

Matador Resources

Eddy County, NM (NAD27)

Stebbins Federal 19

#227H

OH

Prelim C

Anticollision Report

15 February, 2019

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	2/15/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,204.33	Prelim C (OH)	MWD+HDGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Stebbins Federal 19						
#127H - OH - Prelim A	1,500.00	1,501.00	43.14	32.84	4.189 CC, ES	
#127H - OH - Prelim A	7,457.48	7,446.70	112.83	54.75	1.943 SF	
#137H - OH - Prelim A	8,694.05	8,697.79	340.86	276.90	5.330 CC	
#137H - OH - Prelim A	8,700.00	8,700.00	340.89	276.89	5.326 ES, SF	
#203H - OH - Prelim B	1,500.00	1,500.00	31.00	20.71	3.012 CC, ES	
#203H - OH - Prelim B	3,400.00	3,409.46	68.70	44.95	2.892 SF	
#204H - OH - Prelim A	9,892.32	9,742.84	719.70	648.51	10.109 CC	
#204H - OH - Prelim A	14,204.80	14,055.35	720.27	487.29	3.091 ES, SF	
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	7,865.96	7,708.56	1,041.64	989.37	19.928 CC, ES	
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	14,200.00	12,417.00	1,724.42	1,599.27	13.779 SF	
Stebbins Federal 19 (113-123-133-203)						
No. 123H - OH - OH	740.11	740.17	54.11	47.65	8.374 CC	
No. 123H - OH - OH	3,768.77	3,752.25	66.44	42.47	2.772 ES	
No. 123H - OH - OH	3,800.00	3,782.28	66.84	42.62	2.760 SF	

Offset Design										Stebbins Federal 19 - #127H - OH - Prelim A		Offset Site Error:		3.30/usft	
Survey Program: 0-MWD+HDGM												Offset Well Error:		0.00/usft	
Reference		Offset		Semi-Major Axis			Distance								
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning			
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)				
0.00	0.00	1.00	1.00	0.00	0.00	-135.94	-31.00	-30.00	43.14						
100.00	100.00	101.00	101.00	0.13	0.13	-135.94	-31.00	-30.00	43.14	42.88	0.26	165.989			
200.00	200.00	201.00	201.00	0.49	0.49	-135.94	-31.00	-30.00	43.14	42.16	0.98	44.162			
300.00	300.00	301.00	301.00	0.85	0.85	-135.94	-31.00	-30.00	43.14	41.45	1.69	25.469			
400.00	400.00	401.00	401.00	1.20	1.21	-135.94	-31.00	-30.00	43.14	40.73	2.41	17.895			
500.00	500.00	501.00	501.00	1.56	1.57	-135.94	-31.00	-30.00	43.14	40.01	3.13	13.793			
600.00	600.00	601.00	601.00	1.92	1.92	-135.94	-31.00	-30.00	43.14	39.29	3.84	11.221			
700.00	700.00	701.00	701.00	2.28	2.28	-135.94	-31.00	-30.00	43.14	38.58	4.56	9.457			
800.00	800.00	801.00	801.00	2.64	2.64	-135.94	-31.00	-30.00	43.14	37.86	5.28	8.173			
900.00	900.00	901.00	901.00	3.00	3.00	-135.94	-31.00	-30.00	43.14	37.14	6.00	7.195			
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	-135.94	-31.00	-30.00	43.14	36.43	6.71	6.427			
1,100.00	1,100.00	1,101.00	1,101.00	3.71	3.72	-135.94	-31.00	-30.00	43.14	35.71	7.43	5.807			
1,200.00	1,200.00	1,201.00	1,201.00	4.07	4.07	-135.94	-31.00	-30.00	43.14	34.99	8.15	5.296			

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

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Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #127H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD-HDGM													3.30 usft
Reference Offset Semi-Major Axis Distance													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,300.00	1,300.00	1,301.00	1,301.00	4.43	4.43	-135.94	-31.00	-30.00	43.14	34.28	8.86	4.867	
1,400.00	1,400.00	1,401.00	1,401.00	4.79	4.79	-135.94	-31.00	-30.00	43.14	33.56	9.58	4.503	
1,500.00	1,500.00	1,501.00	1,501.00	5.15	5.15	-135.94	-31.00	-30.00	43.14	32.84	10.30	4.189 CC, ES	
1,600.00	1,600.00	1,600.20	1,600.18	5.51	5.49	-137.91	-32.69	-29.52	44.05	33.06	10.99	4.008	
1,700.00	1,700.00	1,699.17	1,699.01	5.86	5.81	-143.25	-37.66	-28.12	47.04	35.38	11.67	4.032	
1,800.00	1,800.00	1,797.66	1,797.13	6.22	6.14	-150.64	-45.87	-25.80	52.77	40.44	12.33	4.279	
1,900.00	1,900.00	1,895.46	1,894.20	6.58	6.47	-158.45	-57.23	-22.60	61.90	48.92	12.99	4.767	
2,000.00	2,000.00	1,992.33	1,989.91	6.94	6.80	-165.49	-71.61	-18.54	74.80	61.18	13.62	5.493	
2,100.00	2,099.99	2,088.32	2,084.19	7.28	7.14	-172.67	-88.93	-13.65	90.77	76.56	14.21	6.386	
2,200.00	2,199.96	2,186.73	2,180.55	7.61	7.51	-179.72	-108.17	-8.22	107.24	92.38	14.86	7.216	
2,300.00	2,299.86	2,285.44	2,277.20	7.93	7.88	-186.80	-127.46	-2.77	122.45	106.93	15.52	7.889	
2,400.00	2,399.68	2,384.41	2,374.11	8.27	8.26	-193.33	-146.80	2.69	136.22	120.02	16.19	8.412	
2,500.00	2,499.37	2,483.61	2,471.25	8.60	8.65	-18.08	-166.19	8.16	148.44	131.57	16.87	8.798	
2,600.00	2,598.90	2,583.02	2,568.58	8.94	9.05	-17.20	-185.62	13.65	159.06	141.50	17.56	9.058	
2,700.00	2,698.26	2,682.60	2,666.09	9.28	9.45	-16.61	-205.09	19.14	168.05	149.79	18.25	9.206	
2,800.00	2,797.40	2,782.32	2,763.74	9.63	9.86	-16.24	-224.58	24.64	175.38	156.42	18.95	9.253	
2,900.00	2,896.30	2,882.16	2,861.49	9.98	10.27	-16.05	-244.09	30.15	181.04	161.38	19.66	9.209	
3,000.00	2,994.93	2,982.08	2,959.33	10.34	10.69	-16.03	-263.62	35.66	185.03	164.65	20.37	9.083	
3,100.00	3,093.26	3,082.05	3,057.22	10.71	11.11	-16.16	-283.16	41.18	187.34	166.25	21.09	8.883	
3,200.00	3,191.25	3,182.04	3,155.12	11.08	11.53	-16.44	-302.71	46.70	187.97	166.16	21.81	8.618	
3,300.00	3,288.92	3,282.03	3,253.03	11.47	11.96	-16.86	-322.25	52.21	187.15	164.61	22.54	8.303	
3,400.00	3,386.55	3,382.02	3,350.93	11.86	12.39	-17.29	-341.79	57.73	186.14	162.86	23.27	7.997	
3,500.00	3,484.18	3,482.00	3,448.83	12.26	12.82	-17.74	-361.33	63.24	185.13	161.12	24.01	7.710	
3,600.00	3,581.81	3,581.99	3,546.73	12.66	13.25	-18.19	-380.88	68.76	184.13	159.38	24.76	7.438	
3,700.00	3,679.44	3,681.97	3,644.63	13.06	13.69	-18.64	-400.42	74.28	183.15	157.64	25.50	7.181	
3,800.00	3,777.07	3,781.95	3,742.53	13.48	14.12	-19.10	-419.96	79.79	182.17	155.92	26.25	6.939	
3,900.00	3,874.70	3,881.94	3,840.43	13.89	14.56	-19.56	-439.50	85.31	181.21	154.20	27.01	6.709	
4,000.00	3,972.33	3,981.92	3,938.33	14.31	15.00	-20.03	-459.05	90.83	180.26	152.49	27.77	6.492	
4,100.00	4,069.96	4,081.91	4,036.23	14.73	15.44	-20.50	-478.59	96.34	179.32	150.79	28.53	6.286	
4,200.00	4,167.59	4,181.89	4,134.14	15.15	15.88	-20.98	-498.13	101.86	178.40	149.10	29.30	6.090	
4,300.00	4,265.22	4,281.88	4,232.04	15.58	16.32	-21.46	-517.67	107.37	177.49	147.42	30.07	5.903	
4,400.00	4,362.85	4,381.86	4,329.94	16.01	16.76	-21.95	-537.22	112.89	176.59	145.75	30.84	5.726	
4,500.00	4,460.48	4,481.85	4,427.84	16.44	17.21	-22.44	-556.76	118.41	175.70	144.09	31.61	5.558	
4,600.00	4,558.11	4,581.83	4,525.74	16.88	17.65	-22.94	-576.30	123.92	174.83	142.43	32.39	5.397	
4,700.00	4,655.74	4,681.82	4,623.64	17.31	18.10	-23.44	-595.84	129.44	173.96	140.79	33.18	5.243	
4,800.00	4,753.37	4,781.80	4,721.54	17.75	18.54	-23.94	-615.38	134.96	173.12	139.15	33.96	5.097	
4,900.00	4,850.99	4,881.79	4,819.44	18.19	18.99	-24.46	-634.93	140.47	172.28	137.53	34.75	4.957	
5,000.00	4,948.62	4,981.77	4,917.34	18.63	19.44	-24.97	-654.47	145.99	171.46	135.92	35.55	4.823	
5,100.00	5,046.25	5,081.75	5,015.24	19.07	19.88	-25.50	-674.01	151.51	170.66	134.31	36.35	4.695	
5,200.00	5,143.88	5,181.74	5,113.14	19.52	20.33	-26.02	-693.55	157.02	169.87	132.72	37.15	4.573	
5,300.00	5,241.51	5,281.72	5,211.05	19.96	20.78	-26.55	-713.10	162.54	169.09	131.14	37.95	4.456	
5,400.00	5,339.14	5,381.71	5,308.95	20.41	21.23	-27.09	-732.64	168.05	168.33	129.57	38.76	4.343	
5,500.00	5,436.77	5,481.69	5,406.85	20.85	21.68	-27.63	-752.18	173.57	167.58	128.01	39.57	4.235	
5,600.00	5,534.40	5,581.68	5,504.75	21.30	22.13	-28.18	-771.72	179.09	166.85	126.46	40.39	4.131	
5,700.00	5,632.03	5,681.66	5,602.65	21.75	22.58	-28.73	-791.27	184.60	166.13	124.93	41.20	4.032	
5,800.00	5,729.66	5,781.65	5,700.55	22.20	23.03	-29.28	-810.81	190.12	165.43	123.41	42.03	3.936	
5,900.00	5,827.29	5,881.63	5,798.45	22.65	23.48	-29.84	-830.35	195.64	164.75	121.89	42.85	3.844	
6,000.00	5,924.92	5,981.62	5,896.35	23.11	23.93	-30.41	-849.89	201.15	164.08	120.39	43.68	3.756	
6,100.00	6,022.55	6,081.60	5,994.25	23.56	24.38	-30.98	-869.44	206.67	163.42	118.91	44.52	3.671	
6,200.00	6,120.18	6,181.59	6,092.15	24.01	24.84	-31.55	-888.98	212.18	162.79	117.43	45.35	3.589	
6,300.00	6,217.81	6,281.57	6,190.05	24.47	25.29	-32.13	-908.52	217.70	162.16	115.97	46.20	3.510	
6,400.00	6,315.44	6,381.55	6,287.96	24.92	25.74	-32.71	-928.06	223.22	161.56	114.52	47.04	3.434	

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

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Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #127H - OH - Prelim A											Offset Site Error: 3.30 usft		
Survey Program: 0-MWD+HDDGM											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)			
6,500.00	6,413.07	6,481.54	6,385.86	25.38	26.19	33.30	-947.61	228.73	160.97	113.08	47.89	3.361	
6,600.00	6,510.70	6,581.52	6,483.76	25.83	26.65	33.89	-967.15	234.25	160.40	111.66	48.75	3.291	
6,700.00	6,608.33	6,681.51	6,581.66	26.29	27.10	34.49	-986.69	239.77	159.85	110.25	49.60	3.223	
6,800.00	6,705.96	6,781.49	6,679.56	26.75	27.55	35.09	-1,006.23	245.28	159.31	108.85	50.47	3.157	
6,900.00	6,803.58	6,885.02	6,781.13	27.20	28.01	35.91	-1,025.51	250.72	157.98	106.59	51.39	3.074	
7,000.00	6,901.21	6,989.58	6,884.35	27.66	28.46	37.52	-1,041.50	255.24	153.77	101.40	52.37	2.936	
7,100.00	6,998.84	7,093.56	6,987.54	28.12	28.87	40.09	-1,053.80	258.71	146.75	93.36	53.39	2.748	
7,200.00	7,096.47	7,196.70	7,090.28	28.58	29.25	43.89	-1,062.43	261.14	137.28	82.77	54.51	2.519	
7,300.00	7,194.26	7,298.87	7,192.31	29.03	29.60	49.04	-1,067.46	262.57	126.46	70.71	55.75	2.268	
7,400.00	7,292.40	7,399.11	7,292.54	29.48	29.91	55.64	-1,069.01	262.98	115.65	58.49	57.16	2.023	
7,457.48	7,348.96	7,446.70	7,340.05	29.72	30.05	59.57	-1,070.32	261.03	112.83	54.75	58.08	1.943 SF	
7,500.00	7,390.86	7,481.75	7,374.84	29.91	30.17	62.72	-1,072.69	257.50	114.40	55.89	58.51	1.955	
7,600.00	7,489.61	7,562.07	7,453.12	30.33	30.43	69.55	-1,082.56	242.82	130.25	71.80	58.45	2.228	
7,700.00	7,588.62	7,637.08	7,523.33	30.74	30.69	74.35	-1,097.21	221.03	161.53	104.35	57.18	2.825	
7,800.00	7,687.86	7,704.88	7,583.35	31.13	30.92	77.18	-1,114.74	194.93	205.52	150.27	55.25	3.720	
7,900.00	7,787.30	7,764.71	7,632.92	31.52	31.13	78.81	-1,133.40	167.16	259.71	206.65	53.06	4.895	
8,000.00	7,886.91	7,816.71	7,672.96	31.89	31.31	79.83	-1,151.89	139.65	322.08	271.23	50.85	6.334	
8,100.00	7,986.66	7,862.98	7,705.99	32.25	31.47	80.66	-1,169.78	112.65	390.95	342.06	48.89	7.997	
8,200.00	8,086.51	7,900.00	7,730.89	32.60	31.60	81.74	-1,183.67	89.04	464.64	417.79	46.85	9.917	
8,300.00	8,186.44	7,950.00	7,762.30	32.93	31.75	83.11	-1,201.19	54.33	542.11	495.79	46.32	11.703	
8,400.00	8,286.43	7,975.25	7,777.12	33.26	31.82	84.55	-1,209.46	35.65	622.57	578.06	44.52	13.986	
8,500.00	8,386.43	8,000.00	7,790.94	33.56	31.89	-113.30	-1,217.17	16.62	705.71	662.55	43.16	16.352	
8,600.00	8,486.43	8,029.60	7,806.51	33.85	31.96	-113.11	-1,225.86	-7.01	790.87	748.49	42.37	18.664	
8,700.00	8,586.43	8,050.00	7,816.61	34.15	32.01	-112.91	-1,231.50	-23.81	877.79	836.37	41.41	21.196	
8,800.00	8,686.43	8,072.57	7,827.16	34.44	32.06	-112.65	-1,237.39	-42.87	966.16	925.40	40.77	23.700	
8,900.00	8,786.26	8,100.00	7,839.10	34.75	32.13	9.55	-1,244.05	-66.65	1,054.00	1,013.66	40.34	26.129	
9,000.00	8,884.01	8,114.72	7,845.09	35.08	32.16	7.76	-1,247.40	-79.67	1,134.55	1,095.36	39.19	28.948	
9,100.00	8,976.71	8,150.00	7,858.24	35.41	32.24	7.05	-1,254.74	-111.57	1,206.50	1,168.02	38.49	31.350	
9,200.00	9,061.56	8,166.64	7,863.84	35.73	32.28	6.41	-1,257.87	-126.92	1,268.40	1,231.29	37.11	34.183	
9,300.00	9,136.02	8,200.00	7,873.89	36.04	32.35	5.79	-1,263.48	-158.23	1,319.88	1,283.78	36.11	36.555	
9,400.00	9,200.04	8,223.43	7,879.99	36.31	32.40	3.43	-1,266.89	-180.59	1,362.02	1,327.09	34.92	39.001	
9,500.00	9,252.82	8,250.00	7,885.93	36.51	32.47	1.97	-1,270.21	-206.27	1,395.11	1,361.15	33.96	41.083	
9,600.00	9,292.75	8,284.12	7,892.02	36.68	32.55	1.07	-1,273.63	-239.66	1,418.44	1,385.11	33.33	42.557	
9,700.00	9,318.61	8,300.00	7,894.26	36.82	32.59	0.44	-1,274.88	-255.33	1,431.90	1,399.13	32.77	43.699	
9,800.00	9,329.61	8,350.00	7,898.83	37.00	32.74	0.07	-1,277.45	-305.04	1,434.45	1,401.58	32.87	43.641	
9,900.00	9,330.00	8,385.01	7,899.77	37.28	32.85	-0.01	-1,277.99	-340.03	1,431.41	1,398.28	33.14	43.199	
9,943.18	9,330.00	8,405.86	7,899.77	37.46	32.93	-0.01	-1,278.00	-360.88	1,431.23	1,397.89	33.35	42.918	
10,000.00	9,330.00	8,462.68	7,899.77	37.76	33.18	-0.01	-1,278.02	-417.70	1,431.23	1,397.53	33.70	42.471	
10,100.00	9,330.00	8,562.68	7,899.77	38.47	33.79	-0.01	-1,278.07	-517.70	1,431.23	1,396.86	34.37	41.647	
10,200.00	9,330.00	8,662.68	7,899.78	39.37	34.62	-0.01	-1,278.12	-617.70	1,431.22	1,396.13	35.09	40.787	
10,300.00	9,330.00	8,762.68	7,899.79	40.42	35.64	-0.01	-1,278.16	-717.70	1,431.21	1,395.35	35.87	39.901	
10,400.00	9,330.00	8,862.68	7,899.79	41.60	36.82	-0.01	-1,278.21	-817.70	1,431.21	1,394.51	36.70	38.999	
10,500.00	9,330.00	8,962.68	7,899.80	42.88	38.12	-0.01	-1,278.26	-917.70	1,431.20	1,393.63	37.58	38.088	
10,600.00	9,330.00	9,062.68	7,899.80	44.26	39.53	-0.01	-1,278.30	-1,017.70	1,431.20	1,392.70	38.50	37.176	
10,700.00	9,330.00	9,162.68	7,899.81	45.71	41.03	-0.01	-1,278.35	-1,117.70	1,431.19	1,391.73	39.46	36.270	
10,800.00	9,330.00	9,262.68	7,899.81	47.24	42.61	-0.01	-1,278.40	-1,217.70	1,431.19	1,390.73	40.46	35.373	
10,900.00	9,330.00	9,362.68	7,899.82	48.83	44.25	-0.01	-1,278.45	-1,317.70	1,431.18	1,389.69	41.50	34.490	
11,000.00	9,330.00	9,462.68	7,899.82	50.47	45.96	-0.01	-1,278.49	-1,417.70	1,431.18	1,388.61	42.56	33.624	
11,100.00	9,330.00	9,562.68	7,899.83	52.17	47.72	-0.01	-1,278.54	-1,517.70	1,431.17	1,387.51	43.66	32.778	
11,200.00	9,330.00	9,662.68	7,899.84	53.91	49.52	-0.01	-1,278.59	-1,617.70	1,431.17	1,386.38	44.79	31.953	
11,300.00	9,330.00	9,762.68	7,899.84	55.69	51.36	-0.01	-1,278.63	-1,717.70	1,431.16	1,385.22	45.94	31.152	
11,400.00	9,330.00	9,862.68	7,899.85	57.52	53.25	-0.01	-1,278.68	-1,817.70	1,431.15	1,384.04	47.12	30.374	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Pat 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Pat 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim-C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #127H - OH - Prelim A													Offset Site Error: 3.30 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,500.00	9,330.00	9,962.68	7,899.85	59.37	55.16	-0.01	-1,278.73	-1,917.70	1,431.15	1,382.83	48.32	29.620	
11,600.00	9,330.00	10,062.68	7,899.86	61.26	57.11	-0.01	-1,278.78	-2,017.70	1,431.14	1,381.61	49.54	28.891	
11,700.00	9,330.00	10,162.68	7,899.86	63.17	59.08	-0.01	-1,278.82	-2,117.70	1,431.14	1,380.36	50.77	28.186	
11,800.00	9,330.00	10,262.68	7,899.87	65.11	61.07	-0.01	-1,278.87	-2,217.70	1,431.13	1,379.10	52.03	27.506	
11,900.00	9,330.00	10,362.68	7,899.87	67.07	63.09	-0.01	-1,278.92	-2,317.70	1,431.13	1,377.82	53.30	26.849	
12,000.00	9,330.00	10,462.68	7,899.88	69.06	65.12	-0.01	-1,278.96	-2,417.70	1,431.12	1,376.53	54.59	26.215	
12,100.00	9,330.00	10,562.68	7,899.88	71.06	67.17	-0.01	-1,279.01	-2,517.70	1,431.12	1,375.22	55.89	25.604	
12,200.00	9,330.00	10,662.68	7,899.89	73.09	69.24	0.00	-1,279.06	-2,617.70	1,431.11	1,373.90	57.21	25.015	
12,300.00	9,330.00	10,762.68	7,899.90	75.12	71.33	0.00	-1,279.10	-2,717.70	1,431.10	1,372.57	58.54	24.448	
12,400.00	9,330.00	10,862.68	7,899.90	77.18	73.42	0.00	-1,279.15	-2,817.70	1,431.10	1,371.22	59.88	23.901	
12,500.00	9,330.00	10,962.68	7,899.91	79.25	75.53	0.00	-1,279.20	-2,917.70	1,431.09	1,369.87	61.23	23.373	
12,600.00	9,330.00	11,062.68	7,899.91	81.33	77.66	0.00	-1,279.25	-3,017.70	1,431.09	1,368.50	62.59	22.865	
12,700.00	9,330.00	11,162.68	7,899.92	83.42	79.79	0.00	-1,279.29	-3,117.70	1,431.08	1,367.12	63.96	22.375	
12,800.00	9,330.00	11,262.68	7,899.92	85.52	81.93	0.00	-1,279.34	-3,217.70	1,431.08	1,365.74	65.34	21.903	
12,900.00	9,330.00	11,362.68	7,899.93	87.64	84.08	0.00	-1,279.39	-3,317.70	1,431.07	1,364.35	66.72	21.447	
13,000.00	9,330.00	11,462.68	7,899.93	89.76	86.24	0.00	-1,279.43	-3,417.70	1,431.07	1,362.95	68.12	21.008	
13,100.00	9,330.00	11,562.68	7,899.94	91.89	88.40	0.00	-1,279.48	-3,517.70	1,431.06	1,361.54	69.52	20.584	
13,200.00	9,330.00	11,662.68	7,899.95	94.03	90.57	0.00	-1,279.53	-3,617.70	1,431.06	1,360.12	70.93	20.175	
13,300.00	9,330.00	11,762.68	7,899.95	96.18	92.75	0.00	-1,279.57	-3,717.70	1,431.05	1,358.70	72.35	19.780	
13,400.00	9,330.00	11,862.68	7,899.96	98.34	94.94	0.00	-1,279.62	-3,817.70	1,431.04	1,357.27	73.77	19.398	
13,500.00	9,330.00	11,962.68	7,899.96	100.50	97.13	0.00	-1,279.67	-3,917.70	1,431.04	1,355.84	75.20	19.030	
13,600.00	9,330.00	12,062.68	7,899.97	102.67	99.33	0.00	-1,279.72	-4,017.70	1,431.03	1,354.40	76.63	18.674	
13,700.00	9,330.00	12,162.68	7,899.97	104.84	101.53	0.00	-1,279.76	-4,117.70	1,431.03	1,352.96	78.07	18.330	
13,800.00	9,330.00	12,262.68	7,899.98	107.02	103.73	0.00	-1,279.81	-4,217.70	1,431.02	1,351.51	79.52	17.997	
13,900.00	9,330.00	12,362.68	7,899.98	109.21	105.94	0.00	-1,279.86	-4,317.70	1,431.02	1,350.05	80.96	17.675	
14,000.00	9,330.00	12,462.68	7,899.99	111.40	108.16	0.00	-1,279.90	-4,417.70	1,431.01	1,348.59	82.42	17.363	
14,100.00	9,330.00	12,562.68	7,899.99	113.59	110.38	0.00	-1,279.95	-4,517.70	1,431.01	1,347.13	83.87	17.061	
14,200.00	9,330.00	12,662.68	7,900.00	115.79	112.60	0.00	-1,280.00	-4,617.70	1,431.00	1,345.67	85.33	16.769	
14,204.80	9,330.00	12,667.49	7,900.00	115.92	112.72	0.00	-1,280.00	-4,622.51	1,431.00	1,345.60	85.40	16.756	

