

30-015-44174

Matador Resources

Eddy County, NM (NAD27)

Stebbins Federal 19

#127H

OH

Prelim C

Anticollision Report

14 March, 2019



Matador Resources
Eddy County, NM (NAD27)
Stebbins Federal 19
#127H
Prelim C
Patt 809



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

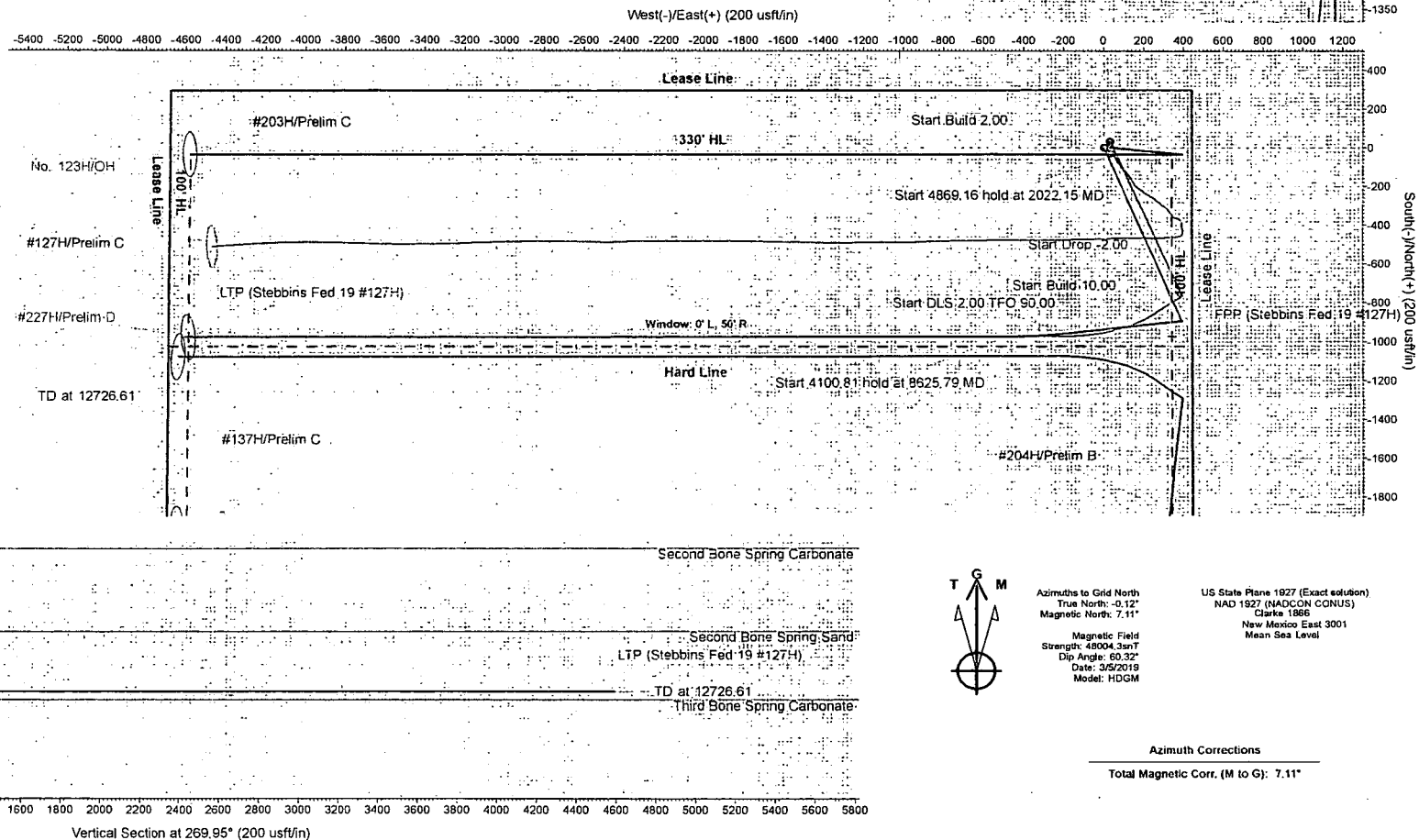
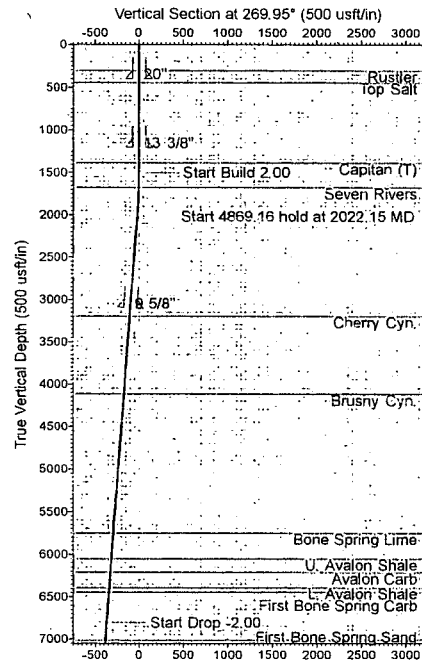
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	566806.00	569824.00	32.558053	-104.106708	

Targets

Name	TVD	+N-S	+E-W	Northing	Easting
FPP (Stebbins Fed 19 #127H)	0.00	-975.00	343.00	570167.00	
LTP (Stebbins Fed 19 #127H)	7900.00	-979.00	-4589.00	565827.00	565235.00

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	Vsect
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	2022.15	10.44	156.29	2019.27	-43.45	19.05	2.00	-19.04
4	6891.31	10.44	156.25	6807.77	-851.55	373.92	0.00	-373.18
5	7413.47	0.00	0.00	7327.04	-895.00	-393.00	2.00	-392.22
6	8313.47	90.00	263.70	7900.00	-957.87	-176.50	10.00	177.33
7	8625.79	90.00	269.95	7900.00	-975.17	-488.19	2.00	489.04
8	12726.61	90.00	269.95	7900.00	-979.00	-4589.00	0.00	4589.85



36" x 48"

Vertical Section at 269.95° (200 usft/in)

Pro Directional

Anticollision Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Stebbins Federal 19
 Site Error: 3.30 usft
 Reference Well: #127H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
 TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 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):
0.00	12,726.21	Prelim C (OH)
		Tool Name:
		MWD+HDGM
		Description:
		OWSG MWD + HRGM

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Stebbins Federal 19						
#137H - OH - Prelim C	7,789.94	7,778.30	433.38	377.94	7.818	CC, ES
#137H - OH - Prelim C	7,800.00	7,785.97	433.44	377.94	7.810	SF
#203H - OH - Prelim C	1,500.00	1,500.00	30.02	19.72	2.916	CC, ES
#203H - OH - Prelim C	1,600.00	1,598.94	31.11	20.14	2.835	SF
#204H - OH - Prelim B	7,771.54	7,663.46	999.15	944.18	18.177	CC, ES
#204H - OH - Prelim B	12,726.61	14,104.51	1,668.19	1,516.33	10.985	SF
#227H - OH - Prelim D	1,500.00	1,501.00	43.14	32.84	4.189	CC
#227H - OH - Prelim D	1,600.00	1,601.02	43.83	32.83	3.986	ES
#227H - OH - Prelim D	1,700.00	1,701.16	46.23	34.55	3.957	SF
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	8,986.47	8,839.69	1,002.48	929.27	13.693	CC
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	12,600.00	12,417.00	1,016.55	795.00	4.588	ES, SF
Stebbins Federal 19 (113-123-133-203)						
No. 123H - OH - OH	694.46	693.52	39.06	32.85	6.289	CC
No. 123H - OH - OH	2,406.01	2,397.33	42.50	27.60	2.851	ES
No. 123H - OH - OH	12,608.29	12,470.00	491.73	281.40	2.338	SF

Stebbins Federal 19 - #137H - OH - Prelim C											Offset Site Error:	3.30 usft
Survey Program:		0-MWD+HDGM		Offset		Semi Major Axis		Distance		Offset Well Error:	0.00 usft	
Reference	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	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)	Centres (usft)	Ellipses (usft)	(usft)		
0.00	0.00	6.00	-6.00	0.00	0.01	171.88	-2,137.00	305.00	2,158.66			
100.00	100.00	106.00	94.00	0.13	0.15	171.88	-2,137.00	305.00	2,158.66	2,158.38	0.28 7,770.097	
200.00	200.00	206.00	194.00	0.49	0.51	171.88	-2,137.00	305.00	2,158.66	2,157.66	0.99 2,170.029	
300.00	300.00	306.00	294.00	0.85	0.87	171.88	-2,137.00	305.00	2,158.66	2,156.94	1.71 1,261.117	
400.00	400.00	406.00	394.00	1.20	1.23	171.88	-2,137.00	305.00	2,158.66	2,156.23	2.43 888.831	
500.00	500.00	506.00	494.00	1.56	1.58	171.88	-2,137.00	305.00	2,158.66	2,155.51	3.15 686.249	
600.00	600.00	606.00	594.00	1.92	1.94	171.88	-2,137.00	305.00	2,158.66	2,154.79	3.86 558.871	
700.00	700.00	706.00	694.00	2.28	2.30	171.88	-2,137.00	305.00	2,158.66	2,154.08	4.58 471.376	
800.00	800.00	806.00	794.00	2.64	2.66	171.88	-2,137.00	305.00	2,158.66	2,153.36	5.30 407.569	
900.00	900.00	906.00	894.00	3.00	3.02	171.88	-2,137.00	305.00	2,158.66	2,152.64	6.01 358.977	
1,000.00	1,000.00	1,006.00	994.00	3.35	3.38	171.88	-2,137.00	305.00	2,158.66	2,151.93	6.73 320.737	
1,100.00	1,100.00	1,106.00	1,094.00	3.71	3.73	171.88	-2,137.00	305.00	2,158.66	2,151.21	7.45 289.860	

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

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 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		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	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)				
1,200.00	1,200.00	1,206.00	1,194.00	4.07	4.09	171.88	-2,137.00	305.00	2,158.66	2,150.49	8.16	264.405		
1,300.00	1,300.00	1,306.00	1,294.00	4.43	4.45	171.88	-2,137.00	305.00	2,158.66	2,149.77	8.88	243.061		
1,400.00	1,400.00	1,394.00	1,394.00	4.79	4.77	171.88	-2,137.00	305.00	2,158.66	2,149.10	9.56	225.918		
1,500.00	1,500.00	1,747.61	1,746.76	5.15	6.04	171.74	-2,116.05	307.18	2,153.12	2,141.99	11.12	193.542		
1,600.00	1,599.98	1,870.31	1,868.40	5.49	6.48	15.43	-2,100.08	308.84	2,138.67	2,126.77	11.89	179.827		
1,700.00	1,699.84	1,968.69	1,965.91	5.82	6.84	15.48	-2,087.13	310.19	2,120.85	2,108.27	12.58	168.651		
1,800.00	1,799.45	2,066.42	2,062.79	6.15	7.20	15.57	-2,074.27	311.53	2,099.73	2,086.48	13.26	158.372		
1,900.00	1,898.70	2,163.40	2,158.91	6.49	7.56	15.70	-2,061.50	312.86	2,075.34	2,061.40	13.94	148.870		
2,000.00	1,997.47	2,259.49	2,254.16	6.83	7.92	15.89	-2,048.85	314.18	2,047.71	2,033.09	14.62	140.046		
2,100.00	2,095.82	2,354.91	2,348.74	7.19	8.28	15.97	-2,036.29	315.49	2,017.84	2,002.53	15.30	131.877		
2,200.00	2,194.17	2,450.31	2,443.30	7.56	8.64	16.03	-2,023.73	316.80	1,987.88	1,971.90	15.98	124.404		
2,300.00	2,292.51	2,545.70	2,537.85	7.93	9.00	16.08	-2,011.18	318.10	1,957.93	1,941.27	16.66	117.511		
2,400.00	2,390.85	2,641.09	2,632.41	8.31	9.37	16.13	-1,998.62	319.41	1,927.98	1,910.63	17.35	111.137		
2,500.00	2,489.20	2,736.49	2,726.96	8.70	9.73	16.19	-1,986.06	320.72	1,898.03	1,880.00	18.04	105.230		
2,600.00	2,587.54	2,831.88	2,821.52	9.09	10.10	16.24	-1,973.51	322.03	1,868.09	1,849.36	18.73	99.742		
2,700.00	2,685.89	2,927.28	2,916.07	9.49	10.47	16.30	-1,960.95	323.33	1,838.14	1,818.72	19.42	94.634		
2,800.00	2,784.23	3,022.67	3,010.62	9.89	10.83	16.37	-1,948.39	324.64	1,808.20	1,788.08	20.12	89.868		
2,900.00	2,882.57	3,118.06	3,105.18	10.29	11.20	16.43	-1,935.83	325.95	1,778.26	1,757.44	20.82	85.412		
3,000.00	2,980.92	3,213.46	3,199.73	10.70	11.57	16.49	-1,923.28	327.26	1,748.32	1,726.80	21.52	81.240		
3,100.00	3,079.26	3,308.85	3,294.29	11.11	11.94	16.56	-1,910.72	328.57	1,718.38	1,696.16	22.22	77.324		
3,200.00	3,177.60	3,404.24	3,388.84	11.52	12.31	16.63	-1,898.16	329.87	1,688.45	1,665.52	22.93	73.644		
3,300.00	3,275.95	3,500.36	3,483.40	11.93	12.69	16.71	-1,885.61	331.18	1,658.52	1,634.88	23.64	70.171		
3,400.00	3,374.29	3,595.03	3,577.95	12.35	13.05	16.78	-1,873.05	332.49	1,628.59	1,604.25	24.34	66.911		
3,500.00	3,472.63	3,709.57	3,672.51	12.76	13.50	16.86	-1,860.49	333.80	1,598.66	1,573.54	25.12	63.645		
3,600.00	3,570.98	3,785.82	3,767.06	13.18	13.80	16.94	-1,847.93	335.10	1,568.74	1,542.98	25.76	60.906		
3,700.00	3,669.32	3,881.21	3,861.62	13.60	14.17	17.02	-1,835.38	336.41	1,538.82	1,512.35	26.47	58.141		
3,800.00	3,767.66	3,976.61	3,956.17	14.02	14.54	17.11	-1,822.82	337.72	1,508.90	1,481.72	27.18	55.519		
3,900.00	3,866.01	4,072.00	4,050.73	14.44	14.92	17.20	-1,810.26	339.03	1,478.98	1,451.09	27.89	53.028		
4,000.00	3,964.35	4,167.39	4,145.28	14.87	15.29	17.30	-1,797.71	340.33	1,449.07	1,420.47	28.60	50.661		
4,100.00	4,062.70	4,262.79	4,239.83	15.29	15.66	17.40	-1,785.15	341.64	1,419.17	1,389.85	29.32	48.407		
4,200.00	4,161.04	4,358.18	4,334.39	15.72	16.04	17.50	-1,772.59	342.95	1,389.26	1,359.23	30.03	46.259		
4,300.00	4,259.38	4,453.58	4,428.94	16.14	16.41	17.61	-1,760.03	344.26	1,359.36	1,328.62	30.75	44.211		
4,400.00	4,357.73	4,548.97	4,523.50	16.57	16.79	17.72	-1,747.48	345.57	1,329.47	1,298.01	31.46	42.254		
4,500.00	4,456.07	4,644.36	4,618.05	17.00	17.16	17.84	-1,734.92	346.87	1,299.58	1,267.40	32.18	40.384		
4,600.00	4,554.41	4,739.76	4,712.61	17.43	17.53	17.96	-1,722.36	348.18	1,269.70	1,236.80	32.90	38.595		
4,700.00	4,652.76	4,835.15	4,807.16	17.86	17.91	18.09	-1,709.81	349.49	1,239.82	1,206.20	33.62	36.882		
4,800.00	4,751.10	4,930.54	4,901.72	18.29	18.28	18.23	-1,697.25	350.80	1,209.94	1,175.61	34.34	35.239		
4,900.00	4,849.44	5,025.94	4,996.27	18.72	18.66	18.37	-1,684.69	352.10	1,180.08	1,145.02	35.05	33.664		
5,000.00	4,947.79	5,121.33	5,090.83	19.15	19.04	18.52	-1,672.14	353.41	1,150.22	1,114.45	35.77	32.152		
5,100.00	5,046.13	5,216.72	5,185.38	19.58	19.41	18.68	-1,659.58	354.72	1,120.37	1,083.87	36.50	30.699		
5,200.00	5,144.47	5,312.12	5,279.94	20.01	19.79	18.85	-1,647.02	356.03	1,090.53	1,053.31	37.22	29.302		
5,300.00	5,242.82	5,407.51	5,374.49	20.44	20.16	19.02	-1,634.46	357.34	1,060.69	1,022.75	37.94	27.957		
5,400.00	5,341.16	5,502.91	5,469.04	20.87	20.54	19.21	-1,621.91	358.64	1,030.87	992.20	38.66	26.663		
5,500.00	5,439.51	5,601.70	5,563.60	21.31	20.93	19.40	-1,609.35	359.95	1,001.05	961.65	39.40	25.408		
5,600.00	5,537.85	5,693.69	5,658.15	21.74	21.29	19.61	-1,596.79	361.26	971.25	931.14	40.11	24.214		
5,700.00	5,636.19	5,789.09	5,752.71	22.17	21.67	19.84	-1,584.24	362.57	941.46	900.62	40.84	23.055		
5,800.00	5,734.54	5,884.48	5,847.26	22.61	22.04	20.07	-1,571.68	363.87	911.68	870.12	41.56	21.935		
5,900.00	5,832.88	5,979.87	5,941.82	23.04	22.42	20.33	-1,559.12	365.18	881.92	839.63	42.29	20.855		
6,000.00	5,931.22	6,075.27	6,036.37	23.48	22.79	20.60	-1,546.56	366.49	852.18	809.16	43.02	19.810		
6,100.00	6,029.57	6,170.66	6,130.93	23.91	23.17	20.89	-1,534.01	367.80	822.45	778.71	43.75	18.800		
6,200.00	6,127.91	6,266.06	6,225.48	24.34	23.55	21.20	-1,521.45	369.10	792.75	748.27	44.48	17.824		
6,300.00	6,226.25	6,361.45	6,320.04	24.78	23.92	21.54	-1,508.89	370.41	763.07	717.86	45.21	16.879		

