.89	43.95	46.824	
6,800.00	6,784.64	6,814.22	6,811.27	24.37	20.25	-179.69	-2,090.57	349.84	2,055.88	2,011.27	44.61	46.087	
6,900.00	6,884.64	6,903.69	6,900.73	24.72	20.56	-179.70	-2,089.41	350.39	2,054.56	2,009.30	45.27	45.390	
7,000.00	6,984.64	7,000.74	6,997.78	25.06	20.90	-179.73	-2,088.42	351.27	2,053.54	2,007.59	45.95	44.693	
7,100.00	7,084.64	7,099.96	7,096.99	25.40	21.25	-179.75	-2,087.47	352.09	2,052.58	2,005.94	46.64	44.011	
7,200.00	7,184.64	7,561.34	7,538.79	25.75	22.84	-177.40	-2,045.98	269.57	2,045.19	1,997.16	48.03	42.580	
7,300.00	7,284.64	7,583.00	7,556.46	26.09	22.92	-177.05	-2,042.46	257.53	2,029.37	1,980.70	48.67	41.697	
7,400.00	7,384.64	7,612.21	7,579.78	26.44	23.03	-176.56	-2,038.55	240.40	2,017.33	1,968.05	49.28	40.939	
7,500.00	7,484.64	7,630.00	7,593.73	26.78	23.09	-176.24	-2,036.68	229.51	2,009.35	1,959.55	49.80	40.348	
7,600.00	7,584.64	7,662.04	7,618.36	27.13	23.22	-175.66	-2,034.14	209.18	2,005.31	1,955.00	50.32	39.855	
7,651.26	7,635.89	7,676.00	7,628.89	27.31	23.27	-175.40	-2,033.33	200.06	2,004.80	1,954.25	50.55	39.661 CC, ES	
7,700.00	7,684.64	7,700.81	7,647.38	27.47	23.38	-174.92	-2,032.09	183.56	2,005.18	1,954.37	50.81	39.462	
7,800.00	7,784.64	7,764.23	7,693.18	27.82	23.65	-173.67	-2,029.09	139.82	2,008.10	1,956.70	51.40	39.067	
7,900.00	7,884.64	7,954.79	7,806.56	28.17	24.74	-169.32	-2,010.04	-11.52	2,011.13	1,958.27	52.86	38.048	
8,000.00	7,984.64	7,985.02	7,821.62	28.51	24.95	-168.57	-2,005.83	-37.39	2,016.74	1,963.43	53.31	37.833	
8,100.00	8,084.64	8,004.00	7,830.69	28.86	25.09	-168.10	-2,003.29	-53.87	2,026.64	1,973.05	53.59	37.820	
8,200.00	8,184.64	8,021.49	7,838.67	29.21	25.23	-167.66	-2,001.10	-69.28	2,040.98	1,987.20	53.78	37.948	
8,300.00	8,284.64	8,033.73	7,843.97	29.56	25.32	-167.34	-1,999.72	-80.22	2,059.82	2,005.97	53.85	38.251	
8,400.00	8,384.64	8,051.00	7,851.07	29.90	25.46	-166.90	-1,997.97	-95.87	2,083.08	2,029.20	53.89	38.655	
8,500.00	8,484.64	8,051.00	7,851.07	30.25	25.46	-166.90	-1,997.97	-95.87	2,110.58	2,056.89	53.69	39.312	
8,600.00	8,584.64	8,051.00	7,851.07	30.60	25.46	-166.90	-1,997.97	-95.87	2,142.40	2,088.98	53.42	40.103	
8,700.00	8,684.64	8,075.12	7,860.11	30.95	25.67	-166.27	-1,995.85	-118.13	2,177.81	2,124.45	53.36	40.816	
8,800.00	8,784.64	8,098.00	7,867.67	31.30	25.86	-75.29	-1,994.15	-139.65	2,217.41	2,164.18	53.23	41.658	
8,900.00	8,884.01	8,098.00	7,867.67	31.61	25.86	-71.07	-1,994.15	-139.65	2,257.80	2,205.00	52.79	42.767	
9,000.00	8,980.13	8,098.00	7,867.67	31.90	25.86	-67.12	-1,994.15	-139.65	2,296.73	2,244.41	52.32	43.901	
9,100.00	9,070.07	8,128.72	7,876.45	32.17	26.14	-63.06	-1,992.15	-169.02	2,332.43	2,280.27	52.16	44.718	
9,200.00	9,151.12	8,144.00	7,880.27	32.43	26.28	-59.90	-1,991.22	-183.78	2,363.97	2,312.11	51.86	45.584	
9,300.00	9,220.80	8,168.10	7,885.49	32.71	26.52	-57.27	-1,989.93	-207.28	2,390.29	2,338.56	51.73	46.208	
9,400.00	9,276.99	8,191.00	7,889.44	33.03	26.75	-55.34	-1,988.97	-229.81	2,410.74	2,359.03	51.70	46.627	
9,500.00	9,318.00	8,191.00	7,889.44	33.43	26.75	-54.16	-1,988.97	-229.81	2,424.94	2,373.32	51.62	46.978	
9,600.00	9,342.56	8,238.00	7,894.19	33.93	27.23	-53.44	-1,987.96	-276.54	2,432.00	2,379.80	52.20	46.593	
9,700.00	9,350.00	8,238.00	7,894.19	34.51	27.23	-53.42	-1,987.96	-276.54	2,431.98	2,379.43	52.54	46.284	
9,800.00	9,350.00	8,306.82	7,896.34	35.21	27.99	-53.46	-1,987.57	-345.31	2,429.79	2,376.07	53.72	45.231	
9,900.00	9,350.00	8,386.47	7,896.19	36.05	28.95	-53.45	-1,987.13	-424.96	2,429.33	2,374.19	55.14	44.057	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - No. 124H - OH - OH Surveys 98-12354 PTB 12417													Offset Site Error:
Survey Program: 98-GYRO-NS-CT-1243-MWD-HDGM													3.30 usft
Reference Offset Semi Major Axis Distance													Offset Well Error:
Measured Vertical Measured Vertical Reference Offset Highside Offset Wellbore Centre Between Between Minimum Separation Warning													10 usft
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	
10,000.00	9,350.00	8,493.62	7,894.69	37.01	30.35	-53.40	-1,985.57	-532.09	2,428.94	2,371.92	57.02	42.600	
10,100.00	9,350.00	8,584.97	7,892.40	38.09	31.66	-53.32	-1,983.38	-623.39	2,428.45	2,369.56	58.89	41.236	
10,139.59	9,350.00	8,619.19	7,891.31	38.56	32.16	-53.29	-1,982.55	-657.58	2,428.41	2,368.75	59.66	40.707	
10,200.00	9,350.00	8,672.37	7,889.38	39.27	32.99	-53.23	-1,981.25	-710.70	2,428.50	2,367.64	60.86	39.903	
10,300.00	9,350.00	8,770.07	7,885.95	40.55	34.55	-53.14	-1,979.29	-808.32	2,428.92	2,365.83	63.09	38.496	
10,400.00	9,350.00	8,852.71	7,884.62	41.92	35.92	-53.11	-1,978.98	-890.95	2,429.56	2,364.27	65.28	37.216	
10,500.00	9,350.00	8,927.52	7,883.17	43.37	37.21	-53.09	-1,979.48	-965.75	2,431.19	2,363.73	67.46	36.039	
10,600.00	9,350.00	9,037.56	7,879.01	44.89	39.16	-53.01	-1,979.81	-1,075.71	2,433.69	2,363.47	70.23	34.655	
10,700.00	9,350.00	9,150.87	7,876.27	46.48	41.23	-52.95	-1,979.35	-1,188.98	2,434.71	2,361.55	73.16	33.280	
10,800.00	9,350.00	9,224.86	7,874.32	48.12	42.62	-52.92	-1,979.46	-1,262.95	2,436.36	2,360.80	75.57	32.241	
10,900.00	9,350.00	9,317.93	7,870.50	49.82	44.40	-52.85	-1,979.81	-1,355.93	2,439.06	2,360.74	78.32	31.141	
11,000.00	9,350.00	9,425.72	7,868.95	51.56	46.49	-52.85	-1,981.76	-1,463.69	2,441.30	2,359.86	81.44	29.977	
11,100.00	9,350.00	9,501.13	7,868.99	53.35	47.97	-52.88	-1,984.27	-1,539.06	2,443.90	2,359.80	84.10	29.059	
11,200.00	9,350.00	9,568.82	7,868.00	55.18	49.31	-52.90	-1,986.90	-1,606.69	2,447.80	2,361.15	86.65	28.249	
11,300.00	9,350.00	9,642.00	7,865.32	57.04	50.77	-52.89	-1,989.67	-1,679.76	2,452.95	2,363.65	89.30	27.468	
11,400.00	9,350.00	11,400.00	7,861.57	58.93	56.75	-52.90	-1,995.46	-1,846.82	2,456.85	2,336.55	120.30	20.422	
11,500.00	9,350.00	9,912.09	7,861.65	60.85	56.29	-52.94	-1,998.67	-1,949.64	2,459.22	2,362.15	97.06	25.336	
11,600.00	9,350.00	9,980.14	7,860.54	62.80	57.71	-52.95	-2,000.78	-2,017.64	2,462.62	2,362.85	99.77	24.683	
11,700.00	9,350.00	10,049.72	7,858.16	64.77	59.16	-52.94	-2,003.16	-2,087.14	2,467.34	2,364.84	102.50	24.071	
11,800.00	9,350.00	10,122.27	7,854.41	66.76	60.68	-52.91	-2,005.70	-2,159.55	2,473.18	2,367.91	105.27	23.493	
11,900.00	9,350.00	10,191.57	7,849.63	68.78	62.14	-52.85	-2,008.23	-2,228.64	2,480.20	2,372.24	107.96	22.972	
12,000.00	9,350.00	10,394.66	7,838.16	70.81	66.45	-52.71	-2,013.37	-2,431.31	2,485.38	2,372.19	113.19	21.958	
12,100.00	9,350.00	10,451.69	7,835.11	72.85	67.68	-52.67	-2,014.28	-2,488.25	2,489.78	2,374.06	115.72	21.515	
12,200.00	9,350.00	10,621.58	7,824.37	74.92	71.34	-52.49	-2,015.56	-2,657.79	2,494.56	2,374.29	120.27	20.742	
12,300.00	9,350.00	10,723.45	7,819.16	76.99	73.55	-52.37	-2,014.09	-2,759.51	2,496.47	2,372.87	123.60	20.198	
12,400.00	9,350.00	10,839.00	7,811.62	79.08	76.07	-52.20	-2,011.99	-2,874.79	2,499.04	2,371.90	127.13	19.657	
12,500.00	9,350.00	10,942.48	7,806.21	81.18	78.34	-52.07	-2,009.83	-2,978.11	2,500.53	2,370.04	130.49	19.162	
12,600.00	9,350.00	11,026.15	7,801.37	83.30	80.18	-51.96	-2,008.14	-3,061.62	2,502.44	2,368.93	133.51	18.743	
12,700.00	9,350.00	11,179.74	7,796.40	85.42	83.56	-51.84	-2,006.22	-3,215.09	2,503.27	2,365.44	137.83	18.162	
12,800.00	9,350.00	11,262.08	7,794.58	87.55	85.38	-51.80	-2,005.31	-3,297.40	2,503.70	2,362.76	140.94	17.764	
12,900.00	9,350.00	11,339.27	7,791.98	89.69	87.09	-51.74	-2,004.56	-3,374.54	2,504.97	2,361.02	143.94	17.402	
13,000.00	9,350.00	11,412.08	7,788.35	91.84	88.70	-51.66	-2,003.85	-3,447.26	2,507.24	2,360.42	146.82	17.077	
13,100.00	9,350.00	11,556.19	7,782.55	94.00	91.90	-51.55	-2,003.30	-3,591.23	2,509.46	2,358.46	151.01	16.618	
13,200.00	9,350.00	11,667.59	7,781.62	96.16	94.38	-51.53	-2,003.34	-3,702.63	2,509.91	2,355.17	154.73	16.221	
13,300.00	9,350.00	11,743.01	7,780.61	98.33	96.06	-51.51	-2,003.57	-3,778.04	2,510.94	2,353.15	157.79	15.913	
13,400.00	9,350.00	11,987.74	7,779.00	100.50	101.54	-51.45	-2,001.39	-4,022.71	2,511.95	2,348.17	163.77	15.338	
13,500.00	9,350.00	12,073.00	7,780.62	102.69	103.45	-51.44	-1,998.41	-4,107.89	2,507.99	2,340.91	167.08	15.011	
13,600.00	9,350.00	12,152.29	7,781.22	104.87	105.23	-51.41	-1,995.65	-4,187.13	2,504.74	2,334.49	170.25	14.712	
13,700.00	9,350.00	12,217.99	7,780.74	107.07	106.71	-51.37	-1,993.52	-4,252.80	2,502.63	2,329.46	173.17	14.452	
13,800.00	9,350.00	12,287.43	7,779.29	109.26	108.27	-51.32	-1,991.83	-4,322.20	2,501.93	2,325.83	176.10	14.208	
13,822.80	9,350.00	12,306.03	7,778.75	109.77	108.69	-51.30	-1,991.39	-4,340.78	2,501.91	2,325.10	176.81	14.151	
13,900.00	9,350.00	12,372.34	7,776.40	111.46	110.19	-51.24	-1,989.79	-4,407.03	2,502.12	2,322.88	179.24	13.960	
14,000.00	9,350.00	12,417.00	7,774.68	113.67	111.19	-51.19	-1,988.70	-4,451.65	2,503.17	2,321.52	181.65	13.780	
14,090.45	9,350.00	12,417.00	7,774.68	115.67	111.19	-51.19	-1,988.70	-4,451.65	2,507.20	2,324.24	182.96	13.703 SF	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Pat 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Pat 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH													Offset Site Error:
Survey Program: 98-GYRO-NS-CT-1250-MWD-HDGM													Offset Well Error:
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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.30	0.00	180.00	-31.00	0.00	31.02				
100.00	100.00	99.03	99.03	3.30	0.12	179.77	-30.96	0.12	30.96	27.53	3.43	9.038	
157.08	157.08	156.08	156.08	3.32	0.33	179.52	-30.93	0.26	30.93	27.29	3.64	8.496	
200.00	200.00	198.99	198.99	3.34	0.48	179.34	-30.94	0.36	30.95	27.14	3.81	8.123	
300.00	300.00	299.13	299.13	3.41	0.83	179.00	-30.81	0.54	30.82	26.59	4.23	7.284	
400.00	400.00	399.51	399.50	3.51	1.18	178.64	-29.69	0.71	29.71	25.02	4.69	6.337	
500.00	500.00	499.62	499.59	3.65	1.53	177.97	-27.71	0.98	27.73	22.56	5.18	5.358	
600.00	600.00	599.53	599.48	3.82	1.89	177.68	-25.61	1.04	25.63	19.94	5.69	4.502	
700.00	700.00	699.22	699.16	4.01	2.24	176.68	-24.23	1.40	24.27	18.04	6.24	3.893	
739.25	739.25	738.31	738.25	4.09	2.37	176.00	-24.08	1.68	24.14	17.69	6.45	3.741 CC	
800.00	800.00	798.87	798.80	4.22	2.58	174.62	-24.30	2.29	24.41	17.61	6.80	3.591 ES	
900.00	900.00	898.78	898.70	4.46	2.93	171.48	-25.34	3.79	25.62	18.25	7.38	3.473	
1,000.00	1,000.00	998.89	998.79	4.71	3.28	168.86	-26.07	5.13	26.57	18.60	7.98	3.332	
1,100.00	1,100.00	1,098.90	1,098.80	4.97	3.63	167.63	-26.66	5.85	27.29	18.71	8.59	3.179	
1,200.00	1,200.00	1,198.76	1,198.65	5.24	3.85	167.42	-27.56	6.15	28.24	19.17	9.07	3.112 SF	
1,300.00	1,300.00	1,298.61	1,298.50	5.52	3.96	168.04	-29.09	6.16	29.74	20.27	9.47	3.141	
1,400.00	1,400.00	1,398.19	1,398.05	5.82	4.01	168.55	-31.21	6.32	31.85	22.05	9.81	3.248	
1,500.00	1,500.00	1,497.37	1,497.14	6.11	4.10	166.20	-34.84	8.56	35.93	25.74	10.18	3.529	
1,600.00	1,599.98	1,596.47	1,596.00	6.41	4.21	168.84	-40.10	12.81	41.55	30.97	10.58	3.927	
1,700.00	1,699.84	1,695.71	1,694.88	6.71	4.35	170.86	-46.80	17.88	47.57	36.57	11.00	4.323	
1,800.00	1,799.49	1,794.61	1,793.30	7.01	4.52	174.78	-54.59	23.86	54.07	42.61	11.46	4.718	
1,900.00	1,899.11	1,893.29	1,891.30	7.32	4.72	177.64	-63.89	30.69	62.32	50.38	11.95	5.217	
2,000.00	1,998.73	1,994.04	1,991.36	7.64	4.95	180.21	-73.54	37.26	70.83	58.33	12.50	5.668	
2,100.00	2,098.35	2,093.34	2,090.16	7.96	5.19	183.35	-82.29	42.15	78.63	65.58	13.05	6.027	
2,200.00	2,197.97	2,191.98	2,188.22	8.29	5.45	186.10	-91.90	46.66	87.56	73.95	13.61	6.433	
2,300.00	2,297.59	2,293.40	2,289.07	8.62	5.73	187.87	-101.14	52.24	95.97	81.74	14.23	6.746	
2,400.00	2,397.21	2,393.58	2,388.69	8.95	6.01	188.63	-109.13	59.12	103.20	88.36	14.84	6.954	
2,500.00	2,496.83	2,492.89	2,487.32	9.29	6.31	188.51	-117.22	67.41	110.51	95.05	15.46	7.148	
2,600.00	2,596.45	2,591.87	2,585.46	9.63	6.62	187.75	-125.78	77.00	118.24	102.16	16.09	7.349	
2,700.00	2,696.07	2,690.06	2,682.89	9.98	6.94	187.82	-135.14	84.84	126.96	110.24	16.72	7.593	
2,800.00	2,795.69	2,787.78	2,779.78	10.32	7.26	188.14	-145.59	91.96	136.88	119.53	17.36	7.885	
2,900.00	2,895.30	2,887.68	2,878.67	10.67	7.60	188.17	-157.38	99.78	147.88	129.85	18.03	8.202	
3,000.00	2,994.92	2,988.89	2,979.12	11.02	7.95	188.65	-167.71	106.59	157.36	138.63	18.72	8.404	
3,100.00	3,094.54	3,088.12	3,077.68	11.37	8.29	189.32	-177.60	112.56	166.67	147.27	19.40	8.591	
3,200.00	3,194.16	3,187.67	3,176.52	11.73	8.64	189.83	-187.72	118.80	176.17	156.09	20.09	8.771	
3,300.00	3,293.78	3,295.71	3,284.01	12.08	9.01	190.68	-196.63	124.68	183.91	163.07	20.84	8.824	
3,400.00	3,393.40	3,397.87	3,386.00	12.44	9.35	192.08	-201.08	128.52	187.99	166.45	21.54	8.726	
3,500.00	3,493.02	3,497.14	3,485.13	12.80	9.68	193.46	-205.11	132.06	191.93	169.69	22.24	8.631	
3,600.00	3,592.64	3,597.29	3,585.12	13.15	10.01	194.76	-209.34	135.73	196.10	173.17	22.94	8.550	
3,700.00	3,692.26	3,698.43	3,686.08	13.51	10.35	195.69	-212.91	140.71	199.44	175.80	23.64	8.436	
3,800.00	3,791.88	3,791.90	3,778.97	13.88	10.69	195.33	-218.81	149.10	204.74	180.42	24.31	8.421	
3,900.00	3,891.50	3,891.03	3,877.16	14.24	11.05	194.36	-227.02	159.89	211.66	186.64	25.02	8.459	
4,000.00	3,991.12	3,992.13	3,977.35	14.60	11.43	193.48	-235.09	170.74	218.37	192.62	25.75	8.481	
4,100.00	4,090.74	4,093.18	4,077.57	14.96	11.80	192.75	-242.45	181.36	224.46	197.98	26.48	8.478	
4,200.00	4,190.36	4,193.91	4,177.52	15.33	12.18	192.11	-249.30	191.79	230.13	202.93	27.20	8.460	
4,300.00	4,289.98	4,295.08	4,277.95	15.69	12.55	191.52	-255.72	202.22	235.38	207.45	27.93	8.427	
4,400.00	4,389.59	4,396.19	4,378.39	16.06	12.92	191.06	-261.46	212.31	240.03	211.37	28.66	8.375	
4,500.00	4,489.21	4,492.17	4,473.73	16.42	13.28	190.67	-267.13	221.77	244.94	215.58	29.36	8.342	
4,600.00	4,588.83	4,588.16	4,568.92	16.79	13.64	190.17	-274.80	231.51	251.90	221.84	30.06	8.380	
4,700.00	4,688.45	4,688.28	4,668.09	17.16	14.03	189.58	-283.52	242.07	259.56	228.77	30.79	8.429	
4,800.00	4,788.07	4,789.60	4,768.56	17.52	14.42	189.11	-291.74	252.36	266.68	235.15	31.54	8.456	
4,900.00	4,887.69	4,890.74	4,868.91	17.89	14.80	188.72	-299.36	262.40	273.26	240.98	32.28	8.465	

