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State of Texas

County of Tarrant

I, TIM LITTLE, certify that; I am employed by MS Energy Services;
that I did on the day(s) of 10/21/16 through 11/20/16 conduct or supervise
the taking of MWD survey(s) from a depth of 199 feet to a depth of 15,543
feet: that the data is true, correct, complete and within the limitations of the tool set forth by MS Energy
Services; that I am authorized and qualified to make this report; that this survey(s) was / were
conducted at the request of MATADOR PRODUCTION COMPANY,
for the ARRIP 31-18-35 RN STATE COM 2014, API No. 30-025-43395
in LEA County Parish, NEW MEXICO; and that I have
reviewed this report and find that it conforms to the principles and procedures as set forth by
MS Energy Services.

Signature: Tim Little

Title: MWD FIELD SPECIALIST

MS Directional

MS Guidance

MS Survey

MS Wireline

Company:		Matador Production Co.												
Well Name:		Airstrip 31-18-35 RN State COM 201H												
Location:		Lea County, NM												
Rig:		Patterson #297						Magnetic Declination:		6.59				
Job Number:		DDMO-160480												
API #:		30-025-43395												
Vertical Section Azimuth:				359.46		Proposed Direction:		359.46						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,597		93.6		359		10876.57		4784.27		301.7		4781.21	
#	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	199	0.50	325.80	199.00	0.72	-0.49	0.72	0.87	325.80	0.25	0.25			
2	394	0.60	301.30	393.99	1.95	-1.84	1.97	2.68	316.72	0.13	0.05			
3	579	0.80	303.70	578.97	3.17	-3.74	3.21	4.90	310.30	0.11	0.11			
4	760	0.60	321.50	759.96	4.61	-5.38	4.67	7.09	310.61	0.16	-0.11			
5	941	0.40	264.70	940.96	5.30	-6.60	5.36	8.46	308.75	0.28	-0.11			
6	1,129	0.50	127.40	1128.95	4.74	-6.60	4.80	8.13	305.67	0.45	0.05			
7	1,316	1.40	119.10	1315.93	3.13	-3.96	3.17	5.05	308.36	0.49	0.48			
8	1,504	2.00	116.20	1503.84	0.57	0.99	0.56	1.14	60.22	0.32	0.32			
9	1,691	2.20	123.60	1690.72	-2.86	6.91	-2.92	7.48	112.48	0.18	0.11			
10	1,856	1.90	137.90	1855.61	-6.64	11.38	-6.75	13.18	120.27	0.36	-0.18			
11	2,064	1.40	152.50	2063.53	-11.45	14.87	-11.59	18.77	127.61	0.31	-0.24			
12	2,251	1.20	146.80	2250.48	-15.12	16.99	-15.28	22.75	131.66	0.13	-0.11			
13	2,438	0.70	137.30	2437.45	-17.60	18.84	-17.77	25.78	133.05	0.28	-0.27			
14	2,626	3.60	89.20	2625.31	-18.36	25.52	-18.60	31.44	125.73	1.69	1.54			
15	2,813	5.30	89.30	2811.74	-18.17	40.03	-18.55	43.96	114.42	0.91	0.91			
16	3,001	5.60	91.00	2998.89	-18.23	57.88	-18.77	60.68	107.48	0.18	0.16			
17	3,188	5.60	92.50	3184.99	-18.78	76.12	-19.50	78.40	103.86	0.08	0.00			
18	3,376	5.20	93.70	3372.16	-19.73	93.79	-20.62	95.84	101.88	0.22	-0.21			
19	3,563	6.50	97.50	3558.18	-21.66	112.74	-22.72	114.80	100.88	0.73	0.70			
20	3,750	5.90	99.70	3744.09	-24.66	132.71	-25.91	134.98	100.53	0.35	-0.32			
21	3,937	6.00	98.30	3930.08	-27.69	151.85	-29.12	154.36	100.34	0.09	0.05			
22	4,061	6.00	99.70	4053.40	-29.72	164.65	-31.27	167.31	100.23	0.12	0.00			
23	4,248	5.90	101.00	4239.39	-33.20	183.72	-34.93	186.70	100.24	0.09	-0.05			
24	4,435	5.30	103.00	4425.50	-36.98	201.57	-38.87	204.93	100.39	0.34	-0.32			
25	4,623	6.60	105.50	4612.48	-41.82	220.44	-43.89	224.37	100.74	0.70	0.69			
26	4,810	6.80	105.20	4798.21	-47.59	241.48	-49.87	246.13	101.15	0.11	0.11			
27	4,997	6.40	103.20	4983.97	-52.87	262.31	-55.34	267.59	101.40	0.25	-0.21			
28	5,185	6.20	101.00	5170.83	-57.20	282.48	-59.86	288.21	101.45	0.17	-0.11			
29	5,372	5.60	115.00	5356.85	-62.99	300.66	-65.82	307.19	101.83	0.83	-0.32			
30	5,559	5.80	114.70	5542.93	-70.79	317.51	-73.78	325.31	102.57	0.11	0.11			
31	5,746	5.90	113.70	5728.95	-78.60	334.90	-81.76	344.00	103.21	0.08	0.05			
32	5,933	6.20	113.50	5914.91	-86.49	352.96	-89.82	363.40	103.77	0.16	0.16			