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #137H - OH - Prelim A											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	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
0.00	0.00	5.00	-5.00	0.00	0.01	172.77	-2,168.00	275.00	2,185.37			
100.00	100.00	105.00	95.00	0.13	0.15	172.77	-2,168.00	275.00	2,185.37	2,185.10	0.27	7,969.088
200.00	200.00	205.00	195.00	0.49	0.50	172.77	-2,168.00	275.00	2,185.37	2,184.38	0.99	2,204.831
300.00	300.00	305.00	295.00	0.85	0.86	172.77	-2,168.00	275.00	2,185.37	2,183.66	1.71	1,279.404
400.00	400.00	405.00	395.00	1.20	1.22	172.77	-2,168.00	275.00	2,185.37	2,182.95	2.43	901.162
500.00	500.00	505.00	495.00	1.56	1.58	172.77	-2,168.00	275.00	2,185.37	2,182.23	3.14	695.534
600.00	600.00	605.00	595.00	1.92	1.94	172.77	-2,168.00	275.00	2,185.37	2,181.51	3.86	566.313
700.00	700.00	705.00	695.00	2.28	2.30	172.77	-2,168.00	275.00	2,185.37	2,180.80	4.58	477.584
800.00	800.00	805.00	795.00	2.64	2.66	172.77	-2,168.00	275.00	2,185.37	2,180.08	5.29	412.893
900.00	900.00	905.00	895.00	3.00	3.01	172.77	-2,168.00	275.00	2,185.37	2,179.36	6.01	363.636
1,000.00	1,000.00	1,005.00	995.00	3.35	3.37	172.77	-2,168.00	275.00	2,185.37	2,178.64	6.73	324.879
1,100.00	1,100.00	1,105.00	1,095.00	3.71	3.73	172.77	-2,168.00	275.00	2,185.37	2,177.93	7.44	293.588
1,200.00	1,200.00	1,205.00	1,195.00	4.07	4.09	172.77	-2,168.00	275.00	2,185.37	2,177.21	8.16	267.795
1,300.00	1,300.00	1,305.00	1,295.00	4.43	4.45	172.77	-2,168.00	275.00	2,185.37	2,176.49	8.88	246.168
1,400.00	1,400.00	1,395.00	1,395.00	4.79	4.77	172.77	-2,168.00	275.00	2,185.37	2,175.81	9.56	228.628
1,500.00	1,500.00	1,550.65	1,550.64	5.15	5.33	172.76	-2,166.03	275.24	2,184.16	2,173.69	10.47	208.562
1,600.00	1,600.00	1,709.01	1,708.86	5.51	5.90	172.72	-2,159.73	276.03	2,180.28	2,168.89	11.39	191.432
1,700.00	1,700.00	1,866.89	1,866.38	5.86	6.46	172.65	-2,149.13	277.35	2,173.72	2,161.42	12.30	176.766
1,800.00	1,800.00	2,024.07	2,022.84	6.22	7.03	172.55	-2,134.31	279.19	2,164.51	2,151.32	13.19	164.042
1,900.00	1,900.00	2,180.31	2,177.90	6.58	7.60	172.42	-2,115.35	281.55	2,152.68	2,138.60	14.08	152.871
2,000.00	2,000.00	2,335.39	2,331.24	6.94	8.17	172.26	-2,092.40	284.41	2,138.24	2,123.29	14.96	142.960
2,100.00	2,099.99	2,488.86	2,482.32	7.28	8.76	10.88	-2,065.64	287.74	2,120.40	2,104.60	15.80	134.179
2,200.00	2,199.96	2,640.13	2,630.47	7.61	9.35	10.72	-2,035.34	291.51	2,098.37	2,081.75	16.62	126.253
2,300.00	2,299.86	2,761.86	2,749.12	7.93	9.84	10.60	-2,008.36	294.87	2,072.56	2,055.20	17.36	119.380
2,400.00	2,399.68	2,857.82	2,842.58	8.27	10.23	10.51	-1,986.75	297.56	2,044.83	2,026.79	18.04	113.341
2,500.00	2,499.37	2,953.31	2,935.57	8.60	10.62	10.44	-1,965.24	300.24	2,015.47	1,996.75	18.72	107.649
2,600.00	2,598.90	3,048.29	3,028.08	8.94	11.02	10.37	-1,943.85	302.90	1,984.48	1,965.08	19.40	102.271
2,700.00	2,698.26	3,142.74	3,120.07	9.28	11.42	10.31	-1,922.58	305.55	1,951.87	1,931.78	20.09	97.178
2,800.00	2,797.40	3,236.63	3,211.51	9.63	11.82	10.27	-1,901.44	308.18	1,917.65	1,896.88	20.77	92.344
2,900.00	2,896.30	3,329.93	3,302.38	9.98	12.21	10.23	-1,880.43	310.79	1,881.83	1,860.38	21.45	87.746
3,000.00	2,994.93	3,422.62	3,392.64	10.34	12.61	10.20	-1,859.56	313.39	1,844.41	1,822.29	22.13	83.362
3,100.00	3,093.26	3,514.66	3,482.28	10.71	13.01	10.17	-1,838.83	315.97	1,805.41	1,782.61	22.80	79.174
3,200.00	3,191.25	3,606.02	3,571.26	11.08	13.41	10.16	-1,818.26	318.53	1,764.84	1,741.36	23.48	75.166
3,300.00	3,288.92	3,696.77	3,659.64	11.47	13.80	10.12	-1,797.82	321.08	1,722.91	1,698.75	24.15	71.330
3,400.00	3,386.55	3,787.43	3,747.94	11.86	14.20	10.03	-1,777.40	323.62	1,680.78	1,655.95	24.83	67.695
3,500.00	3,484.18	3,878.10	3,836.24	12.26	14.60	9.94	-1,756.98	326.16	1,638.65	1,613.15	25.51	64.246
3,600.00	3,581.81	3,968.76	3,924.54	12.66	15.00	9.85	-1,736.57	328.70	1,596.53	1,570.34	26.19	60.969
3,700.00	3,679.44	4,059.42	4,012.83	13.06	15.40	9.75	-1,716.15	331.24	1,554.41	1,527.54	26.87	57.852
3,800.00	3,777.07	4,150.09	4,101.13	13.48	15.80	9.64	-1,695.73	333.78	1,512.30	1,484.74	27.55	54.885
3,900.00	3,874.70	4,240.75	4,189.43	13.89	16.20	9.53	-1,675.32	336.32	1,470.19	1,441.95	28.24	52.058
4,000.00	3,972.33	4,331.41	4,277.73	14.31	16.61	9.41	-1,654.90	338.87	1,428.08	1,399.15	28.93	49.362
4,100.00	4,069.96	4,422.07	4,366.02	14.73	17.01	9.28	-1,634.48	341.41	1,385.98	1,356.36	29.62	46.789
4,200.00	4,167.59	4,512.74	4,454.32	15.15	17.42	9.15	-1,614.07	343.95	1,343.89	1,313.58	30.32	44.330
4,300.00	4,265.22	4,590.97	4,530.57	15.58	17.77	9.03	-1,596.73	346.11	1,302.14	1,271.13	31.01	41.993
4,400.00	4,362.85	4,666.21	4,604.13	16.01	18.10	8.92	-1,580.99	348.07	1,261.50	1,229.79	31.70	39.791
4,500.00	4,460.48	4,742.31	4,678.72	16.44	18.43	8.82	-1,566.05	349.92	1,222.02	1,189.62	32.40	37.717
4,600.00	4,558.11	4,819.24	4,754.33	16.88	18.76	8.73	-1,551.94	351.68	1,183.71	1,150.62	33.10	35.764
4,700.00	4,655.74	4,897.00	4,830.93	17.31	19.08	8.65	-1,538.71	353.33	1,146.61	1,112.81	33.80	33.926
4,800.00	4,753.37	4,975.57	4,908.51	17.75	19.41	8.59	-1,526.39	354.86	1,110.71	1,076.22	34.50	32.197
4,900.00	4,850.99	5,054.93	4,987.04	18.19	19.73	8.54	-1,515.02	356.28	1,076.05	1,040.86	35.20	30.573
5,000.00	4,948.62	5,135.06	5,066.49	18.63	20.04	8.50	-1,504.64	357.57	1,042.64	1,006.74	35.89	29.047
5,100.00	5,046.25	5,215.94	5,146.82	19.07	20.36	8.49	-1,495.28	358.73	1,010.49	973.90	36.59	27.615

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #137H - OH - Prelim A														Offset Site Error:	3.30 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning:		
5,200.00	5,143.88	5,297.55	5,228.00	19.52	20.67	8.49	-1,486.97	359.77	979.62	942.34	37.29	26.272			
5,300.00	5,241.51	5,379.87	5,309.99	19.96	20.97	8.52	-1,479.76	360.67	950.06	912.08	37.98	25.015			
5,400.00	5,339.14	5,462.87	5,392.77	20.41	21.27	8.57	-1,473.67	361.42	921.81	883.14	38.67	23.838			
5,500.00	5,436.77	5,546.53	5,476.27	20.85	21.57	8.65	-1,468.73	362.04	894.89	855.54	39.35	22.739			
5,600.00	5,534.40	5,630.81	5,560.47	21.30	21.86	8.76	-1,464.99	362.50	869.33	829.29	40.04	21.714			
5,700.00	5,632.03	5,715.68	5,645.30	21.75	22.15	8.90	-1,462.46	362.82	845.13	804.42	40.71	20.758			
5,800.00	5,729.66	5,801.13	5,730.74	22.20	22.43	9.08	-1,461.17	362.98	822.32	780.94	41.38	19.870			
5,900.00	5,827.29	5,907.32	5,822.29	22.65	22.77	9.30	-1,461.00	363.00	800.76	758.64	42.12	19.011			
6,000.00	5,924.92	6,009.69	5,919.92	23.11	23.10	9.56	-1,461.00	363.00	779.39	736.55	42.85	18.190			
6,100.00	6,022.55	6,087.94	6,017.55	23.56	23.36	9.83	-1,461.00	363.00	758.04	714.55	43.49	17.430			
6,200.00	6,120.18	6,185.57	6,115.18	24.01	23.67	10.12	-1,461.00	363.00	736.71	692.51	44.20	16.667			
6,300.00	6,217.81	6,283.20	6,212.81	24.47	23.99	10.42	-1,461.00	363.00	715.40	670.49	44.91	15.929			
6,400.00	6,315.44	6,380.83	6,310.44	24.92	24.31	10.75	-1,461.00	363.00	694.11	648.48	45.63	15.213			
6,500.00	6,413.07	6,478.46	6,408.07	25.38	24.63	11.09	-1,461.00	363.00	672.84	626.49	46.34	14.519			
6,600.00	6,510.70	6,576.09	6,505.70	25.83	24.95	11.46	-1,461.00	363.00	651.59	604.53	47.06	13.846			
6,700.00	6,608.33	6,673.72	6,603.33	26.29	25.27	11.85	-1,461.00	363.00	630.37	582.59	47.78	13.194			
6,800.00	6,705.96	6,771.35	6,700.96	26.75	25.59	12.26	-1,461.00	363.00	609.18	560.68	48.50	12.561			
6,900.00	6,803.58	6,868.98	6,798.58	27.20	25.91	12.71	-1,461.00	363.00	588.03	538.81	49.22	11.947			
7,000.00	6,901.21	6,966.61	6,896.21	27.66	26.24	13.19	-1,461.00	363.00	566.91	516.96	49.94	11.351			
7,100.00	6,998.84	7,064.24	6,993.84	28.12	26.56	13.71	-1,461.00	363.00	545.83	495.16	50.67	10.772			
7,200.00	7,096.47	7,161.86	7,091.47	28.58	26.89	14.27	-1,461.00	363.00	524.80	473.40	51.40	10.210			
7,300.00	7,194.26	7,259.66	7,189.26	29.03	27.21	14.80	-1,461.00	363.00	504.54	452.41	52.13	9.679			
7,400.00	7,292.40	7,357.79	7,287.40	29.48	27.54	15.33	-1,461.00	363.00	485.98	433.12	52.86	9.194			
7,500.00	7,390.86	7,456.25	7,385.86	29.91	27.87	15.85	-1,461.00	363.00	469.13	415.54	53.59	8.754			
7,600.00	7,489.61	7,555.00	7,484.61	30.33	28.20	16.35	-1,461.00	363.00	453.98	399.65	54.32	8.357			
7,700.00	7,588.62	7,654.01	7,583.62	30.74	28.53	16.82	-1,461.00	363.00	440.52	385.47	55.05	8.002			
7,800.00	7,687.86	7,753.25	7,682.86	31.13	28.86	17.26	-1,461.00	363.00	428.75	372.97	55.78	7.687			
7,900.00	7,787.30	7,852.69	7,782.30	31.52	29.20	17.66	-1,461.00	363.00	418.67	362.16	56.50	7.410			
8,000.00	7,886.91	7,952.30	7,881.91	31.89	29.53	18.01	-1,461.00	363.00	410.26	353.04	57.22	7.170			
8,100.00	7,986.66	8,052.05	7,981.66	32.25	29.87	18.30	-1,461.00	363.00	403.52	345.58	57.93	6.965			
8,200.00	8,086.51	8,151.90	8,081.51	32.60	30.21	18.52	-1,461.00	363.00	398.44	339.80	58.64	6.794			
8,300.00	8,186.44	8,266.18	8,195.75	32.93	30.60	18.89	-1,460.24	361.69	394.53	335.19	59.34	6.649			
8,400.00	8,286.43	8,411.43	8,337.75	33.26	31.11	22.75	-1,445.90	336.84	383.22	323.45	59.77	6.412			
8,500.00	8,386.43	8,535.74	8,450.28	33.56	31.55	-168.53	-1,419.77	291.59	365.49	304.91	60.59	6.033			
8,600.00	8,486.43	8,634.56	8,530.06	33.85	31.91	-159.34	-1,390.73	241.28	348.33	286.00	62.33	5.588			
8,694.05	8,580.47	8,697.79	8,575.47	34.13	32.16	-152.02	-1,369.01	203.07	340.86	276.90	63.96	5.330 CC			
8,700.00	8,586.43	8,700.00	8,576.98	34.15	32.16	-151.75	-1,368.25	201.64	340.89	276.89	64.00	5.326 ES, SF			
8,800.00	8,686.43	8,750.00	8,609.78	34.44	32.35	-145.47	-1,351.86	167.68	351.93	287.98	63.95	5.503			
8,900.00	8,786.26	8,787.85	8,632.78	34.75	32.50	-16.17	-1,340.36	139.91	378.50	316.78	61.72	6.133			
9,000.00	8,884.01	8,827.64	8,655.14	35.08	32.66	-11.01	-1,329.19	108.96	407.36	349.19	58.18	7.002			
9,100.00	8,976.71	8,866.95	8,675.28	35.41	32.82	-6.60	-1,319.12	76.75	435.94	382.14	53.80	8.103			
9,200.00	9,061.56	8,900.00	8,690.67	35.73	32.97	-3.34	-1,311.44	48.53	462.93	414.24	48.70	9.507			
9,300.00	9,136.02	8,950.00	8,711.10	36.04	33.20	-0.05	-1,301.23	4.07	487.22	442.53	44.69	10.903			
9,400.00	9,200.04	8,988.05	8,724.29	36.31	33.39	-1.23	-1,294.65	-31.00	510.56	470.10	40.47	12.616			
9,500.00	9,252.82	9,034.21	8,737.45	36.51	33.65	-1.09	-1,288.09	-74.74	532.03	494.54	37.49	14.190			
9,600.00	9,292.75	9,083.43	8,747.96	36.68	33.94	-0.64	-1,282.85	-122.53	549.47	513.94	35.54	15.462			
9,700.00	9,318.61	9,134.89	8,754.99	36.82	34.28	-0.23	-1,279.36	-173.37	561.36	526.81	34.54	16.251			
9,800.00	9,329.61	9,187.63	8,757.93	37.00	34.64	-0.03	-1,277.91	-225.98	566.74	532.31	34.43	16.462			
9,900.00	9,330.00	9,279.27	8,758.00	37.28	35.35	-0.02	-1,277.92	-317.62	567.00	532.07	34.92	16.235			
10,000.00	9,330.00	9,379.27	8,758.00	37.76	36.25	-0.02	-1,277.97	-417.62	567.00	531.50	35.50	15.971			
10,100.00	9,330.00	9,479.27	8,758.00	38.47	37.27	-0.02	-1,278.01	-517.62	567.00	530.86	36.14	15.690			
10,200.00	9,330.00	9,579.27	8,758.00	39.37	38.41	-0.02	-1,278.06	-617.62	567.00	530.17	36.83	15.395			

