

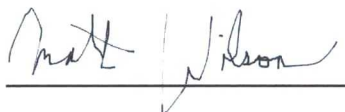
MS Energy Services Survey Data Certification

MS Energy Job Number: DDMO-170811
Survey Type: MWD
Operating Company: Devon Energy Production Company LP
Well Name & Number: Arabian 30-19 FED COM 3H
Location: Lea County, NM
API Number: 30-025-43774
Tie In Depth: 1,061' MD
Surveyed Depths: 1,166' – 17,889' MD
Projected TD Survey: 17,940' MD
Dates Performed: 08/21/2017 – 09/08/2017

HOBBS OCD
DEC 18 2017
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I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Energy Services; 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 Energy Services.

Digitally signed by:



MWD Surveyor Name:

Matt Wilson

Date:

10-10-2017

Email:

mwilson@msenergyservices.com

Company:		Devon Energy Production Company LP					
Well Name:		Arabian 30-19 FED COM 3H					
Location:		Lea County, NM					
Rig:		Cactus #126				Magnetic Declination:	6
Job Number:		DDMO-170811					
API #:		30-025-43774					
Vertical Section Azimuth:				0.00		Proposed Direction:	0
Survey Calculation Method:				Minimum Curvature			
PTB:	MD	INC		AZM	TVD	N/S	
	17,940	89.7		0.1	10436.07	7571.95	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec
TIE IN	1,061	1.50	332.69	1060.93	7.46	0.56	7.46
1	1,166	1.70	345.40	1165.89	10.19	-0.46	10.19
2	1,260	1.70	342.20	1259.85	12.87	-1.24	12.87
3	1,354	1.60	346.60	1353.81	15.47	-1.97	15.47
4	1,448	1.30	346.30	1447.78	17.78	-2.53	17.78
5	1,542	1.20	340.40	1541.76	19.75	-3.11	19.75
6	1,636	1.10	339.10	1635.74	21.52	-3.76	21.52
7	1,730	0.80	336.70	1729.72	22.96	-4.34	22.96
8	1,824	0.60	334.10	1823.72	24.01	-4.82	24.01
9	1,918	0.60	332.90	1917.71	24.89	-5.26	24.89
10	2,012	0.50	318.40	2011.71	25.63	-5.75	25.63
11	2,106	0.60	295.10	2105.70	26.15	-6.47	26.15
12	2,200	1.00	261.90	2199.69	26.24	-7.73	26.24
13	2,294	1.60	247.30	2293.67	25.62	-9.75	25.62
14	2,388	2.40	249.50	2387.61	24.42	-12.81	24.42
15	2,482	3.30	255.10	2481.50	23.04	-17.27	23.04
16	2,576	4.40	254.40	2575.28	21.37	-23.35	21.37
17	2,670	5.00	253.50	2668.97	19.24	-30.75	19.24
18	2,764	5.90	250.50	2762.54	16.46	-39.24	16.46
19	2,858	6.80	247.10	2855.96	12.69	-48.92	12.69
20	2,952	6.30	249.30	2949.35	8.70	-58.87	8.70
21	3,046	6.70	251.30	3042.74	5.12	-68.89	5.12
22	3,141	6.90	254.10	3137.08	1.78	-79.62	1.78
23	3,235	6.30	254.90	3230.45	-1.12	-90.03	-1.12
24	3,329	6.60	256.20	3323.86	-3.75	-100.26	-3.75
25	3,423	7.50	257.40	3417.15	-6.37	-111.49	-6.37
26	3,517	7.20	259.00	3510.37	-8.84	-123.26	-8.84
27	3,611	6.80	261.10	3603.67	-10.82	-134.54	-10.82
28	3,705	7.00	260.00	3696.99	-12.68	-145.68	-12.68
29	3,799	6.40	258.10	3790.35	-14.75	-156.45	-14.75
30	3,893	6.40	255.60	3883.76	-17.14	-166.65	-17.14
31	3,987	7.50	257.00	3977.07	-19.82	-177.70	-19.82
32	4,081	7.20	256.00	4070.30	-22.62	-189.40	-22.62
33	4,175	7.10	254.90	4163.57	-25.56	-200.72	-25.56

