

V09.04.02

Company:	Matador Production Company
Well Name:	Tom Matthews 10 24S 28E RB 203H
Location:	Eddy County, NM
Rig:	Patterson #810
Job Number:	DDMO-180107
API #:	30-015-44561

Magnetic Declination: 7.07 REFERENCED TO GRID NORTH

Vertical Section Azimuth: 89.79 Proposed Direction: 89.79

Survey Calculation Method: Minimum Curvature

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	14,387	89.7	90.7	9640.65	301.63	5432.02	5433.09

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
TIE IN	0	0.00	0.00	0.00	0.00	0.00			0.00		
1	179	1.30	201.70	178.98	-1.89	-0.75	-0.76	2.03	201.70	0.73	0.73
2	361	1.20	212.40	360.94	-5.41	-2.54	-2.56	5.98	205.09	0.14	-0.05
3	533	0.60	217.50	532.92	-7.65	-4.05	-4.08	8.65	207.89	0.35	-0.35
4	699	0.20	239.50	698.92	-8.49	-4.83	-4.86	9.76	209.63	0.25	-0.24
5	885	0.30	177.80	884.91	-9.14	-5.09	-5.12	10.46	209.11	0.15	0.05
6	1,076	0.10	110.10	1075.91	-9.69	-4.91	-4.95	10.87	206.87	0.15	-0.10
7	1,171	1.50	43.50	1170.90	-8.82	-3.98	-4.01	9.68	204.28	1.54	1.47
8	1,266	2.70	42.60	1265.84	-6.27	-1.61	-1.63	6.47	194.38	1.26	1.26
9	1,361	1.70	38.20	1360.76	-3.52	0.78	0.76	3.60	167.53	1.07	-1.05
10	1,456	2.30	34.10	1455.71	-0.83	2.72	2.71	2.84	107.00	0.65	0.63
11	1,551	3.80	34.90	1550.57	3.33	5.59	5.60	6.50	59.21	1.58	1.58
12	1,647	4.10	35.00	1646.34	8.75	9.38	9.41	12.82	46.98	0.31	0.31
13	1,742	3.40	33.10	1741.14	13.89	12.86	12.91	18.93	42.80	0.75	-0.74
14	1,837	3.90	51.60	1835.95	18.26	16.93	17.00	24.90	42.84	1.34	0.53
15	1,932	4.60	66.40	1930.69	21.79	22.96	23.04	31.65	46.49	1.36	0.74
16	2,027	4.00	69.60	2025.42	24.47	29.55	29.64	38.37	50.37	0.68	-0.63
17	2,123	4.00	76.10	2121.19	26.44	35.94	36.04	44.62	53.66	0.47	0.00
18	2,218	4.50	80.40	2215.93	27.86	42.83	42.93	51.10	56.96	0.62	0.53
19	2,312	5.50	72.20	2309.57	29.85	50.76	50.87	58.89	59.54	1.31	1.06
20	2,408	5.50	58.70	2405.13	33.65	59.07	59.19	67.98	60.33	1.34	0.00
21	2,503	5.80	39.20	2499.68	39.73	65.99	66.14	77.03	58.95	2.04	0.32
22	2,598	6.10	29.80	2594.17	47.83	71.54	71.71	86.06	56.23	1.07	0.32
23	2,669	6.00	31.20	2664.77	54.28	75.33	75.53	92.85	54.23	0.25	-0.14
24	2,790	6.00	32.30	2785.11	65.04	81.99	82.23	104.65	51.58	0.10	0.00
25	2,981	5.60	33.20	2975.13	81.27	92.43	92.72	123.08	48.67	0.21	-0.21
26	3,170	7.50	44.10	3162.90	97.85	106.06	106.42	144.30	47.31	1.20	1.01
27	3,360	7.30	45.00	3351.31	115.29	123.23	123.65	168.75	46.91	0.12	-0.11
28	3,551	8.30	40.30	3540.55	134.38	140.72	141.22	194.58	46.32	0.62	0.52
29	3,741	8.10	40.00	3728.60	155.10	158.20	158.77	221.54	45.57	0.11	-0.11
30	3,932	7.90	39.80	3917.74	175.49	175.25	175.89	248.01	44.96	0.11	-0.10
31	4,122	7.20	38.60	4106.10	194.83	191.04	191.75	272.86	44.44	0.38	-0.37
32	4,313	8.80	41.50	4295.23	215.13	208.19	208.97	299.37	44.06	0.86	0.84
33	4,503	8.60	42.00	4483.05	236.57	227.32	228.19	328.08	43.86	0.11	-0.11