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH												Offset Site Error
Survey Program: 98-GYRO-NS-CT-1250-MWD-HDGM												Offset Well Error
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,000.00	4,987.31	4,991.77	4,969.21	18.26	15.19	88.40	-306.49	272.24	279.38	246.36	33.02	8.460
5,100.00	5,086.93	5,092.46	5,069.26	18.63	15.57	88.21	-313.04	281.50	285.00	251.24	33.76	8.442
5,200.00	5,186.55	5,186.72	5,162.98	19.00	15.92	88.34	-320.01	288.60	291.62	257.16	34.45	8.464
5,300.00	5,286.17	5,284.75	5,260.45	19.37	16.29	88.66	-328.47	294.91	299.54	264.36	35.18	8.515
5,400.00	5,385.79	5,387.45	5,362.62	19.74	16.68	89.09	-336.90	300.95	307.10	271.17	35.94	8.546
5,500.00	5,485.41	5,489.27	5,464.03	20.11	17.05	89.65	-344.34	306.17	313.85	277.16	36.69	8.555
5,600.00	5,585.06	5,591.00	5,565.43	20.47	17.42	90.28	-351.14	310.77	320.07	282.64	37.43	8.550
5,700.00	5,684.83	5,693.02	5,667.19	20.84	17.79	90.70	-357.15	314.95	325.56	287.39	38.17	8.529
5,800.00	5,784.70	5,799.71	5,773.67	21.20	18.17	90.83	-362.34	319.18	330.04	291.12	38.92	8.481
5,900.00	5,884.65	5,909.65	5,883.42	21.55	18.56	90.43	-364.65	324.91	331.60	291.96	39.64	8.366
6,000.00	5,984.64	6,005.09	5,978.66	21.90	18.89	89.61	-365.73	331.07	332.12	291.80	40.32	8.238
6,100.00	6,084.64	6,100.03	6,073.24	22.23	19.23	-176.20	-368.55	338.86	334.45	293.47	40.98	8.162
6,200.00	6,184.64	6,191.16	6,163.88	22.57	19.58	-177.65	-372.99	347.14	338.85	297.25	41.61	8.144
6,300.00	6,284.64	6,274.91	6,247.02	22.91	19.90	-178.88	-379.92	354.26	346.92	304.77	42.15	8.231
6,400.00	6,384.64	6,364.39	6,335.66	23.24	20.24	-179.73	-390.96	359.33	359.19	316.48	42.71	8.410
6,500.00	6,484.64	6,469.64	6,440.01	23.58	20.64	-179.90	-404.67	360.36	372.23	328.77	43.46	8.565
6,600.00	6,584.64	6,573.42	6,543.15	23.92	21.02	179.93	-416.10	361.46	383.24	339.05	44.19	8.673
6,700.00	6,684.64	6,673.76	6,642.93	24.26	21.39	179.71	-426.56	363.00	393.68	348.80	44.88	8.773
6,800.00	6,784.64	6,775.41	6,744.05	24.60	21.76	179.51	-436.88	364.45	403.84	358.26	45.58	8.860
6,900.00	6,884.64	6,883.99	6,852.20	24.94	22.14	179.73	-446.19	362.92	412.39	366.07	46.33	8.902
7,000.00	6,984.64	6,991.67	6,959.57	25.28	22.49	-179.83	-453.71	359.77	419.40	372.35	47.05	8.914
7,100.00	7,084.64	7,110.16	7,077.80	25.62	22.86	-178.96	-457.99	353.31	423.10	375.32	47.78	8.855
7,200.00	7,184.64	7,212.20	7,179.68	25.96	23.16	-178.20	-458.50	347.72	423.73	375.29	48.44	8.747
7,300.00	7,284.64	7,304.59	7,271.90	26.30	23.44	-177.47	-459.90	342.24	425.48	376.39	49.09	8.667
7,400.00	7,384.64	7,395.33	7,361.34	26.64	23.69	-175.62	-462.77	328.22	429.60	379.89	49.71	8.642
7,500.00	7,484.64	7,480.86	7,441.05	26.99	23.89	-171.62	-464.86	297.64	436.58	386.34	50.24	8.690
7,600.00	7,584.64	7,556.24	7,506.82	27.33	24.04	-166.96	-466.95	260.95	450.00	399.51	50.48	8.914
7,700.00	7,684.64	7,634.77	7,571.17	27.67	24.17	-161.50	-468.34	216.01	470.59	420.06	50.52	9.314
7,800.00	7,784.64	7,706.99	7,627.53	28.02	24.29	-156.30	-468.08	170.87	498.08	447.84	50.24	9.914
7,900.00	7,884.64	7,765.99	7,671.89	28.36	24.38	-152.12	-467.88	131.98	533.55	484.05	49.49	10.780
8,000.00	7,984.64	7,808.72	7,702.28	28.70	24.46	-149.11	-467.93	101.95	577.67	529.47	48.20	11.986
8,100.00	8,084.64	7,843.97	7,725.50	29.05	24.52	-146.62	-468.38	75.44	630.58	583.92	46.65	13.516
8,200.00	8,184.64	7,878.16	7,746.69	29.39	24.59	-144.27	-469.31	48.63	690.75	645.57	45.18	15.289
8,300.00	8,284.64	7,922.00	7,772.73	29.74	24.69	-141.43	-470.95	13.40	756.24	712.09	44.15	17.128
8,400.00	8,384.64	7,961.91	7,795.62	30.09	24.82	-139.00	-472.51	-19.26	825.69	782.49	43.21	19.110
8,500.00	8,484.64	7,990.17	7,811.08	30.43	24.93	-137.35	-473.44	-42.89	898.72	856.58	42.14	21.326
8,600.00	8,584.64	8,016.00	7,824.21	30.78	25.05	-135.85	-473.98	-65.12	975.20	934.00	41.19	23.673
8,700.00	8,684.64	8,031.54	7,831.61	31.12	25.13	-134.96	-474.18	-78.78	1,054.63	1,014.43	40.19	26.239
8,800.00	8,784.64	8,047.52	7,838.79	31.47	25.22	-43.24	-474.31	-93.06	1,136.60	1,097.22	39.38	28.864
8,900.00	8,884.01	8,062.00	7,844.91	31.79	25.30	-34.31	-474.36	-106.18	1,216.40	1,177.84	38.56	31.546
9,000.00	8,980.13	8,080.40	7,852.12	32.07	25.42	-28.24	-474.51	-123.11	1,289.58	1,251.79	37.79	34.126
9,100.00	9,070.07	8,109.00	7,861.98	32.34	25.60	-24.01	-475.22	-149.94	1,355.00	1,317.81	37.19	36.437
9,200.00	9,151.12	8,109.00	7,861.98	32.60	25.60	-21.39	-475.22	-149.94	1,411.16	1,374.96	36.20	38.979
9,300.00	9,220.80	8,156.00	7,875.28	32.88	25.95	-19.31	-476.99	-194.98	1,456.80	1,420.84	35.96	40.514
9,400.00	9,276.99	8,180.69	7,881.00	33.20	26.15	-18.05	-477.96	-218.98	1,491.41	1,455.89	35.52	41.986
9,500.00	9,318.00	8,203.00	7,885.37	33.59	26.33	-17.30	-478.79	-240.83	1,514.46	1,479.24	35.23	42.989
9,600.00	9,342.56	8,249.00	7,891.85	34.09	26.74	-16.94	-479.62	-286.35	1,525.35	1,490.03	35.32	43.188
9,700.00	9,350.00	8,283.95	7,894.85	34.67	27.09	-16.98	-479.55	-321.17	1,523.84	1,488.33	35.51	42.914
9,800.00	9,350.00	8,343.00	7,897.18	35.37	27.67	-16.99	-479.13	-380.17	1,519.28	1,483.31	35.97	42.239
9,891.84	9,350.00	8,373.97	7,897.31	36.13	28.01	-16.98	-478.86	-411.13	1,517.85	1,481.42	36.43	41.668
9,900.00	9,350.00	8,378.91	7,897.29	36.20	28.07	-16.98	-478.83	-416.08	1,517.86	1,481.38	36.48	41.610
10,000.00	9,350.00	8,436.00	7,896.37	37.16	28.71	-16.96	-478.64	-473.16	1,519.37	1,482.19	37.17	40.874