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt.809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt.809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #137H - OH - Prelim A												Offset Site Error:	3.30 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	9,330.00	9,679.27	8,758.00	40.42	39.66	-0.02	-1,278.11	-717.62	567.00	529.42	37.58	15.090	
10,400.00	9,330.00	9,779.27	8,758.00	41.60	41.00	-0.02	-1,278.16	-817.62	567.00	528.63	38.37	14.777	
10,500.00	9,330.00	9,879.27	8,758.00	42.88	42.42	-0.02	-1,278.21	-917.62	567.00	527.78	39.21	14.460	
10,600.00	9,330.00	9,979.27	8,758.00	44.26	43.92	-0.02	-1,278.26	-1,017.62	567.00	526.90	40.10	14.140	
10,700.00	9,330.00	10,079.27	8,758.00	45.71	45.49	-0.02	-1,278.30	-1,117.62	567.00	525.97	41.03	13.821	
10,800.00	9,330.00	10,179.27	8,758.00	47.24	47.12	-0.02	-1,278.35	-1,217.62	567.00	525.01	41.99	13.503	
10,900.00	9,330.00	10,279.27	8,758.00	48.83	48.81	-0.02	-1,278.40	-1,317.62	567.00	524.01	42.99	13.188	
11,000.00	9,330.00	10,379.27	8,758.00	50.47	50.54	-0.02	-1,278.45	-1,417.62	567.00	522.97	44.03	12.879	
11,100.00	9,330.00	10,479.27	8,758.00	52.17	52.32	-0.01	-1,278.50	-1,517.62	567.00	521.91	45.09	12.575	
11,200.00	9,330.00	10,579.27	8,758.00	53.91	54.14	-0.01	-1,278.55	-1,617.62	567.00	520.81	46.18	12.277	
11,300.00	9,330.00	10,679.27	8,758.00	55.69	56.00	-0.01	-1,278.59	-1,717.62	567.00	519.69	47.31	11.986	
11,400.00	9,330.00	10,779.27	8,758.00	57.52	57.89	-0.01	-1,278.64	-1,817.62	567.00	518.55	48.45	11.702	
11,500.00	9,330.00	10,879.27	8,758.00	59.37	59.81	-0.01	-1,278.69	-1,917.62	567.00	517.38	49.62	11.427	
11,600.00	9,330.00	10,979.27	8,758.00	61.26	61.75	-0.01	-1,278.74	-2,017.62	567.00	516.19	50.81	11.159	
11,700.00	9,330.00	11,079.27	8,758.00	63.17	63.72	-0.01	-1,278.79	-2,117.62	567.00	514.98	52.02	10.899	
11,800.00	9,330.00	11,179.27	8,758.00	65.11	65.71	-0.01	-1,278.84	-2,217.62	567.00	513.75	53.25	10.648	
11,900.00	9,330.00	11,279.27	8,758.00	67.07	67.73	-0.01	-1,278.88	-2,317.62	567.00	512.50	54.50	10.404	
12,000.00	9,330.00	11,379.27	8,758.00	69.06	69.76	-0.01	-1,278.93	-2,417.62	567.00	511.24	55.76	10.169	
12,100.00	9,330.00	11,479.27	8,758.00	71.06	71.80	-0.01	-1,278.98	-2,517.62	567.00	509.96	57.04	9.941	
12,200.00	9,330.00	11,579.27	8,758.00	73.09	73.86	-0.01	-1,279.03	-2,617.62	567.00	508.67	58.33	9.720	
12,300.00	9,330.00	11,679.27	8,758.00	75.12	75.94	-0.01	-1,279.08	-2,717.62	567.00	507.36	59.64	9.508	
12,400.00	9,330.00	11,779.27	8,758.00	77.18	78.03	-0.01	-1,279.13	-2,817.62	567.00	506.04	60.95	9.302	
12,500.00	9,330.00	11,879.27	8,758.00	79.25	80.13	-0.01	-1,279.18	-2,917.62	567.00	504.71	62.28	9.103	
12,600.00	9,330.00	11,979.27	8,758.00	81.33	82.25	-0.01	-1,279.22	-3,017.62	567.00	503.37	63.62	8.912	
12,700.00	9,330.00	12,079.27	8,758.00	83.42	84.37	-0.01	-1,279.27	-3,117.62	567.00	502.02	64.98	8.726	
12,800.00	9,330.00	12,179.27	8,758.00	85.52	86.50	-0.01	-1,279.32	-3,217.62	567.00	500.66	66.34	8.547	
12,900.00	9,330.00	12,279.27	8,758.00	87.64	88.64	-0.01	-1,279.37	-3,317.62	567.00	499.29	67.71	8.374	
13,000.00	9,330.00	12,379.27	8,758.00	89.76	90.79	-0.01	-1,279.42	-3,417.62	567.00	497.91	69.08	8.207	
13,100.00	9,330.00	12,479.27	8,758.00	91.89	92.95	-0.01	-1,279.47	-3,517.62	567.00	496.53	70.47	8.046	
13,200.00	9,330.00	12,579.27	8,758.00	94.03	95.11	0.00	-1,279.51	-3,617.62	567.00	495.14	71.86	7.890	
13,300.00	9,330.00	12,679.27	8,758.00	96.18	97.28	0.00	-1,279.56	-3,717.62	567.00	493.73	73.26	7.739	
13,400.00	9,330.00	12,779.27	8,758.00	98.34	99.46	0.00	-1,279.61	-3,817.62	567.00	492.33	74.67	7.593	
13,500.00	9,330.00	12,879.27	8,758.00	100.50	101.65	0.00	-1,279.66	-3,917.62	567.00	490.91	76.09	7.452	
13,600.00	9,330.00	12,979.27	8,758.00	102.67	103.83	0.00	-1,279.71	-4,017.62	567.00	489.49	77.51	7.316	
13,700.00	9,330.00	13,079.27	8,758.00	104.84	106.03	0.00	-1,279.76	-4,117.62	567.00	488.07	78.93	7.183	
13,800.00	9,330.00	13,179.27	8,758.00	107.02	108.23	0.00	-1,279.80	-4,217.62	567.00	486.64	80.36	7.056	
13,900.00	9,330.00	13,279.27	8,758.00	109.21	110.43	0.00	-1,279.85	-4,317.62	567.00	485.20	81.80	6.932	
14,000.00	9,330.00	13,379.27	8,758.00	111.40	112.63	0.00	-1,279.90	-4,417.62	567.00	483.76	83.24	6.812	
14,100.00	9,330.00	13,479.27	8,758.00	113.59	114.85	0.00	-1,279.95	-4,517.62	567.00	482.32	84.68	6.695	
14,200.00	9,330.00	13,579.27	8,758.00	115.79	117.06	0.00	-1,280.00	-4,617.62	567.00	480.87	86.13	6.583	
14,204.80	9,330.00	13,584.07	8,758.00	115.92	117.17	0.00	-1,280.00	-4,622.43	567.00	480.80	86.20	6.578	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19- #203H - OH - Prelim B													Offset Site Error:	3.30 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+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	180.00	-31.00	0.00	31.00					
100.00	100.00	100.00	100.00	0.13	0.13	180.00	-31.00	0.00	31.00	30.74	0.26	120.948		
200.00	200.00	200.00	200.00	0.49	0.49	180.00	-31.00	0.00	31.00	30.03	0.97	31.852		
300.00	300.00	300.00	300.00	0.85	0.85	180.00	-31.00	0.00	31.00	29.31	1.69	18.341		
400.00	400.00	400.00	400.00	1.20	1.20	180.00	-31.00	0.00	31.00	28.59	2.41	12.878		
500.00	500.00	500.00	500.00	1.56	1.56	180.00	-31.00	0.00	31.00	27.88	3.12	9.923		
600.00	600.00	600.00	600.00	1.92	1.92	180.00	-31.00	0.00	31.00	27.16	3.84	8.071		
700.00	700.00	700.00	700.00	2.28	2.28	180.00	-31.00	0.00	31.00	26.44	4.56	6.801		
800.00	800.00	800.00	800.00	2.64	2.64	180.00	-31.00	0.00	31.00	25.73	5.27	5.877		
900.00	900.00	900.00	900.00	3.00	3.00	180.00	-31.00	0.00	31.00	25.01	5.99	5.174		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	180.00	-31.00	0.00	31.00	24.29	6.71	4.621		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	180.00	-31.00	0.00	31.00	23.57	7.43	4.175		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	180.00	-31.00	0.00	31.00	22.86	8.14	3.807		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	180.00	-31.00	0.00	31.00	22.14	8.86	3.499		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	180.00	-31.00	0.00	31.00	21.42	9.58	3.237		
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	180.00	-31.00	0.00	31.00	20.71	10.29	3.012 CC, ES		
1,600.00	1,600.00	1,599.23	1,599.21	5.51	5.49	177.74	-32.16	1.27	32.20	21.21	10.99	2.929		
1,700.00	1,700.00	1,698.23	1,698.07	5.86	5.82	171.93	-35.63	5.05	36.04	24.37	11.67	3.089		
1,800.00	1,800.00	1,797.14	1,796.62	6.22	6.15	164.79	-41.29	11.23	42.93	30.59	12.34	3.478		
1,900.00	1,900.00	1,903.29	1,895.76	6.58	6.51	159.21	-47.55	18.05	51.03	37.98	13.05	3.909		
2,000.00	2,000.00	2,003.72	1,994.90	6.94	6.86	155.19	-53.80	24.87	59.49	45.74	13.75	4.326		
2,100.00	2,099.99	2,104.09	2,094.10	7.28	7.21	-9.16	-60.05	31.69	67.30	52.87	14.43	4.663		
2,200.00	2,199.96	2,204.35	2,193.41	7.61	7.57	-11.89	-66.31	38.53	73.57	58.47	15.10	4.872		
2,300.00	2,299.86	2,304.52	2,292.81	7.93	7.92	-14.50	-72.58	45.36	78.29	62.52	15.77	4.964		
2,400.00	2,399.68	2,404.64	2,392.25	8.27	8.28	-17.17	-78.85	52.20	81.49	65.04	16.45	4.954		
2,500.00	2,499.37	2,504.74	2,491.72	8.60	8.64	-20.04	-85.13	59.05	83.21	66.08	17.13	4.858		
2,600.00	2,598.90	2,604.85	2,591.18	8.94	9.00	-23.25	-91.40	65.89	83.52	65.71	17.81	4.689		
2,700.00	2,698.26	2,705.01	2,690.59	9.28	9.37	-26.97	-97.67	72.73	82.54	64.04	18.50	4.462		
2,800.00	2,797.40	2,805.23	2,789.94	9.63	9.73	-31.40	-103.93	79.56	80.42	61.23	19.19	4.190		
2,900.00	2,896.30	2,894.45	2,889.19	9.98	10.06	-36.80	-110.19	86.39	77.40	57.54	19.86	3.897		
3,000.00	2,994.93	3,006.01	2,988.30	10.34	10.47	-43.48	-116.44	93.21	73.84	53.22	20.62	3.582		
3,100.00	3,093.26	3,106.62	3,087.25	10.71	10.84	-51.82	-122.68	100.01	70.28	48.93	21.36	3.291		
3,200.00	3,191.25	3,207.43	3,186.02	11.08	11.21	-62.07	-128.91	106.81	67.52	45.39	22.13	3.051		
3,283.06	3,272.43	3,274.83	3,267.92	11.40	11.46	-71.77	-134.07	112.44	66.66	43.92	22.74	2.932		
3,300.00	3,288.92	3,308.43	3,284.59	11.47	11.59	-74.00	-135.12	113.59	66.64	43.71	22.93	2.906		
3,400.00	3,386.55	3,409.46	3,383.13	11.86	11.96	-85.90	-141.34	120.37	68.70	44.95	23.75	2.892 SF		
3,500.00	3,484.18	3,489.51	3,481.67	12.26	12.26	-96.68	-147.55	127.15	73.53	49.06	24.48	3.004		
3,600.00	3,581.81	3,588.48	3,580.22	12.66	12.63	-105.88	-153.76	133.92	80.65	55.40	25.25	3.194		
3,700.00	3,679.44	3,687.45	3,678.76	13.06	13.00	-113.45	-159.98	140.70	89.50	63.50	26.00	3.442		
3,800.00	3,777.07	3,786.43	3,777.30	13.48	13.36	-119.58	-166.19	147.48	99.64	72.89	26.74	3.726		
3,900.00	3,874.70	3,885.40	3,875.85	13.89	13.73	-124.55	-172.41	154.26	110.69	83.22	27.48	4.029		
4,000.00	3,972.33	3,984.37	3,974.39	14.31	14.11	-128.60	-178.62	161.04	122.43	94.22	28.20	4.341		
4,100.00	4,069.96	4,083.34	4,072.93	14.73	14.48	-131.93	-184.83	167.82	134.66	105.73	28.93	4.654		
4,200.00	4,167.59	4,182.31	4,171.47	15.15	14.85	-134.70	-191.05	174.60	147.27	117.61	29.66	4.965		
4,300.00	4,265.22	4,281.28	4,270.02	15.58	15.22	-137.03	-197.26	181.38	160.16	129.77	30.39	5.270		
4,400.00	4,362.85	4,380.25	4,368.56	16.01	15.59	-139.01	-203.48	188.16	173.28	142.16	31.12	5.568		
4,500.00	4,460.48	4,479.22	4,467.10	16.44	15.96	-140.71	-209.69	194.93	186.57	154.72	31.85	5.858		
4,600.00	4,558.11	4,578.19	4,565.64	16.88	16.33	-142.18	-215.90	201.71	200.00	167.42	32.58	6.138		
4,700.00	4,655.74	4,677.16	4,664.19	17.31	16.71	-143.47	-222.12	208.49	213.55	180.23	33.32	6.409		
4,800.00	4,753.37	4,776.13	4,762.73	17.75	17.08	-144.61	-228.33	215.27	227.18	193.13	34.05	6.671		
4,900.00	4,850.99	4,875.11	4,861.27	18.19	17.45	-145.61	-234.55	222.05	240.90	206.11	34.79	6.924		
5,000.00	4,948.62	4,974.08	4,959.82	18.63	17.83	-146.51	-240.76	228.83	254.68	219.15	35.53	7.168		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #203H - OH - Prelim B												Offset Site Error:	3.30 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,046.25	5,073.05	5,058.36	19.07	18.20	-147.32	-246.97	235.61	268.52	232.25	36.27	7.403	
5,200.00	5,143.88	5,172.02	5,156.90	19.52	18.57	-148.04	-253.19	242.39	282.41	245.40	37.01	7.630	
5,300.00	5,241.51	5,270.99	5,255.44	19.96	18.95	-148.70	-259.40	249.17	296.33	258.58	37.75	7.849	
5,400.00	5,339.14	5,369.96	5,353.99	20.41	19.32	-149.30	-265.62	255.94	310.29	271.80	38.50	8.060	
5,500.00	5,436.77	5,468.93	5,452.53	20.85	19.70	-149.85	-271.83	262.72	324.28	285.04	39.24	8.264	
5,600.00	5,534.40	5,567.90	5,551.07	21.30	20.07	-150.35	-278.04	269.50	338.30	298.31	39.99	8.461	
5,700.00	5,632.03	5,666.87	5,649.61	21.75	20.44	-150.81	-284.26	276.28	352.34	311.61	40.73	8.650	
5,800.00	5,729.66	5,765.84	5,748.16	22.20	20.82	-151.24	-290.47	283.06	366.40	324.92	41.48	8.834	
5,900.00	5,827.29	5,864.81	5,846.70	22.65	21.19	-151.64	-296.69	289.84	380.48	338.26	42.23	9.011	
6,000.00	5,924.92	5,963.79	5,945.24	23.11	21.57	-152.00	-302.90	296.62	394.58	351.61	42.97	9.182	
6,100.00	6,022.55	6,062.76	6,043.79	23.56	21.94	-152.35	-309.11	303.40	408.69	364.97	43.72	9.348	
6,200.00	6,120.18	6,161.73	6,142.33	24.01	22.32	-152.67	-315.33	310.18	422.81	378.34	44.47	9.508	
6,300.00	6,217.81	6,260.70	6,240.87	24.47	22.69	-152.96	-321.54	316.95	436.95	391.73	45.22	9.663	
6,400.00	6,315.44	6,359.67	6,339.41	24.92	23.07	-153.24	-327.76	323.73	451.10	405.13	45.97	9.813	
6,500.00	6,413.07	6,458.64	6,437.96	25.38	23.44	-153.51	-333.97	330.51	465.26	418.54	46.72	9.958	
6,600.00	6,510.70	6,557.61	6,536.50	25.83	23.82	-153.75	-340.18	337.29	479.42	431.95	47.47	10.099	
6,700.00	6,608.33	6,656.58	6,635.04	26.29	24.20	-153.99	-346.40	344.07	493.60	445.37	48.22	10.236	
6,800.00	6,705.96	6,755.55	6,733.59	26.75	24.57	-154.21	-352.61	350.85	507.78	458.80	48.98	10.368	
6,900.00	6,803.58	6,844.93	6,822.69	27.20	24.90	-154.52	-357.29	355.95	522.87	473.22	49.65	10.531	
7,000.00	6,901.21	6,933.57	6,911.23	27.66	25.22	-155.05	-360.07	358.99	539.82	489.52	50.29	10.734	
7,100.00	6,998.84	7,023.51	6,998.84	28.12	25.54	-155.78	-361.00	360.00	558.65	507.75	50.90	10.975	
7,200.00	7,096.47	7,118.83	7,096.47	28.58	25.85	-156.65	-361.00	360.00	578.53	526.97	51.56	11.220	
7,300.00	7,194.26	7,216.62	7,194.26	29.03	26.17	-157.51	-361.00	360.00	597.84	545.61	52.23	11.446	
7,400.00	7,292.40	7,314.76	7,292.40	29.48	26.49	-158.26	-361.00	360.00	615.67	562.77	52.91	11.637	
7,500.00	7,390.86	7,413.22	7,390.86	29.91	26.81	-158.91	-361.00	360.00	631.98	578.39	53.58	11.794	
7,600.00	7,489.61	7,511.97	7,489.61	30.33	27.14	-159.46	-361.00	360.00	646.73	592.46	54.26	11.918	
7,700.00	7,588.62	7,610.97	7,588.62	30.74	27.47	-159.93	-361.00	360.00	659.90	604.96	54.95	12.010	
7,800.00	7,687.86	7,710.21	7,687.86	31.13	27.79	-160.33	-361.00	360.00	671.48	615.85	55.63	12.071	
7,900.00	7,787.30	7,809.65	7,787.30	31.52	28.12	-160.66	-361.00	360.00	681.45	625.14	56.31	12.102	
8,000.00	7,886.91	7,909.26	7,886.91	31.89	28.45	-160.93	-361.00	360.00	689.79	632.80	56.99	12.103	
8,100.00	7,986.66	8,009.01	7,986.66	32.25	28.79	-161.15	-361.00	360.00	696.50	638.82	57.67	12.076	
8,200.00	8,086.51	8,108.86	8,086.51	32.60	29.12	-161.30	-361.00	360.00	701.56	643.21	58.35	12.022	
8,300.00	8,186.44	8,208.80	8,186.44	32.93	29.45	-161.41	-361.00	360.00	704.98	645.94	59.03	11.942	
8,400.00	8,286.43	8,308.78	8,286.43	33.26	29.79	-161.46	-361.00	360.00	706.74	647.03	59.71	11.836	
8,500.00	8,386.43	8,408.78	8,386.43	33.56	30.12	-0.24	-361.00	360.00	707.01	646.63	60.38	11.710	
8,600.00	8,486.43	8,508.78	8,486.43	33.85	30.46	-0.24	-361.00	360.00	707.01	645.97	61.04	11.583	
8,700.00	8,586.43	8,608.78	8,586.43	34.15	30.79	-0.24	-361.00	360.00	707.01	645.31	61.70	11.459	
8,800.00	8,686.43	8,708.78	8,686.43	34.44	31.13	-0.24	-361.00	360.00	707.01	644.65	62.36	11.338	
8,900.00	8,786.26	8,811.21	8,786.86	34.75	31.47	123.85	-361.02	359.88	709.27	646.21	63.06	11.248	
9,000.00	8,884.01	8,939.65	8,915.90	35.08	31.87	123.51	-364.02	343.19	718.43	654.54	63.88	11.246	
9,100.00	8,976.71	9,068.01	9,035.93	35.41	32.22	121.93	-371.95	299.15	733.08	668.55	64.53	11.361	
9,200.00	9,061.56	9,193.68	9,140.94	35.73	32.49	119.21	-384.09	231.66	752.98	687.92	65.06	11.573	
9,300.00	9,136.02	9,314.90	9,225.76	36.04	32.70	114.30	-399.37	146.75	777.70	712.09	65.61	11.854	
9,400.00	9,200.04	9,433.22	9,289.27	36.31	32.94	105.33	-417.00	48.74	798.71	732.45	66.26	12.054	
9,500.00	9,252.82	9,548.22	9,330.17	36.51	33.35	98.79	-436.00	-56.84	811.41	744.31	67.09	12.094	
9,600.00	9,292.75	9,658.13	9,348.51	36.68	33.91	94.16	-455.16	-163.33	815.64	747.55	68.09	11.979	
9,700.00	9,318.61	9,745.55	9,350.00	36.82	34.46	91.59	-470.27	-249.39	812.19	743.11	69.09	11.756	
9,800.00	9,329.61	9,822.71	9,350.00	37.00	35.02	91.24	-481.68	-325.70	803.32	733.16	70.16	11.449	
9,900.00	9,330.00	9,900.00	9,350.00	37.28	35.65	91.46	-491.05	-402.42	791.47	720.03	71.44	11.079	
10,000.00	9,330.00	9,978.50	9,350.00	37.76	36.39	91.47	-498.44	-480.57	782.12	709.19	72.93	10.724	
10,100.00	9,330.00	10,056.96	9,350.00	38.47	37.20	91.48	-503.68	-558.85	775.49	700.91	74.58	10.399	
10,200.00	9,330.00	10,135.65	9,350.00	39.37	38.06	91.49	-506.79	-637.48	771.60	695.23	76.37	10.104	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt. 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt. 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #203H - OH - Prelim B												Offset Site Error:
Survey Program: 0-MWD+HDGM												Offset Well Error:
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
10,300.00	9,330.00	10,216.27	9,350.00	40.42	39.01	91.49	-507.74	-718.09	770.44	692.12	78.32	9.837
10,400.00	9,330.00	10,316.27	9,350.00	41.60	40.28	91.49	-507.80	-818.09	770.43	689.60	80.83	9.531
10,500.00	9,330.00	10,416.27	9,350.00	42.88	41.64	91.49	-507.86	-918.09	770.43	686.90	83.52	9.224
10,600.00	9,330.00	10,516.27	9,350.00	44.26	43.08	91.49	-507.92	-1,018.09	770.42	684.04	86.38	8.919
10,700.00	9,330.00	10,616.27	9,350.00	45.71	44.59	91.49	-507.98	-1,118.09	770.41	681.04	89.38	8.620
10,800.00	9,330.00	10,716.27	9,350.00	47.24	46.16	91.49	-508.04	-1,218.09	770.41	677.90	92.51	8.328
10,900.00	9,330.00	10,816.27	9,350.00	48.83	47.80	91.49	-508.10	-1,318.09	770.40	674.63	95.76	8.045
11,000.00	9,330.00	10,916.27	9,350.00	50.47	49.49	91.49	-508.16	-1,418.09	770.39	671.27	99.13	7.772
11,100.00	9,330.00	11,016.27	9,350.00	52.17	51.22	91.49	-508.22	-1,518.09	770.39	667.80	102.59	7.510
11,200.00	9,330.00	11,116.27	9,350.00	53.91	53.00	91.49	-508.28	-1,618.09	770.38	664.25	106.13	7.259
11,300.00	9,330.00	11,216.27	9,350.00	55.69	54.82	91.49	-508.34	-1,718.09	770.37	660.61	109.76	7.019
11,400.00	9,330.00	11,316.27	9,350.00	57.52	56.67	91.49	-508.40	-1,818.09	770.36	656.91	113.46	6.790
11,500.00	9,330.00	11,416.27	9,350.00	59.37	58.56	91.49	-508.46	-1,918.09	770.36	653.14	117.22	6.572
11,600.00	9,330.00	11,516.27	9,350.00	61.26	60.48	91.49	-508.52	-2,018.09	770.35	649.31	121.05	6.364
11,700.00	9,330.00	11,616.27	9,350.00	63.17	62.42	91.49	-508.58	-2,118.09	770.34	645.42	124.92	6.167
11,800.00	9,330.00	11,716.27	9,350.00	65.11	64.38	91.49	-508.64	-2,218.09	770.34	641.49	128.85	5.979
11,900.00	9,330.00	11,816.27	9,350.00	67.07	66.37	91.49	-508.70	-2,318.09	770.33	637.51	132.82	5.800
12,000.00	9,330.00	11,916.27	9,350.00	69.06	68.38	91.49	-508.76	-2,418.09	770.32	633.50	136.83	5.630
12,100.00	9,330.00	12,016.27	9,350.00	71.06	70.41	91.49	-508.82	-2,518.09	770.32	629.44	140.87	5.468
12,200.00	9,330.00	12,116.27	9,350.00	73.09	72.45	91.49	-508.88	-2,618.09	770.31	625.36	144.95	5.314
12,300.00	9,330.00	12,216.27	9,350.00	75.12	74.51	91.49	-508.94	-2,718.09	770.30	621.24	149.07	5.168
12,400.00	9,330.00	12,316.27	9,350.00	77.18	76.58	91.49	-509.00	-2,818.09	770.30	617.09	153.21	5.028
12,500.00	9,330.00	12,416.27	9,350.00	79.25	78.67	91.49	-509.07	-2,918.09	770.29	612.91	157.37	4.895
12,600.00	9,330.00	12,516.27	9,350.00	81.33	80.77	91.49	-509.13	-3,018.09	770.28	608.72	161.57	4.768
12,700.00	9,330.00	12,616.27	9,350.00	83.42	82.88	91.49	-509.19	-3,118.09	770.27	604.49	165.78	4.646
12,800.00	9,330.00	12,716.27	9,350.00	85.52	85.00	91.49	-509.25	-3,218.09	770.27	600.25	170.02	4.531
12,900.00	9,330.00	12,816.27	9,350.00	87.64	87.13	91.49	-509.31	-3,318.09	770.26	595.99	174.27	4.420
13,000.00	9,330.00	12,916.27	9,350.00	89.76	89.27	91.49	-509.37	-3,418.09	770.25	591.71	178.54	4.314
13,100.00	9,330.00	13,016.27	9,350.00	91.89	91.41	91.49	-509.43	-3,518.09	770.25	587.42	182.83	4.213
13,200.00	9,330.00	13,116.27	9,350.00	94.03	93.57	91.49	-509.49	-3,618.09	770.24	583.10	187.14	4.116
13,300.00	9,330.00	13,216.27	9,350.00	96.18	95.73	91.49	-509.55	-3,718.09	770.23	578.78	191.45	4.023
13,400.00	9,330.00	13,316.27	9,350.00	98.34	97.90	91.49	-509.61	-3,818.09	770.23	574.44	195.79	3.934
13,500.00	9,330.00	13,416.27	9,350.00	100.50	100.07	91.49	-509.67	-3,918.09	770.22	570.09	200.13	3.849
13,600.00	9,330.00	13,516.27	9,350.00	102.67	102.25	91.49	-509.73	-4,018.09	770.21	565.72	204.49	3.767
13,700.00	9,330.00	13,616.27	9,350.00	104.84	104.44	91.49	-509.79	-4,118.09	770.21	561.35	208.86	3.688
13,800.00	9,330.00	13,716.27	9,350.00	107.02	106.63	91.49	-509.85	-4,218.09	770.20	556.96	213.24	3.612
13,900.00	9,330.00	13,816.27	9,350.00	109.21	108.82	91.49	-509.91	-4,318.09	770.19	552.57	217.62	3.539
14,000.00	9,330.00	13,916.27	9,350.00	111.40	110.89	91.49	-509.97	-4,418.09	770.18	548.29	221.89	3.471
14,063.05	9,330.00	13,979.32	9,350.00	112.78	111.78	91.49	-510.00	-4,481.14	770.18	546.02	224.16	3.436
14,100.00	9,330.00	13,972.18	9,350.00	113.59	111.68	91.49	-510.00	-4,474.00	771.44	547.64	223.80	3.447
14,200.00	9,330.00	13,972.18	9,350.00	115.79	111.68	91.49	-510.00	-4,474.00	783.53	562.31	221.23	3.542
14,204.80	9,330.00	13,972.18	9,350.00	115.92	111.68	91.49	-510.00	-4,474.00	784.43	563.38	221.05	3.549