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Output errors are at: 2.00 sigma
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Offset Design Stebbins Federal 19 - #137H - OH - Prelim C														Offset Site Error: 3.30 usft
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Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,400.00	6,324.60	6,456.84	6,414.59	25.21	24.30	21.90	-1,496.34	371.72	733.41	687.47	45.94	15.964		
6,500.00	6,422.94	6,552.24	6,509.14	25.65	24.68	22.29	-1,483.78	373.03	703.78	657.11	46.68	15.078		
6,600.00	6,521.28	6,647.63	6,603.70	26.09	25.05	22.72	-1,471.22	374.34	674.19	626.78	47.41	14.219		
6,700.00	6,619.63	6,743.02	6,698.25	26.52	25.43	23.19	-1,458.66	375.64	644.64	596.48	48.15	13.387		
6,800.00	6,717.97	6,838.42	6,792.81	26.96	25.81	23.70	-1,446.11	376.95	615.12	566.23	48.89	12.581		
6,900.00	6,816.32	6,933.82	6,887.37	27.39	26.18	24.24	-1,433.55	378.26	585.67	536.03	49.64	11.799		
7,000.00	6,915.01	7,029.78	6,982.49	27.82	26.56	24.54	-1,420.92	379.57	558.05	507.67	50.38	11.076		
7,100.00	7,014.20	7,126.65	7,078.50	28.22	26.95	24.75	-1,408.17	380.90	533.53	482.41	51.12	10.437		
7,200.00	7,113.77	7,224.29	7,175.28	28.59	27.33	24.86	-1,395.31	382.24	512.12	460.27	51.85	9.877		
7,300.00	7,213.60	7,322.59	7,272.72	28.94	27.72	24.85	-1,382.37	383.59	493.82	441.25	52.56	9.395		
7,400.00	7,313.57	7,421.42	7,370.68	29.27	28.11	24.69	-1,369.36	384.94	478.64	425.37	53.27	8.985		
7,500.00	7,413.24	7,520.03	7,468.42	29.56	28.50	-84.88	-1,356.38	386.29	464.71	410.81	53.91	8.621		
7,600.00	7,510.29	7,615.57	7,563.12	29.82	28.88	-89.43	-1,343.81	387.60	450.04	395.80	54.44	8.267		
7,700.00	7,601.78	7,705.12	7,651.89	30.04	29.23	-95.63	-1,332.02	388.83	437.91	382.98	54.92	7.973		
7,789.94	7,677.00	7,778.30	7,724.42	30.19	29.52	-101.64	-1,322.39	389.84	433.38	377.94	55.44	7.818 CC, ES		
7,800.00	7,684.91	7,785.97	7,732.02	30.21	29.55	-102.29	-1,321.38	389.94	433.44	377.94	55.50	7.810 SF		
7,900.00	7,757.17	7,851.36	7,796.86	30.33	29.81	-107.52	-1,312.95	390.82	442.62	386.27	56.35	7.855		
8,000.00	7,816.37	7,901.82	7,847.01	30.41	30.01	-110.10	-1,307.32	391.40	470.29	412.86	57.42	8.190		
8,100.00	7,860.69	7,939.58	7,884.59	30.44	30.15	-109.49	-1,303.67	391.78	516.85	458.32	58.53	8.830		
8,200.00	7,888.80	7,963.20	7,908.12	30.45	30.24	-104.75	-1,301.65	392.00	579.50	520.00	59.50	9.740		
8,300.00	7,899.84	7,971.63	7,916.52	30.47	30.27	-94.92	-1,300.97	392.07	653.81	593.56	60.25	10.852		
8,400.00	7,900.00	7,970.33	7,915.23	30.88	30.26	-93.15	-1,301.07	392.06	735.73	674.94	60.80	12.102		
8,500.00	7,900.00	7,969.12	7,914.02	31.76	30.26	-93.16	-1,301.17	392.05	823.29	762.09	61.20	13.453		
8,600.00	7,900.00	9,445.83	8,758.00	32.80	37.73	-173.33	-1,076.12	-462.33	869.89	837.01	32.88	26.455		
8,697.65	7,900.00	9,543.47	8,758.00	33.94	38.78	-173.36	-1,076.19	-559.97	869.84	836.22	33.62	25.873		
8,700.00	7,900.00	9,545.83	8,758.00	33.97	38.81	-173.34	-1,076.19	-562.32	869.88	836.23	33.64	25.856		
8,800.00	7,900.00	9,645.83	8,758.00	35.25	39.99	-173.34	-1,076.26	-662.32	869.88	835.41	34.47	25.236		
8,900.00	7,900.00	9,745.83	8,758.00	36.63	41.28	-173.34	-1,076.33	-762.32	869.87	834.52	35.35	24.605		
9,000.00	7,900.00	9,845.83	8,758.00	38.09	42.65	-173.34	-1,076.40	-862.32	869.87	833.58	36.29	23.968		
9,100.00	7,900.00	9,945.83	8,758.00	39.64	44.11	-173.34	-1,076.47	-962.32	869.87	832.59	37.28	23.333		
9,200.00	7,900.00	10,045.83	8,758.00	41.25	45.63	-173.34	-1,076.54	-1,062.32	869.86	831.55	38.32	22.703		
9,300.00	7,900.00	10,145.83	8,758.00	42.93	47.22	-173.34	-1,076.61	-1,162.32	869.86	830.47	39.39	22.082		
9,400.00	7,900.00	10,245.83	8,758.00	44.66	48.87	-173.35	-1,076.68	-1,262.32	869.86	829.35	40.51	21.474		
9,500.00	7,900.00	10,345.83	8,758.00	46.44	50.58	-173.35	-1,076.75	-1,362.32	869.86	828.20	41.66	20.881		
9,600.00	7,900.00	10,445.83	8,758.00	48.27	52.32	-173.35	-1,076.82	-1,462.32	869.85	827.01	42.84	20.304		
9,700.00	7,900.00	10,545.83	8,758.00	50.14	54.12	-173.35	-1,076.89	-1,562.32	869.85	825.80	44.05	19.745		
9,800.00	7,900.00	10,645.83	8,758.00	52.04	55.95	-173.35	-1,076.96	-1,662.32	869.85	824.55	45.30	19.204		
9,900.00	7,900.00	10,745.83	8,758.00	53.97	57.81	-173.35	-1,077.03	-1,762.32	869.84	823.28	46.56	18.681		
10,000.00	7,900.00	10,845.83	8,758.00	55.93	59.71	-173.36	-1,077.10	-1,862.32	869.84	821.99	47.85	18.178		
10,100.00	7,900.00	10,945.83	8,758.00	57.91	61.63	-173.36	-1,077.17	-1,962.32	869.84	820.68	49.16	17.693		
10,200.00	7,900.00	11,045.83	8,758.00	59.92	63.58	-173.36	-1,077.24	-2,062.32	869.84	819.34	50.49	17.226		
10,300.00	7,900.00	11,145.83	8,758.00	61.95	65.55	-173.36	-1,077.31	-2,162.32	869.83	817.99	51.84	16.778		
10,400.00	7,900.00	11,245.83	8,758.00	64.00	67.55	-173.36	-1,077.38	-2,262.32	869.83	816.62	53.21	16.347		
10,500.00	7,900.00	11,345.83	8,758.00	66.06	69.56	-173.36	-1,077.45	-2,362.32	869.83	815.24	54.59	15.933		
10,600.00	7,900.00	11,445.83	8,758.00	68.14	71.59	-173.37	-1,077.52	-2,462.32	869.83	813.84	55.99	15.536		
10,700.00	7,900.00	11,545.83	8,758.00	70.24	73.64	-173.37	-1,077.59	-2,562.32	869.82	812.43	57.40	15.155		
10,800.00	7,900.00	11,645.83	8,758.00	72.34	75.70	-173.37	-1,077.66	-2,662.32	869.82	811.00	58.82	14.788		
10,900.00	7,900.00	11,745.83	8,758.00	74.46	77.78	-173.37	-1,077.73	-2,762.32	869.82	809.57	60.25	14.436		
11,000.00	7,900.00	11,845.83	8,758.00	76.59	79.87	-173.37	-1,077.80	-2,862.32	869.81	808.12	61.70	14.098		
11,100.00	7,900.00	11,945.83	8,758.00	78.73	81.97	-173.37	-1,077.87	-2,962.32	869.81	806.66	63.15	13.774		
11,200.00	7,900.00	12,045.83	8,758.00	80.88	84.09	-173.37	-1,077.94	-3,062.32	869.81	805.20	64.61	13.462		
11,300.00	7,900.00	12,145.83	8,758.00	83.04	86.21	-173.38	-1,078.01	-3,162.32	869.81	803.72	66.09	13.162		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #137H - OH - Prelim C													Offset Site Error: 3.30 usft
Survey Program: 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	
11,400.00	7,900.00	12,245.83	8,758.00	85.20	88.34	-173.38	-1,078.08	-3,262.32	869.80	802.24	67.57	12.873	
11,500.00	7,900.00	12,345.83	8,758.00	87.38	90.48	-173.38	-1,078.14	-3,362.32	869.80	800.75	69.05	12.596	
11,600.00	7,900.00	12,445.83	8,758.00	89.56	92.63	-173.38	-1,078.21	-3,462.32	869.80	799.25	70.55	12.329	
11,700.00	7,900.00	12,545.83	8,758.00	91.74	94.79	-173.38	-1,078.28	-3,562.32	869.80	797.75	72.05	12.072	
11,800.00	7,900.00	12,645.83	8,758.00	93.93	96.95	-173.38	-1,078.35	-3,662.32	869.79	796.24	73.56	11.825	
11,900.00	7,900.00	12,745.83	8,758.00	96.13	99.12	-173.39	-1,078.42	-3,762.32	869.79	794.72	75.07	11.586	
12,000.00	7,900.00	12,845.83	8,758.00	98.33	101.29	-173.39	-1,078.49	-3,862.32	869.79	793.20	76.59	11.356	
12,100.00	7,900.00	12,945.83	8,758.00	100.54	103.48	-173.39	-1,078.56	-3,962.32	869.78	791.67	78.11	11.135	
12,200.00	7,900.00	13,045.83	8,758.00	102.75	105.66	-173.39	-1,078.63	-4,062.32	869.78	790.14	79.64	10.921	
12,300.00	7,900.00	13,145.83	8,758.00	104.97	107.86	-173.39	-1,078.70	-4,162.32	869.78	788.60	81.18	10.715	
12,400.00	7,900.00	13,245.83	8,758.00	107.18	110.05	-173.39	-1,078.77	-4,262.32	869.78	787.06	82.71	10.515	
12,500.00	7,900.00	13,345.83	8,758.00	109.41	112.25	-173.39	-1,078.84	-4,362.32	869.77	785.52	84.26	10.323	
12,600.00	7,900.00	13,445.83	8,758.00	111.63	114.46	-173.40	-1,078.91	-4,462.32	869.77	783.97	85.80	10.137	
12,700.00	7,900.00	13,545.83	8,758.00	113.86	116.67	-173.40	-1,078.98	-4,562.32	869.77	782.42	87.35	9.957	
12,726.61	7,900.00	13,574.58	8,758.00	114.25	117.30	-173.40	-1,079.00	-4,588.93	869.77	782.09	87.68	9.920	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 - #203H - 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 Vertical Depth (usft)	Measured Vertical Depth (usft)	Measured Vertical Depth (usft)	Measured 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	0.00	0.00	88.09	1.00	30.00	30.02				
100.00	100.00	100.00	100.00	0.13	0.13	88.09	1.00	30.00	30.02	29.76	0.26	117.112	
200.00	200.00	200.00	200.00	0.49	0.49	88.09	1.00	30.00	30.02	29.04	0.97	30.842	
300.00	300.00	300.00	300.00	0.85	0.85	88.09	1.00	30.00	30.02	28.33	1.69	17.759	
400.00	400.00	400.00	400.00	1.20	1.20	88.09	1.00	30.00	30.02	27.61	2.41	12.470	
500.00	500.00	500.00	500.00	1.56	1.56	88.09	1.00	30.00	30.02	26.89	3.12	9.608	
600.00	600.00	600.00	600.00	1.92	1.92	88.09	1.00	30.00	30.02	26.18	3.84	7.815	
700.00	700.00	700.00	700.00	2.28	2.28	88.09	1.00	30.00	30.02	25.46	4.56	6.586	
800.00	800.00	800.00	800.00	2.64	2.64	88.09	1.00	30.00	30.02	24.74	5.27	5.690	
900.00	900.00	900.00	900.00	3.00	3.00	88.09	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	88.09	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	88.09	1.00	30.00	30.02	22.59	7.43	4.042	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	88.09	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	88.09	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	88.09	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	88.09	1.00	30.00	30.02	19.72	10.29	2.916 CC, ES	
1,600.00	1,599.98	1,598.94	1,598.92	5.49	5.49	-70.73	0.84	31.70	31.11	20.14	10.97	2.835 SF	
1,700.00	1,699.84	1,697.70	1,697.54	5.82	5.83	-77.27	0.34	36.79	34.72	23.10	11.62	2.987	
1,800.00	1,799.45	1,803.30	1,796.21	6.15	6.20	-85.68	-0.44	44.90	41.16	28.85	12.31	3.344	
1,900.00	1,898.70	1,903.91	1,895.22	6.49	6.55	-95.48	-1.28	53.53	48.90	35.89	13.00	3.761	
2,000.00	1,997.47	2,004.85	1,993.90	6.83	6.91	-105.69	-2.11	62.12	58.55	44.84	13.71	4.270	
2,100.00	2,095.82	2,106.10	2,092.27	7.19	7.27	-114.75	-2.95	70.69	70.55	56.12	14.43	4.889	
2,200.00	2,194.17	2,207.36	2,190.64	7.56	7.63	-121.18	-3.78	79.26	83.84	68.69	15.15	5.533	
2,300.00	2,292.51	2,308.62	2,289.00	7.93	7.99	-125.81	-4.61	87.83	97.89	82.01	15.88	6.164	
2,400.00	2,390.85	2,409.88	2,387.37	8.31	8.36	-129.27	-5.44	96.39	112.40	95.80	16.61	6.768	
2,500.00	2,489.20	2,488.87	2,485.74	8.70	8.64	-131.94	-6.27	104.96	127.23	109.97	17.26	7.372	
2,600.00	2,587.54	2,587.61	2,584.10	9.09	9.00	-134.04	-7.10	113.53	142.27	124.29	17.98	7.911	
2,700.00	2,685.89	2,686.35	2,682.47	9.49	9.36	-135.74	-7.93	122.10	157.47	138.76	18.71	8.415	
2,800.00	2,784.23	2,785.09	2,780.83	9.89	9.73	-137.15	-8.76	130.66	172.77	153.33	19.44	8.887	
2,900.00	2,882.57	2,883.83	2,879.20	10.29	10.09	-138.32	-9.59	139.23	188.16	167.99	20.17	9.327	
3,000.00	2,980.92	2,982.57	2,977.56	10.70	10.45	-139.32	-10.42	147.80	203.62	182.71	20.91	9.739	
3,100.00	3,079.26	3,081.31	3,075.93	11.11	10.81	-140.17	-11.25	156.37	219.13	197.48	21.64	10.124	
3,200.00	3,177.60	3,180.05	3,174.29	11.52	11.18	-140.91	-12.08	164.93	234.68	212.29	22.38	10.485	
3,300.00	3,275.95	3,278.79	3,272.66	11.93	11.54	-141.56	-12.91	173.50	250.26	227.14	23.12	10.823	
3,400.00	3,374.29	3,377.54	3,371.02	12.35	11.91	-142.14	-13.74	182.07	265.87	242.01	23.86	11.141	
3,500.00	3,472.63	3,476.28	3,469.39	12.76	12.27	-142.65	-14.57	190.64	281.50	256.90	24.61	11.441	
3,600.00	3,570.98	3,575.02	3,567.75	13.18	12.64	-143.10	-15.40	199.20	297.15	271.81	25.35	11.723	
3,700.00	3,669.32	3,673.76	3,666.12	13.60	13.01	-143.51	-16.24	207.77	312.82	286.73	26.09	11.989	
3,800.00	3,767.66	3,772.50	3,764.48	14.02	13.37	-143.89	-17.07	216.34	328.51	301.67	26.84	12.240	
3,900.00	3,866.01	3,871.24	3,862.85	14.44	13.74	-144.22	-17.90	224.91	344.20	316.62	27.59	12.478	
4,000.00	3,964.35	3,969.98	3,961.21	14.87	14.11	-144.53	-18.73	233.47	359.91	331.58	28.33	12.703	
4,100.00	4,062.70	4,068.72	4,059.58	15.29	14.48	-144.81	-19.56	242.04	375.63	346.54	29.08	12.916	
4,200.00	4,161.04	4,167.46	4,157.94	15.72	14.85	-145.07	-20.39	250.61	391.35	361.52	29.83	13.119	
4,300.00	4,259.38	4,266.20	4,256.31	16.14	15.21	-145.31	-21.22	259.18	407.08	376.50	30.58	13.312	
4,400.00	4,357.73	4,364.95	4,354.67	16.57	15.58	-145.54	-22.05	267.74	422.82	391.49	31.33	13.495	
4,500.00	4,456.07	4,463.69	4,453.04	17.00	15.95	-145.74	-22.88	276.31	438.56	406.48	32.08	13.670	
4,600.00	4,554.41	4,562.43	4,551.40	17.43	16.32	-145.93	-23.71	284.88	454.31	421.48	32.83	13.837	
4,700.00	4,652.76	4,661.17	4,649.77	17.86	16.69	-146.11	-24.54	293.45	470.06	436.48	33.59	13.996	
4,800.00	4,751.10	4,759.91	4,748.13	18.29	17.06	-146.28	-25.37	302.01	485.82	451.48	34.34	14.148	
4,900.00	4,849.44	4,858.65	4,846.50	18.72	17.43	-146.44	-26.20	310.58	501.58	466.49	35.09	14.293	
5,000.00	4,947.79	4,957.39	4,944.86	19.15	17.80	-146.58	-27.03	319.15	517.35	481.50	35.85	14.433	
5,100.00	5,046.13	5,056.13	5,043.23	19.58	18.17	-146.72	-27.86	327.72	533.12	496.52	36.60	14.566	