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH														Offset Site Error: 0.00 usft	
Survey Program: 98-GYRO-NS-CT 1250-MWD-HDGM														Offset Well Error: 0.00 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 Footage (')	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,100.00	9,350.00	8,514.06	7,893.57	38.23	29.68	-16.94	-479.04	-551.17	1,522.96	1,484.96	38.01	40.070			
10,200.00	9,350.00	8,652.86	7,889.45	39.41	31.57	-16.95	-480.73	-689.89	1,526.13	1,487.06	39.07	39.062			
10,300.00	9,350.00	8,741.14	7,887.88	40.69	32.87	-16.98	-482.09	-778.14	1,528.27	1,488.17	40.10	38.110			
10,400.00	9,350.00	8,814.38	7,885.69	42.05	34.01	-17.02	-483.90	-851.33	1,531.84	1,490.67	41.17	37.211			
10,500.00	9,350.00	8,891.97	7,882.28	43.50	35.26	-17.07	-486.51	-928.79	1,536.99	1,494.68	42.32	36.319			
10,600.00	9,350.00	9,076.37	7,878.47	45.01	38.40	-17.13	-489.55	-1,113.09	1,538.84	1,494.96	43.88	35.068			
10,700.00	9,350.00	9,155.32	7,877.76	46.59	39.82	-17.13	-489.76	-1,192.04	1,539.79	1,494.68	45.11	34.134			
10,800.00	9,350.00	9,229.78	7,875.97	48.23	41.17	-17.14	-490.59	-1,266.46	1,542.38	1,496.01	46.38	33.258			
10,900.00	9,350.00	9,388.39	7,871.82	49.93	44.14	-17.11	-491.29	-1,424.99	1,545.63	1,497.64	48.00	32.202			
10,900.33	9,350.00	10,900.33	7,872.63	49.93	72.63	-17.14	-491.79	-1,381.71	1,545.47	1,485.84	59.63	25.916			
11,000.00	9,350.00	9,468.54	7,870.61	51.67	45.69	-17.04	-489.52	-1,505.11	1,546.31	1,497.01	49.30	31.365			
11,100.00	9,350.00	9,547.24	7,868.85	53.45	47.23	-16.97	-488.13	-1,583.78	1,547.91	1,497.27	50.63	30.572			
11,200.00	9,350.00	9,724.67	7,869.91	55.27	50.76	-16.85	-484.58	-1,761.14	1,545.98	1,493.58	52.40	29.503			
11,300.00	9,350.00	9,806.89	7,871.52	57.13	52.42	-16.83	-483.60	-1,843.33	1,543.76	1,489.91	53.85	28.669			
11,378.16	9,350.00	9,860.92	7,872.03	58.61	53.53	-16.83	-483.53	-1,897.36	1,543.05	1,488.08	54.96	28.073			
11,400.00	9,350.00	9,873.84	7,871.99	59.02	53.79	-16.83	-483.55	-1,910.28	1,543.11	1,487.84	55.27	27.921			
11,500.00	9,350.00	9,931.00	7,870.93	60.94	54.96	-16.82	-483.76	-1,967.43	1,545.01	1,488.36	56.66	27.269			
11,600.00	9,350.00	10,005.86	7,867.80	62.89	56.51	-16.79	-483.94	-2,042.21	1,549.09	1,490.97	58.13	26.650			
11,700.00	9,350.00	10,129.64	7,861.64	64.85	59.09	-16.70	-483.13	-2,165.84	1,553.73	1,493.96	59.77	25.995			
11,800.00	9,350.00	10,204.59	7,858.01	66.84	60.66	-16.64	-482.70	-2,240.70	1,558.13	1,496.89	61.24	25.443			
11,900.00	9,350.00	10,286.94	7,853.25	68.86	62.40	-16.60	-482.96	-2,322.91	1,563.74	1,500.97	62.77	24.912			
12,000.00	9,350.00	10,357.90	7,848.49	70.88	63.90	-16.59	-484.32	-2,393.69	1,570.73	1,506.44	64.29	24.431			
12,100.00	9,350.00	12,100.00	7,840.47	72.93	100.95	-16.64	-488.09	-2,508.65	1,578.32	1,497.90	80.42	19.625			
12,200.00	9,350.00	10,645.87	7,831.60	74.99	70.05	-16.46	-485.72	-2,681.02	1,582.69	1,514.68	68.01	23.273			
12,300.00	9,350.00	10,773.80	7,829.76	77.06	72.82	-16.40	-484.80	-2,808.93	1,583.74	1,513.93	69.81	22.686			
12,400.00	9,350.00	10,860.21	7,828.88	79.15	74.69	-16.40	-485.15	-2,895.34	1,584.81	1,513.32	71.49	22.169			
12,500.00	9,350.00	10,940.76	7,827.39	81.25	76.45	-16.42	-486.16	-2,975.86	1,586.92	1,513.75	73.17	21.689			
12,600.00	9,350.00	11,020.70	7,825.08	83.36	78.19	-16.46	-487.88	-3,055.75	1,590.28	1,515.40	74.87	21.240			
12,700.00	9,350.00	11,103.45	7,821.83	85.48	80.00	-16.50	-490.30	-3,138.41	1,594.84	1,518.22	76.62	20.815			
12,800.00	9,350.00	11,186.54	7,817.79	87.61	81.82	-16.55	-492.98	-3,221.35	1,600.41	1,522.03	78.38	20.419			
12,900.00	9,350.00	11,266.64	7,813.09	89.75	83.57	-16.61	-496.07	-3,301.25	1,607.11	1,526.97	80.14	20.055			
13,000.00	9,350.00	11,343.89	7,807.18	91.90	85.27	-16.61	-497.98	-3,378.25	1,615.13	1,533.34	81.79	19.748			
13,100.00	9,350.00	11,417.75	7,800.08	94.05	86.89	-16.57	-498.80	-3,451.77	1,624.64	1,541.32	83.32	19.498			
13,200.00	9,350.00	11,560.97	7,786.06	96.22	90.04	-16.40	-498.15	-3,594.28	1,633.99	1,548.83	85.17	19.186			
13,300.00	9,350.00	11,734.55	7,775.36	98.38	93.89	-16.17	-494.49	-3,767.48	1,639.24	1,552.19	87.05	18.831			
13,400.00	9,350.00	11,846.08	7,771.56	100.56	96.38	-16.02	-491.23	-3,878.90	1,641.64	1,552.97	88.67	18.514			
13,500.00	9,350.00	11,932.21	7,768.47	102.74	98.30	-15.93	-489.49	-3,964.95	1,644.52	1,554.27	90.25	18.222			
13,600.00	9,350.00	12,014.83	7,765.15	104.93	100.14	-15.88	-489.20	-4,047.51	1,648.27	1,556.38	91.89	17.938			
13,700.00	9,350.00	12,091.37	7,761.34	107.12	101.85	-15.87	-490.05	-4,123.95	1,653.34	1,559.80	93.54	17.675			
13,800.00	9,350.00	12,176.61	7,756.53	109.31	103.75	-15.92	-492.86	-4,209.00	1,659.64	1,564.28	95.35	17.405			
13,900.00	9,350.00	12,268.23	7,751.50	111.51	105.79	-16.04	-498.09	-4,300.33	1,666.47	1,569.10	97.37	17.114			
14,000.00	9,350.00	12,358.81	7,746.48	113.72	107.80	-16.23	-505.19	-4,390.49	1,673.96	1,574.44	99.52	16.820			
14,090.45	9,350.00	12,448.80	7,741.45	115.72	109.80	-16.42	-512.71	-4,480.03	1,680.92	1,579.31	101.61	16.543			

