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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-180237
Survey Type: MWD
Operating Company: Matador Production Company
Well Name & Number: Jimmy Kone 05-24S-28E RB 215H
Location: Eddy County, NM
API Number: 30-015-44744
Tie In Depth: Surface
Surveyed Depths: 175' – 14,538' MD
Projected TD Survey: 14,608' MD
Dates Performed: 03/06/2018 – 03/24/2018

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:

Tyler Teague

Date:

04-27-2018

Email:

tteague@msdir.com

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Company:		Matador Production Company												
Well Name:		Jimmy Kone 05-24S-28E RB 215H												
Location:		Eddy County, NM												
Rig:		Patterson #810					Magnetic Declination:		7.08		REFERENCED TO GRID NORTH			
Job Number:		DDMO-180237												
API #:		30-015-44744												
Vertical Section Azimuth:				269.89		Proposed Direction:		269.89						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	14,608		94.8		271.6		9490.2		856.64		-4869.41		4867.76	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/ 100	BUR/ 100'			
								Distance	Azm					
TIE IN	0	0.00	0.00	0.00	0.00	0.00			0.00					
1	175	0.50	281.70	175.00	0.15	-0.75	0.75	0.76	281.70	0.29	0.29			
2	331	0.90	276.40	330.99	0.43	-2.63	2.63	2.67	279.27	0.26	0.26			
3	533	0.90	279.80	532.96	0.88	-5.77	5.77	5.84	278.63	0.03	0.00			
4	699	1.40	301.70	698.93	2.16	-8.78	8.78	9.04	283.84	0.40	0.30			
5	790	2.60	357.30	789.88	4.81	-9.82	9.82	10.94	296.09	2.36	1.32			
6	880	4.00	4.90	879.73	9.98	-9.65	9.63	13.88	315.95	1.63	1.56			
7	974	4.00	2.20	973.50	16.52	-9.25	9.22	18.93	330.76	0.20	0.00			
8	1,069	3.90	3.50	1068.27	23.06	-8.92	8.88	24.72	338.84	0.14	-0.11			
9	1,164	4.40	15.70	1163.02	29.79	-7.74	7.68	30.78	345.44	1.07	0.53			
10	1,259	4.40	26.00	1257.75	36.57	-5.16	5.09	36.93	351.98	0.83	0.00			
11	1,354	3.70	21.90	1352.51	42.69	-2.41	2.33	42.76	356.76	0.80	-0.74			
12	1,450	7.60	19.20	1448.02	51.56	0.83	-0.93	51.57	0.92	4.07	4.06			
13	1,545	7.90	17.40	1542.16	63.73	4.85	-4.97	63.91	4.35	0.41	0.32			
14	1,734	7.10	19.70	1729.54	87.12	12.67	-12.84	88.03	8.27	0.45	-0.42			
15	1,924	7.10	29.30	1918.09	108.41	22.37	-22.58	110.70	11.66	0.62	0.00			
16	2,114	7.30	18.20	2106.60	130.12	31.89	-32.14	133.97	13.77	0.74	0.11			
17	2,304	6.70	33.10	2295.20	150.88	41.72	-42.01	156.54	15.46	1.00	-0.32			
18	2,495	5.90	33.40	2485.04	168.41	53.20	-53.53	176.61	17.53	0.42	-0.42			
19	2,556	5.70	32.70	2545.73	173.57	56.57	-56.90	182.56	18.05	0.35	-0.33			
20	2,686	8.30	19.60	2674.76	187.85	63.20	-63.56	198.20	18.60	2.33	2.00			
21	2,780	9.60	12.90	2767.61	201.88	67.23	-67.62	212.78	18.42	1.77	1.38			
22	2,875	8.40	12.40	2861.44	216.38	70.49	-70.90	227.57	18.04	1.27	-1.26			
23	2,971	10.30	9.80	2956.16	231.69	73.46	-73.90	243.05	17.59	2.03	1.98			
24	3,066	11.60	5.20	3049.43	249.57	75.77	-76.25	260.82	16.89	1.65	1.37			
25	3,160	13.50	5.50	3141.18	269.90	77.67	-78.19	280.86	16.06	2.02	2.02			
26	3,256	14.10	9.40	3234.41	292.60	80.66	-81.22	303.51	15.41	1.15	0.63			
27	3,445	14.10	6.60	3417.72	338.18	87.07	-87.71	349.21	14.44	0.36	0.00			
28	3,636	15.20	8.00	3602.51	386.09	93.22	-93.97	397.18	13.57	0.60	0.58			
29	3,826	16.10	7.30	3785.46	436.88	100.04	-100.88	448.19	12.90	0.48	0.47			
30	4,017	14.40	8.30	3969.73	486.66	106.83	-107.77	498.25	12.38	0.90	-0.89			
31	4,207	15.20	8.60	4153.43	534.66	113.97	-114.99	546.68	12.03	0.42	0.42			
32	4,397	15.30	9.90	4336.74	583.99	122.00	-123.12	596.59	11.80	0.19	0.05			
33	4,588	14.40	10.20	4521.36	632.19	130.54	-131.75	645.52	11.67	0.47	-0.47			