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim A											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 (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	5.00	-5.00	0.00	0.01	171.99	-2,168.00	305.00	2,189.35				
100.00	100.00	105.00	95.00	0.13	0.15	171.99	-2,168.00	305.00	2,189.35	2,189.07	0.27	7,983.592	
200.00	200.00	205.00	195.00	0.49	0.50	171.99	-2,168.00	305.00	2,189.35	2,188.36	0.99	2,208.844	
300.00	300.00	305.00	295.00	0.85	0.86	171.99	-2,168.00	305.00	2,189.35	2,187.64	1.71	1,281.732	
400.00	400.00	405.00	395.00	1.20	1.22	171.99	-2,168.00	305.00	2,189.35	2,186.92	2.43	902.802	
500.00	500.00	505.00	495.00	1.56	1.58	171.99	-2,168.00	305.00	2,189.35	2,186.21	3.14	696.800	
600.00	600.00	605.00	595.00	1.92	1.94	171.99	-2,168.00	305.00	2,189.35	2,185.49	3.86	567.344	
700.00	700.00	705.00	695.00	2.28	2.30	171.99	-2,168.00	305.00	2,189.35	2,184.77	4.58	478.453	
800.00	800.00	805.00	795.00	2.64	2.66	171.99	-2,168.00	305.00	2,189.35	2,184.06	5.29	413.644	
900.00	900.00	905.00	895.00	3.00	3.01	171.99	-2,168.00	305.00	2,189.35	2,183.34	6.01	364.298	
1,000.00	1,000.00	1,005.00	995.00	3.35	3.37	171.99	-2,168.00	305.00	2,189.35	2,182.62	6.73	325.471	
1,100.00	1,100.00	1,105.00	1,095.00	3.71	3.73	171.99	-2,168.00	305.00	2,189.35	2,181.91	7.44	294.123	
1,200.00	1,200.00	1,205.00	1,195.00	4.07	4.09	171.99	-2,168.00	305.00	2,189.35	2,181.19	8.16	268.283	
1,300.00	1,300.00	1,305.00	1,295.00	4.43	4.45	171.99	-2,168.00	305.00	2,189.35	2,180.47	8.88	246.616	
1,400.00	1,400.00	1,395.00	1,395.00	4.79	4.77	171.99	-2,168.00	305.00	2,189.35	2,179.79	9.56	229.044	
1,500.00	1,500.00	1,546.97	1,546.95	5.15	5.31	171.97	-2,166.17	305.46	2,188.22	2,177.76	10.46	209.214	
1,600.00	1,600.00	1,701.46	1,701.32	5.51	5.87	171.91	-2,160.31	306.95	2,184.60	2,173.24	11.36	192.256	
1,700.00	1,700.00	1,817.48	1,817.14	5.86	6.28	171.84	-2,153.68	308.63	2,179.10	2,166.97	12.13	179.599	
1,800.00	1,800.00	1,917.29	1,916.77	6.22	6.64	171.78	-2,147.81	310.11	2,173.50	2,160.65	12.85	169.158	
1,900.00	1,900.00	2,017.11	2,016.40	6.58	7.00	171.72	-2,141.95	311.59	2,167.90	2,154.33	13.57	159.814	
2,000.00	2,000.00	2,116.93	2,116.03	6.94	7.36	171.66	-2,136.09	313.08	2,162.30	2,148.02	14.28	151.404	
2,100.00	2,099.99	2,216.69	2,215.62	7.28	7.72	10.39	-2,130.23	314.56	2,155.85	2,140.87	14.98	143.907	
2,200.00	2,199.96	2,316.34	2,315.08	7.61	8.08	10.35	-2,124.38	316.04	2,147.68	2,132.02	15.66	137.102	
2,300.00	2,299.86	2,415.84	2,414.40	7.93	8.44	10.33	-2,118.53	317.52	2,137.81	2,121.46	16.35	130.746	
2,400.00	2,399.68	2,515.16	2,513.53	8.27	8.80	10.32	-2,112.70	319.00	2,126.23	2,109.20	17.04	124.790	
2,500.00	2,499.37	2,614.27	2,612.46	8.60	9.16	10.32	-2,106.88	320.47	2,112.95	2,095.23	17.73	119.192	
2,600.00	2,598.90	2,713.13	2,711.15	8.94	9.51	10.33	-2,101.07	321.94	2,097.97	2,079.56	18.42	113.916	
2,700.00	2,698.26	2,811.73	2,809.56	9.28	9.87	10.35	-2,095.28	323.41	2,081.30	2,062.19	19.11	108.928	
2,800.00	2,797.40	2,910.03	2,907.68	9.63	10.23	10.38	-2,089.50	324.87	2,062.93	2,043.13	19.80	104.202	
2,900.00	2,896.30	3,008.00	3,005.47	9.98	10.58	10.43	-2,083.75	326.33	2,042.88	2,022.39	20.49	99.711	
3,000.00	2,994.93	3,105.60	3,102.90	10.34	10.94	10.49	-2,078.02	327.78	2,021.15	1,999.97	21.18	95.434	
3,100.00	3,093.26	3,202.82	3,199.94	10.71	11.29	10.56	-2,072.31	329.23	1,997.75	1,975.88	21.87	91.352	
3,200.00	3,191.25	3,300.38	3,296.56	11.08	11.65	10.65	-2,066.62	330.67	1,972.68	1,950.12	22.56	87.436	
3,300.00	3,288.92	3,396.03	3,392.79	11.47	11.99	10.72	-2,060.96	332.10	1,946.17	1,922.92	23.25	83.711	
3,400.00	3,386.55	3,507.62	3,488.96	11.86	12.40	10.77	-2,055.30	333.53	1,919.45	1,895.46	23.99	79.997	
3,500.00	3,484.18	3,588.73	3,585.13	12.26	12.70	10.82	-2,049.64	334.96	1,892.73	1,868.10	24.63	76.842	
3,600.00	3,581.81	3,685.08	3,681.30	12.66	13.05	10.88	-2,043.98	336.40	1,866.02	1,840.69	25.33	73.679	
3,700.00	3,679.44	3,781.43	3,777.48	13.06	13.40	10.93	-2,038.32	337.83	1,839.30	1,813.28	26.02	70.680	
3,800.00	3,777.07	3,877.78	3,873.65	13.48	13.75	10.99	-2,032.66	339.26	1,812.59	1,785.86	26.72	67.832	
3,900.00	3,874.70	3,974.13	3,969.82	13.89	14.10	11.05	-2,027.00	340.70	1,785.87	1,758.45	27.42	65.125	
4,000.00	3,972.33	4,070.48	4,066.00	14.31	14.45	11.11	-2,021.34	342.13	1,759.16	1,731.04	28.12	62.550	
4,100.00	4,069.96	4,166.83	4,162.17	14.73	14.80	11.17	-2,015.68	343.56	1,732.46	1,703.63	28.83	60.097	
4,200.00	4,167.59	4,263.18	4,258.34	15.15	15.15	11.23	-2,010.02	344.99	1,705.75	1,676.22	29.53	57.758	
4,300.00	4,265.22	4,359.53	4,354.52	15.58	15.50	11.30	-2,004.36	346.43	1,679.04	1,648.81	30.24	55.526	
4,400.00	4,362.85	4,455.88	4,450.69	16.01	15.86	11.37	-1,998.71	347.86	1,652.34	1,621.40	30.95	53.394	
4,500.00	4,460.48	4,552.23	4,546.86	16.44	16.21	11.44	-1,993.05	349.29	1,625.64	1,593.99	31.66	51.355	
4,600.00	4,558.11	4,648.58	4,643.03	16.88	16.56	11.51	-1,987.39	350.72	1,598.94	1,566.58	32.37	49.403	
4,700.00	4,655.74	4,744.93	4,739.21	17.31	16.91	11.59	-1,981.73	352.16	1,572.25	1,539.17	33.08	47.535	
4,800.00	4,753.37	4,841.28	4,835.38	17.75	17.26	11.66	-1,976.07	353.59	1,545.56	1,511.77	33.79	45.743	
4,900.00	4,850.99	4,937.63	4,931.55	18.19	17.61	11.74	-1,970.41	355.02	1,518.87	1,484.37	34.50	44.024	
5,000.00	4,948.62	5,033.98	5,027.73	18.63	17.96	11.83	-1,964.75	356.46	1,492.18	1,456.97	35.21	42.374	
5,100.00	5,046.25	5,130.33	5,123.90	19.07	18.32	11.92	-1,959.09	357.89	1,465.50	1,429.57	35.93	40.789	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim.C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim A											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)			
5,200.00	5,143.88	5,226.68	5,220.07	19.52	18.67	12.00	-1,953.43	359.32	1,438.82	1,402.17	36.64	39.264	
5,300.00	5,241.51	5,323.03	5,316.25	19.96	19.02	12.10	-1,947.77	360.75	1,412.14	1,374.78	37.36	37.798	
5,400.00	5,339.14	5,419.38	5,412.42	20.41	19.37	12.20	-1,942.11	362.19	1,385.47	1,347.39	38.08	36.385	
5,500.00	5,436.77	5,501.07	5,493.98	20.85	19.67	12.29	-1,937.68	363.31	1,359.23	1,320.46	38.77	35.057	
5,600.00	5,534.40	5,580.43	5,573.27	21.30	19.96	12.39	-1,934.44	364.13	1,334.23	1,294.77	39.46	33.810	
5,700.00	5,632.03	5,660.29	5,653.10	21.75	20.24	12.53	-1,932.26	364.68	1,310.50	1,270.35	40.15	32.640	
5,800.00	5,729.66	5,740.61	5,733.41	22.20	20.53	12.68	-1,931.15	364.96	1,288.05	1,247.21	40.84	31.542	
5,900.00	5,827.29	5,829.49	5,822.29	22.65	20.84	12.87	-1,931.00	365.00	1,266.74	1,225.20	41.54	30.494	
6,000.00	5,924.92	5,927.12	5,919.92	23.11	21.19	13.09	-1,931.00	365.00	1,245.63	1,203.36	42.27	29.470	
6,100.00	6,022.55	6,024.75	6,017.55	23.56	21.53	13.32	-1,931.00	365.00	1,224.53	1,181.54	43.00	28.481	
6,200.00	6,120.18	6,122.38	6,115.18	24.01	21.88	13.56	-1,931.00	365.00	1,203.45	1,159.73	43.72	27.524	
6,300.00	6,217.81	6,220.01	6,212.81	24.47	22.22	13.81	-1,931.00	365.00	1,182.39	1,137.94	44.45	26.599	
6,400.00	6,315.44	6,317.64	6,310.44	24.92	22.57	14.06	-1,931.00	365.00	1,161.36	1,116.18	45.18	25.703	
6,500.00	6,413.07	6,415.27	6,408.07	25.38	22.92	14.32	-1,931.00	365.00	1,140.35	1,094.43	45.91	24.836	
6,600.00	6,510.70	6,512.90	6,505.70	25.83	23.26	14.60	-1,931.00	365.00	1,119.36	1,072.71	46.65	23.996	
6,700.00	6,608.33	6,610.53	6,603.33	26.29	23.61	14.88	-1,931.00	365.00	1,098.39	1,051.01	47.38	23.182	
6,800.00	6,705.96	6,708.16	6,700.96	26.75	23.95	15.18	-1,931.00	365.00	1,077.45	1,029.34	48.12	22.393	
6,900.00	6,803.58	6,805.79	6,798.58	27.20	24.30	15.48	-1,931.00	365.00	1,056.55	1,007.69	48.85	21.628	
7,000.00	6,901.21	6,903.41	6,896.21	27.66	24.65	15.80	-1,931.00	365.00	1,035.67	986.08	49.59	20.885	
7,100.00	6,998.84	7,001.04	6,993.84	28.12	24.99	16.13	-1,931.00	365.00	1,014.82	964.49	50.33	20.164	
7,200.00	7,096.47	7,101.33	7,091.47	28.58	25.35	16.48	-1,931.00	365.00	994.01	942.93	51.08	19.461	
7,300.00	7,194.26	7,203.54	7,189.26	29.03	25.71	16.77	-1,931.00	365.00	973.95	922.11	51.83	18.790	
7,400.00	7,292.40	7,305.40	7,287.40	29.48	26.07	17.05	-1,931.00	365.00	955.56	902.97	52.59	18.172	
7,500.00	7,390.86	7,406.94	7,385.86	29.91	26.43	17.31	-1,931.00	365.00	938.84	885.50	53.33	17.603	
7,600.00	7,489.61	7,508.19	7,484.61	30.33	26.79	17.56	-1,931.00	365.00	923.79	869.71	54.08	17.083	
7,700.00	7,588.62	7,609.18	7,583.62	30.74	27.15	17.78	-1,931.00	365.00	910.40	855.59	54.82	16.608	
7,800.00	7,687.86	7,709.94	7,682.86	31.13	27.51	17.98	-1,931.00	365.00	898.69	843.14	55.55	16.177	
7,900.00	7,787.30	7,789.50	7,782.30	31.52	27.79	18.16	-1,931.00	365.00	888.64	832.43	56.21	15.810	
8,000.00	7,886.91	7,889.11	7,881.91	31.89	28.15	18.32	-1,931.00	365.00	880.25	823.32	56.93	15.463	
8,100.00	7,986.66	7,988.86	7,981.66	32.25	28.50	18.44	-1,931.00	365.00	873.52	815.88	57.64	15.154	
8,200.00	8,086.51	8,088.71	8,081.51	32.60	28.86	18.54	-1,931.00	365.00	868.45	810.09	58.36	14.882	
8,300.00	8,186.44	8,188.64	8,181.44	32.93	29.21	18.60	-1,931.00	365.00	865.03	805.97	59.06	14.646	
8,400.00	8,286.43	8,288.63	8,281.43	33.26	29.57	18.63	-1,931.00	365.00	863.27	803.51	59.76	14.445	
8,500.00	8,386.42	8,388.62	8,381.42	33.56	29.93	179.87	-1,931.00	365.00	862.80	802.36	60.44	14.274	
8,500.00	8,386.43	8,388.63	8,381.43	33.56	29.93	179.87	-1,931.00	365.00	863.00	802.56	60.44	14.278	
8,600.00	8,486.43	8,488.63	8,481.43	33.85	30.28	179.87	-1,931.00	365.00	863.00	801.88	61.12	14.119	
8,700.00	8,586.43	8,588.63	8,581.43	34.15	30.64	179.87	-1,931.00	365.00	863.00	801.20	61.80	13.964	
8,800.00	8,686.43	8,688.63	8,681.43	34.44	30.99	179.87	-1,931.00	365.00	863.00	800.52	62.48	13.813	
8,900.00	8,786.26	8,776.46	8,769.22	34.75	31.30	-56.37	-1,931.30	363.51	861.11	797.98	63.13	13.640	
9,000.00	8,884.01	8,853.95	8,845.89	35.08	31.55	-57.28	-1,933.42	352.87	852.39	788.67	63.72	13.378	
9,100.00	8,976.71	8,931.41	8,920.37	35.41	31.78	-58.89	-1,937.55	332.21	836.86	772.61	64.24	13.026	
9,200.00	9,061.56	9,008.80	8,991.26	35.73	32.00	-61.22	-1,943.60	301.92	814.94	750.21	64.73	12.590	
9,300.00	9,136.02	9,086.21	9,057.37	36.04	32.23	-65.59	-1,951.48	262.53	787.46	722.26	65.20	12.077	
9,400.00	9,200.04	9,165.73	9,119.00	36.31	32.48	-74.09	-1,961.30	213.37	763.32	697.61	65.71	11.616	
9,500.00	9,252.82	9,276.44	9,192.25	36.51	32.88	-80.53	-1,975.57	131.81	746.21	679.75	66.46	11.228	
9,600.00	9,292.75	9,399.59	9,253.94	36.68	33.41	-85.02	-1,987.68	26.20	733.39	666.02	67.37	10.886	
9,700.00	9,318.61	9,525.39	9,292.66	36.82	34.10	-87.62	-1,995.31	-92.99	724.82	656.33	68.49	10.583	
9,800.00	9,329.61	9,651.84	9,304.97	37.00	34.94	-88.40	-1,997.78	-218.56	720.60	650.76	69.85	10.317	
9,892.32	9,331.32	9,742.84	9,305.00	37.25	35.68	-88.30	-1,997.83	-309.56	719.70	648.51	71.19	10.109 CC	
9,900.00	9,330.00	9,750.55	9,305.00	37.28	35.74	-88.41	-1,997.83	-317.26	720.40	649.09	71.31	10.103	
10,000.00	9,330.00	9,850.55	9,305.00	37.76	36.66	-88.41	-1,997.88	-417.26	720.40	647.37	73.02	9.865	
10,100.00	9,330.00	9,950.55	9,305.00	38.47	37.70	-88.41	-1,997.93	-517.26	720.39	645.41	74.98	9.608	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wall Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim A											Offset Site Error: 3.30 usft		
Survey/Program: 0:MWD+HDGM											Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis			Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Separation Factor	Warning
10,200.00	9,330.00	10,050.55	9,305.00	39.37	38.85	-88.41	-1,997.98	-617.26	720.39	643.22	77.17	9.335	
10,300.00	9,330.00	10,150.55	9,305.00	40.42	40.10	-88.41	-1,998.03	-717.26	720.39	640.83	79.56	9.055	
10,400.00	9,330.00	10,250.55	9,305.00	41.60	41.44	-88.41	-1,998.08	-817.26	720.38	638.24	82.14	8.770	
10,500.00	9,330.00	10,350.55	9,305.00	42.88	42.87	-88.41	-1,998.13	-917.26	720.38	635.48	84.90	8.485	
10,600.00	9,330.00	10,450.55	9,305.00	44.26	44.36	-88.41	-1,998.18	-1,017.26	720.38	632.57	87.81	8.204	
10,700.00	9,330.00	10,550.55	9,305.00	45.71	45.93	-88.41	-1,998.23	-1,117.26	720.38	629.51	90.86	7.928	
10,800.00	9,330.00	10,650.55	9,305.00	47.24	47.55	-88.41	-1,998.29	-1,217.26	720.37	626.33	94.04	7.660	
10,900.00	9,330.00	10,750.55	9,305.00	48.83	49.23	-88.41	-1,998.34	-1,317.26	720.37	623.03	97.34	7.401	
11,000.00	9,330.00	10,850.55	9,305.00	50.47	50.96	-88.41	-1,998.39	-1,417.26	720.37	619.63	100.74	7.151	
11,100.00	9,330.00	10,950.55	9,305.00	52.17	52.74	-88.41	-1,998.44	-1,517.26	720.36	616.13	104.23	6.911	
11,200.00	9,330.00	11,050.55	9,305.00	53.91	54.55	-88.41	-1,998.49	-1,617.26	720.36	612.55	107.81	6.682	
11,300.00	9,330.00	11,150.55	9,305.00	55.69	56.40	-88.41	-1,998.54	-1,717.26	720.36	608.90	111.46	6.463	
11,400.00	9,330.00	11,250.55	9,305.00	57.52	58.28	-88.41	-1,998.59	-1,817.26	720.36	605.17	115.19	6.254	
11,500.00	9,330.00	11,350.55	9,305.00	59.37	60.19	-88.41	-1,998.64	-1,917.26	720.35	601.38	118.97	6.055	
11,600.00	9,330.00	11,450.55	9,305.00	61.26	62.13	-88.41	-1,998.69	-2,017.26	720.35	597.54	122.81	5.865	
11,700.00	9,330.00	11,550.55	9,305.00	63.17	64.10	-88.41	-1,998.74	-2,117.26	720.35	593.64	126.71	5.685	
11,800.00	9,330.00	11,650.55	9,305.00	65.11	66.08	-88.41	-1,998.79	-2,217.26	720.34	589.70	130.65	5.514	
11,900.00	9,330.00	11,750.55	9,305.00	67.07	68.09	-88.41	-1,998.84	-2,317.26	720.34	585.71	134.63	5.351	
12,000.00	9,330.00	11,850.55	9,305.00	69.06	70.11	-88.41	-1,998.89	-2,417.26	720.34	581.68	138.65	5.195	
12,100.00	9,330.00	11,950.55	9,305.00	71.06	72.16	-88.41	-1,998.94	-2,517.26	720.33	577.62	142.71	5.047	
12,200.00	9,330.00	12,050.55	9,305.00	73.09	74.21	-88.41	-1,998.99	-2,617.26	720.33	573.53	146.80	4.907	
12,300.00	9,330.00	12,150.55	9,305.00	75.12	76.28	-88.41	-1,999.04	-2,717.26	720.33	569.40	150.92	4.773	
12,400.00	9,330.00	12,250.55	9,305.00	77.18	78.37	-88.41	-1,999.09	-2,817.26	720.33	565.25	155.07	4.645	
12,500.00	9,330.00	12,350.55	9,305.00	79.25	80.47	-88.41	-1,999.14	-2,917.26	720.32	561.07	159.25	4.523	
12,600.00	9,330.00	12,450.55	9,305.00	81.33	82.57	-88.41	-1,999.19	-3,017.26	720.32	556.87	163.45	4.407	
12,700.00	9,330.00	12,550.55	9,305.00	83.42	84.69	-88.41	-1,999.24	-3,117.26	720.32	552.65	167.67	4.296	
12,800.00	9,330.00	12,650.55	9,305.00	85.52	86.82	-88.41	-1,999.29	-3,217.26	720.31	548.41	171.91	4.190	
12,900.00	9,330.00	12,750.55	9,305.00	87.64	88.96	-88.41	-1,999.34	-3,317.26	720.31	544.14	176.17	4.089	
13,000.00	9,330.00	12,850.55	9,305.00	89.76	91.11	-88.41	-1,999.39	-3,417.26	720.31	539.86	180.45	3.992	
13,100.00	9,330.00	12,950.55	9,305.00	91.89	93.26	-88.41	-1,999.44	-3,517.26	720.31	535.57	184.74	3.899	
13,200.00	9,330.00	13,050.55	9,305.00	94.03	95.42	-88.41	-1,999.49	-3,617.26	720.30	531.25	189.05	3.810	
13,300.00	9,330.00	13,150.55	9,305.00	96.18	97.59	-88.41	-1,999.54	-3,717.26	720.30	526.93	193.37	3.725	
13,400.00	9,330.00	13,250.55	9,305.00	98.34	99.76	-88.41	-1,999.59	-3,817.26	720.30	522.59	197.71	3.643	
13,500.00	9,330.00	13,350.55	9,305.00	100.50	101.94	-88.41	-1,999.64	-3,917.26	720.29	518.24	202.05	3.565	
13,600.00	9,330.00	13,450.55	9,305.00	102.67	104.13	-88.41	-1,999.69	-4,017.26	720.29	513.88	206.41	3.490	
13,700.00	9,330.00	13,550.55	9,305.00	104.84	106.32	-88.41	-1,999.74	-4,117.26	720.29	509.50	210.79	3.417	
13,800.00	9,330.00	13,650.55	9,305.00	107.02	108.51	-88.41	-1,999.79	-4,217.26	720.29	505.12	215.17	3.348	
13,900.00	9,330.00	13,750.55	9,305.00	109.21	110.71	-88.41	-1,999.84	-4,317.26	720.28	500.73	219.56	3.281	
14,000.00	9,330.00	13,850.55	9,305.00	111.40	112.92	-88.41	-1,999.89	-4,417.26	720.28	496.32	223.96	3.216	
14,100.00	9,330.00	13,950.55	9,305.00	113.59	115.13	-88.41	-1,999.94	-4,517.26	720.28	491.91	228.36	3.154	
14,200.00	9,330.00	14,050.55	9,305.00	115.79	117.34	-88.41	-1,999.99	-4,617.26	720.27	487.49	232.78	3.094	
14,204.80	9,330.00	14,055.35	9,305.00	115.92	117.44	-88.41	-2,000.00	-4,622.07	720.27	487.29	232.99	3.091 ES, SF	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - No. 124H - OH - OH Surveys 98-12354' PTB 12417'											Offset Site Error:	3.30 usft
Survey Program: 98-GYRO-NS-CT-1243-MWD-HDGM											Offset Well Error:	1.10 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
0.00	0.00	0.00	0.00	0.00	1.10	172.07	-2,198.00	306.00	2,219.21			
100.00	100.00	90.25	90.25	0.13	1.11	172.07	-2,198.08	305.99	2,219.28	2,218.04	1.23	1,798.565
200.00	200.00	181.11	181.11	0.49	1.17	172.08	-2,198.42	305.91	2,219.64	2,217.98	1.66	1,335.653
300.00	300.00	260.31	260.31	0.85	1.30	172.08	-2,199.23	305.89	2,220.66	2,218.52	2.14	1,035.409
400.00	400.00	341.63	341.61	1.20	1.47	172.08	-2,200.79	306.34	2,222.63	2,219.95	2.68	830.785
500.00	500.00	441.55	441.49	1.56	1.74	172.04	-2,203.10	308.12	2,225.16	2,221.87	3.29	676.698
600.00	600.00	582.39	582.26	1.92	2.15	171.95	-2,204.78	311.94	2,226.77	2,222.71	4.06	548.741
700.00	700.00	695.32	695.14	2.28	2.50	171.86	-2,204.35	315.28	2,226.78	2,222.01	4.77	466.661
707.15	707.15	701.33	701.15	2.30	2.52	171.86	-2,204.32	315.47	2,226.78	2,221.96	4.82	462.300
800.00	800.00	787.69	787.46	2.64	2.80	171.78	-2,204.16	318.32	2,227.03	2,221.60	5.43	410.033
900.00	900.00	909.71	909.42	3.00	3.20	171.69	-2,203.49	321.94	2,226.93	2,220.74	6.19	359.556
1,000.00	1,000.00	1,014.81	1,014.50	3.35	3.55	171.63	-2,202.20	323.82	2,225.97	2,219.07	6.90	322.613
1,100.00	1,100.00	1,106.26	1,105.93	3.71	3.81	171.59	-2,201.32	325.26	2,225.25	2,217.73	7.52	295.766
1,200.00	1,200.00	1,203.72	1,203.37	4.07	3.98	171.54	-2,200.57	327.16	2,224.77	2,216.72	8.05	276.304
1,300.00	1,300.00	1,315.62	1,315.23	4.43	4.08	171.47	-2,199.53	329.74	2,224.21	2,215.71	8.51	261.425
1,400.00	1,400.00	1,495.71	1,495.23	4.79	4.21	171.40	-2,194.56	331.92	2,221.83	2,212.83	8.99	247.020
1,500.00	1,500.00	1,625.91	1,625.21	5.15	4.37	171.34	-2,187.24	332.97	2,216.33	2,206.83	9.50	233.342
1,600.00	1,600.00	1,711.00	1,710.12	5.51	4.49	171.29	-2,181.80	334.23	2,210.31	2,200.32	9.99	221.355
1,700.00	1,700.00	1,783.75	1,782.75	5.86	4.61	171.24	-2,177.79	335.66	2,205.29	2,194.82	10.47	210.619
1,800.00	1,800.00	1,856.87	1,855.80	6.22	4.75	171.18	-2,175.10	337.46	2,201.99	2,191.02	10.97	200.800
1,900.00	1,900.00	1,950.70	1,949.56	6.58	4.93	171.11	-2,172.38	339.84	2,199.50	2,187.99	11.51	191.089
2,000.00	2,000.00	2,068.47	2,067.21	6.94	5.19	171.01	-2,168.39	343.22	2,196.61	2,184.49	12.12	181.213
2,100.00	2,099.99	2,171.47	2,170.07	7.28	5.43	9.68	-2,164.23	346.60	2,192.27	2,179.57	12.70	172.572
2,200.00	2,199.96	2,245.38	2,243.89	7.61	5.61	9.63	-2,161.60	349.12	2,186.74	2,173.52	13.21	165.479
2,300.00	2,299.86	2,317.54	2,316.02	7.93	5.79	9.60	-2,160.12	350.92	2,180.81	2,167.08	13.73	158.868
2,400.00	2,399.68	2,398.67	2,397.12	8.27	6.01	9.58	-2,159.47	352.75	2,174.33	2,160.06	14.27	152.386
2,500.00	2,499.37	2,504.77	2,503.18	8.60	6.29	9.56	-2,158.78	355.34	2,166.35	2,151.46	14.89	145.528
2,600.00	2,598.90	2,610.76	2,609.15	8.94	6.58	9.56	-2,157.67	357.64	2,156.21	2,140.69	15.52	138.969
2,700.00	2,698.26	2,707.59	2,705.95	9.28	6.86	9.57	-2,156.68	359.44	2,144.33	2,128.21	16.13	132.948
2,800.00	2,797.40	2,813.02	2,811.36	9.63	7.17	9.60	-2,155.60	361.46	2,130.77	2,114.00	16.78	127.018
2,900.00	2,896.30	2,904.63	2,902.94	9.98	7.44	9.63	-2,154.46	363.35	2,115.32	2,097.94	17.39	121.650
3,000.00	2,994.93	3,009.18	3,007.46	10.34	7.76	9.67	-2,153.47	365.62	2,098.47	2,080.42	18.05	116.283
3,100.00	3,093.26	3,114.66	3,112.90	10.71	8.09	9.73	-2,151.97	367.68	2,079.43	2,060.71	18.71	111.122
3,200.00	3,191.25	3,214.69	3,212.90	11.08	8.40	9.80	-2,150.34	369.73	2,058.52	2,039.15	19.37	106.275
3,300.00	3,288.92	3,317.51	3,315.68	11.47	8.73	9.85	-2,148.39	372.03	2,035.90	2,015.86	20.04	101.593
3,400.00	3,386.55	3,405.38	3,403.52	11.86	9.01	9.89	-2,146.76	373.84	2,013.11	1,992.44	20.67	97.406
3,500.00	3,484.18	3,467.67	3,465.80	12.26	9.20	9.94	-2,146.51	374.34	1,991.52	1,970.30	21.21	93.882
3,600.00	3,581.81	3,548.03	3,546.15	12.66	9.43	10.05	-2,147.60	373.84	1,971.37	1,949.56	21.80	90.411
3,700.00	3,679.44	3,639.98	3,638.08	13.06	9.70	10.20	-2,149.35	372.69	1,951.70	1,929.27	22.43	87.012
3,800.00	3,777.07	3,737.63	3,735.69	13.48	10.00	10.36	-2,151.41	371.22	1,932.20	1,909.13	23.08	83.727
3,900.00	3,874.70	3,844.52	3,842.55	13.89	10.32	10.56	-2,153.47	369.36	1,912.52	1,888.77	23.76	80.505
4,000.00	3,972.33	3,948.46	3,946.45	14.31	10.63	10.76	-2,155.03	367.21	1,892.39	1,867.96	24.43	77.455
4,100.00	4,069.96	4,064.71	4,062.67	14.73	10.99	10.98	-2,156.07	364.73	1,871.69	1,846.55	25.15	74.431
4,200.00	4,167.59	4,171.31	4,169.24	15.15	11.33	11.21	-2,156.38	362.09	1,850.39	1,824.55	25.84	71.608
4,300.00	4,265.22	4,284.74	4,282.63	15.58	11.69	11.45	-2,155.70	359.21	1,828.22	1,801.67	26.56	68.843
4,400.00	4,362.85	4,395.12	4,392.96	16.01	12.05	11.69	-2,154.33	356.22	1,805.46	1,778.19	27.27	66.211
4,500.00	4,460.48	4,499.31	4,497.08	16.44	12.39	11.95	-2,152.41	352.70	1,782.04	1,754.08	27.97	63.720
4,600.00	4,558.11	4,604.39	4,602.07	16.88	12.74	12.22	-2,150.11	349.09	1,758.33	1,729.66	28.67	61.328
4,700.00	4,655.74	4,709.90	4,707.48	17.31	13.08	12.50	-2,147.27	345.35	1,734.15	1,704.77	29.38	59.029
4,800.00	4,753.37	4,807.40	4,804.85	17.75	13.41	12.78	-2,144.39	341.43	1,709.69	1,679.62	30.07	56.857
4,900.00	4,850.99	4,887.85	4,885.25	18.19	13.68	12.98	-2,142.29	339.40	1,685.77	1,655.04	30.73	54.861
5,000.00	4,948.62	4,983.55	4,980.91	18.63	14.00	13.14	-2,140.06	339.37	1,662.39	1,630.97	31.42	52.903

