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MS Directional Survey Data Certification

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JUN 28 2018

DISTRICT II-ARTESIA O.C.D.

MS Directional Job Number: DDMO-180127
Survey Type: MWD
Operating Company: Matador Production Company
Well Name & Number: Jimmy Kone 05-24S-28E RB 201H
Location: Eddy County, NM
API Number: 30-015-44596
Tie In Depth: Surface
Surveyed Depths: 200' – 14,255' MD
Projected TD Survey: 14,237' MD
Dates Performed: 02/23/2018 – 03/13/2018

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.

Digitally signed by:

MWD Surveyor Name:

Nate LeBlanc

Date:

04-30-2018

Email:

nleblanc@msdir.com

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Company:		Matador Production Company									
Well Name:		Jimmy Kone 05-24S-28E RB 201H									
Location:		Eddy County, NM									
Rig:		Patterson #810			Magnetic Declination:		7.08		REFERENCED TO GRID NORTH		
Job Number:		DDMO-180127									
API #:		30-015-44596									
Vertical Section Azimuth:				269.89		Proposed Direction:		269.89			
Survey Calculation Method:				Minimum Curvature							
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS	
	14,327		91.6		259	9351.42	428.94	-4881.4		4880.57	
#	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	200	0.20	38.80	200.00	0.27	0.22	-0.22	0.35	38.80	0.10	0.10
2	292	0.20	28.80	292.00	0.54	0.40	-0.40	0.67	36.41	0.04	0.00
3	473	0.20	358.20	473.00	1.13	0.54	-0.54	1.25	25.49	0.06	0.00
4	543	0.40	41.30	543.00	1.44	0.70	-0.70	1.60	25.87	0.41	0.29
5	657	0.30	37.10	656.99	1.97	1.14	-1.14	2.28	30.00	0.09	-0.09
6	748	1.60	329.10	747.98	3.25	0.63	-0.64	3.31	10.96	1.66	1.43
7	838	0.30	334.10	837.97	4.54	-0.12	0.11	4.55	358.51	1.45	-1.44
8	933	0.50	328.20	932.97	5.12	-0.44	0.44	5.14	355.03	0.21	0.21
9	1,028	0.80	316.90	1027.96	5.96	-1.12	1.11	6.06	349.38	0.34	0.32
10	1,122	0.90	316.30	1121.95	6.97	-2.07	2.06	7.27	343.42	0.11	0.11
11	1,217	0.90	38.90	1216.94	8.09	-2.12	2.11	8.36	345.30	1.25	0.00
12	1,311	1.60	42.40	1310.92	9.63	-0.77	0.75	9.66	355.41	0.75	0.74
13	1,406	2.10	21.90	1405.87	12.23	0.77	-0.79	12.25	3.60	0.87	0.53
14	1,500	2.70	15.20	1499.79	15.96	1.99	-2.02	16.09	7.12	0.70	0.64
15	1,689	4.30	12.60	1688.43	27.17	4.71	-4.76	27.58	9.83	0.85	0.85
16	1,877	4.50	32.00	1875.88	40.31	10.15	-10.23	41.57	14.14	0.79	0.11
17	2,066	5.10	33.80	2064.22	53.58	18.75	-18.86	56.76	19.29	0.33	0.32
18	2,254	4.90	43.40	2251.51	66.35	28.92	-29.05	72.38	23.55	0.46	-0.11
19	2,442	6.10	25.00	2438.65	81.24	38.66	-38.81	89.97	25.45	1.13	0.64
20	2,551	5.00	25.80	2547.14	90.77	43.17	-43.35	100.51	25.44	1.01	-1.01
21	2,637	4.50	29.80	2632.85	97.07	46.48	-46.67	107.62	25.59	0.70	-0.58
22	2,827	7.00	35.60	2821.88	112.95	56.93	-57.14	126.49	26.75	1.35	1.32
23	3,017	8.50	25.30	3010.14	135.06	69.67	-69.93	151.97	27.29	1.07	0.79
24	3,205	7.30	11.50	3196.37	159.33	77.99	-78.30	177.40	26.08	1.19	-0.64
25	3,393	6.30	9.20	3383.05	181.22	82.02	-82.37	198.92	24.35	0.55	-0.53
26	3,582	6.00	22.20	3570.97	200.60	87.41	-87.80	218.82	23.54	0.75	-0.16
27	3,771	6.20	21.80	3758.90	219.23	94.93	-95.35	238.90	23.41	0.11	0.11
28	3,959	5.80	15.30	3945.87	237.81	101.21	-101.67	258.45	23.05	0.42	-0.21
29	4,147	6.10	18.90	4132.86	256.43	106.95	-107.44	277.84	22.64	0.25	0.16
30	4,336	5.90	21.10	4320.82	274.99	113.70	-114.23	297.57	22.46	0.16	-0.11
31	4,524	5.80	22.40	4507.85	292.79	120.80	-121.36	316.73	22.42	0.09	-0.05
32	4,713	6.30	22.60	4695.79	311.19	128.42	-129.02	336.65	22.43	0.26	0.26
33	4,900	5.10	16.70	4881.87	328.62	134.76	-135.39	355.18	22.30	0.71	-0.64