VO9.04.02

Company:		Matador Production Company														
Well Name:		Jimmy Kone 05-24S-28E RB 215H														
Location:		Eddy County, NM														
Rig:		Patterson #810					Magnetic Declination:		7.08			REFERENCED TO GRID NORTH				
Job Number:		DDMO-180237														
API #:		30-015-44744														
Vertical Section Azimuth:					269.89					Proposed Direction:		269.89				
Survey Calculation Method:					Minimum Curvature											
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS			
	14,608		94.8		271.6		9490.2		856.64		-4869.41		4867.76			
#	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	4,778	12.90	10.80	4705.98	676.27	138.70	-140.00	690.35	11.59	0.79	-0.79					
35	4,968	9.80	6.80	4892.25	713.17	144.59	-145.96	727.68	11.46	1.68	-1.63					
36	5,159	10.90	6.60	5080.14	747.25	148.59	-150.02	761.88	11.25	0.58	0.58					
37	5,349	9.70	6.60	5267.07	781.00	152.49	-153.99	795.75	11.05	0.63	-0.63					
38	5,539	8.80	10.60	5454.60	811.19	157.01	-158.56	826.24	10.95	0.58	-0.47					
39	5,730	7.10	10.20	5643.76	837.17	161.79	-163.39	852.66	10.94	0.89	-0.89					
40	5,920	5.90	12.70	5832.54	858.25	166.01	-167.66	874.16	10.95	0.65	-0.63					
41	6,111	4.70	12.40	6022.72	875.47	169.85	-171.53	891.80	10.98	0.63	-0.63					
42	6,301	3.30	0.70	6212.25	888.54	171.59	-173.29	904.96	10.93	0.85	-0.74					
43	6,491	2.90	312.80	6402.00	897.28	168.13	-169.85	912.89	10.61	1.34	-0.21					
44	6,682	2.80	299.00	6592.77	902.82	160.50	-162.24	916.98	10.08	0.36	-0.05					
45	6,872	0.90	293.30	6782.66	905.66	155.07	-156.81	918.84	9.72	1.00	-1.00					
46	7,063	0.80	159.30	6973.65	905.01	154.17	-155.90	918.05	9.67	0.82	-0.05					
47	7,253	1.30	186.20	7163.62	901.63	154.40	-156.13	914.75	9.72	0.36	0.26					
48	7,444	0.80	275.70	7354.60	899.60	152.84	-154.57	912.50	9.64	0.80	-0.26					
49	7,633	0.60	150.40	7543.59	898.87	152.02	-153.74	911.64	9.60	0.66	-0.11					
50	7,823	0.80	184.40	7733.58	896.69	152.41	-154.13	909.55	9.65	0.24	0.11					
51	8,014	0.80	112.50	7924.56	894.85	153.54	-155.26	907.92	9.74	0.49	0.00					
52	8,205	0.80	104.50	8115.54	894.00	156.06	-157.78	907.52	9.90	0.06	0.00					
53	8,394	0.20	143.70	8304.54	893.41	157.53	-159.25	907.19	10.00	0.35	-0.32					
54	8,584	1.70	151.70	8494.51	890.66	159.07	-160.78	904.75	10.13	0.79	0.79					
55	8,774	1.20	170.10	8684.45	886.22	160.74	-162.44	900.68	10.28	0.36	-0.26					
56	8,964	1.10	138.00	8874.41	882.90	162.31	-164.00	897.70	10.42	0.34	-0.05					
57	9,122	0.90	171.00	9032.39	880.55	163.52	-165.21	895.60	10.52	0.38	-0.13					
58	9,258	3.80	252.30	9168.28	878.12	159.39	-161.07	892.47	10.29	2.77	2.13					
59	9,305	10.30	272.50	9214.90	877.83	153.70	-155.38	891.19	9.93	14.59	13.83					
60	9,353	14.40	273.40	9261.78	878.37	143.45	-145.14	890.01	9.28	8.55	8.54					
61	9,401	15.00	276.80	9308.21	879.46	131.32	-133.01	889.21	8.49	2.19	1.25					
62	9,448	16.40	271.50	9353.46	880.36	118.65	-120.34	888.32	7.68	4.26	2.98					
63	9,496	22.20	271.90	9398.74	880.84	102.80	-104.49	886.81	6.66	12.09	12.08					
64	9,543	25.80	276.20	9441.68	882.24	83.75	-85.44	886.20	5.42	8.51	7.66					
65	9,591	32.30	274.60	9483.61	884.39	60.56	-62.25	886.46	3.92	13.64	13.54					
66	9,638	38.00	276.60	9522.03	887.07	33.64	-35.35	887.70	2.17	12.37	12.13					
67	9,685	46.00	278.10	9556.93	891.12	2.48	-4.20	891.12	0.16	17.15	17.02					