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Job Number:		DDMO-160480												
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Vertical Section Azimuth:		359.46				Proposed Direction:		359.46						
Survey Calculation Method:		Minimum Curvature												
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,597		93.6		359		10876.57		4784.27		301.7		4781.21	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'			
33	6,121	4.20	113.40	6102.13	-93.28	368.59	-96.75	380.21	104.20	1.06	-1.06			
34	6,308	2.70	100.50	6288.79	-96.80	379.21	-100.37	391.37	104.32	0.90	-0.80			
35	6,494	1.10	111.30	6474.68	-98.25	385.18	-101.87	397.51	104.31	0.88	-0.86			
36	6,681	1.10	116.30	6661.64	-99.69	388.46	-103.35	401.05	104.39	0.05	0.00			
37	6,869	0.90	119.40	6849.61	-101.22	391.36	-104.90	404.24	104.50	0.11	-0.11			
38	7,056	1.30	116.30	7036.58	-102.88	394.54	-106.59	407.74	104.61	0.22	0.21			
39	7,244	1.00	318.60	7224.57	-102.59	395.37	-106.31	408.47	104.55	1.20	-0.16			
40	7,431	1.40	332.80	7411.52	-99.34	393.25	-103.04	405.60	104.18	0.26	0.21			
41	7,618	1.60	346.30	7598.46	-94.77	391.59	-98.45	402.89	103.60	0.22	0.11			
42	7,712	0.30	302.00	7692.45	-93.36	391.07	-97.04	402.06	103.43	1.49	-1.38			
43	7,805	0.20	327.90	7785.45	-93.10	390.77	-96.77	401.71	103.40	0.16	-0.11			
44	7,899	0.30	26.20	7879.45	-92.74	390.80	-96.42	401.65	103.35	0.28	0.11			
45	7,993	0.40	42.80	7973.44	-92.27	391.13	-95.96	401.86	103.27	0.15	0.11			
46	8,086	0.40	53.60	8066.44	-91.84	391.61	-95.53	402.23	103.20	0.08	0.00			
47	8,180	0.60	60.30	8160.44	-91.41	392.30	-95.10	402.81	103.12	0.22	0.21			
48	8,274	0.60	47.70	8254.43	-90.83	393.09	-94.53	403.45	103.01	0.14	0.00			
49	8,367	0.90	39.80	8347.42	-89.94	393.92	-93.65	404.06	102.86	0.34	0.32			
50	8,461	0.90	33.70	8441.41	-88.76	394.80	-92.48	404.66	102.67	0.10	0.00			
51	8,555	1.00	14.80	8535.40	-87.35	395.42	-91.08	404.95	102.46	0.35	0.11			
52	8,648	0.80	14.50	8628.39	-85.94	395.79	-89.67	405.01	102.25	0.22	-0.22			
53	8,742	0.80	10.30	8722.38	-84.66	396.07	-88.39	405.02	102.07	0.06	0.00			
54	8,835	1.10	350.60	8815.37	-83.14	396.04	-86.87	404.67	101.86	0.47	0.32			
55	8,929	1.50	2.10	8909.34	-81.02	395.94	-84.75	404.14	101.56	0.51	0.43			
56	9,023	1.60	2.80	9003.31	-78.48	396.05	-82.21	403.75	101.21	0.11	0.11			
57	9,116	0.30	30.70	9096.29	-76.97	396.24	-80.70	403.64	100.99	1.44	-1.40			
58	9,210	1.00	28.70	9190.29	-76.04	396.76	-79.78	403.98	100.85	0.74	0.74			
59	9,303	1.20	255.10	9283.28	-75.58	396.21	-79.31	403.35	100.80	2.18	0.22			
60	9,397	2.20	259.00	9377.24	-76.18	393.48	-79.88	400.79	100.96	1.07	1.06			
61	9,490	0.70	279.20	9470.21	-76.43	391.17	-80.11	398.57	101.06	1.68	-1.61			
62	9,584	0.20	23.60	9564.20	-76.19	390.67	-79.86	398.03	101.03	0.82	-0.53			
63	9,677	0.30	55.10	9657.20	-75.90	390.93	-79.58	398.23	100.99	0.18	0.11			
64	9,771	0.10	86.70	9751.20	-75.75	391.22	-79.44	398.48	100.96	0.24	-0.21			
65	9,865	0.40	104.30	9845.20	-75.83	391.62	-79.52	398.89	100.96	0.33	0.32			
66	9,959	0.50	116.50	9939.20	-76.09	392.30	-79.79	399.61	100.98	0.15	0.11			