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Job Number:		DDMO-180107									
API #:		30-015-44561									
Vertical Section Azimuth:				89.79		Proposed Direction:		89.79			
Survey Calculation Method:				Minimum Curvature							
PTB:	MD	INC	AZM	TVD	N/S	E/W	VS				
	14,387	89.7	90.7	9640.65	301.63	5432.02	5433.09				
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
34	4,693	7.70	44.20	4671.13	256.25	245.70	246.64	355.01	43.80	0.50	-0.47
35	4,884	6.30	43.90	4860.70	272.98	261.89	262.89	378.29	43.81	0.73	-0.73
36	5,074	4.80	40.60	5049.80	286.52	274.29	275.34	396.65	43.75	0.81	-0.79
37	5,264	4.10	39.30	5239.23	297.82	283.77	284.86	411.36	43.62	0.37	-0.37
38	5,454	3.20	37.70	5428.84	307.27	291.31	292.44	423.41	43.47	0.48	-0.47
39	5,644	2.50	18.40	5618.61	315.40	295.86	297.02	432.45	43.17	0.62	-0.37
40	5,834	1.80	20.30	5808.47	322.13	298.21	299.39	438.97	42.79	0.37	-0.37
41	6,025	0.30	29.70	5999.44	325.37	299.50	300.69	442.23	42.63	0.79	-0.79
42	6,215	0.20	188.70	6189.44	325.48	299.69	300.88	442.44	42.64	0.26	-0.05
43	6,405	2.00	157.10	6379.39	322.10	300.93	302.11	440.80	43.05	0.96	0.95
44	6,596	0.80	176.00	6570.33	317.70	302.32	303.48	438.55	43.58	0.66	-0.63
45	6,786	2.40	184.00	6760.25	312.40	302.14	303.28	434.61	44.04	0.85	0.84
46	6,977	1.00	174.90	6951.17	306.75	302.01	303.13	430.47	44.55	0.74	-0.73
47	7,167	1.30	181.70	7141.13	302.95	302.09	303.20	427.83	44.92	0.17	0.16
48	7,357	0.50	325.40	7331.11	301.48	301.55	302.66	426.41	45.01	0.91	-0.42
49	7,547	0.80	281.60	7521.10	302.43	299.78	300.89	425.83	44.75	0.29	0.16
50	7,738	1.70	153.20	7712.08	300.16	299.76	300.85	424.21	44.96	1.20	0.47
51	7,928	1.50	352.70	7902.05	300.12	300.71	301.81	424.85	45.06	1.66	-0.11
52	8,119	1.80	353.30	8092.97	305.57	300.04	301.16	428.25	44.48	0.16	0.16
53	8,309	1.60	337.90	8282.89	311.00	298.70	299.84	431.21	43.84	0.26	-0.11
54	8,499	1.20	341.70	8472.83	315.34	297.07	298.23	433.24	43.29	0.22	-0.21
55	8,689	0.50	174.20	8662.82	316.41	296.53	297.69	433.64	43.14	0.89	-0.37
56	8,866	1.10	192.30	8839.80	313.98	296.25	297.40	431.68	43.34	0.36	0.34
57	8,983	4.30	100.60	8956.69	312.07	300.32	301.47	433.11	43.90	3.82	2.74
58	9,031	11.30	95.80	9004.21	311.27	306.78	307.92	437.04	44.58	14.63	14.58
59	9,078	15.10	92.10	9049.96	310.58	317.48	318.62	444.13	45.63	8.28	8.09
60	9,127	19.70	83.20	9096.72	311.32	332.07	333.21	455.18	46.85	10.82	9.39
61	9,174	26.80	85.10	9139.87	313.17	350.52	351.66	470.04	48.22	15.19	15.11
62	9,222	31.20	89.80	9181.85	314.13	373.75	374.90	488.23	49.95	10.32	9.17
63	9,269	36.00	94.40	9220.99	313.12	399.71	400.86	507.75	51.93	11.55	10.21
64	9,317	41.00	94.40	9258.55	310.82	429.50	430.63	530.17	54.11	10.42	10.42
65	9,364	46.50	91.50	9292.49	309.19	461.94	463.07	555.87	56.20	12.45	11.70
66	9,412	51.90	88.40	9323.84	309.27	498.25	499.38	586.43	58.17	12.26	11.25
67	9,459	55.30	88.40	9351.73	310.32	536.06	537.19	619.40	59.93	7.23	7.23

