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30-015-44742

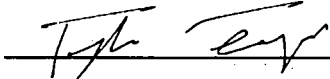
MS Directional Survey Data Certification

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AUG 31 2018

MS Directional Job Number: DDMO-180335
Survey Type: MWD
Operating Company: Matador Production Company
Well Name & Number: Brantley State COM 13-24S-27E RB 205H
Location: Eddy County, NM
API Number: 30-015-44742
Tie In Depth: Surface
Surveyed Depths: 233' – 14,266' MD
Projected TD Survey: 14,337' MD
Dates Performed: 03/31/2018 – 05/02/2018

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: 05-25-2018
Email: tteague@msdir.com

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Company:	Matador Production Company		
Well Name:	Brantley State COM 13-24S-27E RB 205H		
Location:	Eddy County, NM		
Rig:	Patterson #810	Magnetic Declination:	7.10
Job Number:	DDMO-180335		
API #:	30-015-44742		
Vertical Section Azimuth:	269.64	Proposed Direction:	269.64

Survey Calculation Method:	Minimum Curvature		
PTB:	MD 14,337	INC 95.5	AZM 269
	TVD 9157.73	N/S -645.86	E/W -5318.84
			VS 5322.79

#	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	233	1.10	353.70	232.99	2.22	-0.25	0.23	2.24	353.70	0.47	0.47
2	328	1.70	342.30	327.96	4.47	-0.77	0.75	4.54	350.18	0.69	0.63
3	420	2.10	332.60	419.91	7.27	-1.96	1.92	7.53	344.88	0.56	0.43
4	519	2.20	325.60	518.84	10.45	-3.87	3.81	11.14	339.66	0.28	0.10
5	699	1.10	305.70	698.76	14.31	-7.23	7.14	16.03	333.19	0.68	-0.61
6	879	0.50	267.60	878.74	15.28	-9.42	9.32	17.95	328.36	0.43	-0.33
7	1,069	0.80	223.10	1068.73	14.28	-11.15	11.06	18.12	322.01	0.30	0.16
8	1,260	2.00	195.70	1259.67	10.10	-12.96	12.90	16.43	307.91	0.70	0.63
9	1,450	1.70	200.00	1449.57	4.26	-14.82	14.80	15.42	286.02	0.17	-0.16
10	1,640	1.20	159.60	1639.52	-0.26	-15.09	15.10	15.10	269.02	0.58	-0.26
11	1,831	2.70	119.80	1830.41	-4.37	-10.49	10.52	11.37	247.40	1.01	0.79
12	2,021	1.70	119.60	2020.27	-7.98	-4.16	4.21	9.00	207.52	0.53	-0.53
13	2,210	2.80	109.90	2209.12	-10.94	2.62	-2.55	11.25	166.54	0.61	0.58
14	2,400	0.90	134.30	2399.01	-13.56	8.05	-7.97	15.77	149.31	1.06	-1.00
15	2,479	0.80	140.00	2478.00	-14.42	8.85	-8.76	16.92	148.46	0.17	-0.13
16	2,583	0.70	122.40	2582.00	-15.32	9.85	-9.76	18.21	147.25	0.24	-0.10
17	2,678	2.00	182.40	2676.97	-17.28	10.27	-10.16	20.11	149.27	1.85	1.37
18	2,773	2.10	177.90	2771.91	-20.68	10.27	-10.14	23.09	153.59	0.20	0.11
19	2,868	2.20	184.80	2866.84	-24.23	10.18	-10.03	26.29	157.22	0.29	0.11
20	2,963	3.50	189.40	2961.72	-28.91	9.55	-9.37	30.45	161.72	1.39	1.37
21	3,058	3.80	190.40	3056.53	-34.87	8.51	-8.29	35.89	166.28	0.32	0.32
22	3,153	5.00	191.00	3151.25	-42.03	7.15	-6.89	42.63	170.34	1.26	1.26
23	3,248	5.80	184.20	3245.83	-50.88	6.01	-5.69	51.24	173.26	1.08	0.84
24	3,344	7.20	179.50	3341.21	-61.74	5.71	-5.32	62.00	174.72	1.56	1.46
25	3,439	7.40	177.20	3435.44	-73.80	6.06	-5.60	74.05	175.31	0.37	0.21
26	3,534	8.10	185.30	3529.57	-86.57	5.74	-5.20	86.76	176.21	1.36	0.74
27	3,629	8.10	187.20	3623.63	-99.88	4.28	-3.65	99.97	177.54	0.28	0.00
28	3,724	8.60	186.00	3717.62	-113.58	2.70	-1.99	113.62	178.64	0.56	0.53
29	3,819	10.50	184.60	3811.30	-129.28	1.26	-0.45	129.28	179.44	2.01	2.00
30	3,914	12.00	184.20	3904.47	-147.76	-0.15	1.08	147.76	180.06	1.58	1.58
31	4,010	13.90	187.50	3998.03	-169.14	-2.39	3.45	169.16	180.81	2.12	1.98
32	4,105	15.00	188.70	4090.02	-192.61	-5.74	6.95	192.69	181.71	1.20	1.16
33	4,295	14.50	189.50	4273.76	-240.37	-13.38	14.89	240.75	183.19	0.28	-0.26