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - No. 124H - OH - OH Surveys 98-12354 PTB 12417												Offset Site Error:	3.30 usft
Survey Program: 98-GYRO-NS-CT-1243-MWD-HDGM												Offset Well Error:	1.10 usft
Reference	Offset	Semi-Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,046.25	5,079.08	5,076.42	19.07	14.33	13.27	-2,137.83	339.99	1,639.09	1,606.97	32.12	51.027	
5,200.00	5,143.88	5,177.10	5,174.41	19.52	14.66	13.45	-2,135.63	339.91	1,615.82	1,583.00	32.83	49.223	
5,300.00	5,241.51	5,271.16	5,268.46	19.96	14.98	13.63	-2,133.64	339.44	1,592.65	1,569.13	33.52	47.507	
5,400.00	5,339.14	5,369.15	5,366.42	20.41	15.32	13.84	-2,131.66	338.65	1,569.55	1,535.32	34.23	45.850	
5,500.00	5,436.77	5,454.87	5,452.13	20.85	15.61	14.00	-2,130.18	338.72	1,546.84	1,511.92	34.92	44.301	
5,600.00	5,534.40	5,539.01	5,536.25	21.30	15.90	14.12	-2,129.26	340.12	1,524.89	1,489.30	35.60	42.838	
5,700.00	5,632.03	5,629.75	5,626.97	21.75	16.21	14.23	-2,128.86	341.87	1,503.61	1,467.32	36.29	41.434	
5,800.00	5,729.66	5,720.15	5,717.37	22.20	16.51	14.39	-2,128.95	342.73	1,482.78	1,445.80	36.98	40.096	
5,900.00	5,827.29	5,814.40	5,811.61	22.65	16.83	14.57	-2,129.44	343.24	1,462.35	1,424.67	37.68	38.811	
6,000.00	5,924.92	5,912.49	5,909.69	23.11	17.15	14.80	-2,130.11	343.05	1,442.03	1,403.65	38.38	37.570	
6,100.00	6,022.55	6,016.45	6,013.65	23.56	17.50	15.09	-2,130.66	341.89	1,421.52	1,382.42	39.10	36.353	
6,200.00	6,120.18	6,131.77	6,128.97	24.01	17.89	15.35	-2,130.01	341.96	1,400.03	1,360.18	39.85	35.132	
6,300.00	6,217.81	6,226.69	6,223.85	24.47	18.22	15.50	-2,128.92	343.95	1,378.15	1,337.58	40.56	33.975	
6,400.00	6,315.44	6,318.72	6,315.86	24.92	18.53	15.65	-2,128.23	345.70	1,356.65	1,315.37	41.27	32.871	
6,500.00	6,413.07	6,420.20	6,417.33	25.38	18.88	15.83	-2,127.61	347.46	1,335.28	1,293.28	42.00	31.794	
6,600.00	6,510.70	6,528.64	6,525.75	25.83	19.26	16.06	-2,126.17	348.69	1,313.19	1,270.45	42.74	30.728	
6,700.00	6,608.33	6,630.66	6,627.75	26.29	19.61	16.30	-2,124.28	349.53	1,290.60	1,247.13	43.47	29.693	
6,800.00	6,705.96	6,729.33	6,726.40	26.75	19.96	16.56	-2,122.24	349.69	1,267.78	1,223.59	44.19	28.688	
6,900.00	6,803.58	6,819.99	6,817.04	27.20	20.27	16.82	-2,120.48	349.86	1,245.13	1,200.22	44.91	27.725	
7,000.00	6,901.21	6,911.24	6,908.28	27.66	20.59	17.06	-2,119.32	350.46	1,223.16	1,177.53	45.63	26.806	
7,100.00	6,998.84	7,007.17	7,004.21	28.12	20.92	17.31	-2,118.35	351.33	1,201.48	1,155.13	46.36	25.917	
7,200.00	7,096.47	7,104.19	7,101.21	28.58	21.26	17.58	-2,117.43	352.13	1,179.88	1,132.79	47.09	25.057	
7,300.00	7,194.26	7,199.19	7,196.21	29.03	21.59	17.77	-2,116.61	353.10	1,159.12	1,111.30	47.82	24.241	
7,400.00	7,292.40	7,533.58	7,515.65	29.48	22.74	22.42	-2,081.13	284.01	1,129.64	1,081.44	48.20	23.438	
7,500.00	7,390.86	7,573.02	7,548.37	29.91	22.88	23.57	-2,074.03	263.16	1,096.26	1,047.00	49.26	22.255	
7,600.00	7,489.61	7,606.11	7,574.95	30.33	23.00	24.61	-2,069.28	244.05	1,070.24	1,019.99	50.26	21.295	
7,700.00	7,588.62	7,630.00	7,593.73	30.74	23.09	25.41	-2,066.68	229.51	1,052.54	1,001.45	51.09	20.600	
7,800.00	7,687.86	7,676.00	7,628.89	31.13	23.27	27.10	-2,063.33	200.06	1,043.23	991.39	51.84	20.125	
7,865.96	7,753.43	7,708.56	7,653.10	31.38	23.41	28.35	-2,061.72	178.36	1,041.64	989.37	52.27	19.928 CC, ES	
7,900.00	7,787.30	7,727.97	7,667.34	31.52	23.49	29.11	-2,060.82	165.18	1,042.06	989.57	52.49	19.854	
8,000.00	7,886.91	7,788.45	7,709.78	31.89	23.77	31.59	-2,057.80	122.23	1,048.12	995.03	53.08	19.744	
8,100.00	7,986.66	7,863.99	7,756.91	32.25	24.16	34.96	-2,051.68	63.57	1,061.13	1,007.39	53.73	19.748	
8,200.00	8,086.51	7,922.59	7,789.68	32.60	24.52	37.75	-2,044.48	15.54	1,080.83	1,026.74	54.09	19.983	
8,300.00	8,186.44	7,957.00	7,807.69	32.93	24.75	39.53	-2,039.73	-13.40	1,108.29	1,054.33	53.96	20.540	
8,400.00	8,286.43	7,989.97	7,824.01	33.26	24.99	41.31	-2,035.16	-41.67	1,143.64	1,090.00	53.64	21.319	
8,500.00	8,386.43	8,004.00	7,830.69	33.56	25.09	-156.64	-2,033.29	-53.87	1,186.50	1,133.61	52.89	22.432	
8,600.00	8,486.43	8,025.92	7,840.62	33.85	25.26	-155.62	-2,030.58	-73.23	1,235.40	1,183.23	52.17	23.680	
8,700.00	8,586.43	8,051.00	7,851.07	34.15	25.46	-154.45	-2,027.97	-95.87	1,289.98	1,238.54	51.45	25.073	
8,800.00	8,686.43	8,051.00	7,851.07	34.44	25.46	-154.45	-2,027.97	-95.87	1,349.05	1,298.73	50.32	26.809	
8,900.00	8,786.26	8,051.00	7,851.07	34.75	25.46	-27.93	-2,027.97	-95.87	1,409.98	1,360.80	49.18	28.672	
9,000.00	8,884.01	8,076.56	7,860.61	35.08	25.68	-24.19	-2,025.74	-119.47	1,462.79	1,414.47	48.31	30.277	
9,100.00	8,976.71	8,098.00	7,867.67	35.41	25.86	-21.60	-2,024.15	-139.65	1,506.62	1,459.34	47.28	31.864	
9,200.00	9,061.56	8,098.00	7,867.67	35.73	25.86	-20.31	-2,024.15	-139.65	1,540.55	1,494.68	45.87	33.582	
9,300.00	9,136.02	8,144.00	7,880.27	36.04	26.28	-19.35	-2,021.22	-183.78	1,563.77	1,518.69	45.07	34.693	
9,400.00	9,200.04	8,144.00	7,880.27	36.31	26.28	-23.13	-2,021.22	-183.78	1,581.32	1,537.60	43.72	36.167	
9,500.00	9,252.82	8,191.00	7,889.44	36.51	26.75	-24.71	-2,018.97	-229.81	1,595.41	1,552.27	43.13	36.989	
9,600.00	9,292.75	8,191.00	7,889.44	36.68	26.75	-26.22	-2,018.97	-229.81	1,605.04	1,562.76	42.28	37.965	
9,700.00	9,318.61	8,220.20	7,892.95	36.82	27.05	-26.89	-2,018.18	-258.78	1,610.28	1,568.20	42.08	38.263	
9,800.00	9,329.61	8,238.00	7,894.19	37.00	27.23	-27.32	-2,017.96	-276.54	1,610.93	1,568.72	42.21	38.166	
9,900.00	9,330.00	8,302.73	7,896.28	37.28	27.95	-27.39	-2,017.58	-341.23	1,608.21	1,565.25	42.96	37.432	
9,957.81	9,330.00	8,336.52	7,896.45	37.53	28.33	-27.39	-2,017.45	-375.02	1,607.82	1,564.38	43.43	37.020	
10,000.00	9,330.00	8,375.18	7,896.27	37.76	28.81	-27.38	-2,017.22	-413.68	1,607.86	1,564.00	43.86	36.656	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - No. 124H- OH - OH Surveys 98-12354 PTB 12417														Offset Site Error:
Survey Program: 98-GYRO-NS-CT-1243-MWD-HDGM														Offset Well Error:
Reference	Offset	Semi Major Axis		Reference	Offset	Highside	Offset Wellbore Centre	Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
10,100.00	9,330.00	8,467.92	7,895.17	38.47	30.00	-27.32	-2,016.08	-506.40	1,608.33	1,563.37	44.95	35.777		
10,200.00	9,330.00	8,558.28	7,893.17	39.37	31.27	-27.23	-2,014.03	-596.71	1,609.24	1,563.13	46.11	34.900		
10,300.00	9,330.00	8,645.20	7,890.39	40.42	32.56	-27.11	-2,011.91	-683.57	1,610.94	1,563.61	47.33	34.040		
10,400.00	9,330.00	8,749.10	7,886.49	41.60	34.21	-26.97	-2,009.57	-787.36	1,613.25	1,564.54	48.71	33.121		
10,500.00	9,330.00	8,854.17	7,884.60	42.88	35.95	-26.92	-2,008.98	-892.41	1,614.56	1,564.32	50.24	32.136		
10,600.00	9,330.00	8,932.42	7,883.03	44.26	37.29	-26.91	-2,009.51	-970.64	1,616.66	1,564.97	51.70	31.272		
10,700.00	9,330.00	9,030.48	7,879.25	45.71	39.03	-26.86	-2,009.82	-1,068.63	1,620.21	1,566.89	53.32	30.389		
10,800.00	9,330.00	9,148.94	7,876.31	47.24	41.20	-26.80	-2,009.35	-1,187.05	1,622.14	1,567.01	55.13	29.423		
10,900.00	9,330.00	9,225.47	7,874.30	48.83	42.63	-26.77	-2,009.46	-1,263.56	1,624.57	1,567.84	56.73	28.638		
11,000.00	9,330.00	9,334.62	7,870.03	50.47	44.72	-26.71	-2,009.99	-1,372.61	1,628.32	1,569.73	58.59	27.794		
11,100.00	9,330.00	9,465.02	7,869.08	52.17	47.25	-26.79	-2,013.00	-1,502.97	1,629.94	1,569.16	60.78	26.817		
11,200.00	9,330.00	9,531.43	7,868.69	53.91	48.57	-26.86	-2,015.41	-1,569.34	1,632.01	1,569.48	62.53	26.101		
11,300.00	9,330.00	9,600.49	7,867.06	55.69	49.94	-26.92	-2,018.12	-1,638.32	1,635.87	1,571.56	64.32	25.435		
11,400.00	9,330.00	9,709.74	7,862.65	57.52	52.14	-26.97	-2,022.11	-1,747.41	1,641.17	1,574.71	66.46	24.696		
11,500.00	9,330.00	9,863.16	7,861.74	59.37	55.28	-27.11	-2,027.18	-1,900.72	1,642.84	1,573.75	69.10	23.776		
11,600.00	9,330.00	9,936.96	7,861.39	61.26	56.81	-27.17	-2,029.41	-1,974.49	1,644.62	1,573.58	71.04	23.149		
11,700.00	9,330.00	10,006.98	7,859.77	63.17	58.26	-27.22	-2,031.68	-2,044.45	1,648.13	1,575.17	72.96	22.589		
11,800.00	9,330.00	10,080.00	7,856.75	65.11	59.79	-27.25	-2,034.22	-2,117.37	1,653.37	1,578.47	74.90	22.073		
11,900.00	9,330.00	10,152.51	7,852.47	67.07	61.31	-27.26	-2,036.78	-2,189.71	1,660.22	1,583.40	76.83	21.610		
12,000.00	9,330.00	10,278.46	7,843.63	69.06	63.97	-27.25	-2,041.13	-2,315.27	1,668.26	1,589.04	79.22	21.058		
12,100.00	9,330.00	10,400.96	7,837.87	71.06	66.59	-27.23	-2,043.45	-2,437.61	1,673.19	1,591.60	81.59	20.507		
12,200.00	9,330.00	10,466.29	7,834.17	73.09	67.99	-27.20	-2,044.57	-2,502.82	1,678.98	1,595.52	83.45	20.119		
12,300.00	9,330.00	10,603.63	7,825.34	75.12	70.95	-27.10	-2,045.70	-2,639.86	1,685.19	1,599.33	85.86	19.627		
12,400.00	9,330.00	10,708.84	7,820.02	77.18	73.23	-26.97	-2,044.33	-2,744.93	1,689.06	1,601.11	87.95	19.205		
12,500.00	9,330.00	10,796.91	7,814.16	79.25	75.15	-26.83	-2,042.81	-2,832.79	1,694.13	1,604.26	89.86	18.852		
12,600.00	9,330.00	10,917.66	7,807.53	81.33	77.80	-26.66	-2,040.35	-2,953.33	1,698.01	1,606.00	92.01	18.455		
12,700.00	9,330.00	11,005.56	7,802.63	83.42	79.72	-26.53	-2,038.54	-3,041.07	1,702.06	1,608.13	93.93	18.120		
12,800.00	9,330.00	11,169.33	7,796.54	85.52	83.33	-26.36	-2,036.31	-3,204.68	1,704.83	1,608.38	96.45	17.676		
12,900.00	9,330.00	11,250.03	7,794.91	87.64	85.11	-26.31	-2,035.44	-3,285.35	1,706.13	1,607.67	98.47	17.327		
13,000.00	9,330.00	11,325.00	7,792.53	89.76	86.77	-26.25	-2,034.68	-3,360.28	1,708.56	1,608.15	100.42	17.015		
13,100.00	9,330.00	11,402.49	7,788.91	91.89	88.49	-26.18	-2,033.95	-3,437.69	1,712.38	1,610.04	102.34	16.732		
13,200.00	9,330.00	11,553.24	7,782.60	94.03	91.84	-26.06	-2,033.30	-3,588.28	1,716.11	1,611.26	104.85	16.368		
13,300.00	9,330.00	11,667.30	7,781.62	96.18	94.38	-26.05	-2,033.34	-3,702.34	1,716.80	1,609.58	107.22	16.012		
13,400.00	9,330.00	11,748.14	7,780.51	98.34	96.18	-26.04	-2,033.61	-3,783.18	1,718.17	1,608.83	109.34	15.714		
13,500.00	9,330.00	11,878.76	7,778.15	100.50	99.09	-26.01	-2,034.05	-3,913.77	1,720.13	1,608.29	111.84	15.381		
13,600.00	9,330.00	12,037.30	7,780.01	102.67	102.65	-25.91	-2,029.66	-4,072.23	1,717.37	1,603.05	114.32	15.023		
13,700.00	9,330.00	12,118.69	7,781.12	104.84	104.48	-25.84	-2,026.82	-4,153.56	1,714.62	1,598.27	116.35	14.737		
13,800.00	9,330.00	12,192.71	7,781.03	107.02	106.14	-25.76	-2,024.28	-4,227.52	1,713.22	1,594.92	118.30	14.482		
13,834.97	9,330.00	12,217.39	7,780.75	107.79	106.70	-25.73	-2,023.54	-4,252.19	1,713.11	1,594.15	118.97	14.400		
13,900.00	9,330.00	12,263.73	7,779.89	109.21	107.74	-25.68	-2,022.37	-4,298.51	1,713.48	1,593.27	120.21	14.254		
14,000.00	9,330.00	12,344.02	7,777.48	111.40	109.55	-25.59	-2,020.48	-4,378.74	1,715.15	1,593.02	122.13	14.044		
14,100.00	9,330.00	12,417.00	7,774.68	113.59	111.19	-25.49	-2,018.70	-4,451.65	1,717.70	1,593.74	123.96	13.857		
14,200.00	9,330.00	12,417.00	7,774.68	115.79	111.19	-25.49	-2,018.70	-4,451.65	1,724.42	1,599.27	125.15	13.779 SF		
14,204.80	9,330.00	12,417.00	7,774.68	115.92	111.19	-25.49	-2,018.70	-4,451.65	1,724.89	1,599.87	125.01	13.798		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim.C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH													Offset Site Error:
Survey Program: 98-GYRO-NS-CT-1250-MWD-HDGM													0.00 usft
Reference	Offset	Semi-Major Axis		Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	0.00	0.00	3.30	0.00	180.00	-61.00	0.00	61.00				
100.00	100.00	100.05	100.05	3.30	0.12	179.88	-60.96	0.13	60.96	57.53	3.43	17.789	
156.74	156.74	156.74	156.74	3.32	0.33	179.75	-60.93	0.26	60.93	57.29	3.64	16.725	
200.00	200.00	199.98	199.98	3.34	0.48	179.66	-60.94	0.36	60.95	57.13	3.81	15.982	
300.00	300.00	300.27	300.26	3.41	0.83	179.49	-60.81	0.54	60.81	56.57	4.23	14.361	
400.00	400.00	401.02	401.01	3.51	1.18	179.32	-59.67	0.71	59.68	54.99	4.69	12.717	
500.00	500.00	501.27	501.24	3.65	1.54	179.02	-57.68	0.99	57.70	52.51	5.18	11.134	
600.00	600.00	601.08	601.03	3.82	1.89	178.93	-55.58	1.04	55.60	49.90	5.70	9.756	
700.00	700.00	700.42	700.36	4.01	2.24	178.51	-54.22	1.41	54.24	48.00	6.24	8.693	
740.11	740.11	740.17	740.11	4.09	2.38	178.20	-54.08	1.70	54.11	47.65	6.46	8.374 CC	
800.00	800.00	799.65	799.59	4.22	2.59	177.57	-54.31	2.30	54.36	47.56	6.80	7.994	
900.00	900.00	899.49	899.41	4.46	2.94	176.07	-55.35	3.81	55.48	48.10	7.38	7.517	
1,000.00	1,000.00	999.71	999.61	4.71	3.29	174.76	-56.08	5.14	56.31	48.33	7.98	7.057	
1,100.00	1,100.00	1,099.70	1,099.60	4.97	3.64	174.11	-56.66	5.85	56.97	48.38	8.59	6.632	
1,200.00	1,200.00	1,199.39	1,199.28	5.24	3.85	173.90	-57.57	6.15	57.90	48.83	9.08	6.380	
1,300.00	1,300.00	1,299.09	1,298.97	5.52	3.96	174.05	-59.09	6.16	59.42	49.96	9.47	6.277	
1,400.00	1,400.00	1,398.33	1,398.19	5.82	4.01	174.10	-61.21	6.32	61.56	51.75	9.81	6.276	
1,500.00	1,500.00	1,497.03	1,496.79	6.11	4.10	172.49	-64.83	8.54	65.47	55.28	10.18	6.429	
1,600.00	1,600.00	1,595.57	1,595.10	6.42	4.21	169.67	-70.05	12.77	71.37	60.78	10.59	6.741	
1,700.00	1,700.00	1,694.27	1,693.46	6.73	4.35	166.94	-76.70	17.80	79.01	67.98	11.03	7.166	
1,800.00	1,800.00	1,792.43	1,791.13	7.04	4.52	164.30	-84.40	23.72	88.12	76.63	11.49	7.672	
1,900.00	1,900.00	1,890.19	1,888.22	7.36	4.72	161.97	-93.57	30.47	99.11	87.14	11.97	8.280	
2,000.00	2,000.00	1,991.59	1,988.92	7.68	4.94	160.23	-103.33	37.13	110.35	97.83	12.52	8.814	
