



HOBBS OCD

FEB 06 2018

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Fort Worth, Texas 76140

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www.msenergyservices.com

MS Energy Services Survey Data Certification

30-025-44013

MS Energy Job Number: DDMO-171122
Survey Type: MWD
Operating Company: Matador Production Company
Well Name & Number: Florence State 23 23 34 AR 202H
Location: Lea County, NM
API Number: 30-025-44013
Tie In Depth: Surface
Surveyed Depths: 176' – 16,092' MD
Projected TD Survey: 16,143' MD
Dates Performed: 11/07/2017 – 12/03/2017

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Energy Services.

Digitally signed by:

MWD Surveyor Name:

Tyler Teague

Date:

01-17-2018

Email:

tteague@msenergyservices.com

FEB 06 2018

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Company:	Matador Production Company		
Well Name:	Florence State 23 23 34 AR 202H		
Location:	Lea County, NM		
Rig:	Patterson #810	Magnetic Declination:	6.44
Job Number:	DDMO-171122		
API #:	30-025-44013		
Vertical Section Azimuth:	358.75	Proposed Direction:	358.75
Survey Calculation Method:	Minimum Curvature		

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS				
	16,143	89.2	358.6	11367.59	4851.81	-117.2	4851.81				
#	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	176	0.30	45.70	176.00	0.32	0.33	0.31	0.46	45.70	0.17	0.17
2	330	0.20	50.00	330.00	0.78	0.82	0.76	1.13	46.72	0.07	-0.06
3	511	0.30	206.70	511.00	0.56	0.85	0.54	1.02	56.92	0.27	0.06
4	693	0.50	252.20	692.99	-0.11	-0.12	-0.11	0.16	226.09	0.20	0.11
5	733	0.50	266.00	732.99	-0.18	-0.46	-0.17	0.49	248.72	0.30	0.00
6	880	0.30	224.10	879.99	-0.50	-1.36	-0.47	1.45	249.91	0.23	-0.14
7	975	2.10	204.60	974.96	-2.26	-2.26	-2.21	3.20	225.03	1.92	1.89
8	1,165	2.20	200.30	1164.83	-8.85	-4.98	-8.74	10.15	209.36	0.10	0.05
9	1,260	3.10	210.70	1259.73	-12.77	-6.92	-12.61	14.52	208.47	1.07	0.95
10	1,356	4.70	212.20	1355.50	-18.33	-10.34	-18.10	21.04	209.44	1.67	1.67
11	1,546	5.70	211.20	1544.72	-32.98	-19.38	-32.55	38.25	210.43	0.53	0.53
12	1,641	5.00	208.40	1639.30	-40.66	-23.79	-40.13	47.11	210.33	0.79	-0.74
13	1,737	4.70	207.10	1734.96	-47.84	-27.57	-47.23	55.22	209.96	0.33	-0.31
14	1,832	4.80	210.30	1829.63	-54.74	-31.35	-54.04	63.08	209.80	0.30	0.11
15	1,927	4.10	210.70	1924.35	-61.09	-35.09	-60.31	70.45	209.87	0.74	-0.74
16	2,022	4.10	211.90	2019.10	-66.89	-38.62	-66.04	77.24	210.00	0.09	0.00
17	2,117	4.00	212.40	2113.87	-72.57	-42.19	-71.64	83.95	210.17	0.11	-0.11
18	2,213	3.80	212.00	2209.64	-78.10	-45.67	-77.08	90.47	210.32	0.21	-0.21
19	2,308	4.10	214.60	2304.42	-83.56	-49.27	-82.47	97.01	210.52	0.37	0.32
20	2,403	3.80	207.00	2399.19	-89.17	-52.62	-88.00	103.54	210.55	0.63	-0.32
21	2,498	4.30	211.30	2493.96	-95.01	-55.90	-93.77	110.24	210.47	0.62	0.53
22	2,593	4.40	210.80	2588.68	-101.19	-59.62	-99.86	117.44	210.51	0.11	0.11
23	2,688	4.50	211.40	2683.40	-107.50	-63.43	-106.09	124.81	210.54	0.12	0.11
24	2,783	4.60	208.50	2778.10	-114.03	-67.19	-112.53	132.35	210.51	0.26	0.11
25	2,878	4.80	205.50	2872.78	-120.96	-70.71	-119.39	140.12	210.31	0.33	0.21
26	2,974	3.30	190.40	2968.54	-127.31	-72.94	-125.68	146.72	209.81	1.90	-1.56
27	3,069	3.30	174.00	3063.38	-132.71	-73.15	-131.09	151.54	208.86	0.99	0.00
28	3,164	2.40	155.30	3158.27	-137.24	-72.03	-135.64	155.00	207.69	1.35	-0.95
29	3,259	2.50	142.70	3253.18	-140.70	-69.95	-139.14	157.12	206.43	0.58	0.11
30	3,355	1.70	128.40	3349.11	-143.25	-67.56	-141.74	158.38	205.25	0.99	-0.83
31	3,450	2.30	90.70	3444.06	-144.14	-64.55	-142.70	157.94	204.12	1.49	0.63
32	3,546	2.70	80.40	3539.97	-143.79	-60.40	-142.44	155.96	202.78	0.63	0.42
33	3,640	0.60	38.40	3633.93	-143.04	-57.91	-141.74	154.31	202.04	2.44	-2.23

