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30-025-44546

MS Directional Survey Data Certification

MS Directional Job Number: MSMO-62153
Survey Type: MWD
Operating Company: Matador Production Co.
Well Name & Number: Leslie Federal COM #215H
Location: Lea County, NM
API Number: 30-025-44546
Tie In Depth: Surface
Surveyed Depths: 199' – 17,328' MD
Projected TD Survey: 17,387' MD
Dates Performed: 02/08/2019 – 04/10/2019

HOBBS OCD
SEP 11 2019
RECEIVED

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Directional; 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 Directional.

Nathaniel LeBlanc

Digitally signed by:

MWD Surveyor Name: Nate LeBlanc

Date: 05-17-2019

Email: Nate.LeBlanc@msdir.com

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Company:	Matador Production Co.			
Well Name:	Leslie Federal COM #215H			
Location:	Lea County, NM			
Rig:	Patterson #282	Magnetic Declination:	6.26	REFERENCED TO GRID NORTH
Job Number:	MSMO-62153			
API #:	30-025-44546			

Vertical Section Azimuth:	359.55	Proposed Direction:	359.55
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Survey Calculation Method:	Minimum Curvature
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PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	17,387	91.9	358.9	12420.45	4884.42	52.2	4883.86

#	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	0.40	12.50	199.00	0.68	0.15	0.68	0.69	12.50	0.20	0.20
2	317	0.60	1.70	316.99	1.70	0.26	1.70	1.72	8.63	0.19	0.17
3	504	0.30	12.20	503.99	3.16	0.39	3.15	3.18	7.05	0.17	-0.16
4	687	0.40	21.50	686.98	4.22	0.73	4.21	4.28	9.76	0.06	0.05
5	779	0.30	43.90	778.98	4.69	1.01	4.68	4.80	12.16	0.18	-0.11
6	892	0.60	20.70	891.98	5.46	1.42	5.45	5.64	14.63	0.31	0.27
7	1,059	0.20	55.40	1058.98	6.44	1.97	6.42	6.74	17.04	0.27	-0.24
8	1,247	0.40	124.50	1246.97	6.25	2.78	6.23	6.85	24.00	0.20	0.11
9	1,437	0.10	112.90	1436.97	5.81	3.48	5.79	6.78	30.93	0.16	-0.16
10	1,625	0.30	117.80	1624.97	5.52	4.07	5.49	6.86	36.40	0.11	0.11
11	1,814	0.50	116.90	1813.96	4.92	5.24	4.88	7.19	46.84	0.11	0.11
12	2,002	1.40	135.10	2001.94	2.92	7.60	2.86	8.14	68.98	0.50	0.48
13	2,191	4.40	147.90	2190.68	-4.86	13.08	-4.96	13.95	110.38	1.61	1.59
14	2,380	4.50	150.00	2379.11	-17.42	20.64	-17.58	27.01	130.17	0.10	0.05
15	2,568	4.20	146.60	2566.56	-29.56	28.12	-29.78	40.79	136.43	0.21	-0.16
16	2,756	5.20	154.90	2753.93	-43.02	35.52	-43.30	55.79	140.45	0.64	0.53
17	2,943	5.00	151.70	2940.19	-57.87	42.98	-58.20	72.08	143.40	0.19	-0.11
18	3,132	4.90	157.00	3128.49	-72.55	50.04	-72.94	88.13	145.41	0.25	-0.05
19	3,320	4.80	159.50	3315.81	-87.31	55.93	-87.75	103.69	147.36	0.12	-0.05
20	3,509	4.10	159.10	3504.24	-101.03	61.11	-101.51	118.07	148.83	0.37	-0.37
21	3,698	3.40	153.90	3692.84	-112.37	65.99	-112.89	130.31	149.58	0.41	-0.37
22	3,888	3.70	161.10	3882.47	-123.23	70.45	-123.78	141.95	150.24	0.28	0.16
23	4,076	3.80	162.80	4070.07	-134.92	74.26	-135.50	154.01	151.17	0.08	0.05
24	4,264	3.40	160.90	4257.70	-146.14	77.92	-146.75	165.62	151.93	0.22	-0.21
25	4,452	3.80	159.50	4445.33	-157.25	81.93	-157.88	177.31	152.48	0.22	0.21
26	4,641	4.20	148.80	4633.87	-169.03	87.71	-169.72	190.43	152.58	0.45	0.21
27	4,830	4.30	145.70	4822.35	-180.81	95.29	-181.55	204.38	152.21	0.13	0.05
28	5,018	5.60	153.70	5009.65	-194.85	103.32	-195.66	220.55	152.06	0.78	0.69
29	5,207	5.20	149.30	5197.81	-210.48	111.78	-211.35	238.32	152.03	0.30	-0.21
30	5,374	4.70	149.40	5364.19	-222.88	119.13	-223.81	252.72	151.88	0.30	-0.30
31	5,486	4.40	152.20	5475.83	-230.63	123.47	-231.59	261.60	151.84	0.33	-0.27
32	5,675	2.10	224.40	5664.58	-239.52	124.43	-240.49	269.91	152.55	2.25	-1.22
33	5,865	2.20	240.30	5854.45	-243.81	118.82	-244.74	271.23	154.02	0.32	0.05