2,100.00	2,099.99	2,091.15	2,087.98	7.99	5.18	-1.80	-112.09	42.06	119.45	106.40	13.05	9.153	
2,200.00	2,199.96	2,189.37	2,185.63	8.29	5.44	-2.22	-121.63	46.54	127.55	113.98	13.57	9.398	
2,300.00	2,299.86	2,290.85	2,286.53	8.59	5.72	-3.08	-130.93	52.08	133.73	119.59	14.15	9.454	
2,400.00	2,399.68	2,390.49	2,385.62	8.90	6.00	-4.61	-138.89	58.88	137.66	122.94	14.72	9.355	
2,500.00	2,499.37	2,488.77	2,483.23	9.21	6.30	-6.62	-146.87	67.04	140.70	125.42	15.28	9.206	
2,600.00	2,598.90	2,587.60	2,581.23	9.53	6.61	-9.04	-155.39	76.60	143.28	127.41	15.87	9.029	
2,700.00	2,698.26	2,687.57	2,680.42	9.85	6.93	-10.82	-164.89	84.66	144.35	127.86	16.48	8.758	
2,800.00	2,797.40	2,785.64	2,777.66	10.18	7.26	-12.18	-175.34	91.79	144.44	127.36	17.08	8.456	
2,900.00	2,896.30	2,885.95	2,876.96	10.51	7.60	-13.69	-187.19	99.65	144.19	126.47	17.72	8.138	
3,000.00	2,994.93	2,988.28	2,978.51	10.86	7.95	-15.42	-197.65	106.56	140.42	122.03	18.39	7.635	
3,100.00	3,093.26	3,087.83	3,077.39	11.21	8.29	-17.23	-207.57	112.54	134.47	115.43	19.04	7.063	
3,200.00	3,191.25	3,187.36	3,176.21	11.57	8.64	-19.51	-217.69	118.78	127.34	107.64	19.70	6.464	
3,300.00	3,288.92	3,292.51	3,280.82	11.93	9.00	-22.82	-226.45	124.55	117.16	96.74	20.42	5.736	
3,400.00	3,386.55	3,392.96	3,381.10	12.31	9.34	-27.52	-230.89	128.34	103.22	82.10	21.12	4.888	
3,500.00	3,484.18	3,494.73	3,479.27	12.69	9.67	-33.59	-234.87	131.85	89.76	67.92	21.84	4.110	
3,600.00	3,581.81	3,589.87	3,577.71	13.08	9.99	-41.58	-239.03	135.44	77.80	55.22	22.58	3.445	
3,700.00	3,679.44	3,687.45	3,675.12	13.48	10.31	-52.80	-242.49	140.02	68.63	45.22	23.41	2.932	
3,768.77	3,746.58	3,752.25	3,739.64	13.75	10.54	-61.16	-245.79	145.01	66.44	42.47	23.97	2.772 ES	
3,800.00	3,777.07	3,782.28	3,769.43	13.87	10.65	-64.62	-248.04	148.07	66.84	42.62	24.22	2.760 SF	
3,900.00	3,874.70	3,881.22	3,867.44	14.28	11.02	-74.89	-256.20	158.82	70.44	45.34	25.09	2.807	
4,000.00	3,972.33	3,980.54	3,965.86	14.68	11.39	-84.10	-264.20	169.52	76.04	50.08	25.95	2.930	
4,100.00	4,069.96	4,079.58	4,064.08	15.09	11.75	-92.38	-271.49	179.94	83.35	56.58	26.77	3.113	
4,200.00	4,167.59	4,178.50	4,162.24	15.51	12.12	-99.53	-278.28	190.20	92.22	64.66	27.56	3.346	
4,300.00	4,265.22	4,277.27	4,260.27	15.93	12.49	-105.56	-284.64	200.41	102.49	74.17	28.32	3.619	
4,400.00	4,362.85	4,376.00	4,358.33	16.35	12.85	-110.81	-290.35	210.32	113.87	84.81	29.06	3.919	
4,500.00	4,460.48	4,475.78	4,457.47	16.77	13.22	-115.22	-296.01	220.15	125.99	96.18	29.80	4.227	
4,600.00	4,558.11	4,576.22	4,557.09	17.20	13.60	-118.21	-303.78	230.27	137.32	106.76	30.57	4.493	
4,700.00	4,655.74	4,675.44	4,655.38	17.62	13.98	-120.32	-312.43	240.73	148.53	117.20	31.32	4.742	
4,800.00	4,753.37	4,774.29	4,753.37	18.05	14.36	-122.33	-320.54	250.83	160.10	128.02	32.07	4.991	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 98-GYRO-NS-CT-1250-MWD-HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis	Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning:
4,900.00	4,850.99	4,872.75	4,851.06	18.49	14.74	-124.26	-328.04	260.61	172.13	139.32	32.82	5.246	
5,000.00	4,948.62	4,971.54	4,949.12	18.92	15.11	-126.06	-335.10	270.32	184.68	151.12	33.56	5.503	
5,100.00	5,046.25	5,070.12	5,047.05	19.36	15.48	-127.82	-341.63	279.50	197.53	163.24	34.29	5.761	
5,200.00	5,143.88	5,174.99	5,151.32	19.79	15.88	-129.74	-349.05	287.83	209.47	174.41	35.06	5.974	
5,300.00	5,241.51	5,276.15	5,251.90	20.23	16.26	-131.53	-357.71	294.37	219.59	183.79	35.80	6.135	
5,400.00	5,339.14	5,373.89	5,349.12	20.67	16.63	-133.24	-365.85	300.20	229.87	193.36	36.50	6.297	
5,500.00	5,436.77	5,472.15	5,446.97	21.11	16.99	-135.07	-373.14	305.34	240.83	203.63	37.20	6.474	
5,600.00	5,534.40	5,570.39	5,544.88	21.56	17.35	-136.92	-379.82	309.87	252.34	214.45	37.89	6.660	
5,700.00	5,632.03	5,667.83	5,642.06	22.00	17.70	-138.73	-385.73	313.96	264.60	226.05	38.56	6.862	
5,800.00	5,729.66	5,763.66	5,737.68	22.45	18.05	-140.48	-390.87	317.62	277.65	238.44	39.21	7.081	
5,900.00	5,827.29	5,854.36	5,828.22	22.89	18.37	-141.96	-393.88	321.90	293.12	253.31	39.81	7.363	
6,000.00	5,924.92	5,948.07	5,921.78	23.34	18.69	-143.31	-394.86	327.18	311.19	270.75	40.44	7.696	
6,100.00	6,022.55	6,050.90	6,024.31	23.79	19.06	-144.30	-396.92	334.65	328.98	287.78	41.19	7.986	
6,200.00	6,120.18	6,155.84	6,128.76	24.24	19.44	-144.84	-400.99	343.94	345.50	303.51	42.00	8.227	
6,300.00	6,217.81	6,275.04	6,247.16	24.69	19.90	-145.24	-409.93	354.27	358.63	315.74	42.88	8.363	
6,400.00	6,315.44	6,392.99	6,364.00	25.14	20.36	-146.06	-424.87	359.79	365.62	321.99	43.64	8.379	
6,500.00	6,413.07	6,483.07	6,453.35	25.59	20.69	-147.19	-436.21	360.46	371.81	327.48	44.32	8.388	
6,600.00	6,510.70	6,578.67	6,548.37	26.04	21.04	-148.35	-446.65	361.54	379.89	334.89	45.00	8.442	
6,700.00	6,608.33	6,677.27	6,646.42	26.49	21.40	-149.46	-456.93	363.05	388.71	343.02	45.69	8.508	
6,800.00	6,705.96	6,774.96	6,743.60	26.95	21.76	-150.54	-466.83	364.45	397.92	351.55	46.37	8.582	
6,900.00	6,803.58	6,868.50	6,836.77	27.40	22.09	-151.89	-475.00	363.36	408.23	361.24	47.00	8.686	
7,000.00	6,901.21	6,962.71	6,930.69	27.86	22.40	-153.41	-481.91	360.78	419.95	372.34	47.60	8.822	
7,100.00	6,998.84	7,049.97	7,017.73	28.31	22.68	-154.98	-486.48	356.81	433.84	385.70	48.14	9.013	
7,200.00	7,096.47	7,132.36	7,099.97	28.77	22.93	-156.55	-488.17	352.05	451.13	402.55	48.58	9.287	
7,300.00	7,194.26	7,232.42	7,199.88	29.22	23.22	-158.30	-488.68	346.67	469.68	420.50	49.19	9.549	
7,400.00	7,292.40	7,342.15	7,309.25	29.66	23.55	-160.23	-490.97	338.62	485.39	435.52	49.87	9.733	
7,500.00	7,390.86	7,431.93	7,396.19	30.09	23.78	-163.36	-493.77	317.09	499.25	448.99	50.26	9.934	
7,600.00	7,489.61	7,516.08	7,472.25	30.51	23.96	-167.84	-495.80	281.35	515.61	465.19	50.42	10.226	
7,700.00	7,588.62	7,586.48	7,532.09	30.91	24.09	-172.15	-497.70	244.37	536.03	485.73	50.30	10.657	
7,800.00	7,687.86	7,643.96	7,578.44	31.31	24.19	-175.85	-498.35	210.40	562.98	513.20	49.79	11.308	
7,900.00	7,787.30	7,708.67	7,628.82	31.69	24.29	-179.95	-498.07	169.79	596.22	546.94	49.28	12.100	
8,000.00	7,886.91	7,768.34	7,673.61	32.06	24.39	176.36	-497.87	130.37	634.54	585.93	48.60	13.055	
8,100.00	7,986.66	7,815.13	7,706.63	32.42	24.47	173.47	-497.98	97.24	678.39	630.83	47.57	14.262	
8,200.00	8,086.51	7,859.53	7,735.30	32.76	24.55	170.69	-498.74	63.35	727.96	681.53	46.43	15.678	
8,300.00	8,186.44	7,907.30	7,764.09	33.10	24.65	167.77	-500.37	25.28	782.23	736.80	45.44	17.216	
8,400.00	8,286.43	7,949.12	7,788.39	33.42	24.77	165.36	-502.03	-8.72	840.34	795.96	44.39	18.933	
8,500.00	8,386.43	7,969.00	7,799.59	33.72	24.84	-34.48	-502.77	-25.12	902.50	859.63	42.86	21.056	
8,600.00	8,486.43	8,000.39	7,816.39	34.01	24.97	-36.31	-503.69	-51.62	969.18	927.35	41.82	23.173	
8,700.00	8,586.43	8,016.00	7,824.21	34.31	25.05	-37.20	-503.98	-65.12	1,040.37	999.81	40.56	25.649	
8,800.00	8,686.43	8,034.89	7,833.15	34.60	25.15	-38.27	-504.21	-81.76	1,115.23	1,075.65	39.58	28.178	
8,900.00	8,786.26	8,062.00	7,844.91	34.90	25.30	76.04	-504.36	-106.18	1,193.05	1,154.12	38.94	30.642	
9,000.00	8,884.01	8,062.00	7,844.91	35.23	25.30	64.49	-504.36	-106.18	1,270.64	1,232.81	37.83	33.588	
9,100.00	8,976.71	8,088.41	7,855.05	35.56	25.47	54.22	-504.65	-130.56	1,345.84	1,308.44	37.40	35.984	
9,200.00	9,061.56	8,109.00	7,861.98	35.88	25.60	46.45	-505.22	-149.94	1,416.55	1,379.57	36.98	38.305	
9,300.00	9,136.02	8,137.66	7,870.46	36.19	25.81	40.52	-506.27	-177.30	1,480.92	1,444.08	36.84	40.200	
9,400.00	9,200.04	8,156.00	7,875.28	36.46	25.95	35.47	-506.99	-194.98	1,535.46	1,498.86	36.59	41.961	
9,500.00	9,252.82	8,203.00	7,885.37	36.66	26.33	32.15	-508.79	-240.83	1,578.07	1,541.33	36.73	42.963	
9,600.00	9,292.75	8,219.29	7,888.07	36.83	26.48	29.93	-509.28	-256.89	1,608.24	1,571.68	36.56	43.989	
9,700.00	9,318.61	8,249.00	7,891.85	36.97	26.74	28.66	-509.62	-286.35	1,625.99	1,589.34	36.65	44.369	
9,800.00	9,329.61	8,280.76	7,894.63	37.15	27.05	28.17	-509.56	-318.00	1,630.61	1,593.73	36.88	44.213	
9,900.00	9,330.00	8,343.00	7,897.18	37.43	27.67	28.21	-509.13	-380.17	1,627.15	1,589.71	37.44	43.466	
9,975.09	9,330.00	8,355.96	7,897.28	37.77	27.81	28.22	-509.00	-393.13	1,625.93	1,588.20	37.73	43.091	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim.C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 98-GYRO-NS-CT-1250-MWD-HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,330.00	8,372.51	7,897.31	37.91	28.00	28.22	-508.87	-409.68	1,626.00	1,588.08	37.91	42.887		
10,100.00	9,330.00	8,439.71	7,896.27	38.61	28.75	28.21	-508.64	-476.86	1,627.54	1,588.83	38.71	42.046		
10,200.00	9,330.00	8,523.43	7,893.15	39.50	29.79	28.15	-509.14	-560.53	1,630.57	1,590.89	39.68	41.093		
10,300.00	9,330.00	8,667.42	7,889.21	40.55	31.78	28.03	-510.93	-704.44	1,632.28	1,591.12	41.16	39.656		
10,400.00	9,330.00	8,759.66	7,887.43	41.73	33.16	27.95	-512.47	-796.65	1,633.23	1,590.81	42.42	38.497		
10,500.00	9,330.00	8,844.44	7,884.49	43.01	34.49	27.83	-514.85	-881.35	1,635.01	1,591.33	43.68	37.429		
10,600.00	9,330.00	8,960.28	7,879.49	44.38	36.40	27.64	-518.62	-997.01	1,637.43	1,592.17	45.26	36.178		
10,700.00	9,330.00	9,076.07	7,878.47	45.83	38.40	27.59	-519.55	-1,112.79	1,637.81	1,590.76	47.04	34.814		
10,800.00	9,330.00	9,160.00	7,877.68	47.35	39.90	27.57	-519.79	-1,196.72	1,638.55	1,589.97	48.59	33.724		
10,900.00	9,330.00	9,248.74	7,875.37	48.94	41.52	27.50	-520.97	-1,285.41	1,640.26	1,590.07	50.19	32.678		
11,000.00	9,330.00	9,345.10	7,872.39	50.58	43.33	27.41	-522.27	-1,381.71	1,642.41	1,590.48	51.93	31.629		
11,100.00	9,330.00	9,441.78	7,871.02	52.27	45.17	27.46	-520.13	-1,478.35	1,644.70	1,590.87	53.83	30.554		
11,200.00	9,330.00	9,531.78	7,869.27	54.01	46.92	27.49	-518.35	-1,568.32	1,647.38	1,591.69	55.69	29.583		
11,300.00	9,330.00	9,698.39	7,869.31	55.79	50.23	27.59	-515.09	-1,734.87	1,648.22	1,589.57	58.65	28.100		
11,400.00	9,330.00	9,798.88	7,871.40	57.61	52.26	27.67	-513.64	-1,835.32	1,647.08	1,586.26	60.81	27.085		
11,480.63	9,330.00	9,862.22	7,872.03	59.10	53.55	27.69	-513.53	-1,898.66	1,646.49	1,584.21	62.29	26.433		
11,500.00	9,330.00	9,874.23	7,871.99	59.46	53.80	27.69	-513.55	-1,910.66	1,646.54	1,583.94	62.60	26.304		
11,600.00	9,330.00	9,931.00	7,870.93	61.35	54.96	27.66	-513.76	-1,967.43	1,648.15	1,584.05	64.11	25.709		
11,700.00	9,330.00	10,004.95	7,867.85	63.26	56.49	27.61	-513.94	-2,041.31	1,651.82	1,585.99	65.83	25.092		
11,800.00	9,330.00	10,108.93	7,862.51	65.20	58.65	27.54	-513.39	-2,145.15	1,656.66	1,588.69	67.97	24.373		
11,900.00	9,330.00	10,202.67	7,858.11	67.16	60.62	27.49	-512.71	-2,238.78	1,661.18	1,591.17	70.01	23.727		
12,000.00	9,330.00	10,293.96	7,852.81	69.14	62.55	27.40	-513.01	-2,329.91	1,666.21	1,594.24	71.97	23.150		
12,100.00	9,330.00	10,414.70	7,844.14	71.14	65.10	27.13	-517.37	-2,450.24	1,671.00	1,596.86	74.13	22.541		
12,200.00	9,330.00	10,491.27	7,839.25	73.16	66.73	27.02	-518.57	-2,526.64	1,675.94	1,600.08	75.86	22.094		
12,300.00	9,330.00	10,584.27	7,834.22	75.20	68.72	27.00	-516.89	-2,619.49	1,681.60	1,603.64	77.96	21.571		
12,400.00	9,330.00	10,771.45	7,829.78	77.25	72.77	26.99	-514.80	-2,806.58	1,683.70	1,602.17	81.53	20.652		
12,500.00	9,330.00	10,868.11	7,828.77	79.31	74.87	26.97	-515.22	-2,903.24	1,684.46	1,600.74	83.72	20.119		
12,600.00	9,330.00	10,958.02	7,826.96	81.39	76.82	26.90	-516.47	-2,993.12	1,685.64	1,599.88	85.77	19.654		
12,700.00	9,330.00	11,047.87	7,824.10	83.48	78.78	26.80	-518.63	-3,082.90	1,687.42	1,599.69	87.74	19.233		
12,800.00	9,330.00	11,134.59	7,820.41	85.59	80.68	26.66	-521.26	-3,169.50	1,689.89	1,600.29	89.61	18.859		
12,900.00	9,330.00	11,225.66	7,815.61	87.70	82.67	26.49	-524.47	-3,260.38	1,693.05	1,601.57	91.48	18.507		
13,000.00	9,330.00	11,292.60	7,811.28	89.82	84.14	26.36	-526.89	-3,327.14	1,697.33	1,604.31	93.01	18.249		
13,100.00	9,330.00	11,356.60	7,806.06	91.95	85.55	26.24	-528.17	-3,390.91	1,703.76	1,609.26	94.50	18.029		
13,200.00	9,330.00	11,426.00	7,799.20	94.09	87.07	26.12	-528.85	-3,459.96	1,712.20	1,616.15	96.05	17.827		
13,300.00	9,330.00	11,537.09	7,788.13	96.24	89.52	25.97	-528.42	-3,570.50	1,721.38	1,623.13	98.26	17.519		
13,400.00	9,330.00	11,681.75	7,777.85	98.39	92.72	25.89	-526.08	-3,714.76	1,728.44	1,627.26	101.18	17.083		
13,500.00	9,330.00	11,815.39	7,772.54	100.55	95.69	25.94	-522.06	-3,848.24	1,733.32	1,629.17	104.15	16.643		
13,600.00	9,330.00	11,913.92	7,769.16	102.72	97.89	25.96	-519.75	-3,946.68	1,737.46	1,630.96	106.50	16.314		
13,700.00	9,330.00	12,018.80	7,764.98	104.89	100.23	25.92	-519.22	-4,051.47	1,741.28	1,632.45	108.82	16.001		
13,800.00	9,330.00	12,118.19	7,759.85	107.07	102.45	25.80	-520.68	-4,150.72	1,745.30	1,634.40	110.90	15.738		
13,900.00	9,330.00	12,248.96	7,752.55	109.26	105.36	25.52	-526.82	-4,281.13	1,748.35	1,635.27	113.08	15.462		
14,000.00	9,330.00	12,359.63	7,746.43	111.45	107.82	25.18	-535.26	-4,391.31	1,750.10	1,635.31	114.79	15.246		
14,100.00	9,330.00	12,459.13	7,740.88	113.64	110.03	24.86	-543.57	-4,490.30	1,751.66	1,635.33	116.33	15.058		
14,200.00	9,330.00	12,470.00	7,740.27	115.84	110.27	24.83	-544.48	-4,501.12	1,755.51	1,638.42	117.09	14.993		
14,204.80	9,330.00	12,470.00	7,740.27	115.97	110.27	24.83	-544.48	-4,501.12	1,755.83	1,638.89	116.94	15.015		