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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

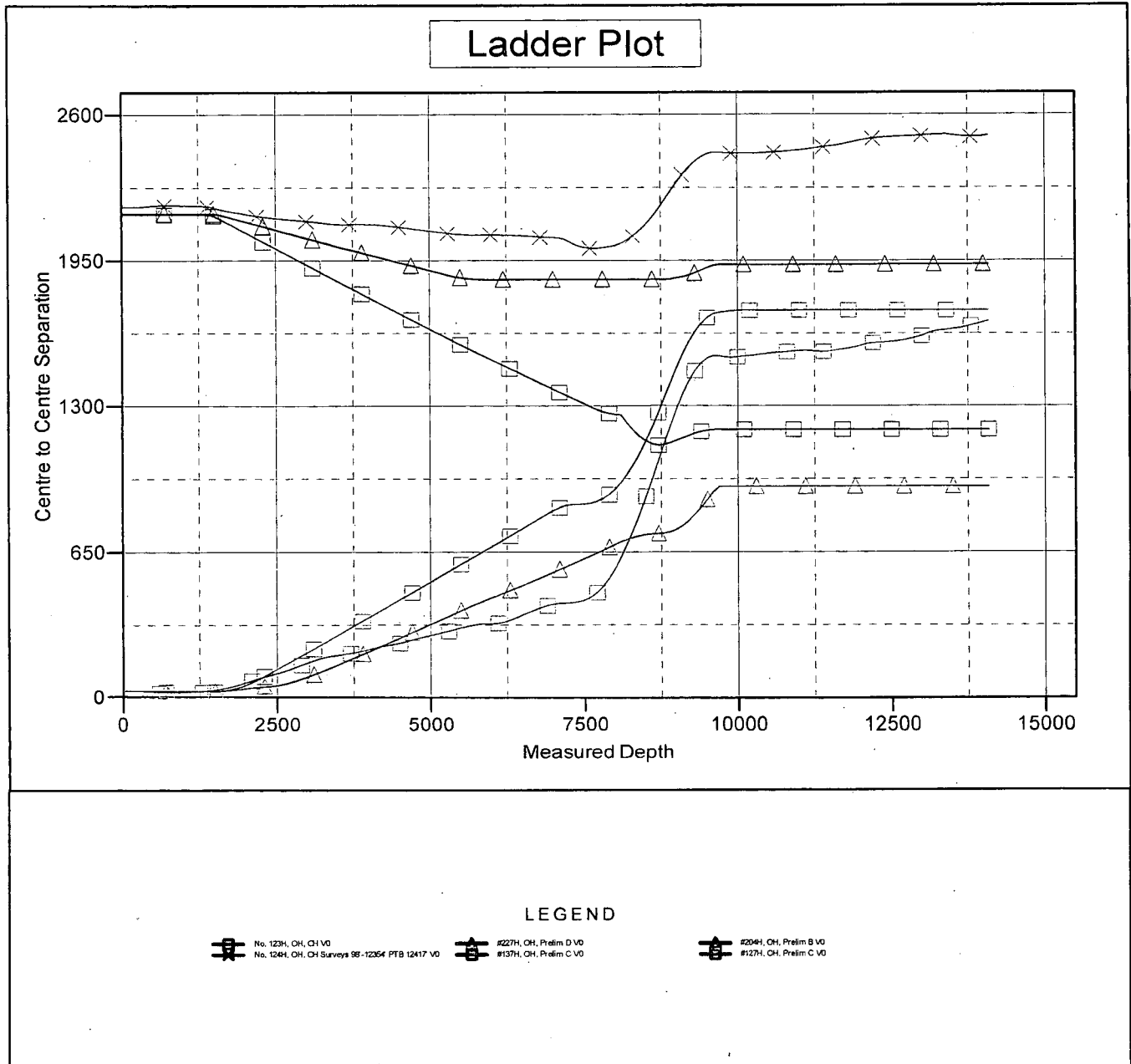
Reference Depths are relative to 3248 + 28.5 = KB @ 3276.50usft (Pat Coordinates are relative to: #203H)

Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.12°



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 #203H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#203H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3248 + 28.5 = KB @ 3276.50usft (Pat Coordinates are relative to: #203H)