Directional

SURVEY CALCULATION PROGRAM

4/27/18 10:47

Company:	Matador Production Company		
Well Name:	Jimmy Kone 05-24S-28E RB 201H		
Location:	Eddy County, NM		
Rig:	Patterson #810	Magnetic Declination:	7.08
Job Number:	DDMO-180127		
API #:	30-015-44596		

REFERENCED TO GRID NORTH ▼

Vertical Section Azimuth:	269.89	Proposed Direction:	269.89
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Survey Calculation Method:	Minimum Curvature
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PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	14,327	91.6	259	9351.42	428.94	-4881.4	4880.57

#	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	5,090	6.00	18.80	5070.97	346.11	140.38	-141.05	373.50	22.08	0.49	0.47
35	5,278	4.50	20.40	5258.18	362.33	146.12	-146.82	390.68	21.96	0.80	-0.80
36	5,468	4.50	23.30	5447.59	376.16	151.67	-152.39	405.59	21.96	0.12	0.00
37	5,657	3.40	16.70	5636.14	388.34	156.21	-156.96	418.58	21.91	0.63	-0.58
38	5,847	2.50	16.70	5825.89	397.70	159.02	-159.78	428.32	21.79	0.47	-0.47
39	6,037	0.90	246.10	6015.84	401.07	158.85	-159.62	431.38	21.61	1.66	-0.84
40	6,225	1.60	275.50	6203.79	400.72	154.88	-155.65	429.61	21.13	0.49	0.37
41	6,414	0.90	63.80	6392.77	401.63	153.59	-154.36	430.00	20.93	1.28	-0.37
42	6,605	1.60	97.10	6583.73	401.96	157.58	-158.35	431.75	21.41	0.51	0.37
43	6,794	1.80	170.90	6772.66	398.71	160.67	-161.43	429.86	21.95	1.08	0.11
44	6,983	0.70	58.80	6961.63	396.37	162.13	-162.89	428.25	22.25	1.14	-0.58
45	7,171	0.70	152.20	7149.62	395.95	163.64	-164.40	428.44	22.45	0.54	0.00
46	7,359	0.60	205.90	7337.61	394.05	163.75	-164.51	426.72	22.57	0.32	-0.05
47	7,548	1.80	121.70	7526.58	391.60	165.84	-166.60	425.27	22.95	0.97	0.63
48	7,736	2.10	137.40	7714.47	387.51	170.69	-171.43	423.44	23.77	0.32	0.16
49	7,925	0.50	102.10	7903.42	384.79	173.84	-174.58	422.24	24.31	0.91	-0.85
50	8,114	0.50	33.50	8092.41	385.31	175.10	-175.84	423.23	24.44	0.30	0.00
51	8,303	0.80	270.20	8281.40	386.00	174.24	-174.98	423.50	24.29	0.61	0.16
52	8,492	0.90	244.60	8470.38	385.37	171.57	-172.31	421.84	24.00	0.21	0.05
53	8,681	0.90	70.30	8659.38	385.23	171.63	-172.37	421.74	24.01	0.95	0.00
54	8,793	1.80	91.50	8771.34	385.48	174.22	-174.96	423.02	24.32	0.91	0.80
55	8,910	0.60	93.00	8888.32	385.40	176.67	-177.41	423.96	24.63	1.03	-1.03
56	9,005	10.80	294.50	8982.78	389.08	169.04	-169.79	424.21	23.48	11.96	10.74
57	9,099	22.10	299.80	9072.79	401.56	145.60	-146.37	427.14	19.93	12.11	12.02
58	9,144	27.10	300.30	9113.70	410.94	129.40	-130.19	430.83	17.48	11.12	11.11
59	9,193	30.50	295.70	9156.63	421.97	108.55	-109.36	435.71	14.43	8.28	6.94
60	9,244	35.50	287.80	9199.41	432.12	82.76	-83.59	439.98	10.84	12.92	9.80
61	9,289	38.80	282.00	9235.29	439.05	56.51	-57.36	442.67	7.33	10.69	7.33
62	9,337	44.80	280.20	9271.05	445.18	25.13	-25.98	445.89	3.23	12.75	12.50
63	9,384	49.10	279.60	9303.13	451.08	-8.70	7.83	451.16	358.90	9.20	9.15
64	9,429	53.00	280.50	9331.41	457.19	-43.15	42.27	459.22	354.61	8.80	8.67
65	9,479	56.20	280.80	9360.37	464.72	-83.20	82.30	472.11	349.85	6.42	6.40
66	9,524	59.50	279.90	9384.32	471.56	-120.67	119.77	486.76	345.65	7.53	7.33
67	9,572	62.40	280.20	9407.62	478.88	-161.98	161.07	505.54	341.31	6.07	6.04