Company:	Matador Production Company					
Well Name:	Brantley State COM 13-24S-27E RB 205H					
Location:	Eddy County, NM					
Rig:	Patterson #810	Magnetic Declination:	7.10	REFERENCED TO GRID NORTH		
Job Number:	DDMO-180335					
API #:	30-015-44742					
Vertical Section Azimuth:	269.64	Proposed Direction:	269.64			
Survey Calculation Method:	Minimum Curvature					

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	14,337	95.5	269	9157.73	-645.86	-5318.84	5322.79

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Closure Azm	DLS/100	BUR/100'
34	4,486	13.40	188.10	4459.12	-285.87	-20.45	22.24	286.60	184.09	0.60	-0.58
35	4,676	14.60	185.20	4643.48	-331.52	-25.72	27.80	332.51	184.44	0.73	0.63
36	4,867	13.40	186.80	4828.80	-377.47	-30.52	32.89	378.70	184.62	0.66	-0.63
37	5,057	11.80	188.20	5014.22	-418.56	-35.90	38.53	420.10	184.90	0.86	-0.84
38	5,248	11.80	184.70	5201.18	-457.36	-40.29	43.16	459.13	185.03	0.37	0.00
39	5,441	9.90	184.60	5390.73	-493.56	-43.24	46.34	495.45	185.01	0.98	-0.98
40	5,631	9.00	183.10	5578.15	-524.68	-45.35	48.64	526.64	184.94	0.49	-0.47
41	5,821	6.90	185.10	5766.31	-550.89	-47.17	50.63	552.91	184.89	1.11	-1.11
42	6,011	3.30	170.50	5955.53	-567.66	-47.28	50.85	569.63	184.76	2.00	-1.89
43	6,201	1.00	217.50	6145.40	-574.37	-47.39	50.99	576.32	184.72	1.43	-1.21
44	6,391	1.40	251.70	6335.36	-576.42	-50.60	54.22	578.63	185.02	0.42	0.21
45	6,580	0.20	44.10	6524.34	-576.91	-52.56	56.19	579.29	185.21	0.84	-0.63
46	6,770	0.30	106.10	6714.34	-576.80	-51.85	55.48	579.13	185.14	0.14	0.05
47	6,958	0.70	91.50	6902.33	-576.97	-50.23	53.86	579.15	184.98	0.22	0.21
48	7,148	0.30	26.00	7092.33	-576.55	-48.85	52.48	578.62	184.84	0.34	-0.21
49	7,339	0.70	239.10	7283.32	-576.70	-49.64	53.26	578.84	184.92	0.51	0.21
50	7,529	1.00	235.30	7473.30	-578.24	-52.00	55.63	580.58	185.14	0.16	0.16
51	7,719	1.80	187.70	7663.25	-582.15	-53.76	57.41	584.62	185.28	0.71	0.42
52	7,909	0.40	140.70	7853.21	-585.62	-53.74	57.42	588.08	185.24	0.82	-0.74
53	8,099	0.80	72.20	8043.20	-585.72	-52.05	55.73	588.03	185.08	0.40	0.21
54	8,289	0.60	96.00	8233.19	-585.42	-49.80	53.48	587.54	184.86	0.18	-0.11
55	8,479	0.30	280.60	8423.18	-585.43	-49.30	52.98	587.51	184.81	0.47	-0.16
56	8,661	1.10	182.80	8605.17	-587.09	-49.86	53.54	589.21	184.85	0.65	0.44
57	8,773	1.70	241.70	8717.14	-588.95	-51.37	55.07	591.19	184.98	1.31	0.54
58	8,821	8.70	271.50	8764.92	-589.20	-55.63	59.33	591.82	185.39	15.15	14.58
59	8,868	16.20	279.00	8810.79	-588.08	-65.68	69.37	591.73	186.37	16.29	15.96
60	8,916	22.30	288.40	8856.09	-584.15	-80.95	84.62	589.73	187.89	14.22	12.71
61	8,963	26.50	288.00	8898.88	-578.09	-99.39	103.02	586.57	189.76	8.94	8.94
62	9,011	31.40	286.20	8940.87	-571.29	-121.60	125.18	584.09	192.02	10.37	10.21
63	9,058	34.70	284.30	8980.27	-564.57	-146.33	149.87	583.22	194.53	7.36	7.02
64	9,106	38.80	280.80	9018.72	-558.37	-174.35	177.86	584.96	197.34	9.59	8.54
65	9,153	43.10	275.20	9054.22	-554.15	-204.83	208.31	590.80	200.29	12.02	9.15
66	9,201	47.80	271.80	9087.89	-552.11	-238.96	242.42	601.60	203.40	11.01	9.79
67	9,248	52.90	268.20	9117.88	-552.15	-275.12	278.59	616.90	206.49	12.35	10.85