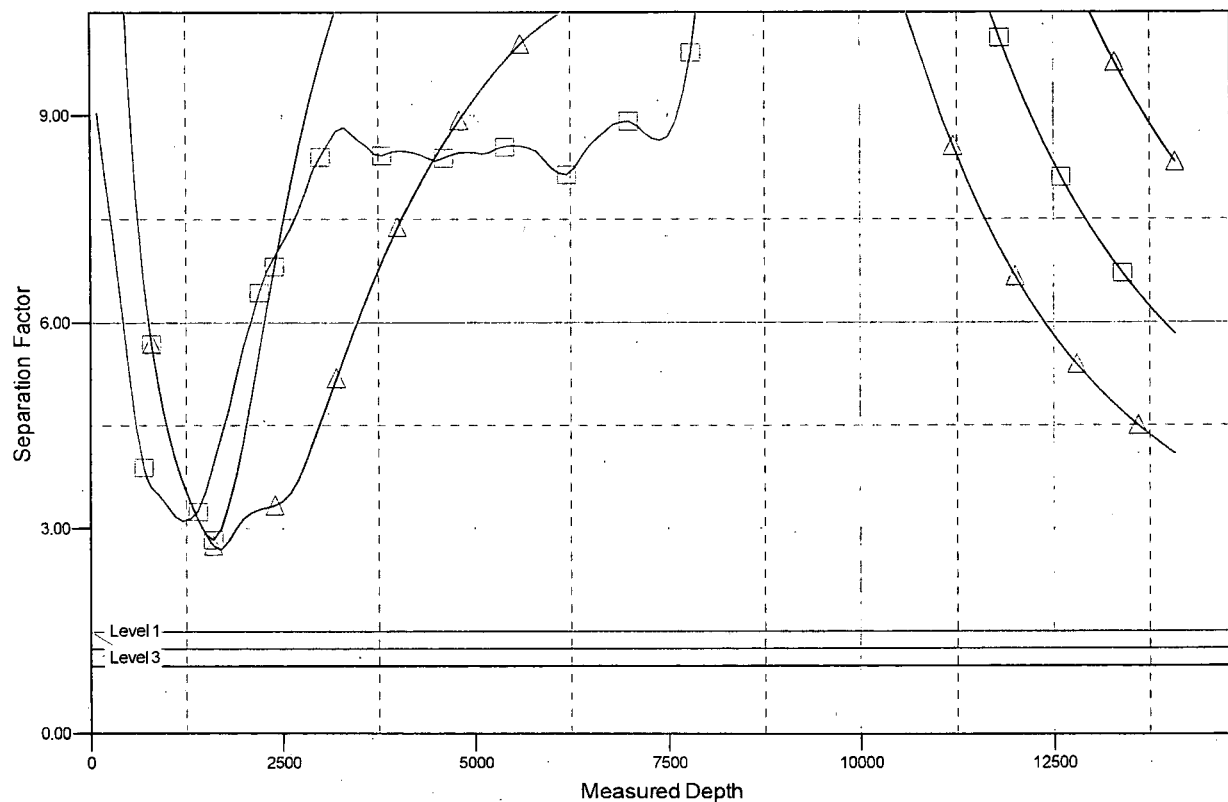
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

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. 123H, OH, OH VO
- #227H, OH, Prelim D VO
- #204H, OH, Prelim B VO
- No. 124H, OH, OH Surveys 98-12354 PTB 12417 VO
- #137H, OH, Prelim C VO
- #127H, OH, Prelim C VO

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

Matador Resources

Eddy County, NM (NAD27)

Stebbins Federal 19

#203H

OH

Plan: Prelim C

Standard Planning Report

13 March, 2019

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #203H
Company:	Matador Resources	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim C		

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

Site:	Stebbins Federal 19					
Site Position:		Northings:	564,789.00 usft	Latitude:	32.552507	
From:	Map		Easting:	570,139.00 usft	Longitude:	-104.105700
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °	

Well:	#203H					
Well Position	+N-S	2,018.00 usft	Northings:	566,807.00 usft	Latitude:	32.558056
	+E-W	-285.00 usft	Easting:	569,854.00 usft	Longitude:	-104.106611
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,248.00 usft	

Wellbore:	OH
-----------	----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/30/2019	7.23	60.32	47,996.90

Design:	Prelim C
---------	----------

Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	269.95

Plan Survey Tool Program		Date 3/13/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,090.45	Prelim C (OH)	MWD+HDGM
				OWSG MWD + HRGM

Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth (usft)	(°)	(°)	Depth (usft)	(usft)	(usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,750.06	5.00	95.54	1,749.74	-1.05	10.86	2.00	2.00	0.00	95.54	
5,535.25	5.00	95.54	5,520.52	-32.90	339.29	0.00	0.00	0.00	0.00	
6,035.36	0.00	0.00	6,020.00	-35.00	361.00	1.00	-1.00	0.00	180.00	
8,792.40	0.00	0.00	8,777.04	-35.00	361.00	0.00	0.00	0.00	0.00	
9,692.40	90.00	269.95	9,350.00	-35.46	-211.96	10.00	10.00	-10.01	269.95	
14,090.45	90.00	269.95	9,350.00	-39.00	-4,610.00	0.00	0.00	0.00	0.00	LPP (Stebbins 19 F

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #203H
Company:	Matador Resources	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim C		

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
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	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	2.00	95.54	1,599.98	-0.17	1.74	-1.74	2.00	2.00	0.00
1,700.00	4.00	95.54	1,699.84	-0.67	6.95	-6.95	2.00	2.00	0.00
1,750.06	5.00	95.54	1,749.74	-1.05	10.86	-10.85	2.00	2.00	0.00
1,800.00	5.00	95.54	1,799.49	-1.47	15.19	-15.19	0.00	0.00	0.00
1,900.00	5.00	95.54	1,899.11	-2.31	23.87	-23.86	0.00	0.00	0.00
2,000.00	5.00	95.54	1,998.73	-3.16	32.54	-32.54	0.00	0.00	0.00
2,100.00	5.00	95.54	2,098.35	-4.00	41.22	-41.22	0.00	0.00	0.00
2,200.00	5.00	95.54	2,197.97	-4.84	49.90	-49.89	0.00	0.00	0.00
2,300.00	5.00	95.54	2,297.59	-5.68	58.57	-58.57	0.00	0.00	0.00
2,400.00	5.00	95.54	2,397.21	-6.52	67.25	-67.24	0.00	0.00	0.00
2,500.00	5.00	95.54	2,496.83	-7.36	75.93	-75.92	0.00	0.00	0.00
2,600.00	5.00	95.54	2,596.45	-8.20	84.60	-84.60	0.00	0.00	0.00
2,700.00	5.00	95.54	2,696.07	-9.04	93.28	-93.27	0.00	0.00	0.00
2,800.00	5.00	95.54	2,795.69	-9.89	101.96	-101.95	0.00	0.00	0.00
2,900.00	5.00	95.54	2,895.30	-10.73	110.63	-110.62	0.00	0.00	0.00
3,000.00	5.00	95.54	2,994.92	-11.57	119.31	-119.30	0.00	0.00	0.00
3,100.00	5.00	95.54	3,094.54	-12.41	127.99	-127.98	0.00	0.00	0.00
3,200.00	5.00	95.54	3,194.16	-13.25	136.66	-136.65	0.00	0.00	0.00
3,300.00	5.00	95.54	3,293.78	-14.09	145.34	-145.33	0.00	0.00	0.00
3,400.00	5.00	95.54	3,393.40	-14.93	154.02	-154.00	0.00	0.00	0.00
3,500.00	5.00	95.54	3,493.02	-15.77	162.69	-162.68	0.00	0.00	0.00
3,600.00	5.00	95.54	3,592.64	-16.61	171.37	-171.36	0.00	0.00	0.00
3,700.00	5.00	95.54	3,692.26	-17.46	180.05	-180.03	0.00	0.00	0.00
3,800.00	5.00	95.54	3,791.88	-18.30	188.72	-188.71	0.00	0.00	0.00
3,900.00	5.00	95.54	3,891.50	-19.14	197.40	-197.39	0.00	0.00	0.00
4,000.00	5.00	95.54	3,991.12	-19.98	206.08	-206.06	0.00	0.00	0.00
4,100.00	5.00	95.54	4,090.74	-20.82	214.76	-214.74	0.00	0.00	0.00
4,200.00	5.00	95.54	4,190.36	-21.66	223.43	-223.41	0.00	0.00	0.00
4,300.00	5.00	95.54	4,289.98	-22.50	232.11	-232.09	0.00	0.00	0.00
4,400.00	5.00	95.54	4,389.59	-23.34	240.79	-240.77	0.00	0.00	0.00
4,500.00	5.00	95.54	4,489.21	-24.19	249.46	-249.44	0.00	0.00	0.00
4,600.00	5.00	95.54	4,588.83	-25.03	258.14	-258.12	0.00	0.00	0.00
4,700.00	5.00	95.54	4,688.45	-25.87	266.82	-266.79	0.00	0.00	0.00
4,800.00	5.00	95.54	4,788.07	-26.71	275.49	-275.47	0.00	0.00	0.00
4,900.00	5.00	95.54	4,887.69	-27.55	284.17	-284.15	0.00	0.00	0.00
5,000.00	5.00	95.54	4,987.31	-28.39	292.85	-292.82	0.00	0.00	0.00
5,100.00	5.00	95.54	5,086.93	-29.23	301.52	-301.50	0.00	0.00	0.00
5,200.00	5.00	95.54	5,186.55	-30.07	310.20	-310.17	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #203H
Company:	Matador Resources	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MDI Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim C		

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)
5,300.00	5.00	95.54	5,286.17	-30.92	318.88	-318.85	0.00	0.00	0.00
5,400.00	5.00	95.54	5,385.79	-31.76	327.55	-327.53	0.00	0.00	0.00
5,500.00	5.00	95.54	5,485.41	-32.60	336.23	-336.20	0.00	0.00	0.00
5,535.25	5.00	95.54	5,520.52	-32.90	339.29	-339.26	0.00	0.00	0.00
5,600.00	4.35	95.54	5,585.06	-33.40	344.54	-344.52	1.00	-1.00	0.00
5,700.00	3.35	95.54	5,684.83	-34.05	351.23	-351.20	1.00	-1.00	0.00
5,800.00	2.35	95.54	5,784.70	-34.53	356.19	-356.16	1.00	-1.00	0.00
5,900.00	1.35	95.54	5,884.65	-34.85	359.41	-359.38	1.00	-1.00	0.00
6,000.00	0.35	95.54	5,984.64	-34.99	360.89	-360.86	1.00	-1.00	0.00
6,035.36	0.00	0.00	6,020.00	-35.00	361.00	-360.97	1.00	-1.00	0.00
6,100.00	0.00	0.00	6,084.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,200.00	0.00	0.00	6,184.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,300.00	0.00	0.00	6,284.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,400.00	0.00	0.00	6,384.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,500.00	0.00	0.00	6,484.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,600.00	0.00	0.00	6,584.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,700.00	0.00	0.00	6,684.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,800.00	0.00	0.00	6,784.64	-35.00	361.00	-360.97	0.00	0.00	0.00
6,900.00	0.00	0.00	6,884.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,000.00	0.00	0.00	6,984.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,100.00	0.00	0.00	7,084.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,200.00	0.00	0.00	7,184.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,300.00	0.00	0.00	7,284.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,400.00	0.00	0.00	7,384.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,500.00	0.00	0.00	7,484.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,600.00	0.00	0.00	7,584.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,700.00	0.00	0.00	7,684.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,800.00	0.00	0.00	7,784.64	-35.00	361.00	-360.97	0.00	0.00	0.00
7,900.00	0.00	0.00	7,884.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,000.00	0.00	0.00	7,984.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,100.00	0.00	0.00	8,084.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,200.00	0.00	0.00	8,184.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,300.00	0.00	0.00	8,284.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,400.00	0.00	0.00	8,384.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,500.00	0.00	0.00	8,484.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,600.00	0.00	0.00	8,584.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,700.00	0.00	0.00	8,684.64	-35.00	361.00	-360.97	0.00	0.00	0.00
8,792.40	0.00	0.00	8,777.04	-35.00	361.00	-360.97	0.00	0.00	0.00
8,800.00	0.76	269.95	8,784.64	-35.00	360.95	-360.92	10.00	10.00	0.00
8,850.00	5.76	269.95	8,834.54	-35.00	358.11	-358.08	10.00	10.00	0.00
8,900.00	10.76	269.95	8,884.01	-35.01	350.93	-350.90	10.00	10.00	0.00
8,950.00	15.76	269.95	8,932.66	-35.02	339.46	-339.43	10.00	10.00	0.00
9,000.00	20.76	269.95	8,980.13	-35.03	323.80	-323.77	10.00	10.00	0.00
9,050.00	25.76	269.95	9,026.05	-35.05	304.06	-304.03	10.00	10.00	0.00
9,100.00	30.76	269.95	9,070.07	-35.06	280.40	-280.37	10.00	10.00	0.00
9,150.00	35.76	269.95	9,111.87	-35.09	252.98	-252.95	10.00	10.00	0.00
9,200.00	40.76	269.95	9,151.12	-35.11	222.03	-222.00	10.00	10.00	0.00
9,250.00	45.76	269.95	9,187.52	-35.14	187.78	-187.75	10.00	10.00	0.00
9,300.00	50.76	269.95	9,220.80	-35.17	150.48	-150.45	10.00	10.00	0.00
9,350.00	55.76	269.95	9,250.70	-35.20	110.43	-110.39	10.00	10.00	0.00
9,400.00	60.76	269.95	9,276.99	-35.24	67.92	-67.89	10.00	10.00	0.00
9,450.00	65.76	269.95	9,299.48	-35.27	23.28	-23.25	10.00	10.00	0.00
9,500.00	70.76	269.95	9,318.00	-35.31	-23.15	23.18	10.00	10.00	0.00
9,550.00	75.76	269.95	9,332.39	-35.35	-71.02	71.05	10.00	10.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #203H
Company:	Matador Resources	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#203H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim C		