09.04.02

Company:		Matador Production Company												
Well Name:		Florence State 23 23 34 AR 202H												
Location:		Lea County, NM												
Rig:		Patterson #810				Magnetic Declination:		6.44		REFERENCED TO GRID NORTH				
Job Number:		DDMO-171122												
API #:		30-025-44013												
Vertical Section Azimuth:			358.75		Proposed Direction:		358.75							
Survey Calculation Method:			Minimum Curvature											
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	16,143		89.2		358.6		11367.59		4851.81		-117.2		4851.81	
#	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	3,736	0.80	300.90	3729.92	-142.30	-58.17	-141.00	153.73	202.23	1.10	0.21			
35	3,831	0.50	319.30	3824.92	-141.64	-59.01	-140.32	153.44	202.62	0.38	-0.32			
36	3,926	0.50	314.20	3919.91	-141.04	-59.58	-139.71	153.11	202.90	0.05	0.00			
37	4,021	0.70	357.20	4014.91	-140.17	-59.90	-138.83	152.43	203.14	0.50	0.21			
38	4,116	0.80	11.00	4109.90	-138.94	-59.80	-137.60	151.26	203.29	0.22	0.11			
39	4,211	0.90	27.30	4204.89	-137.63	-59.34	-136.30	149.87	203.32	0.27	0.11			
40	4,306	1.00	39.80	4299.88	-136.33	-58.46	-135.02	148.33	203.21	0.24	0.11			
41	4,401	1.00	65.30	4394.86	-135.34	-57.18	-134.06	146.93	202.90	0.46	0.00			
42	4,496	0.80	66.60	4489.85	-134.73	-55.82	-133.48	145.84	202.50	0.21	-0.21			
43	4,591	1.30	85.80	4584.83	-134.39	-54.13	-133.18	144.88	201.94	0.64	0.53			
44	4,686	1.70	85.90	4679.80	-134.21	-51.65	-133.05	143.81	201.05	0.42	0.42			
45	4,781	0.60	70.20	4774.78	-133.94	-49.78	-132.82	142.89	200.39	1.19	-1.16			
46	4,876	0.40	42.90	4869.78	-133.53	-49.09	-132.43	142.27	200.18	0.32	-0.21			
47	4,970	0.60	30.20	4963.77	-132.87	-48.61	-131.77	141.48	200.10	0.24	0.21			
48	5,059	0.50	44.10	5052.77	-132.18	-48.11	-131.10	140.67	200.00	0.19	-0.11			
49	5,163	0.40	23.90	5156.77	-131.53	-47.65	-130.46	139.89	199.91	0.18	-0.10			
50	5,257	0.30	48.80	5250.77	-131.06	-47.33	-130.00	139.35	199.86	0.19	-0.11			
51	5,352	0.30	51.40	5345.76	-130.74	-46.95	-129.69	138.92	199.75	0.01	0.00			
52	5,448	0.40	48.00	5441.76	-130.36	-46.50	-129.32	138.41	199.63	0.11	0.10			
53	5,543	0.30	49.30	5536.76	-129.98	-46.07	-128.94	137.90	199.52	0.11	-0.11			
54	5,638	0.30	45.00	5631.76	-129.64	-45.70	-128.61	137.46	199.42	0.02	0.00			
55	5,733	0.30	21.20	5726.76	-129.23	-45.44	-128.21	136.99	199.37	0.13	0.00			
56	5,829	0.20	85.10	5822.76	-128.99	-45.18	-127.97	136.67	199.30	0.29	-0.10			
57	5,923	0.40	99.40	5916.76	-129.02	-44.69	-128.02	136.55	199.11	0.23	0.21			
58	6,018	0.50	103.20	6011.75	-129.17	-43.96	-128.18	136.45	198.79	0.11	0.11			
59	6,113	0.40	97.10	6106.75	-129.31	-43.23	-128.34	136.34	198.48	0.12	-0.11			
60	6,208	0.40	95.70	6201.75	-129.38	-42.57	-128.42	136.21	198.21	0.01	0.00			
61	6,303	0.50	95.00	6296.75	-129.45	-41.83	-128.51	136.04	197.91	0.11	0.11			
62	6,398	0.40	87.00	6391.74	-129.47	-41.08	-128.54	135.83	197.60	0.12	-0.11			
63	6,493	0.40	84.50	6486.74	-129.42	-40.42	-128.51	135.59	197.34	0.02	0.00			
64	6,589	0.40	75.30	6582.74	-129.30	-39.76	-128.41	135.28	197.09	0.07	0.00			
65	6,682	0.40	60.70	6675.74	-129.06	-39.17	-128.18	134.88	196.88	0.11	0.00			
66	6,778	0.40	68.10	6771.73	-128.77	-38.56	-127.90	134.42	196.67	0.05	0.00			
67	6,873	0.50	73.30	6866.73	-128.53	-37.86	-127.68	133.99	196.41	0.11	0.11			