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#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'		
68	9,508	59.50	90.00	9378.13	310.88	577.32	578.46	655.71	61.70	9.00	8.57		
69	9,555	64.00	89.40	9400.37	311.11	618.72	619.85	692.53	63.31	9.64	9.57		
70	9,603	68.70	90.00	9419.62	311.33	662.67	663.81	732.16	64.84	9.86	9.79		
71	9,650	71.50	89.10	9435.61	311.68	706.86	708.00	772.52	66.21	6.22	5.96		
72	9,664	72.70	88.70	9439.92	311.94	720.18	721.32	784.83	66.58	8.99	8.57		
73	9,675	73.50	89.20	9443.11	312.13	730.70	731.84	794.57	66.87	8.47	7.27		
74	9,769	80.30	89.30	9464.41	313.33	822.19	823.34	879.87	69.14	7.23	7.23		
75	9,863	81.40	87.90	9479.35	315.60	914.96	916.12	967.86	70.97	1.88	1.17		
76	9,958	84.70	86.90	9490.85	319.88	1009.16	1010.32	1058.64	72.41	3.63	3.47		
77	10,052	87.50	87.10	9497.24	324.78	1102.80	1103.98	1149.63	73.59	2.99	2.98		
78	10,147	87.30	86.60	9501.55	330.00	1197.56	1198.76	1242.19	74.59	0.57	-0.21		
79	10,241	87.70	86.80	9505.65	335.40	1291.31	1292.53	1334.16	75.44	0.48	0.43		
80	10,335	90.40	87.80	9507.21	339.83	1385.19	1386.42	1426.26	76.22	3.06	2.87		
81	10,429	89.50	88.40	9507.29	342.95	1479.13	1480.38	1518.37	76.95	1.15	-0.96		
82	10,523	88.20	88.50	9509.18	345.49	1573.08	1574.33	1610.57	77.61	1.39	-1.38		
83	10,617	86.50	88.30	9513.52	348.11	1666.94	1668.20	1702.90	78.20	1.82	-1.81		
84	10,711	87.20	88.50	9518.69	350.73	1760.76	1762.03	1795.35	78.73	0.77	0.74		
85	10,805	87.60	89.20	9522.95	352.62	1854.64	1855.92	1887.86	79.24	0.86	0.43		
86	10,899	86.70	91.20	9527.63	352.29	1948.52	1949.80	1980.11	79.75	2.33	-0.96		
87	10,993	89.00	92.10	9531.15	349.58	2042.41	2043.67	2072.11	80.29	2.63	2.45		
88	11,087	87.50	91.70	9534.02	346.47	2136.31	2137.56	2164.22	80.79	1.65	-1.60		
89	11,181	90.20	92.90	9535.91	342.70	2230.20	2231.44	2256.38	81.26	3.14	2.87		
90	11,276	89.00	92.60	9536.57	338.14	2325.09	2326.31	2349.55	81.73	1.30	-1.26		
91	11,370	87.30	91.40	9539.61	334.86	2418.98	2420.19	2442.05	82.12	2.21	-1.81		
92	11,464	88.40	92.30	9543.13	331.83	2512.86	2514.06	2534.67	82.48	1.51	1.17		
93	11,558	86.90	91.50	9546.99	328.71	2606.73	2607.91	2627.37	82.81	1.81	-1.60		
94	11,652	87.20	90.80	9551.83	326.83	2700.58	2701.76	2720.29	83.10	0.81	0.32		
95	11,746	87.30	89.80	9556.34	326.34	2794.47	2795.65	2813.46	83.34	1.07	0.11		
96	11,840	87.90	90.00	9560.27	326.50	2888.39	2889.57	2906.78	83.55	0.67	0.64		
97	11,934	87.00	87.10	9564.46	328.88	2982.25	2983.44	3000.33	83.71	3.23	-0.96		
98	12,029	86.40	86.60	9569.92	334.09	3076.95	3078.16	3095.04	83.80	0.82	-0.63		
99	12,123	86.10	86.60	9576.07	339.65	3170.59	3171.81	3188.73	83.89	0.32	-0.32		
100	12,217	86.50	86.80	9582.14	345.05	3264.23	3265.48	3282.42	83.97	0.48	0.43		
101	12,311	86.50	87.80	9587.88	349.47	3357.95	3359.21	3376.09	84.06	1.06	0.00		