Company:	Matador Production Company		
Well Name:	Brantley State COM 13-24S-27E RB 205H		
Location:	Eddy County, NM		
Rig:	Patterson #810	Magnetic Declination:	7.10 REFERENCED TO GRID NORTH
Job Number:	DDMO-180335		
API #:	30-015-44742		
Vertical Section Azimuth:	269.64	Proposed Direction:	269.64
Survey Calculation Method:	Minimum Curvature		

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	14,337	95.5	269	9157.73	-645.86	-5318.84	5322.79

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/100	BUR/100'
								Distance	Azimuth		
68	9,296	57.60	267.20	9145.23	-553.74	-314.52	317.99	636.83	209.60	9.94	9.79
69	9,343	60.30	265.70	9169.47	-556.24	-354.70	358.19	659.71	212.52	6.36	5.74
70	9,391	63.50	267.30	9192.08	-558.82	-396.96	400.46	685.46	215.39	7.29	6.67
71	9,438	69.10	268.20	9210.96	-560.50	-439.94	443.46	712.54	218.13	12.04	11.91
72	9,491	73.40	268.20	9228.00	-562.08	-490.09	493.62	745.73	221.09	8.11	8.11
73	9,516	73.80	271.90	9235.06	-562.05	-514.07	517.59	761.69	222.45	14.29	1.60
74	9,620	78.00	272.10	9260.39	-558.53	-614.85	618.35	830.67	227.75	4.04	4.04
75	9,667	79.40	271.10	9269.60	-557.25	-660.92	664.41	864.49	229.86	3.64	2.98
76	9,714	81.60	269.60	9277.35	-556.97	-707.27	710.76	900.25	231.78	5.64	4.68
77	9,762	87.70	270.50	9281.83	-556.92	-755.04	758.53	938.22	233.59	12.84	12.71
78	9,856	95.00	270.90	9279.61	-555.77	-848.94	852.42	1014.69	236.79	7.78	7.77
79	9,950	93.50	269.40	9272.65	-555.53	-942.68	946.15	1094.19	239.49	2.25	-1.60
80	10,044	89.30	267.20	9270.35	-558.32	-1036.58	1040.07	1177.38	241.69	5.04	-4.47
81	10,138	88.40	266.80	9272.24	-563.24	-1130.44	1133.95	1262.98	243.52	1.05	-0.96
82	10,232	88.90	267.30	9274.45	-568.07	-1224.28	1227.83	1349.66	245.11	0.75	0.53
83	10,327	91.10	267.00	9274.45	-572.80	-1319.16	1322.73	1438.15	246.53	2.34	2.32
84	10,420	89.30	267.20	9274.13	-577.50	-1412.04	1415.64	1525.57	247.76	1.95	-1.94
85	10,515	89.10	267.30	9275.45	-582.06	-1506.92	1510.55	1615.42	248.88	0.24	-0.21
86	10,609	88.50	266.50	9277.42	-587.14	-1600.76	1604.42	1705.04	249.86	1.06	-0.64
87	10,703	88.40	267.20	9279.97	-592.31	-1694.58	1698.27	1795.11	250.73	0.75	-0.11
88	10,797	89.30	268.70	9281.85	-595.67	-1788.50	1792.21	1885.09	251.58	1.86	0.96
89	10,891	87.60	271.50	9284.40	-595.50	-1882.45	1886.16	1974.40	252.45	3.48	-1.81
90	10,985	89.90	273.70	9286.45	-591.24	-1976.32	1980.00	2062.86	253.34	3.39	2.45
91	11,079	91.30	273.10	9285.46	-585.67	-2070.15	2073.79	2151.40	254.20	1.62	1.49
92	11,173	93.70	273.40	9281.36	-580.34	-2163.90	2167.50	2240.37	254.99	2.57	2.55
93	11,267	94.90	274.60	9274.31	-573.80	-2257.40	2260.96	2329.19	255.74	1.80	1.28
94	11,361	94.20	273.80	9266.86	-566.94	-2350.85	2354.37	2418.25	256.44	1.13	-0.74
95	11,455	92.00	271.00	9261.77	-563.02	-2444.62	2448.11	2508.62	257.03	3.78	-2.34
96	11,549	92.50	269.30	9258.08	-562.77	-2538.54	2542.03	2600.18	257.50	1.88	0.53
97	11,643	92.10	269.40	9254.31	-563.83	-2632.46	2635.95	2692.17	257.91	0.44	-0.43
98	11,737	92.60	270.80	9250.46	-563.67	-2726.38	2729.87	2784.04	258.32	1.58	0.53
99	11,832	92.30	270.40	9246.39	-562.68	-2821.29	2824.77	2876.85	258.72	0.53	-0.32
100	11,925	88.00	268.60	9246.15	-563.49	-2914.26	2917.74	2968.23	259.06	5.01	-4.62
101	12,020	90.10	268.40	9247.73	-565.97	-3009.21	3012.70	3061.97	259.35	2.22	2.21