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

Pro Directional Anticollision Report

Company: Matador Resources
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Well Error: 0.00 usft
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Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD/Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #203H - 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 Vertical Depth (usft)	Measured Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)	Reference Depth (usft)	Offset Depth (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	5,144.47	5,154.87	5,141.60	20.01	18.54	-146.85	-28.70	336.28	548.89	511.53	37.35	14.694		
5,300.00	5,242.82	5,253.62	5,239.96	20.44	18.91	-146.98	-29.53	344.85	564.66	526.55	38.11	14.817		
5,400.00	5,341.16	5,352.36	5,338.33	20.87	19.28	-147.09	-30.36	353.42	580.44	541.57	38.86	14.935		
5,500.00	5,439.51	5,451.10	5,436.69	21.31	19.65	-147.20	-31.19	361.99	596.21	556.59	39.62	15.049		
5,600.00	5,537.85	5,549.92	5,535.14	21.74	20.02	-147.31	-32.02	370.54	611.99	571.62	40.38	15.158		
5,700.00	5,636.19	5,649.20	5,634.13	22.17	20.39	-147.51	-32.74	378.05	627.72	586.59	41.13	15.263		
5,800.00	5,734.54	5,748.40	5,733.15	22.61	20.75	-147.86	-33.31	383.85	643.38	601.51	41.87	15.366		
5,900.00	5,832.88	5,847.46	5,832.13	23.04	21.11	-148.34	-33.70	387.93	659.00	616.39	42.60	15.469		
6,000.00	5,931.22	5,946.33	5,930.97	23.48	21.46	-148.94	-33.93	390.31	674.61	631.29	43.32	15.572		
6,100.00	6,029.57	6,044.93	6,029.57	23.91	21.80	-149.66	-34.00	391.00	690.28	646.25	44.03	15.679		
6,200.00	6,127.91	6,143.27	6,127.91	24.34	22.13	-150.40	-34.00	391.00	706.05	661.33	44.72	15.788		
6,300.00	6,226.25	6,241.62	6,226.25	24.78	22.47	-151.11	-34.00	391.00	721.93	676.51	45.42	15.896		
6,400.00	6,324.60	6,339.96	6,324.60	25.21	22.80	-151.79	-34.00	391.00	737.91	691.80	46.11	16.002		
6,500.00	6,422.94	6,438.30	6,422.94	25.65	23.14	-152.44	-34.00	391.00	753.99	707.18	46.81	16.108		
6,600.00	6,521.28	6,536.65	6,521.28	26.09	23.47	-153.06	-34.00	391.00	770.16	722.65	47.51	16.211		
6,700.00	6,619.63	6,634.99	6,619.63	26.52	23.81	-153.65	-34.00	391.00	786.41	738.21	48.21	16.314		
6,800.00	6,717.97	6,733.33	6,717.97	26.96	24.15	-154.23	-34.00	391.00	802.75	753.84	48.90	16.415		
6,900.00	6,816.32	6,831.68	6,816.32	27.39	24.48	-154.79	-34.00	391.00	819.15	769.54	49.60	16.514		
7,000.00	6,915.01	6,930.37	6,915.01	27.82	24.82	-155.38	-34.00	391.00	833.79	783.48	50.30	16.575		
7,100.00	7,014.20	7,029.56	7,014.20	28.22	25.16	-155.83	-34.00	391.00	845.33	794.33	51.00	16.575		
7,200.00	7,113.77	7,129.13	7,113.77	28.59	25.50	-156.15	-34.00	391.00	853.72	802.03	51.69	16.515		
7,300.00	7,213.60	7,228.96	7,213.60	28.94	25.85	-156.35	-34.00	391.00	858.94	806.56	52.38	16.397		
7,400.00	7,313.57	7,328.93	7,313.57	29.27	26.19	-156.43	-34.00	391.00	860.97	807.90	53.07	16.224		
7,500.00	7,413.24	7,428.61	7,413.24	29.56	26.54	96.52	-34.00	391.00	861.73	807.99	53.74	16.036		
7,600.00	7,510.29	7,525.66	7,510.29	29.82	26.87	97.73	-34.00	391.00	864.75	810.35	54.40	15.896		
7,700.00	7,601.78	7,617.14	7,601.78	30.04	27.19	99.47	-34.00	391.00	871.34	816.29	55.05	15.828		
7,800.00	7,684.91	7,700.28	7,684.91	30.21	27.48	101.25	-34.00	391.00	883.34	827.66	55.68	15.864		
7,900.00	7,757.17	7,772.54	7,757.17	30.33	27.73	102.49	-34.00	391.00	902.83	846.54	56.30	16.038		
8,000.00	7,816.37	7,831.73	7,816.37	30.41	27.93	102.59	-34.00	391.00	931.53	874.65	56.88	16.378		
8,100.00	7,860.69	7,876.05	7,860.69	30.44	28.08	100.99	-34.00	391.00	970.32	912.91	57.41	16.903		
8,200.00	7,888.80	7,904.16	7,888.80	30.45	28.18	97.24	-34.00	391.00	1,018.96	961.10	57.85	17.613		
8,300.00	7,899.84	7,915.20	7,899.84	30.47	28.22	91.03	-34.00	391.00	1,076.04	1,017.85	58.19	18.493		
8,400.00	7,900.00	7,915.36	7,900.00	30.88	28.22	90.00	-34.00	391.00	1,138.42	1,079.98	58.44	19.480		
8,500.00	7,900.00	7,915.36	7,900.00	31.76	28.22	90.00	-34.00	391.00	1,203.36	1,144.67	58.69	20.504		
8,600.00	7,900.00	7,915.36	7,900.00	32.80	28.22	90.00	-34.00	391.00	1,270.36	1,211.43	58.93	21.556		
8,700.00	7,900.00	7,915.36	7,900.00	33.97	28.22	90.00	-34.00	391.00	1,339.74	1,280.58	59.16	22.645		
8,800.00	7,900.00	7,915.36	7,900.00	35.25	28.22	90.00	-34.00	391.00	1,412.71	1,353.34	59.37	23.793		
8,900.00	7,900.00	7,915.36	7,900.00	36.63	28.22	90.00	-34.00	391.00	1,488.83	1,429.26	59.56	24.995		
9,000.00	7,900.00	7,915.36	7,900.00	38.09	28.22	90.00	-34.00	391.00	1,567.63	1,507.90	59.73	26.243		
9,100.00	7,900.00	7,915.36	7,900.00	39.64	28.22	90.00	-34.00	391.00	1,648.73	1,588.85	59.89	27.531		
9,200.00	7,900.00	10,573.60	9,350.00	41.25	44.49	147.03	-35.17	-1,063.15	1,728.33	1,669.61	58.71	29.436		
9,300.00	7,900.00	10,673.60	9,350.00	42.93	46.06	147.03	-35.25	-1,163.15	1,728.33	1,667.71	60.63	28.508		
9,400.00	7,900.00	10,773.60	9,350.00	44.66	47.69	147.03	-35.33	-1,263.15	1,728.34	1,665.73	62.61	27.605		
9,500.00	7,900.00	10,873.60	9,350.00	46.44	49.37	147.03	-35.41	-1,363.15	1,728.35	1,663.69	64.65	26.732		
9,600.00	7,900.00	10,973.60	9,350.00	48.27	51.10	147.03	-35.49	-1,463.15	1,728.35	1,661.60	66.76	25.891		
9,700.00	7,900.00	11,073.60	9,350.00	50.14	52.88	147.03	-35.57	-1,563.15	1,728.36	1,659.45	68.91	25.081		
9,800.00	7,900.00	11,173.60	9,350.00	52.04	54.69	147.03	-35.65	-1,663.15	1,728.37	1,657.26	71.11	24.305		
9,900.00	7,900.00	11,273.60	9,350.00	53.97	56.55	147.03	-35.73	-1,763.15	1,728.38	1,655.02	73.36	23.562		
10,000.00	7,900.00	11,373.60	9,350.00	55.93	58.43	147.03	-35.81	-1,863.15	1,728.38	1,652.74	75.64	22.850		
10,100.00	7,900.00	11,473.60	9,350.00	57.91	60.34	147.03	-35.89	-1,963.15	1,728.39	1,650.43	77.96	22.170		
10,200.00	7,900.00	11,573.60	9,350.00	59.92	62.28	147.03	-35.97	-2,063.15	1,728.40	1,648.08	80.31	21.521		
10,300.00	7,900.00	11,673.60	9,350.00	61.95	64.25	147.03	-36.06	-2,163.15	1,728.40	1,645.71	82.69	20.901		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #203H - OH - Prelim C													Offset Site Error: 3.30 usft
Survey Program: 40-MWD-HDGM													Offset Well Error: 0.00 usft
Reference Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Offset Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	7,900.00	11,773.60	9,350.00	64.00	66.24	147.03	-36.14	-2,263.15	1,728.41	1,643.31	85.10	20.309	
10,500.00	7,900.00	11,873.60	9,350.00	66.06	68.24	147.03	-36.22	-2,363.15	1,728.42	1,640.88	87.54	19.745	
10,600.00	7,900.00	11,973.60	9,350.00	68.14	70.27	147.03	-36.30	-2,463.15	1,728.42	1,638.43	90.00	19.205	
10,700.00	7,900.00	12,073.60	9,350.00	70.24	72.31	147.03	-36.38	-2,563.15	1,728.43	1,635.96	92.48	18.691	
10,800.00	7,900.00	12,173.60	9,350.00	72.34	74.37	147.02	-36.46	-2,663.15	1,728.44	1,633.46	94.98	18.199	
10,900.00	7,900.00	12,273.60	9,350.00	74.46	76.44	147.02	-36.54	-2,763.15	1,728.45	1,630.95	97.49	17.729	
11,000.00	7,900.00	12,373.60	9,350.00	76.59	78.53	147.02	-36.62	-2,863.15	1,728.45	1,628.43	100.03	17.280	
11,100.00	7,900.00	12,473.60	9,350.00	78.73	80.63	147.02	-36.70	-2,963.15	1,728.46	1,625.88	102.58	16.851	
11,200.00	7,900.00	12,573.60	9,350.00	80.88	82.74	147.02	-36.78	-3,063.15	1,728.47	1,623.33	105.14	16.440	
11,300.00	7,900.00	12,673.60	9,350.00	83.04	84.86	147.02	-36.86	-3,163.15	1,728.47	1,620.76	107.72	16.046	
11,400.00	7,900.00	12,773.60	9,350.00	85.20	86.99	147.02	-36.94	-3,263.15	1,728.48	1,618.17	110.31	15.670	
11,500.00	7,900.00	12,873.60	9,350.00	87.38	89.13	147.02	-37.02	-3,363.15	1,728.49	1,615.58	112.91	15.309	
11,600.00	7,900.00	12,973.60	9,350.00	89.56	91.27	147.02	-37.10	-3,463.15	1,728.49	1,612.97	115.52	14.963	
11,700.00	7,900.00	13,073.60	9,350.00	91.74	93.43	147.02	-37.18	-3,563.15	1,728.50	1,610.36	118.14	14.631	
11,800.00	7,900.00	13,173.60	9,350.00	93.93	95.59	147.02	-37.26	-3,663.15	1,728.51	1,607.74	120.77	14.312	
11,900.00	7,900.00	13,273.60	9,350.00	96.13	97.76	147.02	-37.34	-3,763.15	1,728.52	1,605.10	123.41	14.006	
12,000.00	7,900.00	13,373.60	9,350.00	98.33	99.93	147.02	-37.42	-3,863.15	1,728.52	1,602.46	126.06	13.712	
12,100.00	7,900.00	13,473.60	9,350.00	100.54	102.11	147.02	-37.50	-3,963.15	1,728.53	1,599.81	128.72	13.429	
12,200.00	7,900.00	13,573.60	9,350.00	102.75	104.30	147.02	-37.58	-4,063.15	1,728.54	1,597.15	131.38	13.156	
12,300.00	7,900.00	13,673.60	9,350.00	104.97	106.49	147.02	-37.66	-4,163.15	1,728.54	1,594.49	134.05	12.894	
12,400.00	7,900.00	13,773.60	9,350.00	107.18	108.68	147.02	-37.75	-4,263.15	1,728.55	1,591.82	136.73	12.642	
12,500.00	7,900.00	13,873.60	9,350.00	109.41	110.88	147.02	-37.83	-4,363.15	1,728.56	1,589.14	139.41	12.399	
12,600.00	7,900.00	13,973.60	9,350.00	111.63	113.09	147.02	-37.91	-4,463.15	1,728.56	1,586.46	142.10	12.164	
12,700.00	7,900.00	14,073.60	9,350.00	113.86	115.30	147.02	-37.99	-4,563.15	1,728.57	1,583.77	144.80	11.938	
12,700.10	7,900.00	14,073.70	9,350.00	113.86	115.30	147.02	-37.99	-4,563.25	1,728.57	1,583.77	144.80	11.938	
12,726.61	7,900.00	14,090.45	9,350.00	114.25	115.67	147.02	-38.00	-4,580.00	1,728.60	1,583.41	145.20	11.905	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #204H - OH - Prelim B													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)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	6.00	-6.00	0.00	0.01	171.09	-2,137.00	335.00	2,163.10				
100.00	100.00	106.00	94.00	0.13	0.15	171.09	-2,137.00	335.00	2,163.10	2,162.82	0.28	7,786.088	
200.00	200.00	206.00	194.00	0.49	0.51	171.09	-2,137.00	335.00	2,163.10	2,162.10	0.99	2,174.495	
300.00	300.00	306.00	294.00	0.85	0.87	171.09	-2,137.00	335.00	2,163.10	2,161.39	1.71	1,263.712	
400.00	400.00	406.00	394.00	1.20	1.23	171.09	-2,137.00	335.00	2,163.10	2,160.67	2.43	890.661	
500.00	500.00	506.00	494.00	1.56	1.58	171.09	-2,137.00	335.00	2,163.10	2,159.95	3.15	687.661	
600.00	600.00	606.00	594.00	1.92	1.94	171.09	-2,137.00	335.00	2,163.10	2,159.24	3.86	560.021	
700.00	700.00	706.00	694.00	2.28	2.30	171.09	-2,137.00	335.00	2,163.10	2,158.52	4.58	472.346	
800.00	800.00	806.00	794.00	2.64	2.66	171.09	-2,137.00	335.00	2,163.10	2,157.80	5.30	408.408	
900.00	900.00	906.00	894.00	3.00	3.02	171.09	-2,137.00	335.00	2,163.10	2,157.08	6.01	359.715	
1,000.00	1,000.00	1,006.00	994.00	3.35	3.38	171.09	-2,137.00	335.00	2,163.10	2,156.37	6.73	321.397	
1,100.00	1,100.00	1,106.00	1,094.00	3.71	3.73	171.09	-2,137.00	335.00	2,163.10	2,155.65	7.45	290.456	
1,200.00	1,200.00	1,206.00	1,194.00	4.07	4.09	171.09	-2,137.00	335.00	2,163.10	2,154.93	8.16	264.950	
1,300.00	1,300.00	1,306.00	1,294.00	4.43	4.45	171.09	-2,137.00	335.00	2,163.10	2,154.22	8.88	243.561	
1,400.00	1,400.00	1,394.00	1,394.00	4.79	4.77	171.09	-2,137.00	335.00	2,163.10	2,153.54	9.56	226.383	
1,500.00	1,500.00	1,543.97	1,543.95	5.15	5.30	171.07	-2,135.25	335.44	2,162.01	2,151.56	10.45	206.919	
1,600.00	1,599.98	1,696.78	1,696.65	5.49	5.85	14.76	-2,129.55	336.89	2,156.79	2,145.46	11.33	190.358	
1,700.00	1,699.84	1,813.72	1,813.38	5.82	6.27	14.78	-2,122.90	338.57	2,146.31	2,134.23	12.07	177.762	
1,800.00	1,799.45	1,912.73	1,912.21	6.15	6.62	14.85	-2,117.08	340.04	2,132.34	2,119.58	12.76	167.105	
1,900.00	1,898.70	2,011.22	2,010.52	6.49	6.98	14.96	-2,111.30	341.51	2,115.04	2,101.60	13.45	157.279	
2,000.00	1,997.47	2,109.05	2,108.17	6.83	7.33	15.12	-2,105.55	342.96	2,094.44	2,080.30	14.14	148.174	
2,100.00	2,095.82	2,206.37	2,205.31	7.19	7.68	15.21	-2,099.84	344.41	2,071.54	2,056.72	14.82	139.765	
2,200.00	2,194.17	2,303.66	2,302.43	7.56	8.03	15.28	-2,094.12	345.86	2,048.56	2,033.05	15.51	132.095	
2,300.00	2,292.51	2,400.96	2,399.55	7.93	8.38	15.34	-2,088.41	347.30	2,025.59	2,009.39	16.20	125.047	
2,400.00	2,390.85	2,501.74	2,496.66	8.31	8.75	15.41	-2,082.69	348.75	2,002.61	1,985.71	16.90	118.464	
2,500.00	2,489.20	2,595.55	2,593.78	8.70	9.09	15.48	-2,076.98	350.20	1,979.65	1,962.06	17.59	112.551	
2,600.00	2,587.54	2,707.15	2,690.90	9.09	9.49	15.56	-2,071.26	351.64	1,956.68	1,938.34	18.34	106.692	
2,700.00	2,685.89	2,809.86	2,788.02	9.49	9.86	15.63	-2,065.55	353.09	1,933.72	1,914.66	19.06	101.451	
2,800.00	2,784.23	2,887.44	2,885.13	9.89	10.15	15.71	-2,059.83	354.54	1,910.76	1,891.06	19.69	97.027	
2,900.00	2,882.57	2,984.74	2,982.25	10.29	10.50	15.79	-2,054.12	355.98	1,887.80	1,867.40	20.40	92.546	
3,000.00	2,980.92	3,082.03	3,079.37	10.70	10.85	15.87	-2,048.40	357.43	1,864.85	1,843.74	21.11	88.358	
3,100.00	3,079.26	3,179.33	3,176.49	11.11	11.21	15.95	-2,042.69	358.88	1,841.90	1,820.09	21.81	84.435	
3,200.00	3,177.60	3,276.63	3,273.60	11.52	11.56	16.04	-2,036.97	360.32	1,818.95	1,796.43	22.52	80.755	
3,300.00	3,275.95	3,373.92	3,370.72	11.93	11.91	16.12	-2,031.26	361.77	1,796.01	1,772.78	23.24	77.295	
3,400.00	3,374.29	3,471.22	3,467.84	12.35	12.27	16.21	-2,025.54	363.22	1,773.08	1,749.13	23.95	74.037	
3,500.00	3,472.63	3,568.52	3,564.96	12.76	12.62	16.30	-2,019.83	364.66	1,750.14	1,725.48	24.66	70.965	
3,600.00	3,570.98	3,665.81	3,662.08	13.18	12.98	16.40	-2,014.11	366.11	1,727.21	1,701.84	25.38	68.063	
3,700.00	3,669.32	3,763.11	3,759.19	13.60	13.33	16.49	-2,008.40	367.56	1,704.29	1,678.20	26.09	65.318	
3,800.00	3,767.66	3,860.41	3,856.31	14.02	13.69	16.59	-2,002.68	369.00	1,681.37	1,654.56	26.81	62.717	
3,900.00	3,866.01	3,957.70	3,953.43	14.44	14.04	16.69	-1,996.97	370.45	1,658.45	1,630.93	27.53	60.250	
4,000.00	3,964.35	4,055.00	4,050.55	14.87	14.39	16.80	-1,991.25	371.90	1,635.54	1,607.30	28.24	57.907	
4,100.00	4,062.70	4,152.29	4,147.66	15.29	14.75	16.90	-1,985.54	373.35	1,612.64	1,583.67	28.96	55.679	
4,200.00	4,161.04	4,249.59	4,244.78	15.72	15.10	17.01	-1,979.82	374.79	1,589.74	1,560.06	29.68	53.557	
4,300.00	4,259.38	4,346.89	4,341.90	16.14	15.46	17.13	-1,974.11	376.24	1,566.85	1,536.44	30.40	51.535	
4,400.00	4,357.73	4,444.18	4,439.02	16.57	15.81	17.25	-1,968.39	377.69	1,543.96	1,512.83	31.12	49.606	
4,500.00	4,456.07	4,541.48	4,536.13	17.00	16.17	17.37	-1,962.68	379.13	1,521.08	1,489.23	31.85	47.764	
4,600.00	4,554.41	4,638.78	4,633.25	17.43	16.52	17.49	-1,956.96	380.58	1,498.20	1,465.63	32.57	46.002	
4,700.00	4,652.76	4,736.07	4,730.37	17.86	16.88	17.62	-1,951.25	382.03	1,475.33	1,442.04	33.29	44.316	
4,800.00	4,751.10	4,833.37	4,827.49	18.29	17.23	17.75	-1,945.53	383.47	1,452.47	1,418.46	34.01	42.701	
4,900.00	4,849.44	4,930.67	4,924.60	18.72	17.59	17.89	-1,939.82	384.92	1,429.62	1,394.88	34.74	41.154	
5,000.00	4,947.79	5,027.96	5,021.72	19.15	17.94	18.03	-1,934.10	386.37	1,406.78	1,371.31	35.46	39.668	
5,100.00	5,046.13	5,125.26	5,118.84	19.58	18.30	18.17	-1,928.39	387.81	1,383.94	1,347.75	36.19	38.242	