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API #:		30-015-44744												
Vertical Section Azimuth:				269.89		Proposed Direction:		269.89						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	14,608		94.8		271.6		9490.2		856.64		-4869.41		4867.76	
#	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	9,732	53.60	276.80	9587.24	895.75	-33.09	31.37	896.36	357.88	16.31	16.17			
69	9,780	59.80	276.60	9613.59	900.42	-72.91	71.18	903.37	355.37	12.92	12.92			
70	9,827	65.20	278.10	9635.28	905.77	-114.24	112.50	912.94	352.81	11.83	11.49			
71	9,875	68.90	277.60	9653.99	911.80	-158.02	156.27	925.39	350.17	7.77	7.71			
72	9,924	71.90	279.60	9670.43	918.71	-203.65	201.89	941.01	347.50	7.23	6.12			
73	9,995	79.30	279.60	9688.08	930.17	-271.41	269.62	968.96	343.73	10.42	10.42			
74	10,045	81.50	275.20	9696.42	936.51	-320.29	318.49	989.77	341.12	9.73	4.40			
75	10,092	83.40	273.70	9702.59	940.12	-366.73	364.93	1009.12	338.69	5.13	4.04			
76	10,139	85.00	271.50	9707.34	942.24	-413.44	411.63	1028.96	336.31	5.77	3.40			
77	10,232	89.60	269.60	9711.72	943.13	-506.30	504.49	1070.44	331.77	5.35	4.95			
78	10,327	93.20	270.80	9709.40	943.46	-601.26	599.45	1118.76	327.49	3.99	3.79			
79	10,421	92.90	268.30	9704.40	942.73	-695.11	693.30	1171.29	323.60	2.67	-0.32			
80	10,515	92.50	268.10	9699.97	939.78	-788.96	787.16	1227.05	319.99	0.48	-0.43			
81	10,609	92.70	268.10	9695.71	936.66	-882.82	881.02	1287.13	316.70	0.21	0.21			
82	10,704	91.20	267.60	9692.47	933.10	-977.69	975.90	1351.50	313.66	1.66	-1.58			
83	10,798	90.30	267.90	9691.24	929.41	-1071.61	1069.82	1418.50	310.94	1.01	-0.96			
84	10,892	93.10	271.90	9688.46	929.24	-1165.54	1163.75	1490.63	308.56	5.19	2.98			
85	10,986	88.60	270.00	9687.06	930.80	-1259.49	1257.70	1566.11	306.47	5.20	-4.79			
86	11,080	91.00	270.50	9687.39	931.21	-1353.48	1351.69	1642.88	304.53	2.61	2.55			
87	11,174	91.50	269.30	9685.34	931.05	-1447.45	1445.66	1721.04	302.75	1.38	0.53			
88	11,268	90.90	268.30	9683.37	929.08	-1541.41	1539.62	1799.76	301.08	1.24	-0.64			
89	11,363	91.00	268.60	9681.79	926.51	-1636.36	1634.58	1880.45	299.52	0.33	0.11			
90	11,457	92.10	270.00	9679.25	925.36	-1730.32	1728.54	1962.22	298.14	1.89	1.17			
91	11,552	90.30	269.40	9677.26	924.86	-1825.29	1823.51	2046.23	296.87	2.00	-1.89			
92	11,647	92.90	271.60	9674.61	925.69	-1920.24	1918.46	2131.72	295.74	3.58	2.74			
93	11,741	93.10	272.20	9669.69	928.80	-2014.06	2012.27	2217.90	294.76	0.67	0.21			
94	11,835	91.50	271.30	9665.92	931.67	-2107.93	2106.14	2304.65	293.84	1.95	-1.70			
95	11,929	89.00	270.10	9665.51	932.82	-2201.92	2200.12	2391.36	292.96	2.95	-2.66			
96	12,023	88.50	268.40	9667.56	931.59	-2295.88	2294.09	2477.69	292.09	1.88	-0.53			
97	12,118	92.00	268.90	9667.14	929.35	-2390.84	2389.05	2565.11	291.24	3.72	3.68			
98	12,213	92.90	268.40	9663.08	927.12	-2485.72	2483.94	2652.99	290.45	1.08	0.95			
99	12,307	91.00	266.80	9659.88	923.18	-2579.58	2577.80	2739.80	289.69	2.64	-2.02			
100	12,402	89.70	264.30	9659.30	915.81	-2674.28	2672.52	2826.75	288.90	2.97	-1.37			
101	12,496	96.80	267.90	9653.98	909.42	-2767.84	2766.09	2913.41	288.19	8.46	7.55			