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)
9,600.00	80.76	269.95	9,342.56	-35.39	-119.96	119.99	10.00	10.00	0.00
9,650.00	85.76	269.95	9,348.43	-35.43	-169.59	169.62	10.00	10.00	0.00
9,692.40	90.00	269.95	9,350.00	-35.46	-211.96	211.99	10.00	10.00	0.00
9,700.00	90.00	269.95	9,350.00	-35.47	-219.56	219.59	0.00	0.00	0.00
9,800.00	90.00	269.95	9,350.00	-35.55	-319.56	319.59	0.00	0.00	0.00
9,900.00	90.00	269.95	9,350.00	-35.63	-419.56	419.59	0.00	0.00	0.00
10,000.00	90.00	269.95	9,350.00	-35.71	-519.56	519.59	0.00	0.00	0.00
10,100.00	90.00	269.95	9,350.00	-35.79	-619.56	619.59	0.00	0.00	0.00
10,200.00	90.00	269.95	9,350.00	-35.87	-719.56	719.59	0.00	0.00	0.00
10,300.00	90.00	269.95	9,350.00	-35.95	-819.56	819.59	0.00	0.00	0.00
10,400.00	90.00	269.95	9,350.00	-36.03	-919.56	919.59	0.00	0.00	0.00
10,500.00	90.00	269.95	9,350.00	-36.11	-1,019.55	1,019.59	0.00	0.00	0.00
10,600.00	90.00	269.95	9,350.00	-36.19	-1,119.55	1,119.59	0.00	0.00	0.00
10,700.00	90.00	269.95	9,350.00	-36.27	-1,219.55	1,219.59	0.00	0.00	0.00
10,800.00	90.00	269.95	9,350.00	-36.35	-1,319.55	1,319.59	0.00	0.00	0.00
10,900.00	90.00	269.95	9,350.00	-36.43	-1,419.55	1,419.59	0.00	0.00	0.00
11,000.00	90.00	269.95	9,350.00	-36.51	-1,519.55	1,519.59	0.00	0.00	0.00
11,100.00	90.00	269.95	9,350.00	-36.59	-1,619.55	1,619.59	0.00	0.00	0.00
11,200.00	90.00	269.95	9,350.00	-36.67	-1,719.55	1,719.59	0.00	0.00	0.00
11,300.00	90.00	269.95	9,350.00	-36.75	-1,819.55	1,819.59	0.00	0.00	0.00
11,400.00	90.00	269.95	9,350.00	-36.84	-1,919.55	1,919.59	0.00	0.00	0.00
11,500.00	90.00	269.95	9,350.00	-36.92	-2,019.55	2,019.59	0.00	0.00	0.00
11,600.00	90.00	269.95	9,350.00	-37.00	-2,119.55	2,119.59	0.00	0.00	0.00
11,700.00	90.00	269.95	9,350.00	-37.08	-2,219.55	2,219.59	0.00	0.00	0.00
11,800.00	90.00	269.95	9,350.00	-37.16	-2,319.55	2,319.59	0.00	0.00	0.00
11,900.00	90.00	269.95	9,350.00	-37.24	-2,419.55	2,419.59	0.00	0.00	0.00
12,000.00	90.00	269.95	9,350.00	-37.32	-2,519.55	2,519.59	0.00	0.00	0.00
12,100.00	90.00	269.95	9,350.00	-37.40	-2,619.55	2,619.59	0.00	0.00	0.00
12,200.00	90.00	269.95	9,350.00	-37.48	-2,719.55	2,719.59	0.00	0.00	0.00
12,300.00	90.00	269.95	9,350.00	-37.56	-2,819.55	2,819.59	0.00	0.00	0.00
12,400.00	90.00	269.95	9,350.00	-37.64	-2,919.55	2,919.59	0.00	0.00	0.00
12,500.00	90.00	269.95	9,350.00	-37.72	-3,019.55	3,019.59	0.00	0.00	0.00
12,600.00	90.00	269.95	9,350.00	-37.80	-3,119.55	3,119.59	0.00	0.00	0.00
12,700.00	90.00	269.95	9,350.00	-37.88	-3,219.55	3,219.59	0.00	0.00	0.00
12,800.00	90.00	269.95	9,350.00	-37.96	-3,319.55	3,319.59	0.00	0.00	0.00
12,900.00	90.00	269.95	9,350.00	-38.04	-3,419.55	3,419.59	0.00	0.00	0.00
13,000.00	90.00	269.95	9,350.00	-38.12	-3,519.55	3,519.59	0.00	0.00	0.00
13,100.00	90.00	269.95	9,350.00	-38.20	-3,619.55	3,619.59	0.00	0.00	0.00
13,200.00	90.00	269.95	9,350.00	-38.28	-3,719.55	3,719.59	0.00	0.00	0.00
13,300.00	90.00	269.95	9,350.00	-38.36	-3,819.55	3,819.59	0.00	0.00	0.00
13,400.00	90.00	269.95	9,350.00	-38.44	-3,919.55	3,919.59	0.00	0.00	0.00
13,500.00	90.00	269.95	9,350.00	-38.52	-4,019.55	4,019.59	0.00	0.00	0.00
13,600.00	90.00	269.95	9,350.00	-38.61	-4,119.55	4,119.59	0.00	0.00	0.00
13,700.00	90.00	269.95	9,350.00	-38.69	-4,219.55	4,219.59	0.00	0.00	0.00
13,800.00	90.00	269.95	9,350.00	-38.77	-4,319.55	4,319.59	0.00	0.00	0.00
13,900.00	90.00	269.95	9,350.00	-38.85	-4,419.55	4,419.59	0.00	0.00	0.00
14,000.00	90.00	269.95	9,350.00	-38.93	-4,519.55	4,519.59	0.00	0.00	0.00
14,090.45	90.00	269.95	9,350.00	-39.00	-4,610.00	4,610.03	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #203H
Company:	Matador Resources	TVD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3248 + 28.5 = KB @ 3276.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim C		

Design Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FPP (Stebbins 19 Fed		0.00	0.00	0.00	-35.00	311.00	566,772.00	570,165.00	32.557958	-104.105601
- plan misses target center by 312.96usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										
LPP (Stebbins 19 Fed		0.00	0.00	9,350.00	-39.00	-4,610.00	566,768.00	565,244.00	32.557975	-104.121573
- plan hits target center										
- Point										

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44173	² Pool Code 98315	³ Pool Name Burton Flat East, Upper Wolfcamp
⁴ Property Code	⁵ Property Name STEBBINS 19 FED COM	⁶ Well Number 203H
⁷ GRID No.	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3248'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	20-S	29-E	-	2347'	SOUTH	410'	EAST	EDDY