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Location:		Lea County, NM												
Rig:		Patterson #810				Magnetic Declination:		6.44		REFERENCED TO GRID NORTH 				
Job Number:		DDMO-171122												
API #:		30-025-44013												
Vertical Section Azimuth:				358.75		Proposed Direction:		358.75						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	16,143		89.2		358.6		11367.59		4851.81		-117.2		4851.81	
#	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	6,966	0.40	93.50	6959.73	-128.43	-37.15	-127.59	133.70	196.13	0.20	-0.11			
69	7,061	1.90	234.00	7054.71	-129.38	-38.09	-128.52	134.87	196.40	2.34	1.58			
70	7,156	1.80	240.30	7149.66	-131.05	-40.66	-130.13	137.21	197.24	0.24	-0.11			
71	7,251	2.10	238.20	7244.61	-132.70	-43.43	-131.72	139.63	198.12	0.32	0.32			
72	7,346	0.50	295.30	7339.58	-133.44	-45.29	-132.42	140.92	198.75	1.97	-1.68			
73	7,441	0.30	280.00	7434.58	-133.22	-45.91	-132.19	140.91	199.01	0.24	-0.21			
74	7,537	0.70	262.80	7530.58	-133.25	-46.74	-132.20	141.21	199.33	0.44	0.42			
75	7,632	0.80	268.30	7625.57	-133.34	-47.98	-132.27	141.71	199.79	0.13	0.11			
76	7,727	0.80	269.10	7720.56	-133.37	-49.30	-132.27	142.20	200.29	0.01	0.00			
77	7,822	1.00	267.30	7815.55	-133.42	-50.79	-132.28	142.77	200.84	0.21	0.21			
78	7,917	1.10	269.00	7910.53	-133.48	-52.53	-132.30	143.44	201.48	0.11	0.11			
79	8,012	1.10	266.50	8005.51	-133.55	-54.36	-132.33	144.19	202.15	0.05	0.00			
80	8,108	1.00	271.90	8101.50	-133.58	-56.11	-132.32	144.89	202.79	0.15	-0.10			
81	8,201	0.90	273.90	8194.48	-133.50	-57.65	-132.21	145.42	203.36	0.11	-0.11			
82	8,296	1.00	276.80	8289.47	-133.35	-59.22	-132.03	145.91	203.95	0.12	0.11			
83	8,391	1.10	281.50	8384.46	-133.07	-60.94	-131.71	146.36	204.60	0.14	0.11			
84	8,486	0.40	302.20	8479.45	-132.72	-62.11	-131.33	146.53	205.08	0.78	-0.74			
85	8,581	0.50	309.20	8574.44	-132.28	-62.71	-130.88	146.39	205.37	0.12	0.11			
86	8,676	0.60	291.30	8669.44	-131.83	-63.50	-130.42	146.33	205.72	0.21	0.11			
87	8,771	0.70	277.80	8764.43	-131.57	-64.54	-130.14	146.55	206.13	0.19	0.11			
88	8,867	1.00	300.30	8860.42	-131.07	-65.84	-129.60	146.68	206.67	0.46	0.31			
89	8,962	0.40	318.80	8955.42	-130.40	-66.77	-128.92	146.51	207.11	0.67	-0.63			
90	9,057	0.80	336.00	9050.41	-129.55	-67.26	-128.05	145.97	207.44	0.46	0.42			
91	9,152	1.00	326.90	9145.40	-128.25	-67.98	-126.73	145.15	207.93	0.26	0.21			
92	9,247	0.70	217.50	9240.39	-128.01	-68.79	-126.48	145.33	208.25	1.47	-0.32			
93	9,342	1.50	221.80	9335.37	-129.40	-69.97	-127.84	147.11	208.40	0.85	0.84			
94	9,437	1.80	211.50	9430.33	-131.60	-71.58	-130.01	149.81	208.54	0.44	0.32			
95	9,532	1.90	197.50	9525.29	-134.38	-72.83	-132.75	152.84	208.46	0.49	0.11			
96	9,627	0.80	176.50	9620.26	-136.54	-73.27	-134.91	154.95	208.22	1.25	-1.16			
97	9,721	1.70	188.70	9714.24	-138.57	-73.44	-136.94	156.83	207.92	0.99	0.96			
98	9,816	2.00	193.20	9809.19	-141.58	-74.03	-139.93	159.77	207.60	0.35	0.32			
99	9,912	1.50	183.80	9905.14	-144.46	-74.50	-142.80	162.54	207.28	0.60	-0.52			
100	10,007	1.40	186.90	10000.11	-146.86	-74.72	-145.19	164.77	206.97	0.13	-0.11			
101	10,102	1.20	158.40	10095.09	-148.93	-74.49	-147.27	166.52	206.57	0.70	-0.21			