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

Pro Directional

Anticollision Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Stebbins Federal 19
 Site Error: 3.30 usft
 Reference Well: #127H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
 TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim B													Offset Site Error: 3.30 usft
Survey Program: 30-MWD-HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Reference Depth (usft)	Measured Depth (usft)	Offset Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,144.47	5,222.56	5,215.96	20.01	18.65	18.32	-1,922.67	389.26	1,361.11	1,324.20	36.91	36.872	
5,300.00	5,242.82	5,319.85	5,313.08	20.44	19.01	18.48	-1,916.96	390.71	1,338.29	1,300.65	37.64	35.554	
5,400.00	5,341.16	5,417.15	5,410.19	20.87	19.36	18.64	-1,911.24	392.15	1,315.48	1,277.12	38.37	34.286	
5,500.00	5,439.51	5,500.00	5,492.91	21.31	19.67	18.79	-1,906.74	393.29	1,293.12	1,254.04	39.08	33.092	
5,600.00	5,537.85	5,581.12	5,573.96	21.74	19.96	18.95	-1,903.42	394.13	1,272.03	1,232.25	39.78	31.976	
5,700.00	5,636.19	5,662.17	5,654.98	22.17	20.25	19.14	-1,901.22	394.69	1,252.26	1,211.78	40.48	30.935	
5,800.00	5,734.54	5,743.60	5,736.40	22.61	20.54	19.35	-1,900.13	394.97	1,233.82	1,192.65	41.18	29.963	
5,900.00	5,832.88	5,834.08	5,826.88	23.04	20.86	19.61	-1,900.00	395.00	1,216.56	1,174.66	41.89	29.038	
6,000.00	5,931.22	5,932.42	5,925.22	23.48	21.21	19.90	-1,900.00	395.00	1,199.46	1,156.83	42.63	28.137	
6,100.00	6,029.57	6,030.77	6,023.57	23.91	21.55	20.20	-1,900.00	395.00	1,182.40	1,139.04	43.37	27.266	
6,200.00	6,127.91	6,129.11	6,121.91	24.34	21.90	20.50	-1,900.00	395.00	1,165.38	1,121.27	44.10	26.424	
6,300.00	6,226.25	6,227.45	6,220.25	24.78	22.25	20.82	-1,900.00	395.00	1,148.38	1,103.54	44.84	25.610	
6,400.00	6,324.60	6,325.80	6,318.60	25.21	22.60	21.14	-1,900.00	395.00	1,131.42	1,085.84	45.58	24.822	
6,500.00	6,422.94	6,424.14	6,416.94	25.65	22.95	21.48	-1,900.00	395.00	1,114.50	1,068.18	46.32	24.060	
6,600.00	6,521.28	6,522.48	6,515.28	26.09	23.30	21.83	-1,900.00	395.00	1,097.61	1,050.55	47.06	23.323	
6,700.00	6,619.63	6,620.83	6,613.63	26.52	23.64	22.18	-1,900.00	395.00	1,080.77	1,032.96	47.80	22.608	
6,800.00	6,717.97	6,719.17	6,711.97	26.96	23.99	22.55	-1,900.00	395.00	1,063.97	1,015.42	48.55	21.915	
6,900.00	6,816.32	6,817.52	6,810.32	27.39	24.34	22.92	-1,900.00	395.00	1,047.22	997.93	49.29	21.244	
7,000.00	6,915.01	6,916.21	6,909.01	27.82	24.69	23.15	-1,900.00	395.00	1,032.37	982.33	50.04	20.633	
7,100.00	7,014.20	7,015.40	7,008.20	28.22	25.04	23.33	-1,900.00	395.00	1,020.73	969.96	50.77	20.105	
7,200.00	7,113.77	7,114.97	7,107.77	28.59	25.40	23.47	-1,900.00	395.00	1,012.29	960.80	51.49	19.659	
7,300.00	7,213.60	7,214.80	7,207.60	28.94	25.75	23.56	-1,900.00	395.00	1,007.06	954.86	52.21	19.290	
7,400.00	7,313.57	7,314.77	7,307.57	29.27	26.11	23.59	-1,900.00	395.00	1,005.03	952.12	52.91	18.996	
7,500.00	7,413.24	7,414.44	7,407.24	29.56	26.46	-84.25	-1,900.00	395.00	1,004.32	950.76	53.56	18.753	
7,600.00	7,510.29	7,511.50	7,504.29	29.82	26.81	-85.76	-1,900.00	395.00	1,002.21	948.08	54.13	18.515	
7,700.00	7,601.78	7,602.98	7,595.78	30.04	27.13	-88.08	-1,900.00	395.00	999.88	945.24	54.63	18.301	
7,771.54	7,662.26	7,663.46	7,656.26	30.16	27.35	-90.00	-1,900.00	395.00	999.15	944.18	54.97	18.177 CC, ES	
7,800.00	7,684.91	7,686.11	7,678.91	30.21	27.43	-90.77	-1,900.00	395.00	999.30	944.20	55.10	18.137	
7,900.00	7,757.17	7,758.37	7,751.17	30.33	27.68	-93.26	-1,900.00	395.00	1,002.86	947.29	55.57	18.048	
8,000.00	7,816.37	7,817.57	7,810.37	30.41	27.89	-94.96	-1,900.00	395.00	1,012.94	956.85	56.09	18.058	
8,100.00	7,860.69	7,861.89	7,854.69	30.44	28.05	-95.33	-1,900.00	395.00	1,031.45	974.73	56.72	18.185	
8,200.00	7,888.80	7,890.00	7,882.80	30.45	28.15	-93.96	-1,900.00	395.00	1,059.32	1,001.87	57.45	18.440	
8,300.00	7,899.84	7,901.04	7,893.84	30.47	28.19	-90.61	-1,900.00	395.00	1,096.30	1,038.07	58.23	18.828	
8,400.00	7,900.00	7,901.20	7,894.00	30.88	28.19	-90.00	-1,900.00	395.00	1,142.24	1,083.21	59.03	19.350	
8,500.00	7,900.00	7,901.20	7,894.00	31.76	28.19	-90.00	-1,900.00	395.00	1,197.64	1,137.80	59.84	20.014	
8,600.00	7,900.00	7,901.20	7,894.00	32.80	28.19	-90.00	-1,900.00	395.00	1,261.23	1,200.62	60.61	20.810	
8,700.00	7,900.00	7,901.20	7,894.00	33.97	28.19	-90.00	-1,900.00	395.00	1,331.08	1,269.78	61.31	21.712	
8,800.00	7,900.00	7,901.20	7,894.00	35.25	28.19	-90.00	-1,900.00	395.00	1,404.67	1,342.72	61.95	22.676	
8,900.00	7,900.00	7,901.20	7,894.00	36.63	28.19	-90.00	-1,900.00	395.00	1,481.35	1,418.83	62.52	23.692	
9,000.00	7,900.00	7,901.20	7,894.00	38.09	28.19	-90.00	-1,900.00	395.00	1,560.67	1,497.63	63.05	24.754	
9,100.00	7,900.00	7,901.20	7,894.00	39.64	28.19	-90.00	-1,900.00	395.00	1,642.26	1,578.74	63.51	25.856	
9,200.00	7,900.00	7,901.20	7,894.00	41.25	28.19	-90.00	-1,900.00	395.00	1,725.78	1,661.84	63.94	26.993	
9,300.00	7,900.00	10,668.97	9,310.63	42.93	47.58	-145.01	-1,967.37	-1,184.17	1,729.32	1,670.71	58.61	29.505	
9,400.00	7,900.00	10,768.95	9,309.06	44.66	49.26	-144.98	-1,967.42	-1,284.14	1,728.00	1,667.25	60.75	28.444	
9,500.00	7,900.00	10,868.94	9,307.49	46.44	50.99	-144.95	-1,967.47	-1,384.12	1,726.69	1,663.73	62.96	27.424	
9,600.00	7,900.00	10,968.93	9,305.92	48.27	52.76	-144.92	-1,967.51	-1,484.09	1,725.38	1,660.14	65.24	26.447	
9,700.00	7,900.00	11,068.92	9,304.35	50.14	54.57	-144.90	-1,967.56	-1,584.07	1,724.07	1,656.50	67.57	25.515	
9,800.00	7,900.00	11,178.66	9,302.50	52.04	56.60	-144.86	-1,967.61	-1,693.79	1,722.68	1,652.62	70.06	24.590	
9,900.00	7,900.00	11,278.63	9,300.24	53.97	58.48	-144.82	-1,967.66	-1,793.74	1,720.81	1,648.30	72.51	23.733	
10,000.00	7,900.00	11,378.60	9,297.98	55.93	60.40	-144.78	-1,967.71	-1,893.69	1,718.93	1,643.93	75.00	22.920	
10,100.00	7,900.00	11,478.58	9,295.72	57.91	62.34	-144.74	-1,967.76	-1,993.64	1,717.06	1,639.53	77.53	22.148	
10,200.00	7,900.00	11,578.55	9,293.46	59.92	64.30	-144.69	-1,967.80	-2,093.58	1,715.18	1,635.09	80.10	21.414	