Company: **Matador Production Company**
 Well Name: **Jimmy Kone 05-24S-28E RB 201H**
 Location: **Eddy County, NM**
 Rig: **Patterson #810**
 Job Number: **DDMO-180127**
 API #: **30-015-44596**

Magnetic Declination: **7.08** REFERENCED TO GRID NORTH ▼

Vertical Section Azimuth: **269.89** Proposed Direction: **269.89**

Survey Calculation Method: **Minimum Curvature**

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	14,327	91.6	259	9351.42	428.94	-4881.4	4880.57

#	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	12,501	93.20	270.30	9445.75	491.38	-3062.28	3061.33	3101.46	279.12	1.90	-1.83
103	12,595	93.50	270.80	9440.26	492.28	-3156.12	3155.17	3194.28	278.87	0.62	0.32
104	12,689	93.60	270.10	9434.44	493.01	-3249.93	3248.98	3287.12	278.63	0.75	0.11
105	12,784	91.30	267.20	9430.38	490.78	-3344.80	3343.85	3380.62	278.35	3.89	-2.42
106	12,877	92.40	266.50	9427.38	485.67	-3437.61	3436.67	3471.75	278.04	1.40	1.18
107	12,971	94.50	268.10	9421.72	481.25	-3531.33	3530.40	3563.97	277.76	2.81	2.23
108	13,065	95.60	268.80	9413.45	478.72	-3624.93	3624.00	3656.40	277.52	1.39	1.17
109	13,158	95.80	268.10	9404.21	476.21	-3717.43	3716.51	3747.81	277.30	0.78	0.22
110	13,252	93.10	269.10	9396.92	473.92	-3811.11	3810.20	3840.47	277.09	3.06	-2.87
111	13,345	92.90	271.90	9392.05	474.74	-3903.97	3903.05	3932.73	276.93	3.01	-0.22
112	13,439	92.50	271.60	9387.62	477.60	-3997.82	3996.90	4026.25	276.81	0.53	-0.43
113	13,533	91.40	270.90	9384.42	479.65	-4091.75	4090.82	4119.76	276.69	1.39	-1.17
114	13,626	92.90	271.20	9380.93	481.35	-4184.66	4183.73	4212.26	276.56	1.64	1.61
115	13,720	91.50	269.80	9377.32	482.17	-4278.58	4277.65	4305.67	276.43	2.11	-1.49
116	13,814	94.00	267.60	9372.81	480.05	-4372.44	4371.51	4398.71	276.27	3.54	2.66
117	13,908	94.60	268.20	9365.76	476.61	-4466.11	4465.19	4491.47	276.09	0.90	0.64
118	14,002	91.00	267.40	9361.17	473.01	-4559.91	4559.00	4584.38	275.92	3.92	-3.83
119	14,096	92.40	263.90	9358.38	465.88	-4653.58	4652.68	4676.85	275.72	4.01	1.49
120	14,190	91.50	261.30	9355.19	453.78	-4746.74	4745.86	4768.38	275.46	2.93	-0.96
121	14,255	91.60	259.00	9353.43	442.67	-4810.75	4809.89	4831.07	275.26	3.54	0.15
PTB:	14,327	91.60	259.00	9351.42	428.94	-4881.40	4880.57	4900.21	275.02	0.00	0.00

V09.04.02

Company:	Matador Production Company		
Well Name:	Jimmy Kone 05-24S-28E RB 201H		
Location:	Eddy County, NM		
Rig:	Patterson #810	Magnetic Declination:	7.08
Job Number:	DDMO-180127		
API #:	30-015-44596		