09.04.02

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PTB:	MD		INC		AZM	TVD	N/S	E/W		VS	
	16,143		89.2		358.6	11367.59	4851.81	-117.2		4851.81	
#	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	10,197	1.70	140.00	10190.06	-150.94	-73.22	-149.31	167.76	205.88	0.71	0.53
103	10,293	1.80	142.10	10286.01	-153.22	-71.38	-151.63	169.03	204.98	0.12	0.10
104	10,388	1.60	140.60	10380.97	-155.42	-69.62	-153.87	170.30	204.13	0.22	-0.21
105	10,483	1.50	66.60	10475.94	-155.95	-67.64	-154.44	169.99	203.45	1.97	-0.11
106	10,578	1.30	72.90	10570.92	-155.14	-65.46	-153.68	168.39	202.88	0.27	-0.21
107	10,674	0.60	71.70	10666.90	-154.66	-63.95	-153.23	167.36	202.46	0.73	-0.73
108	10,769	0.60	333.00	10761.90	-154.06	-63.70	-152.64	166.71	202.46	0.96	0.00
109	10,863	7.90	3.70	10855.58	-147.17	-63.51	-145.75	160.29	203.34	7.86	7.77
110	10,912	15.10	1.90	10903.56	-137.42	-63.08	-136.01	151.20	204.66	14.71	14.69
111	10,959	19.00	359.50	10948.49	-123.64	-62.94	-122.24	138.74	206.98	8.43	8.30
112	11,007	24.20	357.60	10993.11	-105.99	-63.42	-104.58	123.51	210.90	10.93	10.83
113	11,054	27.90	2.00	11035.33	-85.36	-63.44	-83.96	106.36	216.62	8.88	7.87
114	11,102	29.30	4.80	11077.47	-62.43	-62.07	-61.07	88.04	224.83	4.04	2.92
115	11,149	34.50	5.10	11117.36	-37.70	-59.92	-36.38	70.79	237.82	11.07	11.06
116	11,197	40.20	5.00	11155.50	-8.70	-57.36	-7.45	58.01	261.37	11.88	11.88
117	11,244	44.50	4.60	11190.23	22.84	-54.71	24.03	59.29	292.66	9.17	9.15
118	11,293	47.60	1.90	11224.23	58.05	-52.74	59.19	78.43	317.75	7.47	6.33
119	11,339	50.20	1.20	11254.47	92.70	-51.80	93.81	106.19	330.80	5.77	5.65
120	11,387	54.10	1.80	11283.92	130.58	-50.81	131.66	140.12	338.74	8.18	8.13
121	11,434	59.90	2.00	11309.51	169.96	-49.50	171.00	177.02	343.76	12.35	12.34
122	11,482	63.90	1.30	11332.11	212.27	-48.28	213.28	217.70	347.19	8.43	8.33
123	11,529	67.30	2.00	11351.52	255.05	-47.05	256.02	259.36	349.55	7.36	7.23
124	11,577	67.50	2.10	11369.97	299.34	-45.46	300.26	302.77	351.36	0.46	0.42
125	11,625	70.40	1.50	11387.21	344.11	-44.06	344.99	346.92	352.70	6.15	6.04
126	11,732	79.80	1.30	11414.69	447.36	-41.54	448.16	449.29	354.70	8.79	8.79
127	11,826	79.40	0.10	11431.66	539.81	-40.41	540.56	541.32	355.72	1.33	-0.43
128	11,920	86.20	358.40	11443.44	633.00	-41.64	633.76	634.37	356.24	7.45	7.23
129	12,014	89.10	358.10	11447.29	726.87	-44.51	727.67	728.23	356.50	3.10	3.09
130	12,109	90.60	357.60	11447.54	821.80	-48.07	822.65	823.20	356.65	1.66	1.58
131	12,203	91.10	358.20	11446.14	915.73	-51.51	916.63	917.17	356.78	0.83	0.53
132	12,297	88.30	357.40	11446.64	1009.64	-55.12	1010.61	1011.15	356.88	3.10	-2.98
133	12,391	88.30	358.40	11449.42	1103.54	-58.57	1104.55	1105.09	356.96	1.06	0.00
134	12,486	89.70	359.50	11451.08	1198.50	-60.31	1199.54	1200.02	357.12	1.87	1.47
135	12,580	91.80	1.10	11449.85	1292.49	-59.81	1293.48	1293.87	357.35	2.81	2.23