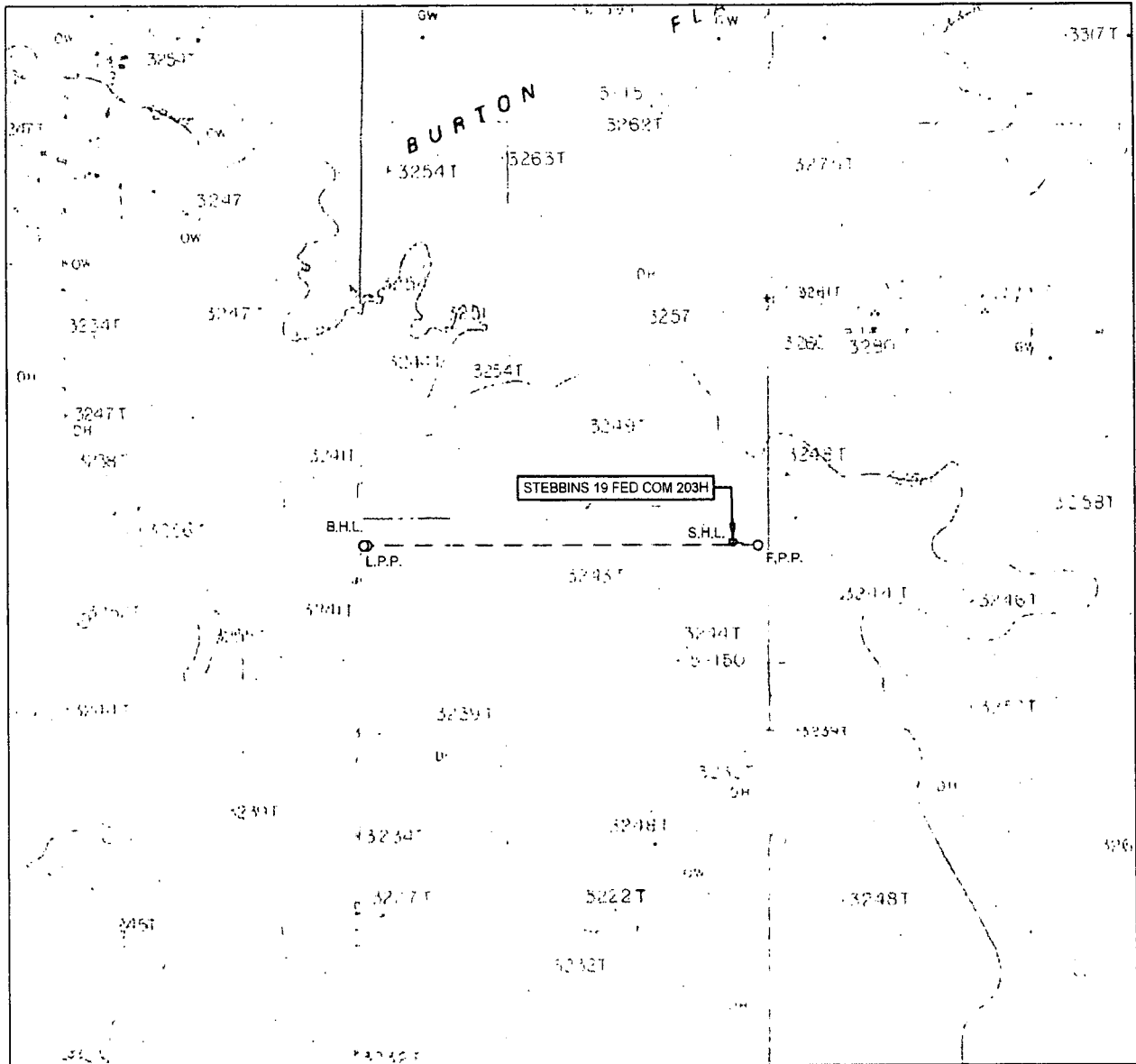
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	19	20-S	29-E	-	2311'	SOUTH	60'	WEST	EDDY

¹² Dedicated Acres 155.39	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=565204 Y=566768 LAT.: N 32.5579740 LONG.: W 104.1217017 NAD 1983 X=606385 Y=566829 LAT.: N 32.5580922 LONG.: W 104.1222067	LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=565244 Y=566768 LAT.: N 32.5579738 LONG.: W 104.1215719 NAD 1983 X=606425 Y=566829 LAT.: N 32.5580921 LONG.: W 104.1220768	SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=569854 Y=566807 LAT.: N 32.5580543 LONG.: W 104.1066094 NAD 1983 X=611035 Y=566868 LAT.: N 32.5581727 LONG.: W 104.1071140	FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=570165 Y=566772 LAT.: N 32.5579565 LONG.: W 104.1056028 NAD 1983 X=611345 Y=566833 LAT.: N 32.5580750 LONG.: W 104.1061073	¹⁷OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>[Signature]</i> Date: 3/18/19 Printed Name: Code Labolt E-mail Address: code.labolt@matadorresources.com
¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey: 02/08/2019 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 25116				02/08/2019 ANGEL MEXIA PROFESSIONAL SURVEYOR 25116

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: STEBBINS 19 FED COM 203H

SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3248'
 DESCRIPTION 2347' FSL & 410' FEL

LATITUDE N 32.5581727 LONGITUDE W 104.1071140



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.

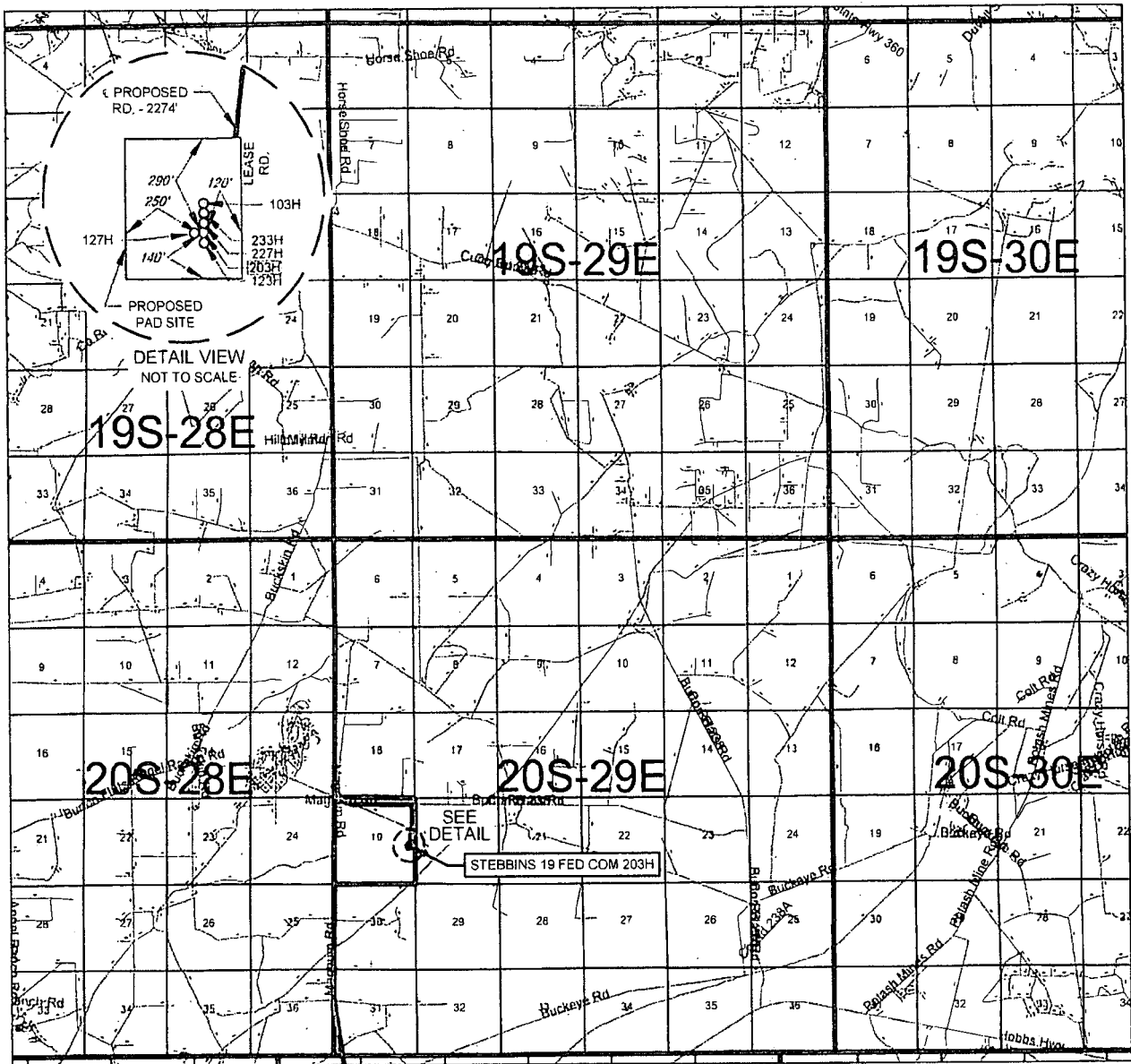
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 787-1853 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

VICINITY MAP



LEASE NAME & WELL NO.: STEBBINS 19 FED COM 203H

SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

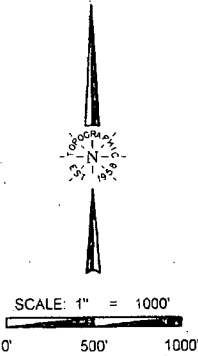
DESCRIPTION 2347' FSL & 410' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 AND US-180/US-62 EW GREENE ST. GO EAST ON
US-180 E/US-62 EW ±8.3 MILES, THENCE NORTH (LEFT) ON MAGNUM
RD. ±5.9 MILES, THENCE SOUTHEAST ON BURTON FLATS RD. ±1.0
MILES, THENCE SOUTH (RIGHT) ON A PROPOSED RD. ±2274 FEET TO A
POINT ±308 FEET NORTHEAST 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 COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



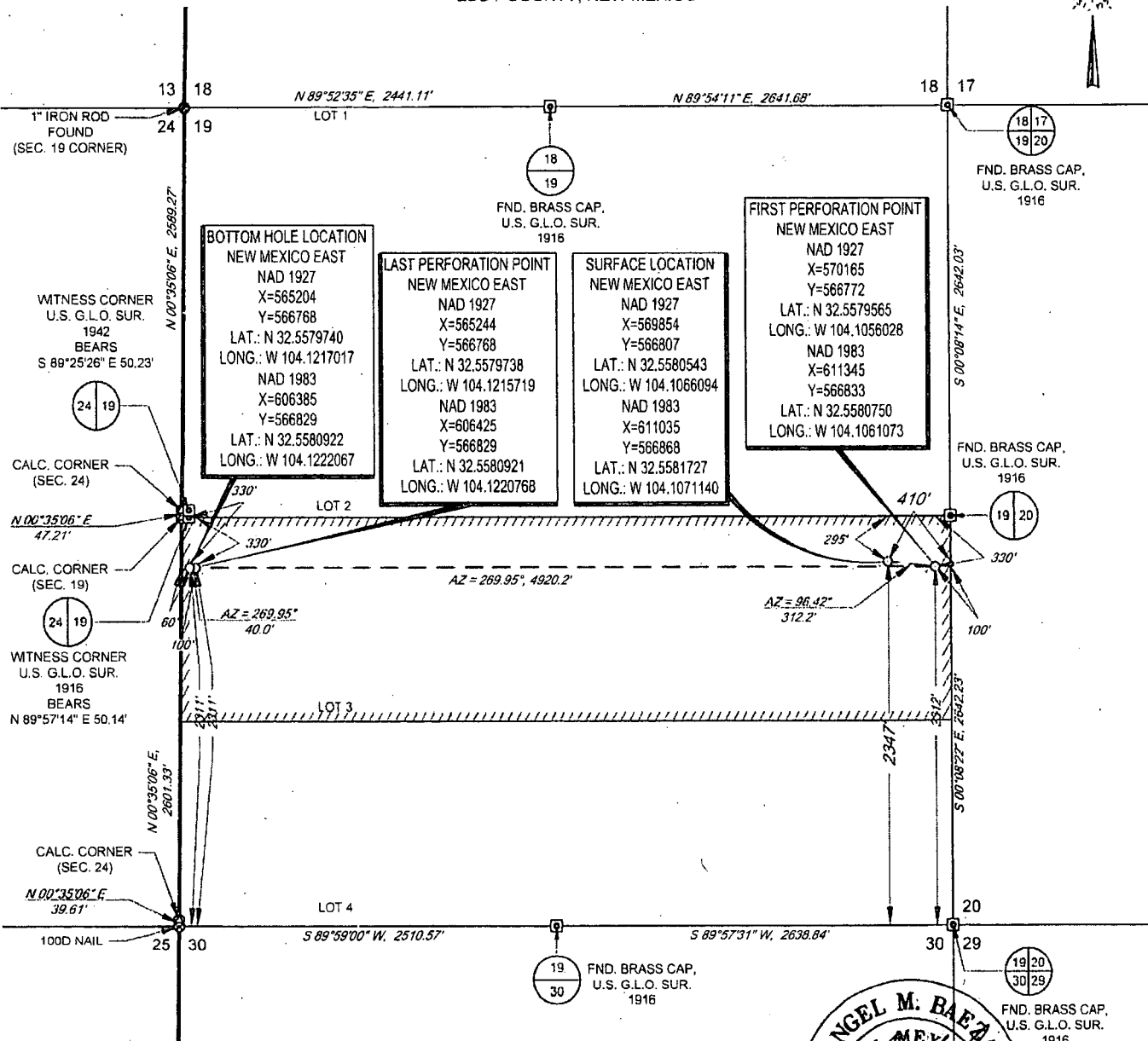
TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