Company:	Matador Production Co.				
Well Name:	Leslie Federal COM #215H				
Location:	Lea County, NM				
Rig:	Patterson #282	Magnetic Declination:	6.26	REFERENCED TO GRID NORTH	
Job Number:	MSMO-62153				
API #:	30-025-44546				

Vertical Section Azimuth:	359.55	Proposed Direction:	359.55
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Survey Calculation Method:	Minimum Curvature
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PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	17,387	91.9	358.9	12420.45	4884.42	52.2	4883.86

#	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	6,053	1.90	241.30	6042.33	-247.10	112.95	-247.98	271.69	155.43	0.16	-0.16
35	6,241	1.80	229.40	6230.23	-250.52	107.98	-251.36	272.80	156.68	0.21	-0.05
36	6,429	1.00	123.40	6418.19	-253.34	107.11	-254.18	275.05	157.08	1.22	-0.43
37	6,617	0.90	251.20	6606.18	-254.72	107.08	-255.55	276.31	157.20	0.91	-0.05
38	6,806	1.50	25.30	6795.16	-252.96	106.73	-253.79	274.56	157.12	1.18	0.32
39	6,995	1.20	191.50	6984.14	-252.67	107.39	-253.50	274.54	156.97	1.42	-0.16
40	7,184	0.70	184.60	7173.12	-255.76	106.91	-256.59	277.20	157.32	0.27	-0.26
41	7,372	0.70	204.80	7361.10	-257.94	106.33	-258.77	279.00	157.60	0.13	0.00
42	7,560	0.50	230.00	7549.09	-259.51	105.22	-260.33	280.03	157.93	0.17	-0.11
43	7,748	0.80	188.80	7737.08	-261.34	104.39	-262.15	281.42	158.23	0.29	0.16
44	7,937	0.70	214.00	7926.07	-263.60	103.55	-264.40	283.21	158.55	0.18	-0.05
45	8,124	0.30	166.70	8113.06	-265.02	103.02	-265.82	284.34	158.76	0.29	-0.21
46	8,313	0.90	159.20	8302.05	-266.89	103.66	-267.70	286.31	158.77	0.32	0.32
47	8,501	1.40	24.40	8490.03	-266.18	105.13	-267.00	286.19	158.45	1.13	0.27
48	8,690	1.50	52.80	8678.97	-262.58	108.06	-263.42	283.95	157.63	0.38	0.05
49	8,878	1.40	63.90	8866.91	-260.08	112.08	-260.96	283.21	156.69	0.16	-0.05
50	9,065	1.80	47.70	9053.84	-257.10	116.30	-258.01	282.18	155.66	0.32	0.21
51	9,254	0.50	65.80	9242.80	-254.77	119.25	-255.69	281.29	154.92	0.71	-0.69
52	9,441	0.60	136.30	9429.79	-255.14	120.67	-256.08	282.24	154.69	0.34	0.05
53	9,630	0.80	117.40	9618.78	-256.46	122.53	-257.42	284.23	154.46	0.16	0.11
54	9,817	1.50	218.80	9805.75	-258.97	122.15	-259.92	286.33	154.75	0.98	0.37
55	10,005	0.10	36.10	9993.73	-260.76	120.71	-261.70	287.34	155.16	0.85	-0.74
56	10,194	1.10	337.30	10182.72	-258.95	120.10	-259.88	285.45	155.12	0.56	0.53
57	10,383	1.80	131.20	10371.69	-259.23	121.64	-260.18	286.35	154.86	1.50	0.37
58	10,571	1.10	265.50	10559.66	-261.32	122.06	-262.27	288.42	154.96	1.43	-0.37
59	10,760	1.60	253.20	10748.61	-262.22	117.73	-263.14	287.44	155.82	0.30	0.26
60	10,948	1.50	260.80	10936.54	-263.37	112.78	-264.25	286.51	156.82	0.12	-0.05
61	11,137	2.50	279.50	11125.43	-263.09	106.28	-263.92	283.74	158.00	0.63	0.53
62	11,325	1.90	100.30	11313.38	-262.97	105.30	-263.79	283.27	158.18	2.34	-0.32
63	11,513	1.40	328.50	11501.34	-261.57	107.17	-262.40	282.67	157.72	1.61	-0.27
64	11,706	1.50	205.80	11694.31	-261.83	104.83	-262.65	282.04	158.18	1.32	0.05
65	11,800	1.20	201.90	11788.29	-263.85	103.93	-264.66	283.58	158.50	0.33	-0.32
66	11,894	0.90	209.00	11882.27	-265.41	103.21	-266.21	284.77	158.75	0.35	-0.32
67	11,988	7.50	10.90	11976.03	-260.02	104.01	-260.83	280.05	158.20	8.89	7.02