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Company:		Matador Production Company										
Well Name:		Florence State 23 23 34 AR 202H										
Location:		Lea County, NM										
Rig:		Patterson #810					Magnetic Declination:		6.44		REFERENCED TO GRID NORTH	
Job Number:		DDMO-171122										
API #:		30-025-44013										
Vertical Section Azimuth:				358.75		Proposed Direction:		358.75				
Survey Calculation Method:				Minimum Curvature								
PTB:	MD		INC		AZM		TVD	N/S	E/W		VS	
	16,143		89.2		358.6		11367.59	4851.81	-117.2		4851.81	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'	
136	12,674	91.80	1.30	11446.90	1386.42	-57.85	1387.35	1387.63	357.61	0.21	0.00	
137	12,767	91.10	1.20	11444.55	1479.37	-55.82	1480.23	1480.42	357.84	0.76	-0.75	
138	12,862	89.80	0.30	11443.80	1574.35	-54.57	1575.17	1575.30	358.01	1.66	-1.37	
139	12,956	88.00	358.30	11445.60	1668.32	-55.72	1669.14	1669.25	358.09	2.86	-1.91	
140	13,050	88.70	358.40	11448.31	1762.24	-58.43	1763.10	1763.21	358.10	0.75	0.74	
141	13,144	89.60	358.40	11449.71	1856.19	-61.05	1857.08	1857.20	358.12	0.96	0.96	
142	13,239	90.50	358.90	11449.62	1951.17	-63.29	1952.08	1952.19	358.14	1.08	0.95	
143	13,333	90.00	358.40	11449.21	2045.14	-65.50	2046.08	2046.19	358.17	0.75	-0.53	
144	13,427	93.80	359.10	11446.10	2139.05	-67.55	2140.01	2140.11	358.19	4.11	4.04	
145	13,522	93.40	359.80	11440.13	2233.85	-68.46	2234.82	2234.90	358.24	0.85	-0.42	
146	13,616	92.10	359.60	11435.62	2327.74	-68.96	2328.69	2328.76	358.30	1.40	-1.38	
147	13,710	92.10	359.80	11432.18	2421.68	-69.45	2422.62	2422.67	358.36	0.21	0.00	
148	13,805	94.10	0.60	11427.04	2516.53	-69.12	2517.44	2517.48	358.43	2.27	2.11	
149	13,899	92.50	359.00	11421.63	2610.37	-69.45	2611.26	2611.29	358.48	2.41	-1.70	
150	13,994	90.80	358.50	11418.89	2705.30	-71.52	2706.22	2706.25	358.49	1.87	-1.79	
151	14,088	90.30	358.30	11417.99	2799.26	-74.14	2800.21	2800.25	358.48	0.57	-0.53	
152	14,182	90.10	358.80	11417.66	2893.23	-76.52	2894.21	2894.24	358.48	0.57	-0.21	
153	14,276	90.60	359.20	11417.09	2987.22	-78.16	2988.21	2988.24	358.50	0.68	0.53	
154	14,370	89.00	358.10	11417.42	3081.18	-80.38	3082.20	3082.23	358.51	2.07	-1.70	