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

Pro Directional

Anticollision Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Stebbins Federal 19
 Site Error: 3.30 usft
 Reference Well: #127H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
 TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #204H - OH - Prelim B													Offset Site Error: 3.30 usft
Survey Program: 40-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 Depth (usft)	Offset Depth (usft)		N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,300.00	7,900.00	11,678.53	9,291.19	61.95	66.29	-144.65	-1,967.85	-2,193.53	1,713.31	1,630.61	82.70	20.718	
10,400.00	7,900.00	11,778.50	9,288.93	64.00	68.30	-144.61	-1,967.90	-2,293.48	1,711.44	1,626.11	85.33	20.056	
10,500.00	7,900.00	11,878.48	9,286.67	66.06	70.32	-144.57	-1,967.95	-2,393.43	1,709.57	1,621.58	87.99	19.428	
10,600.00	7,900.00	11,978.45	9,284.41	68.14	72.36	-144.52	-1,968.00	-2,493.38	1,707.70	1,617.02	90.68	18.832	
10,700.00	7,900.00	12,078.43	9,282.15	70.24	74.42	-144.48	-1,968.04	-2,593.33	1,705.83	1,612.44	93.40	18.264	
10,800.00	7,900.00	12,178.40	9,279.89	72.34	76.49	-144.44	-1,968.09	-2,693.28	1,703.97	1,607.83	96.13	17.725	
10,900.00	7,900.00	12,278.37	9,277.63	74.46	78.58	-144.39	-1,968.14	-2,793.23	1,702.10	1,603.21	98.89	17.211	
11,000.00	7,900.00	12,378.35	9,275.37	76.59	80.67	-144.35	-1,968.19	-2,893.17	1,700.24	1,598.56	101.67	16.722	
11,100.00	7,900.00	12,478.32	9,273.10	78.73	82.78	-144.31	-1,968.23	-2,993.12	1,698.37	1,593.90	104.47	16.257	
11,200.00	7,900.00	12,578.30	9,270.84	80.88	84.90	-144.26	-1,968.28	-3,093.07	1,696.51	1,589.22	107.29	15.812	
11,300.00	7,900.00	12,678.27	9,268.58	83.04	87.03	-144.22	-1,968.33	-3,193.02	1,694.65	1,584.52	110.13	15.388	
11,400.00	7,900.00	12,778.25	9,266.32	85.20	89.17	-144.18	-1,968.38	-3,292.97	1,692.78	1,579.81	112.98	14.984	
11,500.00	7,900.00	12,878.22	9,264.06	87.38	91.31	-144.13	-1,968.42	-3,392.92	1,690.92	1,575.08	115.84	14.597	
11,600.00	7,900.00	12,978.20	9,261.80	89.56	93.46	-144.09	-1,968.47	-3,492.87	1,689.06	1,570.34	118.72	14.227	
11,700.00	7,900.00	13,078.17	9,259.54	91.74	95.62	-144.05	-1,968.52	-3,592.82	1,687.21	1,565.59	121.62	13.873	
11,800.00	7,900.00	13,178.14	9,257.28	93.93	97.79	-144.00	-1,968.57	-3,692.77	1,685.35	1,560.82	124.53	13.534	
11,900.00	7,900.00	13,278.12	9,255.01	96.13	99.96	-143.96	-1,968.62	-3,792.71	1,683.49	1,556.04	127.45	13.209	
12,000.00	7,900.00	13,378.09	9,252.75	98.33	102.14	-143.91	-1,968.66	-3,892.66	1,681.64	1,551.25	130.38	12.898	
12,100.00	7,900.00	13,478.07	9,250.49	100.54	104.33	-143.87	-1,968.71	-3,992.61	1,679.78	1,546.45	133.33	12.599	
12,200.00	7,900.00	13,578.04	9,248.23	102.75	106.52	-143.83	-1,968.76	-4,092.56	1,677.93	1,541.64	136.29	12.312	
12,300.00	7,900.00	13,678.02	9,245.97	104.97	108.71	-143.78	-1,968.81	-4,192.51	1,676.08	1,536.82	139.26	12.036	
12,400.00	7,900.00	13,777.99	9,243.71	107.18	110.91	-143.74	-1,968.85	-4,292.46	1,674.22	1,531.99	142.23	11.771	
12,500.00	7,900.00	13,877.96	9,241.45	109.41	113.11	-143.69	-1,968.90	-4,392.41	1,672.37	1,527.15	145.22	11.516	
12,600.00	7,900.00	13,977.94	9,239.19	111.63	115.32	-143.65	-1,968.95	-4,492.36	1,670.53	1,522.30	148.22	11.270	
12,700.00	7,900.00	14,077.91	9,236.92	113.86	117.53	-143.60	-1,969.00	-4,592.30	1,668.68	1,517.44	151.23	11.034	
12,726.61	7,900.00	14,104.51	9,236.32	114.25	118.12	-143.59	-1,969.01	-4,618.90	1,668.19	1,516.33	151.86	10.985 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
 Project: Eddy County, NM (NAD27)
 Reference Site: Stebbins Federal 19
 Site Error: 3.30 usft
 Reference Well: #127H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
 TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #227H - OH - Prelim D													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 Vertical Depth (usft)	Measured 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	1.00	-1.00	0.00	0.00	44.06	31.00	30.00	43.14	42.88	0.26	165.989	
100.00	100.00	101.00	99.00	0.13	0.13	44.06	31.00	30.00	43.14	42.16	0.98	44.162	
200.00	200.00	201.00	199.00	0.49	0.49	44.06	31.00	30.00	43.14	41.45	1.69	25.469	
300.00	300.00	301.00	299.00	0.85	0.85	44.06	31.00	30.00	43.14	40.73	2.41	17.895	
400.00	400.00	401.00	399.00	1.20	1.21	44.06	31.00	30.00	43.14	40.01	3.13	13.793	
500.00	500.00	501.00	499.00	1.56	1.57	44.06	31.00	30.00	43.14	39.29	3.84	11.221	
600.00	600.00	601.00	599.00	1.92	1.92	44.06	31.00	30.00	43.14	38.58	4.56	9.457	
700.00	700.00	701.00	699.00	2.28	2.28	44.06	31.00	30.00	43.14	37.86	5.28	8.173	
800.00	800.00	801.00	799.00	2.64	2.64	44.06	31.00	30.00	43.14	37.14	6.00	7.195	
900.00	900.00	901.00	899.00	3.00	3.00	44.06	31.00	30.00	43.14	36.43	6.71	6.427	
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	44.06	31.00	30.00	43.14	35.71	7.43	5.807	
1,100.00	1,100.00	1,101.00	1,099.00	4.07	4.07	44.06	31.00	30.00	43.14	34.99	8.15	5.296	
1,200.00	1,200.00	1,201.00	1,199.00	4.43	4.43	44.06	31.00	30.00	43.14	34.28	8.86	4.867	
1,300.00	1,300.00	1,301.00	1,299.00	4.79	4.79	44.06	31.00	30.00	43.14	33.56	9.58	4.503	
1,400.00	1,400.00	1,401.00	1,399.00	5.15	5.15	44.06	31.00	30.00	43.14	32.84	10.30	4.189 CC	
1,500.00	1,500.00	1,501.00	1,499.00	5.49	5.51	-114.33	31.00	30.00	43.83	32.83	11.00	3.986 ES	
1,600.00	1,599.98	1,601.02	1,598.98	5.82	5.87	-120.20	31.00	30.00	46.23	34.55	11.68	3.957 SF	
1,700.00	1,699.84	1,701.16	1,698.84	6.15	6.22	-128.57	31.00	30.00	51.18	38.82	12.36	4.139	
1,800.00	1,799.45	1,798.45	1,798.45	6.49	6.56	-137.14	30.23	30.35	58.96	45.91	13.04	4.520	
1,900.00	1,898.70	1,898.44	1,898.44	6.83	6.89	-144.42	27.87	31.42	69.17	55.46	13.71	5.046	
2,000.00	1,997.47	1,998.44	1,998.40	7.19	7.22	-150.09	23.92	33.22	80.82	66.44	14.37	5.622	
2,100.00	2,095.82	2,098.59	2,098.45	7.56	7.55	-153.87	18.35	35.76	91.57	76.52	15.04	6.087	
2,200.00	2,194.17	2,199.18	2,198.86	7.93	7.89	-156.44	11.14	39.04	101.03	85.31	15.72	6.427	
2,300.00	2,292.51	2,300.18	2,299.54	8.31	8.23	-158.21	2.29	43.08	109.02	92.62	16.40	6.649	
2,400.00	2,390.85	2,401.51	2,400.41	8.70	8.59	-159.42	-8.21	47.86	115.45	98.38	17.08	6.761	
2,500.00	2,489.20	2,503.13	2,501.36	9.09	8.94	-160.20	-20.37	53.40	120.27	102.51	17.76	6.772	
2,600.00	2,587.54	2,604.96	2,602.31	9.49	9.30	-160.74	-33.32	59.29	124.08	105.62	18.46	6.721	
2,700.00	2,685.89	2,705.12	2,701.46	9.89	9.66	-161.25	-46.24	65.18	127.90	108.73	19.17	6.672	
2,800.00	2,784.23	2,805.04	2,800.36	10.29	10.03	-161.72	-59.16	71.07	131.72	111.84	19.88	6.625	
2,900.00	2,882.57	2,904.96	2,899.27	10.70	10.39	-162.17	-72.09	76.95	135.55	114.96	20.60	6.581	
3,000.00	2,980.92	3,004.88	2,998.18	11.11	10.76	-162.59	-85.01	82.84	139.39	118.08	21.31	6.540	
3,100.00	3,079.26	3,104.80	3,097.08	11.52	11.14	-162.99	-97.94	88.72	143.24	121.20	22.03	6.501	
3,200.00	3,177.60	3,204.72	3,195.99	11.93	11.51	-163.37	-110.86	94.61	147.09	124.34	22.75	6.464	
3,300.00	3,275.95	3,304.64	3,294.90	12.35	11.89	-163.73	-123.78	100.50	150.95	127.47	23.48	6.429	
3,400.00	3,374.29	3,404.56	3,393.80	12.76	12.27	-164.08	-136.71	106.38	154.81	130.61	24.20	6.396	
3,500.00	3,472.63	3,504.48	3,492.71	13.18	12.66	-164.40	-149.63	112.27	158.68	133.75	24.93	6.365	
3,600.00	3,570.98	3,604.41	3,591.62	13.60	13.04	-164.71	-162.55	118.16	162.56	136.90	25.66	6.335	
3,700.00	3,669.32	3,704.33	3,690.52	14.02	13.43	-165.01	-175.48	124.04	166.44	140.05	26.39	6.307	
3,800.00	3,767.66	3,804.25	3,789.43	14.44	13.81	-165.29	-188.40	129.93	170.32	143.20	27.12	6.280	
3,900.00	3,866.01	3,904.17	3,888.34	14.87	14.20	-165.56	-201.32	135.81	174.21	146.36	27.85	6.255	
4,000.00	3,964.35	4,004.09	3,987.24	15.29	14.59	-165.82	-214.25	141.70	178.10	149.52	28.59	6.230	
4,100.00	4,062.70	4,104.01	4,086.15	15.72	14.99	-166.06	-227.17	147.59	182.00	152.68	29.32	6.207	
4,200.00	4,161.04	4,203.93	4,185.06	16.14	15.38	-166.30	-240.10	153.47	185.89	155.84	30.06	6.185	
4,300.00	4,259.38	4,303.85	4,283.97	16.57	15.77	-166.53	-253.02	159.36	189.80	159.00	30.79	6.164	
4,400.00	4,357.73	4,403.77	4,382.87	17.00	16.16	-166.75	-265.94	165.24	193.70	162.17	31.53	6.144	
4,500.00	4,456.07	4,503.70	4,481.78	17.43	16.56	-166.95	-278.87	171.13	197.61	165.34	32.27	6.124	
4,600.00	4,554.41	4,603.62	4,580.69	17.86	16.96	-167.16	-291.79	177.02	201.51	168.51	33.00	6.106	
4,700.00	4,652.76	4,703.54	4,679.59	18.29	17.35	-167.35	-304.71	182.90	205.43	171.68	33.74	6.088	
4,800.00	4,751.10	4,803.46	4,778.50	18.72	17.75	-167.53	-317.64	188.79	209.34	174.86	34.48	6.071	
4,900.00	4,849.44	4,903.38	4,877.41	19.15	18.15	-167.71	-330.56	194.68	213.26	178.03	35.22	6.055	
5,000.00	4,947.79	5,003.30	4,976.31	19.58	18.55	-167.89	-343.48	200.56	217.17	181.21	35.96	6.039	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #227H - OH - Prelim D													Offset Site Error: 3.30 usft
Survey Program: 0-MWD-HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,144.47	5,203.14	5,174.13	20.01	18.94	-168.05	-356.41	206.45	221.09	184.39	36.70	6.024	
5,300.00	5,242.82	5,303.07	5,273.03	20.44	19.34	-168.21	-369.33	212.33	225.01	187.57	37.44	6.009	
5,400.00	5,341.16	5,402.99	5,371.94	20.87	19.74	-168.37	-382.26	218.22	228.94	190.75	38.19	5.995	
5,500.00	5,439.51	5,502.91	5,470.85	21.31	20.14	-168.52	-395.18	224.11	232.86	193.94	38.93	5.982	
5,600.00	5,537.85	5,602.83	5,569.75	21.74	20.54	-168.66	-408.10	229.99	236.79	197.12	39.67	5.969	
5,700.00	5,636.19	5,702.75	5,668.66	22.17	20.95	-168.80	-421.03	235.88	240.72	200.30	40.41	5.957	
5,800.00	5,734.54	5,802.67	5,767.57	22.61	21.35	-168.94	-433.95	241.77	244.65	203.49	41.16	5.944	
5,900.00	5,832.88	5,902.59	5,866.47	23.04	21.75	-169.07	-446.87	247.65	248.58	206.68	41.90	5.933	
6,000.00	5,931.22	6,002.51	5,965.38	23.48	22.15	-169.20	-459.80	253.54	252.51	209.87	42.64	5.922	
6,100.00	6,029.57	6,102.43	6,064.29	23.91	22.55	-169.32	-472.72	259.42	256.44	213.06	43.39	5.911	
6,200.00	6,127.91	6,202.36	6,163.20	24.34	22.96	-169.44	-485.64	265.31	260.38	216.25	44.13	5.900	
6,300.00	6,226.25	6,302.28	6,262.10	24.78	23.36	-169.56	-498.57	271.20	264.31	219.44	44.88	5.890	
6,400.00	6,324.60	6,402.20	6,361.01	25.21	23.76	-169.67	-511.49	277.08	268.25	222.63	45.62	5.880	
6,500.00	6,422.94	6,502.12	6,459.92	25.65	24.17	-169.78	-524.42	282.97	272.18	225.82	46.37	5.870	
6,600.00	6,521.28	6,602.04	6,558.82	26.09	24.57	-169.89	-537.34	288.85	276.12	229.01	47.11	5.861	
6,700.00	6,619.63	6,701.96	6,657.73	26.52	24.98	-169.99	-550.26	294.74	280.06	232.21	47.86	5.852	
6,800.00	6,717.97	6,801.88	6,756.64	26.96	25.38	-170.09	-563.19	300.63	284.00	235.40	48.60	5.843	
6,900.00	6,816.32	6,901.80	6,855.54	27.39	25.79	-170.19	-576.11	306.51	287.93	238.58	49.35	5.835	
7,000.00	6,915.01	7,001.78	6,954.50	27.82	26.19	-170.22	-589.04	312.40	289.85	239.76	50.09	5.786	
7,100.00	7,014.20	7,101.76	7,053.47	28.22	26.60	-170.13	-601.97	318.29	288.34	237.51	50.83	5.672	
7,200.00	7,113.77	7,201.63	7,152.33	28.59	27.00	-169.90	-614.89	324.18	283.39	231.82	51.57	5.496	
7,300.00	7,213.60	7,301.26	7,250.94	28.94	27.41	-169.51	-627.77	330.04	275.02	222.72	52.30	5.259	
7,400.00	7,313.57	7,400.53	7,349.21	29.27	27.81	-168.95	-640.61	335.89	263.25	210.23	53.02	4.965	
7,500.00	7,413.24	7,501.10	7,446.58	29.56	28.22	87.07	-653.34	341.69	248.87	195.10	53.77	4.628	
7,600.00	7,510.29	7,606.08	7,540.64	29.82	28.64	94.74	-665.63	347.28	235.31	180.61	54.69	4.302	
7,696.15	7,598.39	7,679.43	7,625.28	30.03	28.94	104.89	-676.69	352.32	229.15	173.37	55.79	4.108	
7,700.00	7,601.78	7,682.70	7,628.51	30.04	28.95	105.32	-677.11	352.51	229.16	173.32	55.84	4.104	
7,800.00	7,684.91	7,762.54	7,707.54	30.21	29.28	116.05	-687.44	357.22	239.72	182.38	57.34	4.181	
7,900.00	7,757.17	7,831.01	7,775.31	30.33	29.56	124.16	-696.29	361.25	273.64	214.90	58.74	4.659	
8,000.00	7,816.37	7,886.03	7,829.78	30.41	29.78	128.05	-703.41	364.49	330.57	270.90	59.67	5.540	
8,100.00	7,860.69	7,925.93	7,869.28	30.44	29.94	126.56	-708.57	366.84	405.31	345.14	60.17	6.736	
8,200.00	7,888.80	7,949.50	7,892.61	30.45	30.04	117.03	-711.62	368.23	491.87	431.50	60.38	8.147	
8,300.00	7,899.84	7,956.03	7,899.07	30.47	30.07	94.13	-712.46	368.62	585.01	524.60	60.41	9.684	
8,400.00	7,900.00	7,951.58	7,894.66	30.88	30.05	88.78	-711.89	368.35	680.28	619.91	60.36	11.270	
8,500.00	7,900.00	7,946.50	7,889.64	31.76	30.03	87.65	-711.23	368.05	775.80	715.49	60.31	12.864	
8,600.00	7,900.00	7,940.97	7,884.16	32.80	30.00	86.69	-710.51	367.73	871.38	811.13	60.25	14.463	
8,700.00	7,900.00	7,935.10	7,878.35	33.97	29.98	85.54	-709.76	367.38	967.16	906.97	60.19	16.069	
8,800.00	7,900.00	7,929.22	7,872.54	35.25	29.96	84.31	-709.00	367.04	1,063.66	1,003.52	60.14	17.687	
8,900.00	7,900.00	7,923.35	7,866.72	36.63	29.93	83.08	-708.23	366.69	1,160.72	1,100.63	60.09	19.317	
9,000.00	7,900.00	7,917.47	7,860.90	38.09	29.91	81.88	-707.47	366.34	1,258.21	1,198.17	60.05	20.954	
9,100.00	7,900.00	7,911.59	7,855.08	39.64	29.89	80.68	-706.71	366.00	1,356.05	1,296.04	60.01	22.598	
9,200.00	7,900.00	10,621.00	9,330.00	41.25	44.85	-179.97	-976.36	-1,062.40	1,431.00	1,392.48	38.52	37.146	
9,300.00	7,900.00	10,721.00	9,330.00	42.93	46.37	-179.97	-976.43	-1,162.40	1,431.00	1,391.50	39.51	36.220	
9,400.00	7,900.00	10,821.00	9,330.00	44.66	47.96	-179.98	-976.51	-1,262.40	1,431.00	1,390.48	40.53	35.308	
9,500.00	7,900.00	10,921.00	9,330.00	46.44	49.61	-179.98	-976.58	-1,362.40	1,431.00	1,389.42	41.58	34.413	
9,600.00	7,900.00	11,021.00	9,330.00	48.27	51.31	-179.98	-976.66	-1,462.40	1,431.00	1,388.33	42.67	33.536	
9,700.00	7,900.00	11,121.00	9,330.00	50.14	53.05	-179.98	-976.73	-1,562.40	1,431.00	1,387.22	43.79	32.682	
9,800.00	7,900.00	11,221.00	9,330.00	52.04	54.83	-179.98	-976.81	-1,662.40	1,431.00	1,386.08	44.93	31.851	
9,900.00	7,900.00	11,321.00	9,330.00	53.97	56.66	-179.98	-976.88	-1,762.40	1,431.00	1,384.91	46.10	31.045	
10,000.00	7,900.00	11,421.00	9,330.00	55.93	58.51	-179.98	-976.96	-1,862.40	1,431.00	1,383.72	47.29	30.263	
10,100.00	7,900.00	11,521.00	9,330.00	57.91	60.40	-179.98	-977.03	-1,962.40	1,431.00	1,382.51	48.50	29.507	
10,200.00	7,900.00	11,621.00	9,330.00	59.92	62.32	-179.98	-977.11	-2,062.40	1,431.00	1,381.27	49.73	28.776	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 - #227H - OH - Prelim D												Offset Site Error:	3.30 usft
Survey Program: O-MWD-HDGM												Offset Well Error:	0.00 usft
Measured Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	+N-S (usft)	-E-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor			
10,300.00	7,900.00	11,721.00	9,330.00	61.95	64.26	-179.98	-977.18	-2,162.40	1,431.00	1,380.02	50.98	28.070	
10,400.00	7,900.00	11,821.00	9,330.00	64.00	66.23	-179.98	-977.26	-2,262.40	1,431.00	1,378.76	52.25	27.390	
10,500.00	7,900.00	11,921.00	9,330.00	66.06	68.21	-179.98	-977.33	-2,362.40	1,431.00	1,377.47	53.53	26.733	
10,600.00	7,900.00	12,021.00	9,330.00	68.14	70.22	-179.98	-977.41	-2,462.40	1,431.00	1,376.18	54.83	26.100	
10,700.00	7,900.00	12,121.00	9,330.00	70.24	72.24	-179.99	-977.48	-2,562.40	1,431.00	1,374.86	56.14	25.490	
10,800.00	7,900.00	12,221.00	9,330.00	72.34	74.28	-179.99	-977.56	-2,662.40	1,431.00	1,373.54	57.46	24.903	
10,900.00	7,900.00	12,321.00	9,330.00	74.46	76.34	-179.99	-977.63	-2,762.40	1,431.00	1,372.20	58.80	24.337	
11,000.00	7,900.00	12,421.00	9,330.00	76.59	78.41	-179.99	-977.71	-2,862.40	1,431.00	1,370.85	60.15	23.792	
11,100.00	7,900.00	12,521.00	9,330.00	78.73	80.49	-179.99	-977.78	-2,962.40	1,431.00	1,369.50	61.51	23.266	
11,200.00	7,900.00	12,621.00	9,330.00	80.88	82.59	-179.99	-977.86	-3,062.40	1,431.00	1,368.13	62.87	22.760	
11,300.00	7,900.00	12,721.00	9,330.00	83.04	84.69	-179.99	-977.93	-3,162.40	1,431.00	1,366.75	64.25	22.272	
11,400.00	7,900.00	12,821.00	9,330.00	85.20	86.81	-179.99	-978.01	-3,262.40	1,431.00	1,365.37	65.64	21.802	
11,500.00	7,900.00	12,921.00	9,330.00	87.38	88.94	-179.99	-978.08	-3,362.40	1,431.00	1,363.97	67.03	21.349	
11,600.00	7,900.00	13,021.00	9,330.00	89.56	91.07	-179.99	-978.16	-3,462.40	1,431.00	1,362.57	68.43	20.912	
11,700.00	7,900.00	13,121.00	9,330.00	91.74	93.21	-179.99	-978.23	-3,562.40	1,431.00	1,361.16	69.84	20.490	
11,800.00	7,900.00	13,221.00	9,330.00	93.93	95.36	-179.99	-978.31	-3,662.40	1,431.00	1,359.75	71.25	20.083	
11,900.00	7,900.00	13,321.00	9,330.00	96.13	97.52	-179.99	-978.38	-3,762.40	1,431.00	1,358.32	72.68	19.690	
12,000.00	7,900.00	13,421.00	9,330.00	98.33	99.69	-179.99	-978.46	-3,862.40	1,431.00	1,356.90	74.10	19.311	
12,100.00	7,900.00	13,521.00	9,330.00	100.54	101.86	-180.00	-978.53	-3,962.40	1,431.00	1,355.46	75.54	18.944	
12,200.00	7,900.00	13,621.00	9,330.00	102.75	104.03	-180.00	-978.61	-4,062.40	1,431.00	1,354.03	76.97	18.590	
12,300.00	7,900.00	13,721.00	9,330.00	104.97	106.22	-180.00	-978.68	-4,162.40	1,431.00	1,352.58	78.42	18.248	
12,400.00	7,900.00	13,821.00	9,330.00	107.18	108.40	-180.00	-978.76	-4,262.40	1,431.00	1,351.13	79.87	17.917	
12,500.00	7,900.00	13,921.00	9,330.00	109.41	110.60	-180.00	-978.83	-4,362.40	1,431.00	1,349.68	81.32	17.597	
12,600.00	7,900.00	14,021.00	9,330.00	111.63	112.79	-180.00	-978.91	-4,462.40	1,431.00	1,348.22	82.78	17.288	
12,700.00	7,900.00	14,121.00	9,330.00	113.86	114.99	-180.00	-978.98	-4,562.40	1,431.00	1,346.76	84.24	16.988	
12,726.61	7,900.00	14,147.61	9,330.00	114.25	115.58	180.00	-979.00	-4,589.00	1,431.00	1,346.47	84.53	16.930	