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	15,597		93.6		359		10876.57		4784.27		301.7		4781.21	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
67	10,052	0.30	98.50	10032.20	-76.31	392.91	-80.01	400.25	100.99	0.25	-0.22			
68	10,146	0.50	107.70	10126.19	-76.47	393.54	-80.18	400.90	101.00	0.22	0.21			
69	10,240	0.30	119.70	10220.19	-76.72	394.14	-80.43	401.54	101.01	0.23	-0.21			
70	10,333	0.50	120.00	10313.19	-77.04	394.71	-80.76	402.16	101.04	0.22	0.22			
71	10,425	4.90	352.40	10405.08	-73.34	394.54	-77.06	401.29	100.53	5.67	4.78			
72	10,472	10.30	351.60	10451.65	-67.19	393.66	-70.90	399.35	99.69	11.49	11.49			
73	10,519	15.40	352.30	10497.46	-56.85	392.20	-60.54	396.30	98.25	10.86	10.85			
74	10,565	20.00	352.90	10541.27	-42.98	390.41	-46.66	392.77	96.28	10.01	10.00			
75	10,612	24.60	352.70	10584.74	-25.29	388.17	-28.95	389.00	93.73	9.79	9.79			
76	10,659	29.00	355.30	10626.69	-4.22	386.00	-7.86	386.02	90.63	9.69	9.36			
77	10,706	32.50	359.40	10667.08	19.77	384.93	16.14	385.44	87.06	8.68	7.45			
78	10,752	36.40	0.90	10705.00	45.78	385.02	42.15	387.73	83.22	8.68	8.48			
79	10,799	39.50	1.20	10742.06	74.68	385.55	71.04	392.71	79.04	6.61	6.60			
80	10,846	41.30	2.80	10777.85	105.12	386.62	101.47	400.65	74.79	4.42	3.83			
81	10,893	44.80	359.70	10812.20	137.18	387.29	133.53	410.87	70.50	8.70	7.45			
82	10,939	48.60	358.90	10843.74	170.65	386.87	167.00	422.84	66.20	8.36	8.26			
83	10,986	52.80	359.20	10873.50	207.01	386.27	203.36	438.25	61.81	8.95	8.94			
84	11,033	58.90	358.90	10899.87	245.88	385.63	242.24	457.35	57.48	12.99	12.98			
85	11,080	63.70	359.10	10922.44	287.09	384.91	283.45	480.18	53.28	10.22	10.21			
86	11,127	66.20	1.10	10942.34	329.66	384.99	326.02	506.85	49.43	6.57	5.32			
87	11,174	70.00	1.00	10959.86	373.25	385.79	369.60	536.80	45.95	8.09	8.09			
88	11,220	73.70	1.40	10974.19	416.95	386.71	413.28	568.67	42.84	8.09	8.04			
89	11,267	77.40	1.20	10985.92	462.44	387.74	458.77	603.48	39.98	7.88	7.87			
90	11,335	82.70	1.40	10997.66	529.38	389.26	525.69	657.09	36.33	7.80	7.79			
91	11,429	91.00	4.30	11002.82	623.03	393.93	619.29	737.12	32.30	9.35	8.83			
92	11,523	92.30	1.90	11000.12	716.84	399.01	713.05	820.41	29.10	2.90	1.38			
93	11,618	94.70	2.90	10994.32	811.57	402.98	807.74	906.11	26.41	2.74	2.53			
94	11,712	89.20	1.60	10991.12	905.41	406.66	901.54	992.54	24.19	6.01	-5.85			
95	11,806	89.70	0.10	10992.02	999.39	408.06	995.50	1079.49	22.21	1.68	0.53			
96	11,900	91.20	357.70	10991.28	1093.36	406.25	1089.48	1166.40	20.38	3.01	1.60			
97	11,994	90.50	357.70	10989.89	1187.27	402.48	1183.43	1253.64	18.73	0.74	-0.74			
98	12,089	91.10	357.40	10988.56	1282.18	398.42	1278.37	1342.65	17.26	0.71	0.63			
99	12,183	91.00	357.40	10986.84	1376.06	394.16	1372.29	1431.40	15.98	0.11	-0.11			