Vertical Section Azimuth:	269.89	Proposed Direction:	269.89
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Survey Calculation Method:	Minimum Curvature
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PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	14,327	91.6	259	9351.42	428.94	-4881.4	4880.57

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/ 100	BUR/ 100'
								Distance	Azm		
68	9,617	64.90	279.60	9427.59	485.81	-201.71	200.77	526.02	337.45	5.68	5.56
69	9,668	67.20	278.70	9448.30	493.22	-247.72	246.77	551.94	333.33	4.79	4.51
70	9,713	68.40	278.70	9465.30	499.52	-288.90	287.94	577.05	329.96	2.67	2.67
71	9,763	70.70	278.30	9482.77	506.45	-335.23	334.26	607.35	326.50	4.66	4.60
72	9,819	77.20	278.90	9498.24	514.50	-388.42	387.43	644.65	322.95	11.65	11.61
73	9,875	79.70	279.30	9509.45	523.17	-442.59	441.58	685.27	319.77	4.52	4.46
74	9,906	81.70	277.30	9514.46	527.59	-472.86	471.84	708.48	318.13	9.06	6.45
75	9,969	82.60	277.70	9523.07	535.73	-534.73	533.70	756.93	315.05	1.56	1.43
76	10,063	86.40	272.80	9532.08	544.28	-627.86	626.81	830.93	310.92	6.58	4.04
77	10,157	94.70	267.10	9531.18	544.20	-721.74	720.69	903.91	307.02	10.71	8.83
78	10,251	92.10	268.10	9525.60	540.27	-815.48	814.44	978.21	303.53	2.96	-2.77
79	10,346	91.50	268.60	9522.62	537.54	-910.39	909.36	1057.24	300.56	0.82	-0.63
80	10,440	88.10	269.10	9522.95	535.65	-1004.36	1003.33	1138.27	298.07	3.66	-3.62
81	10,534	88.90	269.10	9525.41	534.18	-1098.31	1097.29	1221.33	295.94	0.85	0.85
82	10,628	90.00	269.10	9526.31	532.70	-1192.30	1191.27	1305.89	294.07	1.17	1.17
83	10,722	90.10	268.90	9526.23	531.06	-1286.28	1285.26	1391.60	292.43	0.24	0.11
84	10,815	90.50	268.60	9525.74	529.03	-1379.26	1378.24	1477.24	290.98	0.54	0.43
85	10,908	92.60	270.00	9523.23	527.89	-1472.21	1471.19	1563.99	289.73	2.71	2.26
86	11,002	92.90	269.30	9518.72	527.32	-1566.10	1565.08	1652.49	288.61	0.81	0.32
87	11,096	92.70	269.70	9514.13	526.50	-1659.98	1658.97	1741.48	287.60	0.48	-0.21
88	11,190	92.10	269.60	9510.19	525.93	-1753.90	1752.89	1831.05	286.69	0.65	-0.64
89	11,283	92.30	269.80	9506.62	525.44	-1846.83	1845.82	1920.12	285.88	0.30	0.22
90	11,377	91.90	269.70	9503.17	525.03	-1940.76	1939.75	2010.53	285.14	0.44	-0.43
91	11,470	91.90	268.40	9500.09	523.49	-2033.70	2032.69	2099.99	284.44	1.40	0.00
92	11,564	91.60	268.40	9497.22	520.87	-2127.62	2126.61	2190.45	283.76	0.32	-0.32
93	11,658	91.30	268.20	9494.84	518.08	-2221.55	2220.55	2281.16	283.13	0.38	-0.32
94	11,752	93.00	267.60	9491.32	514.64	-2315.41	2314.42	2371.92	282.53	1.92	1.81
95	11,846	92.30	267.40	9486.97	510.54	-2409.22	2408.24	2462.72	281.96	0.77	-0.74
96	11,939	93.10	267.20	9482.59	506.16	-2502.02	2501.04	2552.70	281.44	0.89	0.86
97	12,033	92.40	267.20	9478.08	501.58	-2595.79	2594.83	2643.81	280.94	0.74	-0.74
98	12,127	91.70	266.50	9474.72	496.42	-2689.59	2688.63	2735.02	280.46	1.05	-0.74
99	12,220	94.70	268.30	9469.52	492.20	-2782.34	2781.39	2825.54	280.03	3.76	3.23
100	12,314	95.70	269.40	9461.00	490.32	-2875.93	2874.98	2917.43	279.68	1.58	1.06
101	12,408	94.90	270.80	9452.32	490.49	-2969.52	2968.58	3009.76	279.38	1.71	-0.85