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 - No. 124H - OH - OH Surveys 98'-12354' PTB 12417'													Offset Site Error: 3.30 usft
Survey Program: 98-GYRO-NS-CT 1243-MWD-HDGM													Offset Well Error: 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)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	1.10	171.19		-2,167.00	336.00	2,192.91			
100.00	100.00	89.35	89.35	0.13	1.11	171.19		-2,167.08	335.99	2,192.97	2,191.74	1.23	1,777.412
200.00	200.00	180.42	180.42	0.49	1.17	171.19		-2,167.42	335.91	2,193.33	2,191.67	1.66	1,320.506
300.00	300.00	259.86	259.86	0.85	1.30	171.19		-2,168.23	335.89	2,194.34	2,192.20	2.14	1,023.541
400.00	400.00	341.09	341.07	1.20	1.47	171.19		-2,169.78	336.33	2,196.31	2,193.63	2.67	821.341
500.00	500.00	440.37	440.31	1.56	1.73	171.15		-2,172.07	338.09	2,198.86	2,195.57	3.28	689.383
600.00	600.00	579.54	579.41	1.92	2.14	171.06		-2,173.78	341.85	2,200.54	2,196.49	4.05	543.487
700.00	700.00	693.57	693.39	2.28	2.49	170.97		-2,173.35	345.23	2,200.60	2,195.84	4.77	461.748
702.46	702.46	695.64	695.46	2.29	2.50	170.97		-2,173.34	345.29	2,200.60	2,195.82	4.78	460.252
800.00	800.00	785.35	785.12	2.64	2.79	170.90		-2,173.16	348.24	2,200.90	2,195.48	5.42	405.818
900.00	900.00	907.06	906.77	3.00	3.19	170.80		-2,172.51	351.88	2,200.87	2,194.68	6.18	355.864
1,000.00	1,000.00	1,013.06	1,012.75	3.35	3.54	170.75		-2,171.22	353.79	2,199.94	2,193.05	6.89	319.115
1,100.00	1,100.00	1,104.54	1,104.21	3.71	3.81	170.70		-2,170.33	355.23	2,199.24	2,191.72	7.52	292.429
1,200.00	1,200.00	1,201.89	1,201.54	4.07	3.98	170.65		-2,169.58	357.12	2,198.79	2,190.74	8.05	273.189
1,300.00	1,300.00	1,313.05	1,312.67	4.43	4.08	170.58		-2,168.57	359.68	2,198.28	2,189.78	8.51	258.410
1,400.00	1,400.00	1,490.18	1,489.70	4.79	4.21	170.51		-2,163.82	361.89	2,196.00	2,187.01	8.99	244.282
1,500.00	1,500.00	1,622.03	1,621.34	5.15	4.36	170.45		-2,156.48	362.92	2,190.57	2,181.07	9.49	230.741
1,600.00	1,599.98	1,711.00	1,710.12	5.49	4.49	14.14		-2,150.80	364.23	2,182.88	2,172.91	9.97	218.980
1,700.00	1,699.84	1,781.70	1,780.70	5.82	4.61	14.16		-2,146.88	365.61	2,172.80	2,162.38	10.42	208.507
1,800.00	1,799.45	1,853.95	1,852.87	6.15	4.74	14.20		-2,144.19	367.39	2,161.06	2,150.17	10.89	198.492
1,900.00	1,898.70	1,945.62	1,944.48	6.49	4.92	14.27		-2,141.53	369.71	2,146.80	2,135.40	11.40	188.269
2,000.00	1,997.47	2,060.51	2,059.26	6.83	5.17	14.38		-2,137.70	372.99	2,128.86	2,116.88	11.99	177.617
2,100.00	2,095.82	2,162.67	2,161.28	7.19	5.41	14.42		-2,133.59	376.28	2,108.00	2,095.44	12.56	167.819
2,200.00	2,194.17	2,238.58	2,237.09	7.56	5.60	14.43		-2,130.79	378.92	2,087.45	2,074.36	13.09	159.476
2,300.00	2,292.51	2,310.18	2,308.65	7.93	5.78	14.46		-2,129.23	380.75	2,068.18	2,054.56	13.62	151.887
2,400.00	2,390.85	2,388.27	2,386.72	8.31	5.98	14.51		-2,128.52	382.52	2,050.07	2,035.90	14.17	144.707
2,500.00	2,489.20	2,491.23	2,489.65	8.70	6.25	14.57		-2,127.89	385.01	2,032.31	2,017.52	14.79	137.401
2,600.00	2,587.54	2,597.41	2,595.80	9.09	6.55	14.64		-2,126.81	387.37	2,014.11	1,998.67	15.44	130.481
2,700.00	2,685.89	2,693.77	2,692.13	9.49	6.82	14.71		-2,125.81	389.19	1,995.84	1,979.78	16.07	124.235
2,800.00	2,784.23	2,795.61	2,793.95	9.89	7.12	14.79		-2,124.81	391.12	1,977.65	1,960.93	16.72	118.300
2,900.00	2,882.57	2,891.09	2,889.40	10.29	7.40	14.86		-2,123.60	393.05	1,959.19	1,941.83	17.36	112.858
3,000.00	2,980.92	2,990.57	2,988.85	10.70	7.70	14.93		-2,122.68	395.25	1,941.10	1,923.08	18.02	107.720
3,100.00	3,079.26	3,097.02	3,095.28	11.11	8.03	15.01		-2,121.24	397.31	1,922.55	1,903.85	18.71	102.782
3,200.00	3,177.60	3,197.52	3,195.74	11.52	8.35	15.08		-2,119.63	399.38	1,903.78	1,884.40	19.38	98.234
3,300.00	3,275.95	3,302.18	3,300.36	11.93	8.68	15.16		-2,117.70	401.67	1,884.80	1,864.73	20.07	93.906
3,400.00	3,374.29	3,396.61	3,394.75	12.35	8.98	15.22		-2,115.89	403.69	1,865.75	1,845.01	20.74	89.964
3,500.00	3,472.63	3,460.03	3,458.17	12.76	9.17	15.30		-2,115.47	404.34	1,847.74	1,826.42	21.31	86.691
3,600.00	3,570.98	3,538.98	3,537.10	13.18	9.41	15.43		-2,116.45	403.93	1,831.33	1,809.41	21.92	83.534
3,700.00	3,669.32	3,631.42	3,629.52	13.60	9.68	15.62		-2,118.18	402.81	1,815.49	1,792.92	22.57	80.451
3,800.00	3,767.66	3,729.17	3,727.24	14.02	9.97	15.83		-2,120.23	401.35	1,799.87	1,776.64	23.23	77.487
3,900.00	3,866.01	3,835.23	3,833.26	14.44	10.29	16.07		-2,122.32	399.54	1,784.11	1,760.20	23.92	74.599
4,000.00	3,964.35	3,939.97	3,937.97	14.87	10.61	16.32		-2,123.92	397.39	1,767.90	1,743.30	24.61	71.851
4,100.00	4,062.70	4,054.45	4,052.42	15.29	10.96	16.60		-2,125.03	394.96	1,751.18	1,725.86	25.32	69.152
4,200.00	4,161.04	4,160.83	4,158.76	15.72	11.30	16.87		-2,125.38	392.36	1,733.82	1,707.80	26.03	66.618
4,300.00	4,259.38	4,275.21	4,273.11	16.14	11.66	17.17		-2,124.79	389.46	1,715.65	1,688.89	26.75	64.130
4,400.00	4,357.73	4,384.66	4,382.51	16.57	12.02	17.47		-2,123.49	386.54	1,696.86	1,669.39	27.47	61.770
4,500.00	4,456.07	4,490.23	4,488.00	17.00	12.36	17.78		-2,121.59	383.01	1,677.41	1,649.23	28.18	59.521
4,600.00	4,554.41	4,595.26	4,592.94	17.43	12.71	18.10		-2,119.33	379.40	1,657.68	1,628.78	28.89	57.369
4,700.00	4,652.76	4,701.06	4,698.64	17.86	13.06	18.44		-2,116.53	375.68	1,637.49	1,607.88	29.61	55.299
4,800.00	4,751.10	4,801.80	4,799.26	18.29	13.39	18.78		-2,113.55	371.66	1,617.01	1,586.69	30.32	53.331
4,900.00	4,849.44	4,883.67	4,881.06	18.72	13.66	19.03		-2,111.38	369.45	1,596.99	1,566.00	30.99	51.525
5,000.00	4,947.79	4,980.13	4,977.50	19.15	13.99	19.24		-2,109.14	369.33	1,577.54	1,545.84	31.70	49.763

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 - No. 124H - OH - OH Surveys 98'-12354' PTB 12417													Offset Site Error: 3.30 usft
Survey Program: 98-GYRO-NS-CT-1243-MWD-HDGM													Offset Well Error: 1.10 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,046.13	5,076.38	5,073.73	19.58	14.32	19.42	-2,106.89	369.98	1,558.16	1,525.76	32.41	48.078	
5,200.00	5,144.47	5,174.85	5,172.16	20.01	14.66	19.64	-2,104.68	369.92	1,538.85	1,505.72	33.12	46.458	
5,300.00	5,242.82	5,269.81	5,267.11	20.44	14.98	19.87	-2,102.67	369.45	1,519.64	1,485.81	33.83	44.917	
5,400.00	5,341.16	5,368.39	5,365.66	20.87	15.32	20.14	-2,100.67	368.65	1,500.52	1,465.98	34.55	43.432	
5,500.00	5,439.51	5,465.98	5,463.24	21.31	15.62	20.34	-2,099.17	368.73	1,481.79	1,446.55	35.25	42.041	
5,600.00	5,537.85	5,541.67	5,538.91	21.74	15.91	20.50	-2,098.24	370.19	1,463.81	1,427.88	35.94	40.732	
5,700.00	5,636.19	5,633.11	5,630.32	22.17	16.22	20.66	-2,097.86	371.91	1,446.51	1,409.87	36.64	39.479	
5,800.00	5,734.54	5,724.22	5,721.44	22.61	16.53	20.86	-2,097.97	372.76	1,429.70	1,392.36	37.34	38.289	
5,900.00	5,832.88	5,819.25	5,816.46	23.04	16.84	21.10	-2,098.48	373.25	1,413.29	1,375.25	38.04	37.148	
6,000.00	5,931.22	5,917.81	5,915.02	23.48	17.17	21.38	-2,099.15	373.01	1,397.03	1,358.27	38.76	36.046	
6,100.00	6,029.57	6,023.30	6,020.50	23.91	17.52	21.72	-2,099.68	371.79	1,380.57	1,341.09	39.49	34.963	
6,200.00	6,127.91	6,138.72	6,135.91	24.34	17.91	22.04	-2,098.93	372.07	1,363.06	1,322.82	40.24	33.873	
6,300.00	6,226.25	6,234.23	6,231.39	24.78	18.24	22.23	-2,097.85	374.12	1,345.18	1,304.22	40.96	32.841	
6,400.00	6,324.60	6,327.46	6,324.61	25.21	18.56	22.43	-2,097.18	375.85	1,327.73	1,286.05	41.68	31.857	
6,500.00	6,422.94	6,430.96	6,428.09	25.65	18.92	22.67	-2,096.51	377.63	1,310.36	1,267.94	42.41	30.895	
6,600.00	6,521.28	6,538.92	6,536.03	26.09	19.29	22.96	-2,095.00	378.79	1,292.24	1,249.08	43.16	29.943	
6,700.00	6,619.63	6,641.22	6,638.30	26.52	19.65	23.25	-2,093.07	379.57	1,273.68	1,229.79	43.89	29.018	
6,800.00	6,717.97	6,740.15	6,737.22	26.96	19.99	23.57	-2,091.01	379.70	1,254.95	1,210.32	44.63	28.121	
6,900.00	6,816.32	6,830.59	6,827.64	27.39	20.31	23.86	-2,089.32	379.91	1,236.49	1,191.13	45.35	27.264	
7,000.00	6,915.01	6,923.98	6,921.02	27.82	20.63	23.99	-2,088.19	380.57	1,220.53	1,174.45	46.08	26.489	
7,100.00	7,014.20	7,021.89	7,018.93	28.22	20.98	24.08	-2,087.21	381.45	1,207.96	1,161.17	46.80	25.812	
7,200.00	7,113.77	7,120.98	7,118.00	28.59	21.32	24.14	-2,086.27	382.30	1,198.62	1,151.11	47.51	25.228	
7,300.00	7,213.60	7,223.68	7,220.70	28.94	21.68	24.16	-2,085.41	383.26	1,192.58	1,144.36	48.22	24.734	
7,400.00	7,313.57	7,336.00	7,317.69	29.27	22.75	27.70	-2,049.65	312.79	1,176.56	1,127.78	48.77	24.123	
7,500.00	7,413.24	7,583.00	7,556.46	29.56	22.92	-80.00	-2,041.46	287.53	1,159.78	1,110.10	49.69	23.342	
7,600.00	7,510.29	7,630.00	7,593.73	29.82	23.09	-80.52	-2,035.68	259.51	1,145.66	1,095.22	50.45	22.711	
7,700.00	7,601.78	7,662.39	7,618.63	30.04	23.22	-81.28	-2,033.12	238.96	1,133.81	1,082.81	51.00	22.233	
7,800.00	7,684.91	7,737.42	7,674.17	30.21	23.53	-81.76	-2,029.39	188.68	1,123.44	1,071.86	51.58	21.781	
7,900.00	7,757.17	7,919.15	7,787.83	30.33	24.50	-82.02	-2,013.94	48.40	1,108.62	1,055.82	52.80	20.997	
8,000.00	7,816.37	8,004.00	7,830.69	30.41	25.09	-83.64	-2,002.29	-23.87	1,086.87	1,033.20	53.67	20.251	
8,100.00	7,860.69	8,058.75	7,854.09	30.44	25.53	-85.64	-1,996.25	-72.97	1,066.33	1,011.90	54.42	19.593	
8,200.00	7,888.80	8,124.40	7,875.30	30.45	26.10	-87.63	-1,991.42	-134.87	1,048.30	992.88	55.42	18.916	
8,300.00	7,899.84	8,191.00	7,889.44	30.47	26.75	-89.61	-1,987.97	-199.81	1,032.24	975.65	56.59	18.241	
8,400.00	7,900.00	8,260.31	7,895.18	30.88	27.48	-90.12	-1,986.81	-268.83	1,020.76	962.77	57.99	17.601	
8,500.00	7,900.00	8,360.29	7,896.36	31.76	28.62	-90.19	-1,986.33	-368.78	1,014.06	954.05	60.01	16.898	
8,600.00	7,900.00	8,472.69	7,895.08	32.80	30.07	-90.12	-1,984.99	-481.16	1,010.13	947.66	62.48	16.168	
8,700.00	7,900.00	8,578.58	7,892.59	33.97	31.56	-89.98	-1,982.54	-587.00	1,007.60	942.47	65.12	15.472	
8,800.00	7,900.00	8,678.47	7,889.14	35.25	33.08	-89.78	-1,980.10	-686.80	1,005.07	937.15	67.91	14.799	
8,900.00	7,900.00	8,766.05	7,886.05	36.63	34.48	-89.60	-1,978.33	-774.30	1,003.00	932.29	70.71	14.185	
8,986.47	7,900.00	8,839.69	7,884.82	37.89	35.70	-89.53	-1,977.96	-847.93	1,002.48	929.27	73.21	13.693 CC	
9,000.00	7,900.00	8,851.46	7,884.64	38.09	35.90	-89.52	-1,977.98	-859.70	1,002.49	928.88	73.61	13.619	
9,100.00	7,900.00	8,948.19	7,882.53	39.64	37.57	-89.40	-1,978.61	-956.40	1,003.06	926.23	76.83	13.055	
9,200.00	7,900.00	9,058.45	7,878.37	41.25	39.53	-89.16	-1,978.74	-1,066.58	1,003.15	922.73	80.42	12.474	
9,300.00	7,900.00	9,154.04	7,876.20	42.93	41.29	-89.04	-1,978.35	-1,162.15	1,002.69	918.82	83.87	11.956	
9,308.04	7,900.00	9,161.39	7,876.04	43.07	41.43	-89.03	-1,978.35	-1,169.50	1,002.69	918.54	84.15	11.916	
9,400.00	7,900.00	9,251.71	7,873.24	44.66	43.13	-88.87	-1,978.51	-1,259.77	1,002.81	915.35	87.45	11.467	
9,500.00	7,900.00	9,341.08	7,869.88	46.44	44.84	-88.68	-1,979.07	-1,349.08	1,003.43	912.46	90.98	11.030	
9,600.00	7,900.00	9,426.30	7,868.95	48.27	46.50	-88.63	-1,980.78	-1,434.27	1,005.38	910.89	94.48	10.641	
9,700.00	7,900.00	9,516.16	7,868.87	50.14	48.27	-88.63	-1,983.83	-1,524.07	1,008.67	910.54	98.13	10.279	
9,800.00	7,900.00	9,615.44	7,866.50	52.04	50.24	-88.50	-1,987.69	-1,623.25	1,012.53	910.50	102.02	9.925	
9,900.00	7,900.00	9,718.11	7,862.41	53.97	52.31	-88.27	-1,991.41	-1,725.76	1,016.17	910.13	106.04	9.583	
10,000.00	7,900.00	9,822.83	7,861.39	55.93	54.45	-88.22	-1,994.93	-1,830.42	1,019.46	909.32	110.15	9.256	