SCALE: 1" = .1000'
0' 500' 1000'



SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

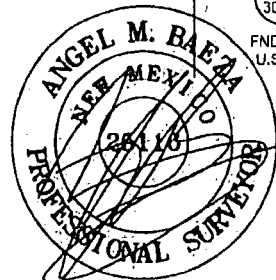


LEASE NAME & WELL NO.: STEBBINS 19 FED COM 203H
SECTION 19 TWP. 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 2347' FSL & 410' FEL

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. ±5.9 MILES, THENCE SOUTHEAST ON BURTON FLATS RD. ±1.0
MILES, THENCE SOUTH (RIGHT) ON A PROPOSED RD. ±2274 FEET TO A
POINT ±308 FEET NORTHEAST OF THE LOCATION

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW
MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, 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
MARCH 18, 2019

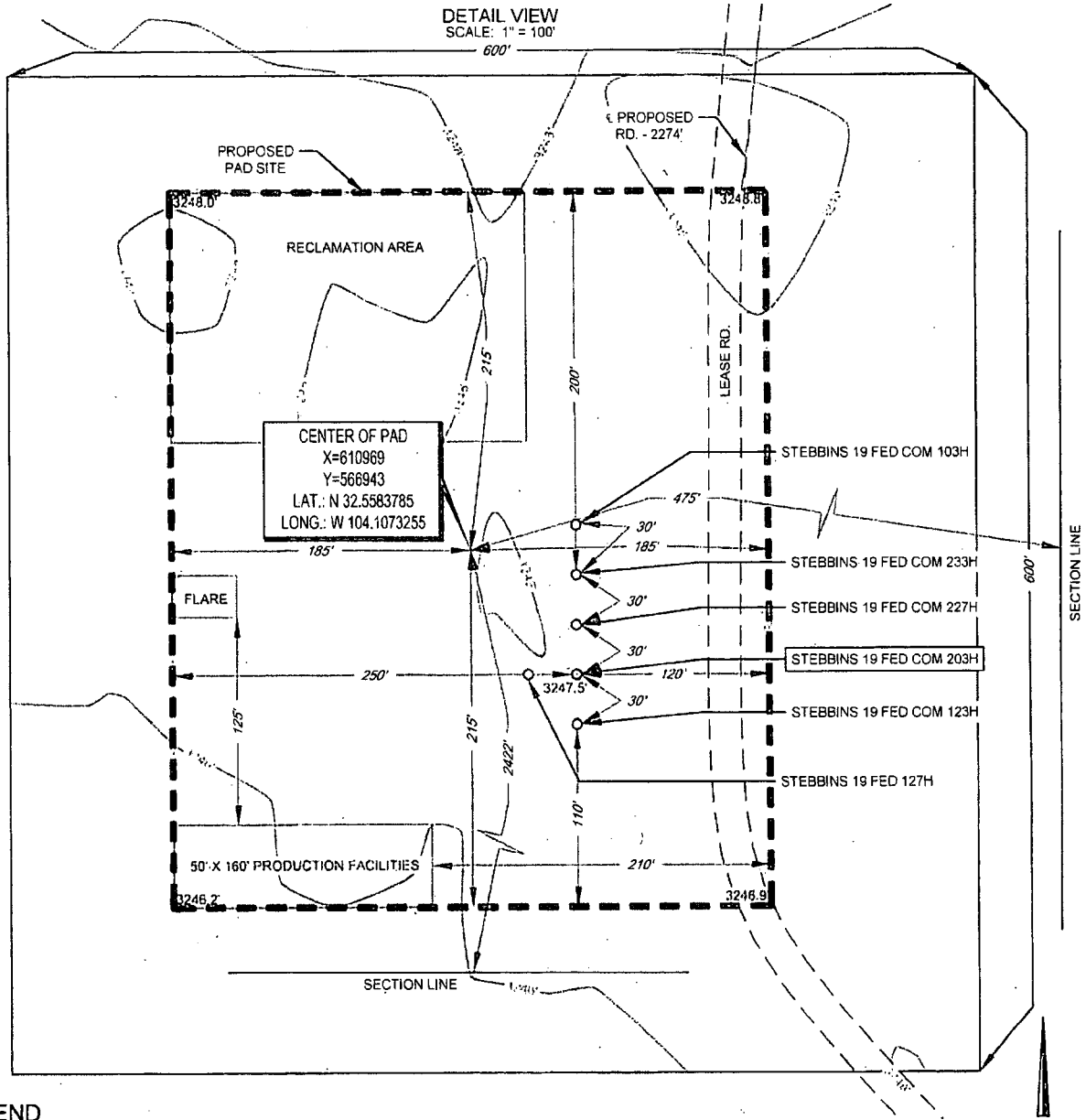


TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- PROPOSED SITE
- ARCH SURVEY
- ROAD WAY
- PROPOSED ROAD
- EXISTING PIPELINE

LEASE NAME & WELL NO.: STEBBINS 19 FED COM 203H
203H LATITUDE N 32.5581727 203H LONGITUDE W 104.1071140

CENTER OF PAD IS 2422' FSL & 475' FEL

SCALE: 1" = 100'
0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, 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.

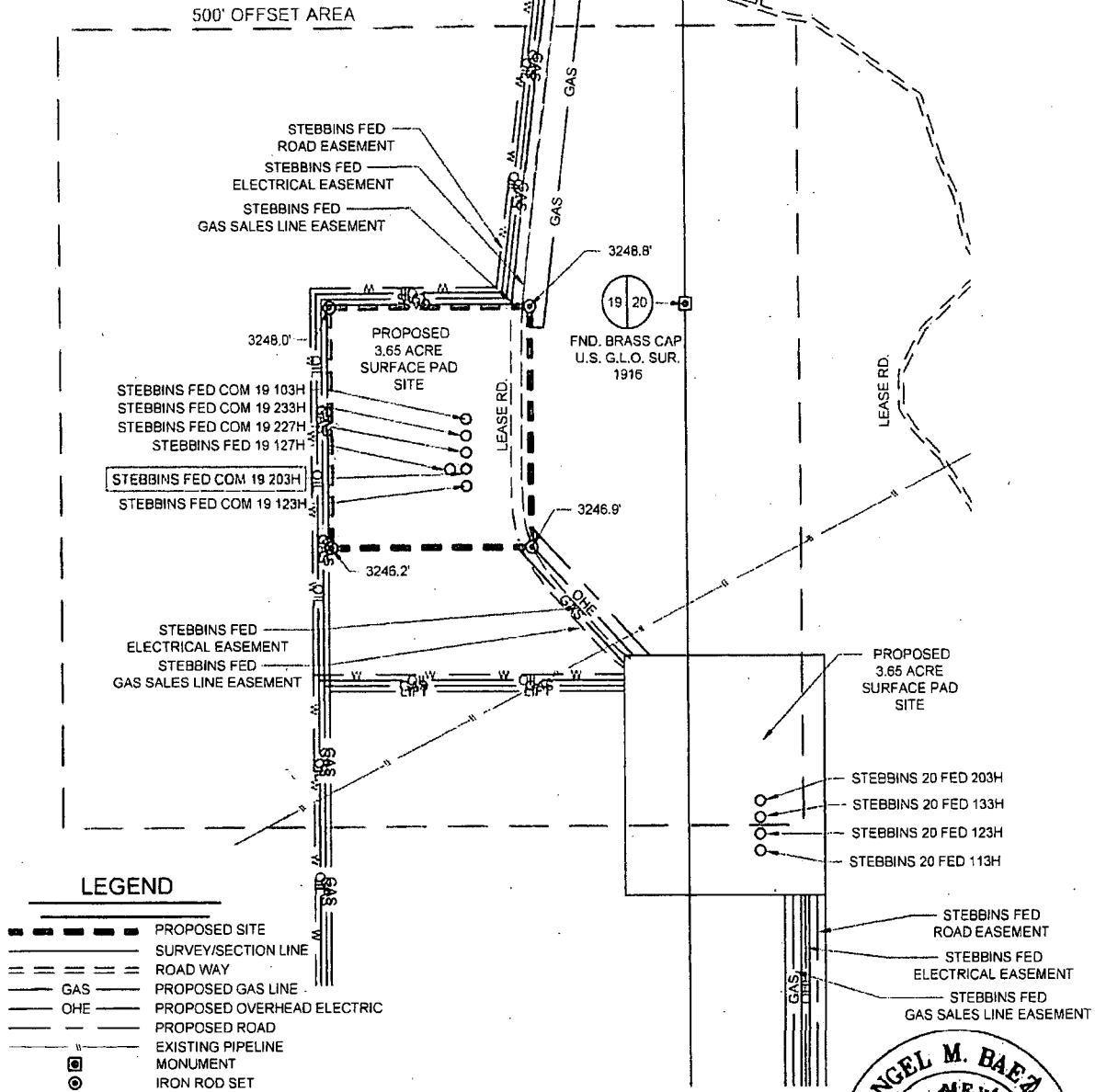
ORIGINAL DOCUMENT SIZE: 8.5" X 11"

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

SCALE: 1" = 300'

0' 150' 300'

SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
FEBRUARY 18, 2019

STEBBINS 19 FED COM 203H PROXIMITY	REVISION:		NOTES:
	IMU	1/3/2019	
	AMD	02/07/2019	1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 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.
DATE: 08/07/2017	AMD	03/06/2019	
FILE: LO_STEBBINS_19_FED_COM_203H_REV7	AMD	03/18/2019	
DRAWN BY: MML			
SHEET: 7 OF 7			