155	14,465	90.10	358.30	11418.16	3176.13	-83.36	3177.20	3177.23	358.50	1.18	1.16	
156	14,558	94.50	358.40	11414.43	3269.00	-86.03	3270.10	3270.13	358.49	4.73	4.73	
157	14,652	98.60	359.10	11403.71	3362.34	-88.07	3363.46	3363.49	358.50	4.42	4.36	
158	14,746	93.60	359.10	11393.73	3455.77	-89.54	3456.90	3456.93	358.52	5.32	-5.32	
159	14,839	94.00	359.60	11387.56	3548.56	-90.59	3549.69	3549.71	358.54	0.69	0.43	
160	14,933	90.00	359.90	11384.28	3642.48	-91.00	3643.60	3643.62	358.57	4.27	-4.26	
161	15,027	91.50	359.90	11383.05	3736.47	-91.17	3737.57	3737.58	358.60	1.60	1.60	
162	15,122	88.20	359.70	11383.30	3831.45	-91.50	3832.54	3832.55	358.63	3.48	-3.47	
163	15,216	90.60	359.30	11384.28	3925.44	-92.32	3926.52	3926.52	358.65	2.59	2.55	
164	15,310	91.20	359.10	11382.81	4019.42	-93.63	4020.50	4020.51	358.67	0.67	0.64	
165	15,403	90.20	359.10	11381.67	4112.40	-95.09	4113.49	4113.50	358.68	1.08	-1.08	
166	15,497	90.60	357.40	11381.02	4206.35	-97.96	4207.48	4207.49	358.67	1.86	0.43	
167	15,592	90.60	357.90	11380.02	4301.26	-101.86	4302.46	4302.47	358.64	0.53	0.00	
168	15,686	92.70	359.10	11377.31	4395.18	-104.32	4396.41	4396.42	358.64	2.57	2.23	
169	15,780	92.10	358.50	11373.38	4489.08	-106.29	4490.33	4490.34	358.64	0.90	-0.64	

Company:	Matador Production Company		
Well Name:	Florence State 23 23 34 AR 202H		
Location:	Lea County, NM		
Rig:	Patterson #810	Magnetic Declination:	6.44
Job Number:	DDMO-171122		
API #:	30-025-44013		
Vertical Section Azimuth:	358.75	Proposed Direction:	358.75
Survey Calculation Method:	Minimum Curvature		

REFERENCED TO GRID NORTH

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS				
	16,143	89.2	358.6	11367.59	4851.81	-117.2	4851.81				
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
170	15,873	91.90	358.10	11370.13	4581.98	-109.04	4583.27	4583.28	358.64	0.48	-0.22
171	15,967	90.90	357.70	11367.84	4675.89	-112.49	4677.23	4677.24	358.62	1.15	-1.06
172	16,061	90.40	358.90	11366.77	4769.84	-115.27	4771.22	4771.23	358.62	1.38	-0.53
173	16,092	89.20	358.60	11366.88	4800.83	-115.95	4802.22	4802.23	358.62	3.99	-3.87
PTB:	16,143	89.20	358.60	11367.59	4851.81	-117.20	4853.21	4853.23	358.62	0.00	0.00