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

Pro Directional Anticollision Report

Company: Malador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Stebbins Federal 19 - No. 124H - OH - OH Surveys 98-12354 PTB 12417													Offset Site Error: 3.30 usft
Survey Program: 98-GYRO-NS-CT, 1243-MWD-HDGM													Offset Well Error: 1.10 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi-Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	7,900.00	9,924.21	7,861.54	57.91	56.54	-88.24	-1,998.03	-1,931.75	1,022.42	908.19	114.23	8.950	
10,200.00	7,900.00	10,017.98	7,859.40	59.92	58.49	-88.12	-2,001.06	-2,025.44	1,025.63	907.43	118.20	8.677	
10,300.00	7,900.00	10,116.94	7,854.73	61.95	60.56	-87.87	-2,004.51	-2,124.23	1,029.19	906.89	122.30	8.415	
10,400.00	7,900.00	10,214.03	7,847.87	64.00	62.61	-87.49	-2,008.08	-2,221.01	1,033.07	906.68	126.39	8.174	
10,500.00	7,900.00	10,332.82	7,840.95	66.06	65.13	-87.12	-2,011.40	-2,339.54	1,036.04	905.08	130.96	7.911	
10,600.00	7,900.00	10,434.74	7,836.12	68.14	67.31	-86.86	-2,012.97	-2,441.34	1,037.73	902.53	135.20	7.675	
10,700.00	7,900.00	10,546.79	7,828.72	70.24	69.72	-86.46	-2,014.82	-2,553.12	1,039.74	900.09	139.65	7.445	
10,800.00	7,900.00	10,669.03	7,822.04	72.34	72.37	-86.08	-2,013.97	-2,675.17	1,039.27	894.99	144.28	7.203	
10,900.00	7,900.00	10,769.10	7,816.08	74.46	74.55	-85.75	-2,012.31	-2,775.05	1,037.95	889.42	148.53	6.988	
11,000.00	7,900.00	10,874.03	7,809.80	76.59	76.84	-85.39	-2,010.27	-2,879.76	1,036.37	883.50	152.87	6.779	
11,100.00	7,900.00	10,972.98	7,804.54	78.73	79.01	-85.09	-2,008.20	-2,978.56	1,034.64	877.50	157.13	6.585	
11,200.00	7,900.00	11,068.84	7,798.81	80.88	81.12	-84.77	-2,006.35	-3,074.22	1,033.15	871.81	161.34	6.403	
11,300.00	7,900.00	11,164.60	7,796.60	83.04	83.23	-84.64	-2,005.35	-3,169.94	1,032.22	866.63	165.59	6.233	
11,400.00	7,900.00	11,265.49	7,794.48	85.20	85.46	-84.52	-2,004.27	-3,270.80	1,031.26	861.31	169.94	6.068	
11,500.00	7,900.00	11,362.07	7,790.99	87.38	87.59	-84.32	-2,003.35	-3,367.32	1,030.56	856.35	174.21	5.916	
11,600.00	7,900.00	11,458.23	7,785.79	89.56	89.73	-84.03	-2,002.46	-3,463.34	1,030.11	851.65	178.46	5.772	
11,624.36	7,900.00	11,480.77	7,784.78	90.09	90.23	-83.97	-2,002.35	-3,485.85	1,030.08	850.61	179.48	5.739	
11,700.00	7,900.00	11,555.32	7,782.57	91.74	91.88	-83.85	-2,002.30	-3,560.36	1,030.20	847.45	182.74	5.637	
11,800.00	7,900.00	11,655.47	7,781.73	93.93	94.11	-83.80	-2,002.32	-3,660.51	1,030.22	843.09	187.13	5.505	
11,900.00	7,900.00	11,747.79	7,780.52	96.13	96.17	-83.73	-2,002.61	-3,752.82	1,030.58	839.21	191.37	5.385	
12,000.00	7,900.00	11,864.22	7,778.29	98.33	98.77	-83.61	-2,003.19	-3,869.22	1,031.29	835.24	196.05	5.260	
12,100.00	7,900.00	11,995.57	7,779.17	100.54	101.71	-83.64	-2,000.11	-4,000.52	1,028.73	827.79	200.93	5.120	
12,200.00	7,900.00	12,094.34	7,780.90	102.75	103.93	-83.72	-1,996.67	-4,099.22	1,024.97	819.60	205.37	4.991	
12,300.00	7,900.00	12,189.15	7,781.06	104.97	106.06	-83.71	-1,993.39	-4,193.97	1,021.43	811.69	209.74	4.870	
12,400.00	7,900.00	12,278.01	7,779.54	107.18	108.06	-83.60	-1,991.04	-4,282.79	1,018.89	804.89	214.00	4.761	
12,500.00	7,900.00	12,377.90	7,776.18	109.41	110.31	-83.40	-1,988.66	-4,382.59	1,016.80	798.42	218.38	4.656	
12,560.20	7,900.00	12,417.00	7,774.68	110.75	111.19	-83.31	-1,987.70	-4,421.65	1,015.77	795.09	220.68	4.603	
12,600.00	7,900.00	12,417.00	7,774.68	111.63	111.19	-83.31	-1,987.70	-4,421.65	1,016.55	795.00	221.55	4.588 ES, SF	
12,700.00	7,900.00	12,417.00	7,774.68	113.86	111.19	-83.31	-1,987.70	-4,421.65	1,025.35	803.02	222.33	4.612	
12,726.61	7,900.00	12,417.00	7,774.68	114.25	111.19	-83.31	-1,987.70	-4,421.65	1,029.31	807.29	222.02	4.636	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 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 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	3.30	0.00	135.00	-30.00	30.00	42.44					
100.00	100.00	98.95	98.95	3.30	0.13	134.84	-29.96	30.12	42.48	39.06	3.43	12.395		
200.00	200.00	198.93	198.93	3.34	0.47	134.61	-29.94	30.36	42.64	38.83	3.81	11.191		
300.00	300.00	299.08	299.08	3.41	0.83	134.31	-29.81	30.54	42.67	38.44	4.23	10.087		
400.00	400.00	399.43	399.42	3.51	1.18	133.06	-28.69	30.71	42.03	37.34	4.69	8.965		
500.00	500.00	499.53	499.51	3.65	1.53	130.77	-26.71	30.98	40.91	35.73	5.18	7.898		
600.00	600.00	599.48	599.43	3.82	1.89	128.41	-24.61	31.04	39.61	33.91	5.70	6.950		
694.46	694.46	693.52	693.46	4.00	2.22	126.57	-23.28	31.37	39.06	32.85	6.21	6.289 CC		
700.00	700.00	699.03	698.97	4.01	2.24	126.50	-23.23	31.40	39.06	32.82	6.24	6.259		
800.00	800.00	798.51	798.44	4.22	2.58	125.81	-23.30	32.29	39.82	33.02	6.80	5.854		
900.00	900.00	898.33	898.25	4.46	2.93	125.76	-24.34	33.79	41.65	34.27	7.38	5.642		
1,000.00	1,000.00	998.58	998.49	4.71	3.28	125.51	-25.07	35.13	43.16	35.18	7.98	5.409		
1,100.00	1,100.00	1,098.76	1,098.66	4.97	3.63	125.59	-25.66	35.85	44.08	35.49	8.59	5.131		
1,200.00	1,200.00	1,198.72	1,198.62	5.24	3.85	126.31	-26.56	36.15	44.86	35.78	9.08	4.941		
1,300.00	1,300.00	1,298.67	1,298.55	5.52	3.96	127.83	-28.09	36.16	45.79	36.32	9.47	4.834		
1,400.00	1,400.00	1,397.90	1,397.76	5.82	4.01	129.74	-30.20	36.32	47.25	37.43	9.81	4.814		
1,500.00	1,500.00	1,496.39	1,496.16	6.11	4.09	131.26	-33.80	38.52	51.33	41.14	10.19	5.039		
1,600.00	1,599.98	1,595.17	1,594.71	6.40	4.21	124.58	-39.02	42.75	56.45	45.88	10.57	5.339		
1,700.00	1,699.84	1,694.30	1,693.48	6.69	4.35	125.05	-45.70	47.80	59.99	49.00	10.98	5.462		
1,800.00	1,799.45	1,793.25	1,791.95	6.98	4.52	126.65	-53.47	53.77	61.84	50.42	11.42	5.414		
1,900.00	1,898.70	1,892.25	1,890.26	7.28	4.72	129.05	-62.78	60.62	62.32	50.43	11.89	5.240		
2,000.00	1,997.47	1,993.57	1,990.89	7.59	4.95	132.90	-72.50	67.24	59.76	47.32	12.44	4.804		
2,100.00	2,095.82	2,093.62	2,090.44	7.91	5.19	138.47	-81.32	72.16	53.75	40.76	13.00	4.135		
2,200.00	2,194.17	2,192.94	2,189.17	8.25	5.45	144.19	-90.99	76.71	48.34	34.76	13.58	3.559		
2,300.00	2,292.51	2,292.30	2,287.98	8.59	5.72	152.34	-100.05	82.17	44.25	30.05	14.20	3.115		
2,400.00	2,390.85	2,391.38	2,386.50	8.94	6.01	163.50	-107.96	88.95	42.51	27.64	14.86	2.860		
2,406.01	2,396.77	2,397.33	2,392.42	8.97	6.02	164.20	-108.42	89.40	42.50	27.60	14.90	2.851 ES		
2,500.00	2,489.20	2,490.35	2,484.80	9.30	6.30	174.62	-116.00	97.18	43.94	28.39	15.55	2.826		
2,600.00	2,587.54	2,589.99	2,583.60	9.67	6.61	183.66	-124.61	106.82	48.04	31.79	16.26	2.956		
2,700.00	2,685.89	2,690.85	2,683.67	10.04	6.94	191.11	-134.22	114.90	51.27	34.29	16.98	3.019		
2,800.00	2,784.23	2,790.89	2,782.86	10.42	7.27	196.84	-144.94	122.19	54.01	36.32	17.69	3.053		
2,900.00	2,882.57	2,890.72	2,881.69	10.81	7.62	110.76	-156.72	130.01	57.06	38.65	18.41	3.099		
3,000.00	2,980.92	2,990.69	2,980.91	11.19	7.96	106.16	-166.89	136.70	60.50	41.38	19.12	3.164		
3,100.00	3,079.26	3,090.55	3,080.09	11.59	8.30	111.50	-176.85	142.71	64.07	44.25	19.82	3.233		
3,200.00	3,177.60	3,190.29	3,179.12	11.98	8.65	115.97	-186.99	148.96	68.15	47.64	20.51	3.322		
3,300.00	3,275.95	3,288.23	3,276.55	12.38	8.99	121.11	-195.22	154.36	73.60	52.43	21.17	3.476		
3,400.00	3,374.29	3,386.67	3,374.82	12.78	9.31	127.93	-199.64	158.12	82.15	60.37	21.78	3.772		
3,500.00	3,472.63	3,485.94	3,473.94	13.18	9.64	133.71	-203.64	161.65	91.98	69.58	22.39	4.108		
3,600.00	3,570.98	3,585.11	3,572.96	13.59	9.97	138.27	-207.83	165.27	102.40	79.38	23.02	4.449		
3,700.00	3,669.32	3,682.49	3,670.18	14.00	10.30	141.53	-211.35	169.74	114.17	90.52	23.64	4.829		
3,800.00	3,767.66	3,786.08	3,773.19	14.41	10.66	142.33	-217.34	178.47	124.95	100.57	24.39	5.124		
3,900.00	3,866.01	3,886.07	3,872.25	14.82	11.04	141.71	-225.61	189.35	133.93	108.79	25.14	5.327		
4,000.00	3,964.35	3,984.84	3,970.12	15.23	11.40	141.24	-233.53	199.97	143.13	117.24	25.89	5.528		
4,100.00	4,062.70	4,083.53	4,068.00	15.64	11.77	140.98	-240.77	210.35	152.94	126.31	26.64	5.742		
4,200.00	4,161.04	4,182.41	4,166.11	16.06	12.13	140.85	-247.54	220.61	163.18	135.80	27.38	5.960		
4,300.00	4,259.38	4,281.02	4,263.99	16.48	12.50	140.78	-253.87	230.79	173.83	145.71	28.12	6.181		
4,400.00	4,357.73	4,379.50	4,361.81	16.90	12.86	140.87	-259.54	240.66	185.03	156.17	28.86	6.411		
4,500.00	4,456.07	4,481.20	4,462.85	17.32	13.24	141.00	-265.37	250.68	196.22	166.59	29.63	6.623		
4,600.00	4,554.41	4,584.02	4,564.82	17.74	13.63	140.89	-273.45	261.08	205.42	175.01	30.41	6.755		
4,700.00	4,652.76	4,683.47	4,663.34	18.16	14.01	140.61	-282.11	271.57	213.91	182.73	31.18	6.860		
4,800.00	4,751.10	4,781.99	4,761.01	18.58	14.39	140.49	-290.15	281.60	222.85	190.91	31.94	6.976		
4,900.00	4,849.44	4,880.43	4,858.68	19.01	14.77	140.48	-297.61	291.37	232.28	199.58	32.70	7.103		