V09.04.02

Company:	Matador Production Co.
Well Name:	Leslie Federal COM #215H
Location:	Lea County, NM
Rig:	Patterson #282
Job Number:	MSMO-62153
API #:	30-025-44546

Magnetic Declination: 6.26 REFERENCED TO GRID NORTH

Vertical Section Azimuth: 359.55 Proposed Direction: 359.55

Survey Calculation Method: Minimum Curvature

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	17,387	91.9	358.9	12420.45	4884.42	52.2	4883.86

#	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	12,035	13.10	2.60	12022.26	-251.68	104.83	-252.50	272.64	157.39	12.30	11.91
69	12,083	19.10	3.00	12068.35	-238.40	105.49	-239.22	260.69	156.13	12.50	12.50
70	12,130	25.80	4.40	12111.76	-220.50	106.68	-221.33	244.95	154.18	14.30	14.26
71	12,177	28.50	12.50	12153.60	-199.34	109.89	-200.20	227.63	151.13	9.73	5.74
72	12,224	32.90	12.50	12194.00	-175.92	115.08	-176.82	210.22	146.81	9.36	9.36
73	12,272	37.90	9.30	12233.12	-148.63	120.29	-149.57	191.21	141.01	11.11	10.42
74	12,319	43.10	6.30	12268.85	-118.40	124.39	-119.37	171.73	133.59	11.81	11.06
75	12,366	49.80	6.90	12301.21	-84.58	128.31	-85.58	153.68	123.39	14.29	14.26
76	12,413	54.80	6.80	12329.94	-47.67	132.75	-48.71	141.05	109.75	10.64	10.64
77	12,460	57.60	1.30	12356.10	-8.73	135.47	-9.80	135.75	93.69	11.40	5.96
78	12,507	59.90	357.50	12380.49	31.43	135.04	30.37	138.64	76.90	8.47	4.89
79	12,553	62.20	358.10	12402.75	71.65	133.49	70.60	151.51	61.78	5.13	5.00
80	12,600	66.50	358.30	12423.09	113.99	132.16	112.95	174.53	49.22	9.16	9.15
81	12,647	68.60	357.60	12441.04	157.39	130.61	156.36	204.53	39.69	4.68	4.47
82	12,694	69.80	356.10	12457.73	201.26	128.19	200.25	238.62	32.49	3.93	2.55
83	12,742	73.20	355.40	12472.96	246.65	124.82	245.66	276.43	26.84	7.22	7.08
84	12,789	79.40	356.80	12484.09	292.18	121.72	291.22	316.52	22.62	13.50	13.19
85	12,893	86.80	0.50	12496.58	395.31	119.31	394.36	412.93	16.80	7.94	7.12
86	12,988	91.00	0.90	12498.40	490.27	120.47	489.30	504.85	13.81	4.44	4.42
87	13,082	92.90	2.00	12495.20	584.18	122.85	583.19	596.95	11.88	2.34	2.02
88	13,176	90.70	358.10	12492.25	678.11	122.93	677.12	689.16	10.28	4.76	-2.34
89	13,271	89.10	357.20	12492.41	773.02	119.04	772.06	782.13	8.75	1.93	-1.68
90	13,365	91.50	358.30	12491.92	866.94	115.35	866.01	874.58	7.58	2.81	2.55
91	13,459	92.40	358.30	12488.72	960.84	112.56	959.93	967.41	6.68	0.96	0.96
92	13,553	92.70	357.40	12484.54	1054.68	109.04	1053.79	1060.30	5.90	1.01	0.32
93	13,648	94.90	357.90	12478.24	1149.39	105.15	1148.53	1154.19	5.23	2.37	2.32
94	13,742	92.20	357.60	12472.42	1243.13	101.47	1242.29	1247.26	4.67	2.89	-2.87
95	13,836	91.80	357.60	12469.14	1336.99	97.53	1336.18	1340.54	4.17	0.43	-0.43
96	13,930	92.60	356.90	12465.54	1430.81	93.03	1430.03	1433.83	3.72	1.13	0.85
97	14,024	93.40	356.60	12460.62	1524.53	87.70	1523.79	1527.05	3.29	0.91	0.85
98	14,118	89.60	358.30	12458.16	1618.38	83.53	1617.67	1620.53	2.95	4.43	-4.04
99	14,212	89.40	359.50	12458.98	1712.36	81.72	1711.66	1714.31	2.73	1.29	-0.21
100	14,307	91.10	1.10	12458.56	1807.35	82.22	1806.65	1809.22	2.60	2.46	1.79
101	14,401	91.80	0.60	12456.18	1901.31	83.61	1900.59	1903.15	2.52	0.92	0.74