Page 3

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PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	14,608		94.8		271.6		9490.2		856.64		-4869.41		4867.76	
#	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	12,590	97.10	268.10	9642.60	906.17	-2861.09	2859.34	3001.16		287.57	0.38	0.32		
103	12,684	94.80	266.50	9632.86	901.76	-2954.47	2952.73	3089.02		286.97	2.98	-2.45		
104	12,778	94.40	267.70	9625.32	897.02	-3048.05	3046.32	3177.30		286.40	1.34	-0.43		
105	12,873	94.70	267.70	9617.78	893.22	-3142.67	3140.95	3267.14		285.87	0.32	0.32		
106	12,966	95.30	268.40	9609.68	890.07	-3235.26	3233.55	3355.46		285.38	0.99	0.65		
107	13,060	97.20	268.30	9599.44	887.38	-3328.66	3326.95	3444.91		284.93	2.02	2.02		
108	13,155	97.70	267.70	9587.13	884.09	-3422.80	3421.10	3535.13		284.48	0.82	0.53		
109	13,249	94.90	265.10	9576.81	878.22	-3516.03	3514.34	3624.05		284.02	4.05	-2.98		
110	13,344	94.20	264.80	9569.27	869.88	-3610.36	3608.69	3713.68		283.55	0.80	-0.74		
111	13,438	93.90	264.20	9562.64	860.90	-3703.69	3702.04	3802.43		283.09	0.71	-0.32		
112	13,532	94.90	264.80	9555.42	851.91	-3796.98	3795.34	3891.38		282.65	1.24	1.06		
113	13,626	94.40	264.80	9547.80	843.42	-3890.29	3888.66	3980.67		282.23	0.53	-0.53		
114	13,652	94.10	264.60	9545.88	841.03	-3916.11	3914.49	4005.40		282.12	1.39	-1.15		
115	13,746	91.10	266.70	9541.61	833.91	-4009.72	4008.12	4095.52		281.75	3.89	-3.19		
116	13,841	91.60	269.10	9539.37	830.43	-4104.63	4103.02	4187.79		281.44	2.58	0.53		
117	13,935	92.50	271.80	9536.01	831.16	-4198.55	4196.95	4280.03		281.20	3.03	0.96		
118	14,029	92.70	271.90	9531.75	834.19	-4292.41	4290.80	4372.72		281.00	0.24	0.21		
119	14,123	92.80	271.90	9527.24	837.31	-4386.25	4384.63	4465.45		280.81	0.11	0.11		
120	14,217	94.00	272.80	9521.66	841.15	-4480.00	4478.38	4558.28		280.63	1.59	1.28		
121	14,311	94.70	272.90	9514.53	845.82	-4573.61	4571.98	4651.17		280.48	0.75	0.74		
122	14,406	94.60	272.30	9506.83	850.11	-4668.20	4666.56	4744.98		280.32	0.64	-0.11		
123	14,499	94.70	271.90	9499.29	853.51	-4760.83	4759.19	4836.74		280.16	0.44	0.11		
124	14,538	94.80	271.60	9496.06	854.69	-4799.68	4798.03	4875.19		280.10	0.81	0.26		
PTB:	14,608	94.80	271.60	9490.20	856.64	-4869.41	4867.76	4944.19		279.98	0.00	0.00		