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

Pro Directional

Anticollision Report

Company: Malador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Stebbins Federal 19
 Site Error: 3.30 usft
 Reference Well: #127H
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 Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
 TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 North Reference: Grid
 Survey/Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 98GYRO-NS-CT-1250-MWD-HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Warning			
Measured Vertical	Measured Vertical	Reference	Offset	Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Separation	Factor				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)	(usft)	(usft)					
5,000.00	4,947.79	4,979.16	4,956.69	19.43	15.14	-140.52	-304.62	301.04	242.12	208.67	33.45	7.237	
5,100.00	5,046.13	5,077.52	5,054.41	19.85	15.51	-140.71	-311.10	310.17	252.34	218.14	34.20	7.378	
5,200.00	5,144.47	5,183.88	5,160.16	20.28	15.91	-141.20	-318.78	318.41	261.55	226.56	34.98	7.476	
5,300.00	5,242.82	5,284.82	5,260.52	20.71	16.29	-141.84	-327.47	324.91	269.11	233.39	35.72	7.534	
5,400.00	5,341.16	5,382.25	5,357.44	21.13	16.66	-142.54	-335.50	330.66	276.94	240.51	36.44	7.601	
5,500.00	5,439.51	5,480.22	5,455.02	21.56	17.02	-143.39	-342.71	335.73	285.51	248.37	37.14	7.681	
5,600.00	5,537.85	5,578.27	5,552.74	21.99	17.38	-144.32	-349.33	340.21	294.60	256.77	37.83	7.787	
5,700.00	5,636.19	5,675.68	5,649.89	22.42	17.73	-145.30	-355.18	344.27	304.43	265.92	38.52	7.904	
5,800.00	5,734.54	5,770.89	5,744.90	22.85	18.07	-146.27	-360.19	347.92	315.03	275.85	39.18	8.041	
5,900.00	5,832.88	5,861.56	5,835.41	23.28	18.39	-147.04	-363.03	352.28	327.95	288.16	39.79	8.242	
6,000.00	5,931.22	5,957.07	5,930.76	23.71	18.72	-147.70	-363.95	357.75	343.16	302.71	40.46	8.483	
6,100.00	6,029.57	6,062.16	6,035.52	24.14	19.10	-148.04	-366.26	365.58	357.45	316.20	41.25	8.666	
6,200.00	6,127.91	6,169.85	6,142.69	24.57	19.50	-148.07	-370.74	375.22	370.04	327.97	42.08	8.794	
6,300.00	6,226.25	6,293.35	6,265.30	25.00	19.97	-148.08	-380.99	385.66	378.57	335.60	42.96	8.812	
6,400.00	6,324.60	6,406.63	6,377.50	25.43	20.41	-148.78	-395.79	389.81	381.60	337.92	43.69	8.735	
6,500.00	6,422.94	6,494.29	6,464.49	25.86	20.73	-149.69	-406.48	390.55	385.16	340.79	44.37	8.681	
6,600.00	6,521.28	6,590.81	6,560.44	26.29	21.08	-150.65	-416.93	391.72	390.32	345.27	45.04	8.665	
6,700.00	6,619.63	6,689.60	6,658.69	26.73	21.45	-151.56	-427.20	393.24	396.04	350.31	45.73	8.661	
6,800.00	6,717.97	6,786.54	6,755.12	27.16	21.80	-152.46	-436.95	394.53	402.18	355.78	46.40	8.667	
6,900.00	6,816.32	6,879.05	6,847.28	27.59	22.12	-153.69	-444.81	393.06	409.84	362.81	47.02	8.716	
7,000.00	6,915.01	6,972.84	6,940.79	28.01	22.43	-154.99	-451.57	390.46	417.12	369.50	47.63	8.758	
7,100.00	7,014.20	7,059.70	7,027.43	28.41	22.71	-156.24	-455.82	386.23	423.73	375.58	48.14	8.801	
7,200.00	7,113.77	7,145.35	7,112.93	28.78	22.96	-157.37	-457.20	381.33	430.61	382.01	48.60	8.861	
7,300.00	7,213.60	7,250.01	7,217.44	29.13	23.27	-158.44	-457.88	375.72	435.40	386.15	49.25	8.841	
7,400.00	7,313.57	7,356.89	7,323.82	29.46	23.59	-159.80	-460.47	366.40	435.46	385.56	49.89	8.728	
7,458.94	7,372.44	7,407.79	7,373.32	29.63	23.73	-162.80	-462.14	354.79	434.77	384.69	50.08	8.681	
7,500.00	7,413.24	7,441.97	7,405.55	29.74	23.81	-160.48	-463.00	343.50	434.90	384.73	50.17	8.669	
7,600.00	7,510.29	7,534.31	7,488.08	30.00	24.00	-161.51	-465.32	302.32	437.74	387.34	50.39	8.687	
7,700.00	7,601.78	7,617.37	7,557.25	30.22	24.15	-161.51	-467.22	256.45	442.72	392.25	50.47	8.772	
7,800.00	7,684.91	7,704.69	7,625.77	30.39	24.28	-161.51	-467.10	202.34	450.34	399.66	50.68	8.887	
7,900.00	7,757.17	7,799.47	7,695.90	30.51	24.44	-161.51	-466.88	138.64	457.58	406.36	51.22	8.934	
8,000.00	7,816.37	7,903.13	7,761.62	30.59	24.64	-161.51	-469.21	58.64	463.17	411.09	52.08	8.894	
8,100.00	7,860.69	7,990.87	7,811.44	30.62	24.93	-161.51	-472.45	-13.48	467.15	414.08	53.06	8.804	
8,200.00	7,888.80	8,072.03	7,848.92	30.63	25.36	-161.51	-473.42	-85.38	474.15	419.87	54.27	8.736	
8,300.00	7,899.84	8,177.79	7,880.38	30.65	26.13	-161.51	-476.85	-186.15	480.45	424.47	55.98	8.582	
8,400.00	7,900.00	8,255.58	7,892.51	31.05	26.81	-161.51	-478.62	-262.91	487.49	429.97	57.53	8.474	
8,500.00	7,900.00	8,350.53	7,897.25	31.93	27.75	-161.51	-478.05	-357.69	494.27	434.89	59.37	8.325	
8,600.00	7,900.00	8,456.47	7,895.76	32.97	28.96	-161.51	-477.67	-463.61	497.38	435.78	61.59	8.075	
8,700.00	7,900.00	8,561.13	7,891.54	34.13	30.30	-161.51	-478.60	-568.19	496.74	432.70	64.04	7.757	
8,800.00	7,900.00	8,661.99	7,889.30	35.40	31.70	-161.51	-479.86	-669.01	495.62	428.94	66.68	7.433	
8,900.00	7,900.00	8,766.51	7,887.25	36.77	33.26	-161.51	-481.62	-773.50	494.07	424.46	69.61	7.098	
9,000.00	7,900.00	8,872.19	7,883.25	38.23	34.94	-161.51	-484.79	-879.05	491.26	418.54	72.73	6.755	
9,100.00	7,900.00	8,964.53	7,879.39	39.77	36.47	-161.51	-487.70	-971.26	488.38	412.70	75.68	6.453	
9,200.00	7,900.00	9,057.08	7,878.56	41.38	38.07	-161.51	-488.51	-1,063.80	487.63	408.83	78.80	6.188	
9,300.00	7,900.00	9,158.40	7,877.70	43.06	39.87	-161.51	-488.78	-1,165.12	487.50	405.22	82.28	5.925	
9,400.00	7,900.00	9,267.45	7,874.71	44.78	41.87	-161.51	-490.42	-1,274.10	486.23	400.18	86.04	5.651	
9,466.25	7,900.00	9,322.48	7,872.89	45.96	42.90	-161.51	-491.36	-1,329.09	485.30	397.20	88.10	5.509	
9,500.00	7,900.00	9,349.15	7,872.31	46.56	43.40	-161.51	-491.22	-1,355.76	485.54	396.45	89.10	5.450	
9,600.00	7,900.00	9,444.18	7,870.99	48.38	45.22	-161.51	-489.08	-1,450.75	487.95	395.31	92.64	5.267	
9,700.00	7,900.00	9,548.57	7,868.81	50.24	47.25	-161.51	-487.11	-1,555.10	490.05	393.49	96.56	5.075	
9,800.00	7,900.00	9,644.12	7,868.09	52.14	49.14	-161.51	-485.38	-1,650.63	492.00	391.74	100.27	4.907	
9,900.00	7,900.00	9,749.26	7,870.46	54.07	51.25	-161.51	-483.17	-1,755.71	494.06	389.62	104.44	4.730	

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

Pro Directional

Anticollision Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27)
 Reference Site: Stebbins Federal 19
 Site Error: 3.30 usft
 Reference Well: #127H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
 TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: WellPlanner1
 Offset TVD Reference: Offset Datum

Offset Design: Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH											Offset Site Error:	0.00 usft
Survey Program: 98-GYRO-INS-CT-1250-MWD-HDGM											Offset Well Error:	0.00 usft
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)		Between Centres (usft)	Between Ellipses (usft)				
10,000.00	7,900.00	9,856.53	7,872.02	56.02	53.44	86.87	-482.53	-1,862.97	494.67	385.94	108.72	4.550
10,100.00	7,900.00	9,956.52	7,870.04	58.01	55.49	86.64	-482.87	-1,962.93	494.53	381.81	112.72	4.387
10,101.65	7,900.00	9,958.10	7,869.98	58.04	55.52	86.64	-482.87	-1,964.51	494.53	381.75	112.78	4.385
10,200.00	7,900.00	10,051.97	7,865.26	60.01	57.47	86.09	-482.84	-2,058.26	494.97	378.45	116.53	4.248
10,300.00	7,900.00	10,150.45	7,860.69	62.04	59.52	85.57	-481.95	-2,156.63	496.30	375.83	120.48	4.120
10,400.00	7,900.00	10,255.79	7,855.14	64.08	61.74	84.94	-481.79	-2,261.82	496.98	372.31	124.66	3.987
10,500.00	7,900.00	10,376.68	7,847.10	66.14	64.29	83.99	-484.13	-2,382.40	495.92	366.69	129.24	3.837
10,600.00	7,900.00	10,459.55	7,841.11	68.22	66.05	83.25	-487.57	-2,464.98	492.86	360.19	132.67	3.715
10,607.72	7,900.00	10,465.15	7,840.76	68.38	66.17	83.21	-487.63	-2,470.57	492.84	359.94	132.91	3.708
10,700.00	7,900.00	10,544.52	7,836.37	70.31	67.87	82.72	-486.71	-2,549.81	494.54	358.42	136.12	3.633
10,800.00	7,900.00	10,648.07	7,831.54	72.42	70.10	82.20	-484.69	-2,653.22	497.19	356.87	140.32	3.543
10,900.00	7,900.00	10,755.65	7,829.90	74.54	72.42	82.03	-483.82	-2,760.79	498.29	353.49	144.81	3.441
11,000.00	7,900.00	10,860.36	7,828.87	76.66	74.70	81.91	-484.15	-2,865.49	498.21	349.00	149.20	3.339
11,100.00	7,900.00	10,965.09	7,826.78	78.80	76.98	81.65	-485.61	-2,970.18	497.21	343.66	153.54	3.238
11,200.00	7,900.00	11,069.02	7,823.28	80.95	79.25	81.20	-488.26	-3,074.02	495.28	337.50	157.78	3.139
11,300.00	7,900.00	11,169.96	7,818.66	83.10	81.45	80.62	-491.40	-3,174.81	493.02	331.18	161.84	3.046
11,400.00	7,900.00	11,268.53	7,812.97	85.27	83.61	79.89	-495.14	-3,273.14	490.35	324.61	165.74	2.959
11,477.87	7,900.00	11,336.32	7,807.83	86.96	85.10	79.27	-496.86	-3,340.71	489.54	321.14	168.41	2.907
11,500.00	7,900.00	11,356.60	7,806.06	87.44	85.55	79.06	-497.17	-3,360.91	489.59	320.42	169.17	2.894
11,600.00	7,900.00	11,448.51	7,796.80	89.62	87.56	77.98	-497.93	-3,452.34	490.88	318.40	172.49	2.846
11,700.00	7,900.00	11,543.71	7,787.54	91.80	89.66	76.95	-497.35	-3,547.10	493.68	317.81	175.88	2.807
11,800.00	7,900.00	11,642.47	7,780.13	93.99	91.85	76.15	-495.98	-3,645.56	496.88	317.32	179.55	2.767
11,900.00	7,900.00	11,739.43	7,775.16	96.19	94.00	75.67	-493.34	-3,742.35	500.86	317.51	183.35	2.732
12,000.00	7,900.00	11,842.83	7,771.67	98.39	96.30	75.38	-490.32	-3,845.65	504.62	317.02	187.60	2.690
12,100.00	7,900.00	11,950.48	7,767.76	100.59	98.71	75.01	-488.30	-3,953.21	507.47	315.50	191.96	2.644
12,200.00	7,900.00	12,058.72	7,763.07	102.80	101.12	74.49	-488.56	-4,061.34	508.45	312.29	196.17	2.592
12,300.00	7,900.00	12,173.69	7,756.69	105.02	103.68	73.71	-491.73	-4,176.09	507.42	307.19	200.24	2.534
12,400.00	7,900.00	12,287.41	7,750.45	107.24	106.21	72.81	-498.45	-4,289.43	503.42	299.47	203.95	2.468
12,500.00	7,900.00	12,391.84	7,744.63	109.46	108.53	71.89	-506.95	-4,393.35	497.41	290.10	207.32	2.399
12,600.00	7,900.00	12,470.00	7,740.27	111.68	110.27	71.17	-513.48	-4,471.12	491.80	281.53	210.27	2.339
12,608.29	7,900.00	12,470.00	7,740.27	111.87	110.27	71.17	-513.48	-4,471.12	491.73	281.40	210.34	2.338 SF
12,700.00	7,900.00	12,470.00	7,740.27	113.91	110.27	71.17	-513.48	-4,471.12	500.21	292.79	207.43	2.412
12,726.61	7,900.00	12,470.00	7,740.27	114.30	110.27	71.17	-513.48	-4,471.12	505.77	300.59	205.18	2.465

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

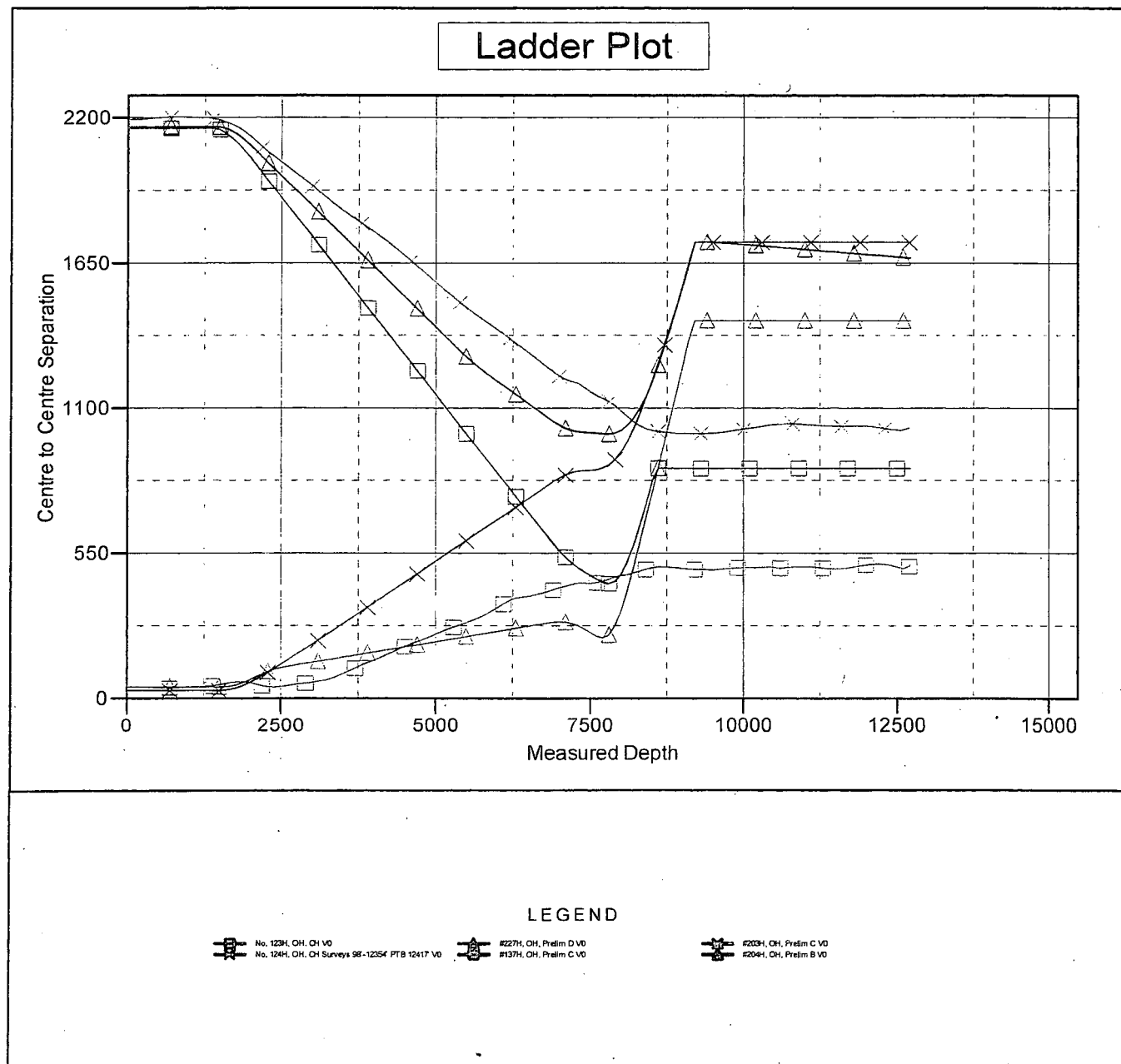
Reference Depths are relative to 3248 + 28.5 = KB @ 3276.50usft (Pat Coordinates are relative to: #127H)

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 covergent point, SF - min separation factor, ES - min ellipse separation

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Stebbins Federal 19
Site Error: 3.30 usft
Reference Well: #127H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim C

Local Co-ordinate Reference: Well #127H
TVD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
MD Reference: 3248 + 28.5 = KB @ 3276.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to 3248 + 28.5 = KB @ 3276.50usft (Pat Coordinates are relative to: #127H)

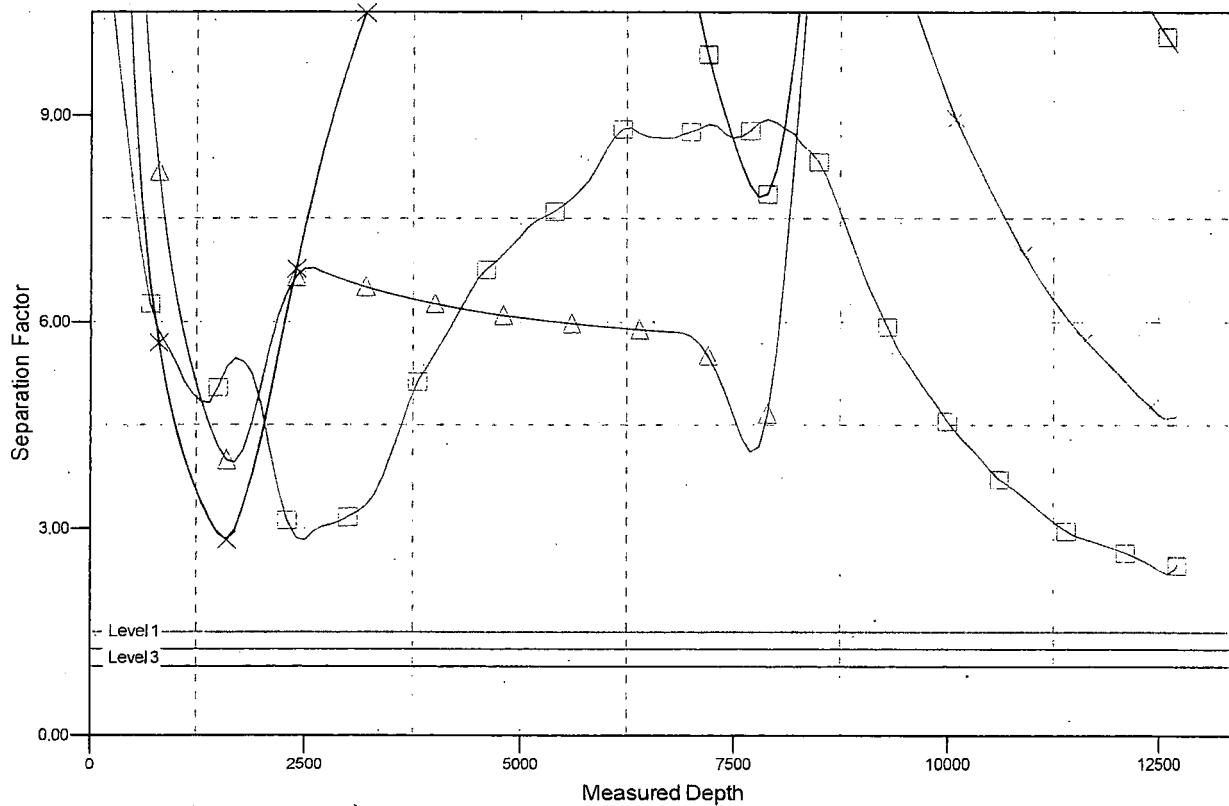
Offset Depths are relative to Offset Datum

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. 12341, OH, OH V0
 No. 12441, OH, OH Surveys 98-12354 FTB 12417 V0
 #127H, OH, Prelim D V0
 #137H, OH, Prelim C V0
 #20341, OH, Prelim C V0
 #20441, OH, Prelim B V0