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	15,597		93.6		359	10876.57	4784.27	301.7	4781.21		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
100	12,277	92.30	358.60	10984.13	1469.96	390.88	1466.22	1521.05	14.89	1.88	1.38
101	12,371	93.60	0.70	10979.30	1563.83	390.31	1560.08	1611.80	14.01	2.62	1.38
102	12,464	91.10	360.00	10975.48	1656.74	390.87	1652.99	1702.23	13.27	2.79	-2.69
103	12,559	92.90	0.90	10972.17	1751.68	391.62	1747.91	1794.92	12.60	2.12	1.89
104	12,653	91.40	359.20	10968.64	1845.61	391.70	1841.83	1886.71	11.98	2.41	-1.60
105	12,747	90.10	359.10	10967.41	1939.58	390.30	1935.82	1978.47	11.38	1.39	-1.38
106	12,841	90.30	358.80	10967.08	2033.57	388.58	2029.82	2070.36	10.82	0.38	0.21
107	12,935	91.80	358.90	10965.36	2127.53	386.70	2123.79	2162.39	10.30	1.60	1.60
108	13,029	92.20	358.20	10962.08	2221.44	384.32	2217.72	2254.44	9.82	0.86	0.43
109	13,123	93.00	357.90	10957.81	2315.29	381.12	2311.60	2346.45	9.35	0.91	0.85
110	13,217	87.70	357.30	10957.24	2409.17	377.19	2405.51	2438.52	8.90	5.67	-5.64
111	13,311	86.40	357.10	10962.08	2502.93	372.60	2499.31	2530.52	8.47	1.40	-1.38
112	13,405	87.90	357.20	10966.75	2596.70	367.93	2593.12	2622.64	8.06	1.60	1.60
113	13,500	89.40	357.40	10968.99	2691.56	363.46	2688.02	2715.99	7.69	1.59	1.58
114	13,595	93.30	357.90	10966.75	2786.44	359.57	2782.93	2809.54	7.35	4.14	4.11
115	13,688	96.00	357.80	10959.21	2879.06	356.09	2875.58	2901.00	7.05	2.91	2.90
116	13,783	94.30	358.10	10950.69	2973.61	352.71	2970.16	2994.46	6.76	1.82	-1.79
117	13,877	88.00	358.40	10948.80	3067.50	349.84	3064.07	3087.39	6.51	6.71	-6.70
118	13,975	93.40	359.50	10947.60	3165.44	348.04	3162.02	3184.52	6.27	5.62	5.51
119	14,065	94.00	359.00	10941.80	3255.24	346.87	3251.83	3273.67	6.08	0.87	0.67
120	14,160	92.10	357.70	10936.74	3350.06	344.13	3346.67	3367.69	5.87	2.42	-2.00
121	14,254	94.10	358.70	10931.66	3443.87	341.19	3440.51	3460.73	5.66	2.38	2.13
122	14,349	95.60	358.40	10923.63	3538.50	338.79	3535.15	3554.68	5.47	1.61	1.58
123	14,443	93.60	359.20	10916.09	3632.17	336.83	3628.84	3647.76	5.30	2.29	-2.13
124	14,539	93.00	358.70	10910.56	3728.00	335.07	3724.67	3743.02	5.14	0.81	-0.62
125	14,634	92.30	358.20	10906.17	3822.86	332.51	3819.56	3837.29	4.97	0.91	-0.74
126	14,728	91.10	359.00	10903.38	3916.79	330.21	3913.50	3930.68	4.82	1.53	-1.28
127	14,823	90.40	358.40	10902.14	4011.75	328.06	4008.48	4025.14	4.67	0.97	-0.74
128	14,917	90.30	356.60	10901.56	4105.66	323.96	4102.42	4118.42	4.51	1.92	-0.11
129	15,012	88.70	356.40	10902.39	4200.47	318.16	4197.29	4212.51	4.33	1.70	-1.68
130	15,108	91.50	356.30	10902.22	4296.27	312.05	4293.14	4307.59	4.15	2.92	2.92
131	15,202	91.90	356.70	10899.44	4390.05	306.31	4386.97	4400.73	3.99	0.60	0.43
132	15,296	92.40	359.40	10895.91	4483.92	303.11	4480.87	4494.16	3.87	2.92	0.53

Company:		Matador Production Co.									
Well Name:		Airstrip 31-18-35 RN State COM 201H									
Location:		Lea County, NM									
Rig:		Patterson #297					Magnetic Declination:		6.59		
Job Number:		DDMO-160480									
API #:		30-025-43395									
Vertical Section Azimuth:				359.46			Proposed Direction:		359.46		
Survey Calculation Method:				Minimum Curvature							
PTB:	MD	INC	AZM	TVD	N/S	E/W	VS				
	15,597	93.6	359	10876.57	4784.27	301.7	4781.21				
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
133	15,388	93.30	360.00	10891.33	4575.81	302.63	4572.75	4585.80	3.78	1.18	0.98
134	15,482	95.00	0.40	10884.53	4669.56	302.96	4666.49	4679.37	3.71	1.86	1.81
135	15,543	93.60	359.00	10879.96	4730.38	302.64	4727.32	4740.05	3.66	3.24	-2.30