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#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
102	12,405	89.10	90.80	9591.49	350.62	3451.86	3453.12	3469.62	84.20	4.22	2.77
103	12,500	88.30	91.20	9593.64	348.96	3546.82	3548.07	3563.94	84.38	0.94	-0.84
104	12,594	89.50	92.10	9595.45	346.25	3640.76	3642.00	3657.19	84.57	1.60	1.28
105	12,688	87.80	91.30	9597.66	343.46	3734.69	3735.92	3750.45	84.75	2.00	-1.81
106	12,782	87.50	92.10	9601.51	340.68	3828.57	3829.79	3843.69	84.92	0.91	-0.32
107	12,876	88.00	92.30	9605.21	337.07	3922.42	3923.63	3936.88	85.09	0.57	0.53
108	12,970	87.20	92.70	9609.14	332.98	4016.25	4017.44	4030.03	85.26	0.95	-0.85
109	13,063	91.30	94.30	9610.36	327.30	4109.05	4110.22	4122.06	85.45	4.73	4.41
110	13,158	87.10	91.30	9611.69	322.66	4203.89	4205.05	4216.26	85.61	5.43	-4.42
111	13,252	89.30	92.90	9614.64	319.22	4297.77	4298.92	4309.61	85.75	2.89	2.34
112	13,346	86.80	91.30	9617.84	315.77	4391.65	4392.77	4402.98	85.89	3.16	-2.66
113	13,440	87.70	91.00	9622.35	313.89	4485.52	4486.64	4496.49	86.00	1.01	0.96
114	13,535	89.00	91.50	9625.08	311.82	4580.45	4581.57	4591.05	86.11	1.47	1.37
115	13,629	89.00	91.90	9626.72	309.03	4674.40	4675.50	4684.60	86.22	0.43	0.00
116	13,723	88.20	90.90	9629.02	306.73	4768.34	4769.43	4778.20	86.32	1.36	-0.85
117	13,817	91.50	92.10	9629.26	304.27	4862.29	4863.37	4871.80	86.42	3.74	3.51
118	13,911	88.30	90.40	9629.43	302.22	4956.25	4957.33	4965.46	86.51	3.85	-3.40
119	14,004	89.30	90.70	9631.38	301.33	5049.23	5050.30	5058.21	86.58	1.12	1.08
120	14,098	89.50	90.00	9632.36	300.76	5143.22	5144.29	5152.01	86.65	0.77	0.21
121	14,193	86.20	88.50	9635.92	302.00	5238.13	5239.20	5246.83	86.70	3.82	-3.47
122	14,286	88.90	90.50	9639.90	302.81	5331.03	5332.10	5339.62	86.75	3.61	2.90
123	14,317	89.70	90.70	9640.28	302.48	5362.02	5363.10	5370.55	86.77	2.66	2.58
PTB:	14,387	89.70	90.70	9640.65	301.63	5432.02	5433.09	5440.39	86.82	0.00	0.00