10/14/2022

Company:	Devon Energy Production Company LP			Magnetic Declination:	6
Well Name:	Arabian 30-19 FED COM 3H				
Location:	Lea County, NM				
Rig:	Cactus #126				
Job Number:	DDMO-170811				
API #:	30-025-43774				

Vertical Section Azimuth:	0.00	Proposed Direction:	0
Survey Calculation Method:	Minimum Curvature		

PTB:	MD	INC	AZM	TVD	N/S
	17,940	89.7	0.1	10436.07	7571.95

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec
34	4,269	7.30	259.20	4256.83	-28.19	-212.19	-28.19
35	4,369	7.00	265.60	4356.05	-29.85	-224.51	-29.85
36	4,463	6.50	265.40	4449.40	-30.72	-235.53	-30.72
37	4,557	7.20	269.70	4542.73	-31.18	-246.72	-31.18
38	4,651	7.30	270.20	4635.98	-31.19	-258.58	-31.19
39	4,745	7.10	271.10	4729.24	-31.05	-270.36	-31.05
40	4,839	6.80	270.90	4822.55	-30.85	-281.73	-30.85
41	4,933	6.50	271.80	4915.91	-30.60	-292.62	-30.60
42	5,027	6.50	272.30	5009.31	-30.22	-303.25	-30.22
43	5,121	7.40	270.80	5102.62	-29.92	-314.62	-29.92
44	5,215	7.60	269.40	5195.81	-29.90	-326.89	-29.90
45	5,309	7.50	268.70	5289.00	-30.11	-339.24	-30.11
46	5,403	7.10	266.30	5382.24	-30.62	-351.17	-30.62
47	5,497	6.70	265.40	5475.56	-31.43	-362.43	-31.43
48	5,591	7.10	266.20	5568.87	-32.26	-373.69	-32.26
49	5,685	7.30	266.20	5662.13	-33.04	-385.45	-33.04
50	5,779	7.10	265.50	5755.39	-33.89	-397.20	-33.89
51	5,873	7.00	266.50	5848.68	-34.70	-408.71	-34.70
52	5,967	6.70	265.80	5942.01	-35.45	-419.89	-35.45
53	6,061	7.80	269.00	6035.26	-35.96	-431.74	-35.96
54	6,155	7.60	267.80	6128.41	-36.31	-444.33	-36.31
55	6,249	7.00	266.80	6221.65	-36.87	-456.26	-36.87
56	6,343	6.80	266.50	6314.97	-37.53	-467.53	-37.53
57	6,438	7.00	264.80	6409.28	-38.40	-478.91	-38.40
58	6,532	6.90	263.50	6502.59	-39.56	-490.23	-39.56
59	6,626	7.70	267.20	6595.83	-40.50	-502.13	-40.50
60	6,720	7.60	265.80	6688.99	-41.27	-514.62	-41.27
61	6,813	7.30	265.80	6781.20	-42.15	-526.64	-42.15
62	6,907	6.60	264.30	6874.51	-43.12	-537.97	-43.12
63	7,002	6.40	265.40	6968.90	-44.09	-548.68	-44.09
64	7,096	6.10	267.00	7062.34	-44.77	-558.89	-44.77
65	7,190	6.40	266.90	7155.79	-45.32	-569.11	-45.32
66	7,284	6.20	265.50	7249.22	-46.00	-579.41	-46.00
67	7,378	5.60	264.30	7342.72	-46.85	-589.03	-46.85

Company:	Devon Energy Production Company LP				
Well Name:	Arabian 30-19 FED COM 3H				
Location:	Lea County, NM				
Rig:	Cactus #126			Magnetic Declination:	6
Job Number:	DDMO-170811				
API #:	30-025-43774				

Vertical Section Azimuth:	0.00	Proposed Direction:	0
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Survey Calculation Method:	Minimum Curvature
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PTB:	MD	INC	AZM	TVD	N/S
	17,940	89.7	0.1	10436.07	7571.95