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim.C	Offset TVD Reference:	Offset Datum

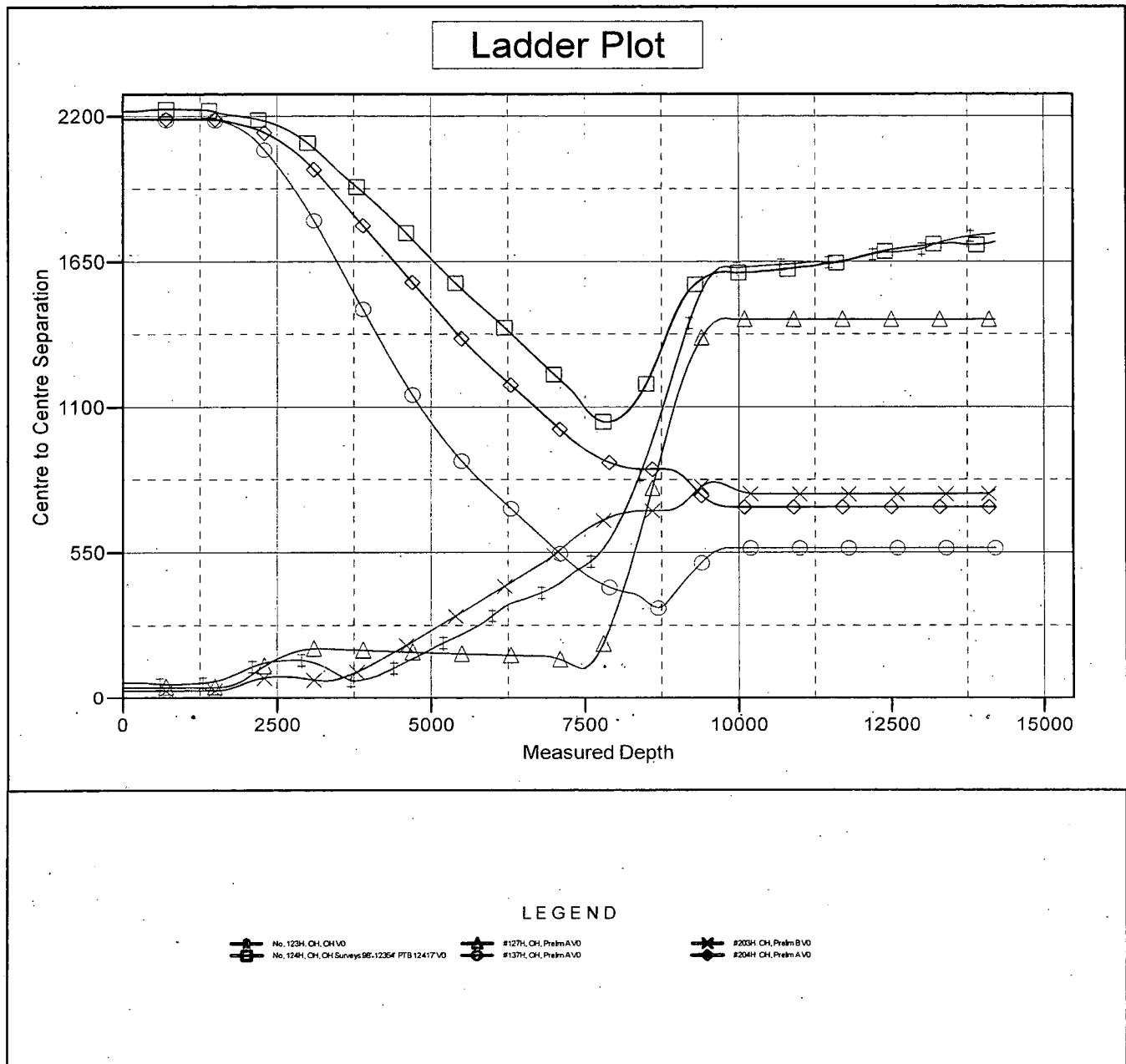
Reference Depths are relative to 3247 + 28.5 = KB @ 3275.50usft (Pat Coordinates are relative to: #227H)

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	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal-19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3247 + 28.5 = KB @ 3275.50usft (Pat Coordinates are relative to: #227H)

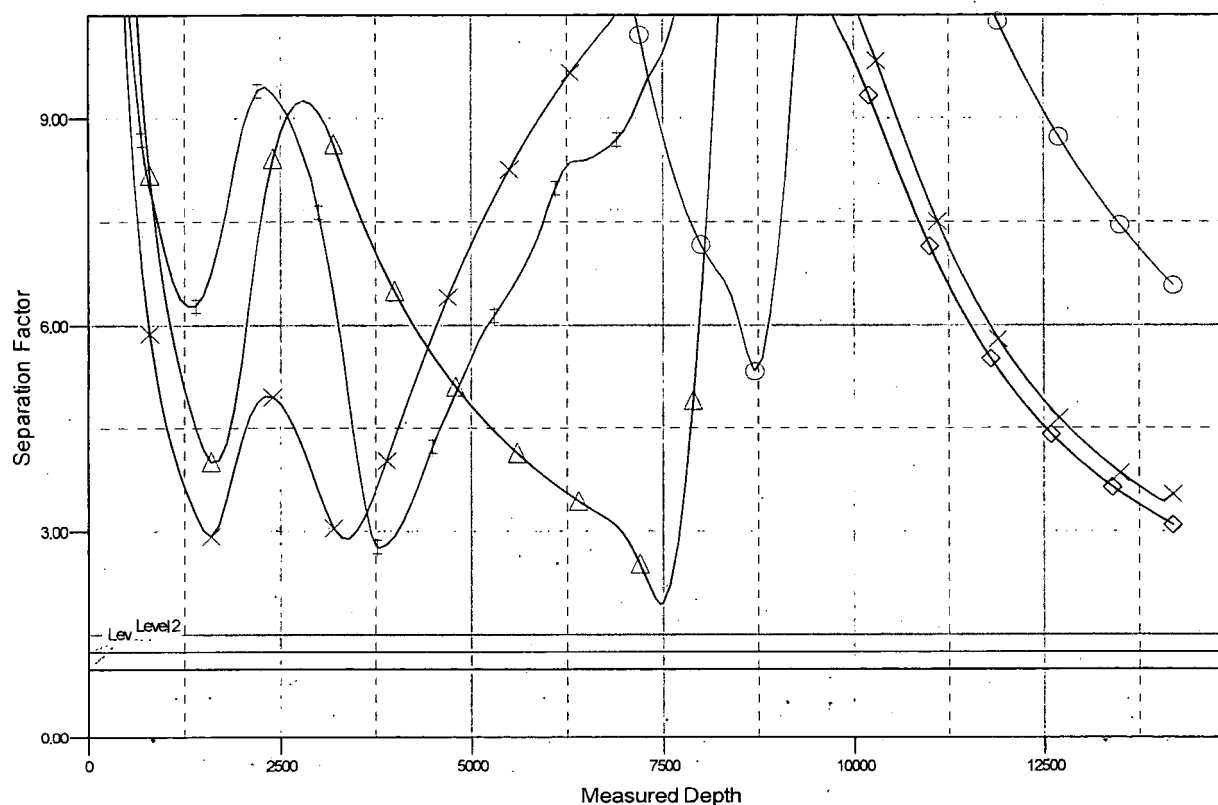
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

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

Grid Convergence at Surface is: 0.12°

Separation Factor Plot



LEGEND

	No. 123H, OH, OH VO		#127H, OH, Prelim AV0		#203H, OH, Prelim BV0
	No. 124H, OH, OH Surveys 95-12354 PTS 12417 VO		#137H, OH, Prelim AV0		#204H, OH, Prelim AV0

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

Connection Type:
DWC/C-HT-IS PLUS Casing
STANDARD

Size(O.D.):
5.500in

Weight (Wall):
20.00 lb./ft. (0.361in)

Grade:
P110RY

Material

P110RY Grade
110,000 Minimum Yield Strength (psi.)
125,000 Minimum Ultimate Strength (psi.)



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Pipe Dimensions

5.500 Nominal Pipe Body O.D. (in.)
4.778 Nominal Pipe Body I.D. (in.)
0.361 Nominal Wall Thickness (in.)
20.00 Nominal Weight (lbs./ft.)
19.83 Plain End Weight (lbs./ft.)
5.828 Nominal Pipe Body Area (sq. in.)

Pipe Body Performance Properties

641,000 Minimum Pipe Body Yield Strength (lbs.)
11,100 Minimum Collapse Pressure (psi.)
12,640 Minimum Internal Yield Pressure (psi.)
11,600 Hydrostatic Test Pressure (psi.)

Connection Dimensions

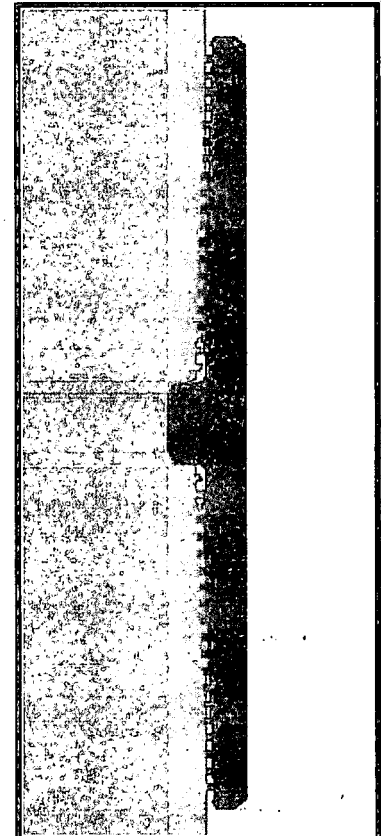
6.300 Connection O.D. (in.)
4.778 Connection I.D. (in.)
4.653 Connection Drift Diameter (in.)
4.13 Make-up Loss (in.)
5.828 Critical Area (sq in.)
100.00 Joint Efficiency (%)

Connection Performance Properties

641,000 Joint Strength (lbs.)
22,890 Reference String Length (ft.) 1.4 Design Factor
667,000 API Joint Strength (lbs.)
641,000 Compression Rating (lbs.)
11,100 API Collapse Pressure Rating (psi.)
12,640 API Internal Pressure Resistance (psi.)
91.7 Maximum Uniaxial Bend Rating [degrees/100 ft]

Appoximated Field End Torque Values

15,900 Minimum Final Torque (ft.-lbs.)
18,200 Maximum Final Torque (ft.-lbs.)
24,700 Connection Yield Torque (ft.-lbs.)



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

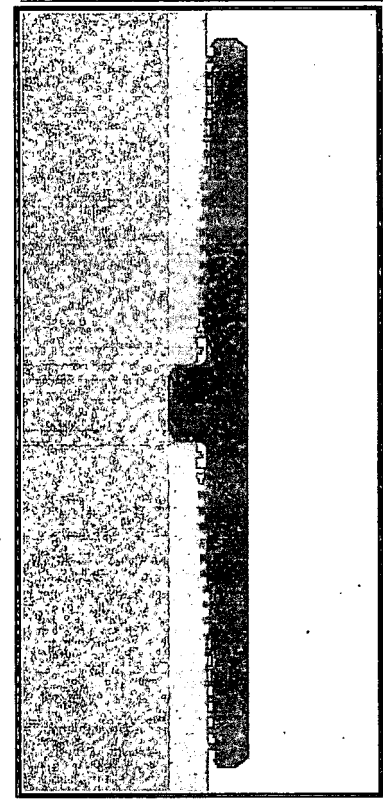
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DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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Drilling Operations Plan
Stebbins 19 Fed Com #227H
Matador Resources Company
UL: I, Sec 19, 20S, 29E
Eddy Co., NM

Surface Location: 2377' FSL & 410' FEL, Sec. 19

Bottom Hole Location: 1100' FSL & 60' FEL, Sec. 19

Elevation Above Sea Level: 3247'

Type of Well: Horizontal well, No Pilot Hole, Drilled with conventional rotary tools

Proposed Drilling Depth: 14,204' MD / 9330' TVD

Estimated Tops of Geological Markers w/ Mineral Bearing Formation:

Formation Name	Est Top	Bearing
Rustler	29	N/A
Base of Salt	1067	N/A
Yates	1126	N/A
Seven Rivers	1226	N/A
Capitan Reef	1381	Water
Cherry Canyon	3152	Hydrocarbons
Brushy Canyon	4369	Hydrocarbons
Bone Spring Lime	5731	Hydrocarbons
1st Bone Spring Carbonate	6517	Hydrocarbons
1st Bone Spring Sand	6999	Hydrocarbons
2nd Bone Spring Carbonate	7155	Hydrocarbons
2nd Bone Spring Sand	7546	Hydrocarbons
3rd Bone Spring Carbonate	7948	Hydrocarbons
3rd Bone Spring Sand	8766	Hydrocarbons
Wolfcamp	9210	Hydrocarbons
Wolfcamp B	9380	Hydrocarbons
Penn Shale	9767	Hydrocarbons

OSE Ground Water Estimated Depth: 50'

Casing Program

Name	Hole Size	Casing Size	Wt/Grade	Thread Collar	Setting Depth	Top Cement
Surface	26"	20" (new)	94# J-55	BTC	400	Surface
Intermediate 1	17-1/2"	13-3/8" (new)	54.5# J-55	BTC	1200	Surface
Intermediate 2	12-1/4"	9-5/8" (new)	40# J-55	BTC	3100	Surface
Production	8-3/4"	5-1/2" (new)	20# P-110	DWC/C	14204	1180'

Drilling Operations Plan
Stebbins 19 Fed Com #227H
Matador Resources Company
UL:I, Sec 19, 20S, 29E
Eddy Co., NM

Minimum Safety Factors: Burst: 1.125 Collapse: 1.125 Tension 1.8

Cementing Program

Name	Type	Sacks	Yield	Weight	Blend
Surface	Tail	873	1.38	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			Centralizers per Onshore Order 2.III.B.1f
Intermediate 1	Lead	637	1.73	13.5	Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	309	1.35	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface
Intermediate 2	Lead	715	1.73	13.5	Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
	Tail	288	1.35	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface
Production	Lead	943	2.22	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	1601	1.37	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 1180'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every 5th jt to top of tail cement (1000' above TOC)

Pressure Control Equipment:

See Exhibit E-1. MTRD requests a variance for a 2M annular to be installed after running 20" casing. After 20" casing a BOP consisting of 3 rams with 2 pipe rams, 1 blind ram and one annular preventer. The BOP will be utilized below intermediate 1 casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. Pressure tests will be conducted prior to drilling out under all casing strings. BOP will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third party company will test the BOPs. Test pressures will be as follows: On the intermediate 1 casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate 2 casing, pressure tests will be made to 250 psi low and 3000 psi high. The annular preventer will be tested to 250 psi low and 2500 psi high on the intermediate 1 casing, and 250 psi low and 2500 psi high on the intermediate 2 casing. In the case of running a speed head with landing mandrel for 9-5/8" casing the initial intermediate 1 casing test pressures will be 250 psi low and 3000 psi high with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented.