SURVEY CALCULATION PROGRAM

5/22/18 12:06

V09.04.02

Company:	Matador Production Company	
Well Name:	Brantley State COM 13-24S-27E RB 205H	
Location:	Eddy County, NM	
Rig:	Patterson #810	Magnetic Declination: 7.10 REFERENCED TO GRID NORTH
Job Number:	DDMO-180335	
API #:	30-015-44742	
Vertical Section Azimuth:	269.64	Proposed Direction: 269.64
Survey Calculation Method:	Minimum Curvature	

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS				
	14,337	95.5	269	9157.73	-645.86	-5318.84	5322.79				
#	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	12,114	91.30	267.90	9246.58	-569.01	-3103.15	3106.66	3154.89	259.61	1.38	1.28
103	12,208	92.80	268.40	9243.21	-572.04	-3197.04	3200.57	3247.81	259.86	1.68	1.60
104	12,303	93.10	268.90	9238.33	-574.28	-3291.88	3295.43	3341.60	260.10	0.61	0.32
105	12,397	92.00	268.10	9234.14	-576.74	-3385.76	3389.31	3434.53	260.33	1.45	-1.17
106	12,491	91.20	268.30	9231.52	-579.69	-3479.67	3483.25	3527.63	260.54	0.88	-0.85
107	12,586	89.50	267.30	9230.94	-583.33	-3574.60	3578.19	3621.88	260.73	2.08	-1.79
108	12,680	90.30	269.90	9231.10	-585.63	-3668.56	3672.17	3715.01	260.93	2.89	0.85
109	12,774	89.90	270.90	9230.94	-584.97	-3762.56	3766.16	3807.76	261.16	1.15	-0.43
110	12,869	95.50	272.20	9226.46	-582.41	-3857.38	3860.96	3901.10	261.41	6.05	5.89
111	12,962	98.80	270.40	9214.89	-580.31	-3949.61	3953.18	3992.02	261.64	4.03	3.55
112	13,056	99.40	267.70	9200.02	-581.85	-4042.41	4045.98	4084.07	261.81	2.91	0.64
113	13,151	95.10	265.70	9188.03	-587.28	-4136.46	4140.07	4177.95	261.92	4.98	-4.53
114	13,245	94.10	265.90	9180.49	-594.14	-4229.91	4233.56	4271.43	262.00	1.08	-1.06
115	13,339	85.90	264.70	9180.49	-601.84	-4323.51	4327.21	4365.20	262.08	8.82	-8.72
116	13,433	85.30	264.70	9187.71	-610.49	-4416.83	4420.58	4458.82	262.13	0.64	-0.64
117	13,527	90.70	266.80	9190.99	-617.45	-4510.48	4514.27	4552.54	262.21	6.16	5.74
118	13,622	89.00	267.30	9191.23	-622.34	-4605.35	4609.17	4647.21	262.30	1.87	-1.79
119	13,716	90.50	267.40	9191.64	-626.69	-4699.24	4703.09	4740.85	262.40	1.60	1.60
120	13,811	91.40	268.00	9190.07	-630.50	-4794.15	4798.02	4835.43	262.51	1.14	0.95
121	13,905	93.20	267.90	9186.30	-633.86	-4888.01	4891.90	4928.94	262.61	1.92	1.91
122	13,999	92.70	268.10	9181.46	-637.13	-4981.83	4985.73	5022.41	262.71	0.57	-0.53
123	14,094	93.20	268.00	9176.57	-640.36	-5076.65	5080.57	5116.88	262.81	0.54	0.53
124	14,188	94.30	268.70	9170.42	-643.06	-5170.41	5174.34	5210.24	262.91	1.39	1.17
125	14,266	94.90	269.00	9164.17	-644.62	-5248.14	5252.09	5287.58	263.00	0.86	0.77
PTB:	14,337	95.50	269.00	9157.73	-645.86	-5318.84	5322.79	5357.90	263.08	0.85	0.85