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API #:	30-025-44546		

Vertical Section Azimuth:	359.55	Proposed Direction:	359.55
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Survey Calculation Method:	Minimum Curvature
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PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	17,387		91.9		358.9		12420.45		4884.42		52.2		4883.86	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/ 100	BUR/ 100'			
								Distance	Azm					
102	14,495	87.20	1.50	12457.00	1995.26	85.33	1994.53	1997.09	2.45	4.99	-4.89			
103	14,589	91.20	3.40	12458.32	2089.14	89.35	2088.38	2091.05	2.45	4.71	4.26			
104	14,683	93.60	5.20	12454.38	2182.79	96.39	2181.96	2184.91	2.53	3.19	2.55			
105	14,778	90.70	1.10	12450.81	2277.55	101.60	2276.68	2279.81	2.55	5.28	-3.05			
106	14,872	92.90	2.80	12447.86	2371.44	104.80	2370.54	2373.75	2.53	2.96	2.34			
107	14,966	90.10	1.30	12445.40	2465.33	108.16	2464.41	2467.70	2.51	3.38	-2.98			
108	15,060	89.90	1.30	12445.40	2559.31	110.29	2558.36	2561.68	2.47	0.21	-0.21			
109	15,155	90.50	358.90	12445.07	2654.30	110.46	2653.35	2656.60	2.38	2.60	0.63			
110	15,249	90.90	359.10	12443.92	2748.28	108.82	2747.34	2750.43	2.27	0.48	0.43			
111	15,343	91.20	359.40	12442.20	2842.25	107.59	2841.32	2844.29	2.17	0.45	0.32			
112	15,438	90.60	358.90	12440.71	2937.23	106.18	2936.31	2939.15	2.07	0.82	-0.63			
113	15,532	90.80	358.60	12439.56	3031.20	104.13	3030.29	3032.99	1.97	0.38	0.21			
114	15,626	90.40	359.00	12438.57	3125.18	102.16	3124.28	3126.84	1.87	0.60	-0.43			
115	15,720	93.00	357.40	12435.78	3219.08	99.21	3218.20	3220.60	1.77	3.25	2.77			
116	15,814	93.40	359.00	12430.54	3312.88	96.26	3312.02	3314.28	1.66	1.75	0.43			
117	15,908	93.10	358.90	12425.21	3406.71	94.54	3405.87	3408.02	1.59	0.34	-0.32			
118	16,003	93.90	358.90	12419.41	3501.52	92.72	3500.68	3502.75	1.52	0.84	0.84			
119	16,097	91.60	358.60	12414.90	3595.38	90.67	3594.56	3596.52	1.44	2.47	-2.45			
120	16,191	90.00	358.90	12413.59	3689.35	88.62	3688.54	3690.41	1.38	1.73	-1.70			
121	16,285	91.10	358.30	12412.68	3783.31	86.33	3782.52	3784.30	1.31	1.33	1.17			
122	16,379	88.40	358.70	12413.09	3877.27	83.86	3876.49	3878.18	1.24	2.90	-2.87			
123	16,474	88.30	358.00	12415.83	3972.19	81.13	3971.43	3973.02	1.17	0.74	-0.11			
124	16,568	88.90	358.60	12418.13	4066.12	78.34	4065.38	4066.87	1.10	0.90	0.64			
125	16,662	86.70	356.80	12421.73	4159.97	74.57	4159.25	4160.63	1.03	3.02	-2.34			
126	16,756	89.10	358.30	12425.18	4253.81	70.56	4253.12	4254.39	0.95	3.01	2.55			
127	16,850	89.90	358.10	12426.00	4347.76	67.61	4347.09	4348.28	0.89	0.88	0.85			
128	16,945	89.40	358.10	12426.58	4442.70	64.46	4442.06	4443.17	0.83	0.53	-0.53			
129	17,039	89.60	358.10	12427.40	4536.65	61.34	4536.02	4537.06	0.77	0.21	0.21			
130	17,133	90.50	357.90	12427.32	4630.59	58.06	4629.99	4630.95	0.72	0.98	0.96			
131	17,227	91.60	358.80	12425.60	4724.53	55.36	4723.95	4724.86	0.67	1.51	1.17			
132	17,322	92.00	358.90	12422.61	4819.46	53.45	4818.90	4819.76	0.64	0.43	0.42			
133	17,328	91.90	358.90	12422.41	4825.46	53.33	4824.89	4825.76	0.63	1.67	-1.67			
PTB:	17,387	91.90	358.90	12420.45	4884.42	52.20	4883.86	4884.70	0.61	0.00	0.00			