Drilling Operations Plan
Stebbins 19 Fed Com #227H
Matador Resources Company
UL:I, Sec 19, 20S, 29E
Eddy Co., NM

Matador Resources requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (see Exhibit E-2). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Matador requests the option to cut off 20" SOW wellhead and run 13-3/8" SOW multi-bowl wellhead system once 1st intermediate string is run and cemented.

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8" or 9-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

Example:

Assuming DV tool is set at 1500' MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1:

Lead	695	1.78	13.5	Class C + Bentonite + 2% CaCL ₂ + 3% NaCl + LCM
Tail	288	1.35	14.4	Class C + 5% NaCl + LCM
100% excess, TOC = 0' MD				

Stage 2:

Lead	350	1.78	13.5	Class C + Bentonite + 2% CaCL ₂ + 3% NaCl + LCM
100% excess, TOC = 0' MD				

Proposed Mud System:

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	26"	8.40	28	NC	FW Spud Mud
Intermediate 1	17-1/2"	10.00	30-32	NC	Brine Water
Intermediate 2	12-1/4"	8.4-8.6	28-30	NC	FW
Production	8-3/4"	9.50	45-55	<10	OBM

Drilling Operations Plan
Stebbins 19 Fed Com #227H
Matador Resources Company
UL:1, Sec 19, 20S, 29E
Eddy Co., NM

All necessary mud products for weight addition and fluid loss control will be on location at all times.
Mud program subject to change due to hole conditions.

The Mud Monitoring System is an electronic Pason system satisfying requirements of Onshore Order 1

Testing, Logging & Coring Program:

- Mud Logging Program: 2 man unit from 1200 – TD
- Electric Logging Program: No electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate 2 Csg to TD
- No DSTs or cores are planned at this time
- CBL w/ CCL from as far as gravity will let it fall to TOC

Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S safety package on all wells, attached is an "H₂S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used

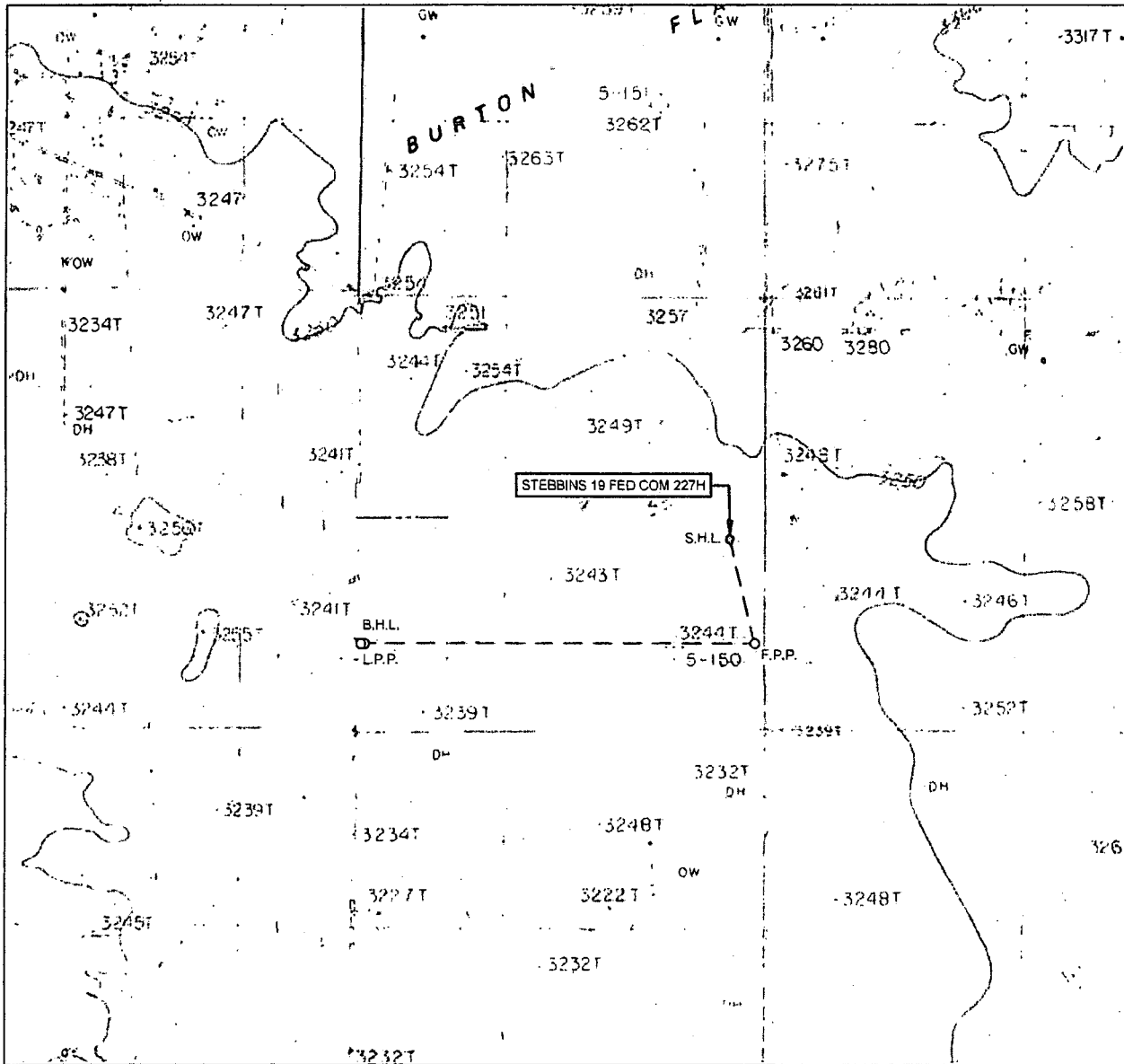
Estimated BHP: 4665

Estimated BHT: 150°

Construction and Drilling:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 35 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: STEBBINS 19 FED COM 227H

SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3247'
 DESCRIPTION 2377' FSL & 410' FEL

LATITUDE N 32.5582551 LONGITUDE W 104.1071143



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

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

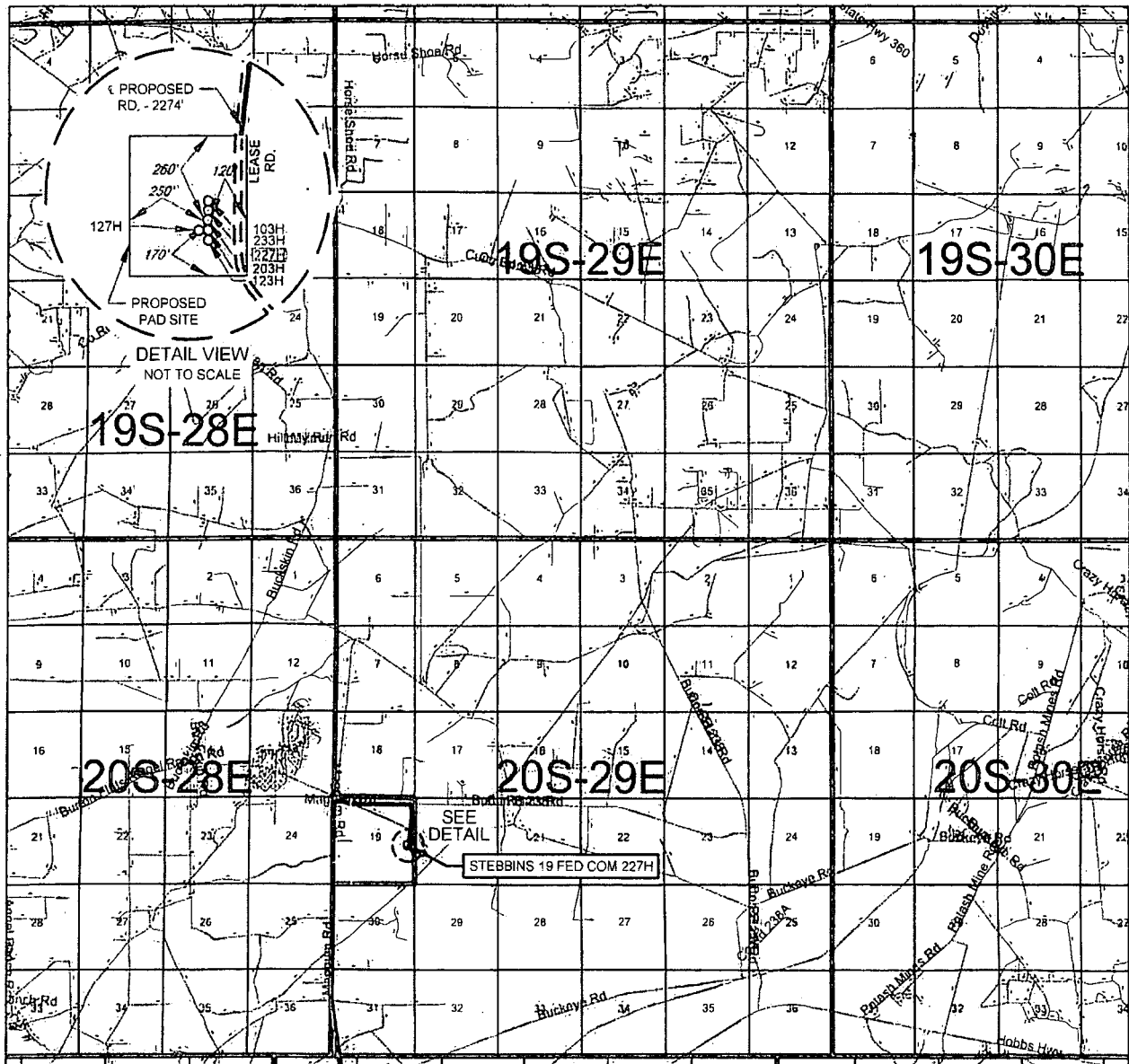
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



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 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX: (432) 682-1743
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VICINITY MAP



LEASE NAME & WELL NO.: STEBBINS 19 FED COM 227H

SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 2377' FSL & 410' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 AND US-180/US-62 E/W GREENE ST. GO EAST ON
 US-180 E/US-62 E/W ±8.3 MILES. THENCE NORTH (LEFT) ON MAGNUM
 RD. ±5.9 MILES, THENCE SOUTHEAST ON BURTON FLATS RD. ±1.0
 MILES, THENCE SOUTH (RIGHT) ON A PROPOSED RD. ±2274 FEET TO A
 POINT ±280 FEET NORTH OF THE LOCATION

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



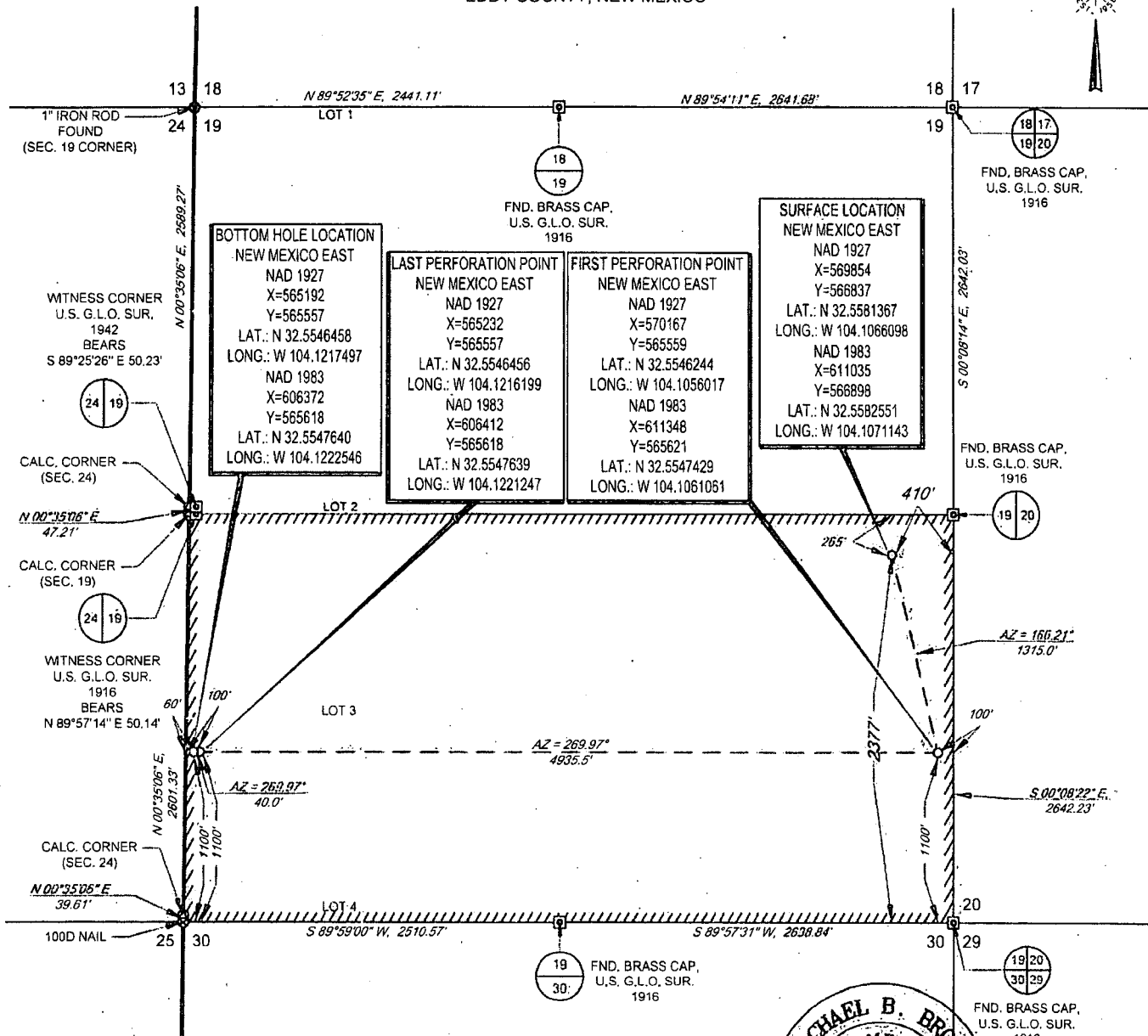
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SCALE: 1" = 1000'
0' 500' 1000'



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



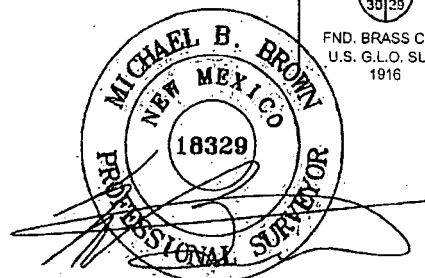
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COUNTY EDDY STATE NM
DESCRIPTION 2377' FSL & 410' FEL

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THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY
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THIS TRANSACTION ONLY.

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



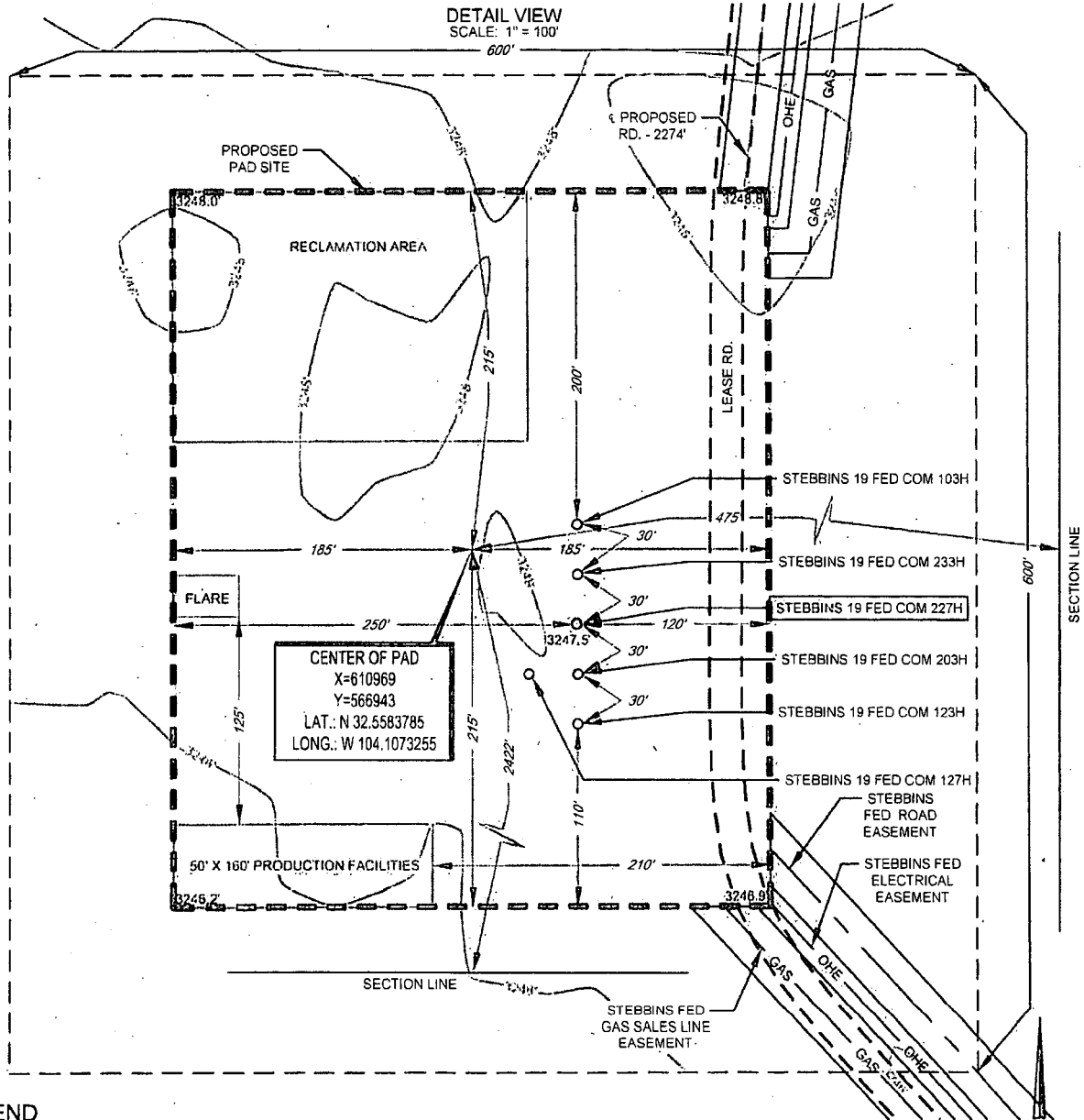
Michael Blake Brown, P.S. No. 18329
FEBRUARY 08, 2019

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



LEGEND

- PROPOSED SITE
- ARCH SURVEY
- ROAD WAY
- GAS --- PROPOSED GAS LINE
- OHE --- PROPOSED OVERHEAD ELECTRIC
- PROPOSED ROAD
- EXISTING PIPELINE

LEASE NAME & WELL NO.: STEBBINS 19 FED COM 227H
227H LATITUDE N 32.5582551 227H LONGITUDE W 104.1071143

CENTER OF PAD IS 2422' FSL & 475' FEL

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

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

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER
MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY,
AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND
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ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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SCALE: 1" = 300'

0' 150' 300'

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



500' OFFSET AREA

STEBBINS FED
ROAD EASEMENT
STEBBINS FED
ELECTRICAL EASEMENT
STEBBINS FED
GAS SALES LINE EASEMENT

3248.8'

3248.0'

PROPOSED
3.65 ACRE
SURFACE PAD
SITE

FND. BRASS CAP
U.S. G.L.O. SUR.
1916

STEBBINS FED COM 19 103H
STEBBINS FED COM 19 233H
STEBBINS FED COM 19 227H
STEBBINS FED COM 19 127H
STEBBINS FED COM 19 203H
STEBBINS FED COM 19 123H

LEASE RD.

3246.9'

3246.2'

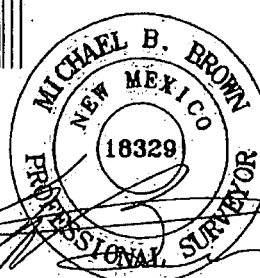
STEBBINS FED
ROAD EASEMENT
STEBBINS FED
ELECTRICAL EASEMENT
STEBBINS FED
GAS SALES LINE EASEMENT

PROPOSED
3.65 ACRE
SURFACE PAD
SITE

STEBBINS 20 FED 203H
STEBBINS 20 FED 133H
STEBBINS 20 FED 123H
STEBBINS 20 FED 113H

LEGEND

- PROPOSED SITE
- SURVEY/SECTION LINE
- == ROAD WAY
- GAS PROPOSED GAS LINE
- OHE PROPOSED OVERHEAD ELECTRIC
- PROPOSED ROAD
- EXISTING PIPELINE
- ⊠ MONUMENT
- ⊙ IRON ROD SET



Michael Blake Brown, P.S. No. 18329
FEBRUARY 8, 2019



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STEBBINS 19 FED
COM 227H
PROXIMITY

REVISION:

INT DATE

DATE: 02/08/19

FILE: LO_STEBBINS_19_FED_COM_227H

DRAWN BY: AMD

SHEET: 7 OF 7

NOTES:

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