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec
68	7,472	6.30	267.00	7436.21	-47.58	-598.74	-47.58
69	7,566	6.00	267.60	7529.67	-48.05	-608.80	-48.05
70	7,660	5.40	266.50	7623.21	-48.53	-618.13	-48.53
71	7,754	5.20	264.80	7716.80	-49.18	-626.78	-49.18
72	7,848	5.90	265.10	7810.36	-49.98	-635.84	-49.98
73	7,942	5.70	266.20	7903.88	-50.70	-645.31	-50.70
74	8,036	5.30	265.10	7997.45	-51.39	-654.29	-51.39
75	8,130	4.80	263.20	8091.08	-52.22	-662.52	-52.22
76	8,224	4.50	261.70	8184.77	-53.22	-670.08	-53.22
77	8,318	4.20	262.20	8278.50	-54.22	-677.14	-54.22
78	8,412	3.90	262.50	8372.27	-55.10	-683.72	-55.10
79	8,506	2.80	257.10	8466.11	-56.03	-689.13	-56.03
80	8,600	2.90	256.30	8559.99	-57.11	-693.67	-57.11
81	8,694	2.00	262.90	8653.90	-57.87	-697.61	-57.87
82	8,788	0.80	270.20	8747.87	-58.08	-699.90	-58.08
83	8,882	0.70	280.60	8841.87	-57.97	-701.12	-57.97
84	8,976	0.30	298.00	8935.86	-57.75	-701.90	-57.75
85	9,070	0.20	178.80	9029.86	-57.79	-702.11	-57.79
86	9,164	0.80	167.80	9123.86	-58.60	-701.97	-58.60
87	9,259	0.40	196.60	9218.85	-59.57	-701.92	-59.57
88	9,352	0.90	202.80	9311.85	-60.55	-702.30	-60.55
89	9,446	0.90	207.00	9405.83	-61.89	-702.92	-61.89
90	9,540	1.00	216.60	9499.82	-63.21	-703.75	-63.21
91	9,635	1.00	211.20	9594.81	-64.58	-704.67	-64.58
92	9,715	0.50	214.00	9674.80	-65.47	-705.23	-65.47
93	9,810	1.00	211.70	9769.79	-66.52	-705.89	-66.52
94	9,904	0.50	179.70	9863.78	-67.62	-706.32	-67.62
95	9,998	0.70	65.70	9957.78	-67.80	-705.80	-67.80
96	10,092	10.50	14.60	10051.23	-59.25	-703.11	-59.25
97	10,186	20.90	17.80	10141.60	-34.93	-695.80	-34.93
98	10,280	31.40	14.90	10225.87	4.81	-684.35	4.81
99	10,374	42.20	8.11	10301.05	59.92	-673.56	59.92
100	10,468	53.90	4.50	10363.79	129.28	-666.10	129.28
101	10,562	62.80	0.20	10413.09	209.13	-662.97	209.13

Company:	Devon Energy Production Company LP			
Well Name:	Arabian 30-19 FED COM 3H			
Location:	Lea County, NM			
Rig:	Cactus #126			Magnetic Declination: 6
Job Number:	DDMO-170811			
API #:	30-025-43774			

Vertical Section Azimuth:	0.00	Proposed Direction:	0
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Survey Calculation Method:	Minimum Curvature			
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PTB:	MD	INC	AZM	TVD	N/S
	17,940	89.7	0.1	10436.07	7571.95

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec
102	10,656	70.40	0.90	10450.39	295.33	-662.13	295.33
103	10,750	78.20	2.90	10475.81	385.70	-659.10	385.70
104	10,782	82.60	2.30	10481.14	417.21	-657.67	417.21
105	10,873	89.20	0.60	10487.65	507.90	-655.38	507.90
106	10,967	89.50	358.80	10488.71	601.88	-655.87	601.88
107	11,061	89.80	359.10	10489.29	695.87	-657.59	695.87
108	11,155	90.10	359.40	10489.37	789.86	-658.82	789.86
109	11,249	91.00	358.60	10488.47	883.84	-660.46	883.84
110	11,344	91.90	358.80	10486.06	978.78	-662.62	978.78
111	11,438	92.50	358.00	10482.46	1072.67	-665.24	1072.67
112	11,532	91.70	357.90	10479.01	1166.55	-668.60	1166.55
113	11,625	90.30	358.00	10477.39	1259.47	-671.93	1259.47
114	11,720	89.60	356.90	10477.47	1354.38	-676.15	1354.38
115	11,814	90.60	357.20	10477.31	1448.25	-680.99	1448.25
116	11,908	89.50	356.50	10477.23	1542.11	-686.16	1542.11
117	12,002	90.20	357.00	10477.47	1635.96	-691.48	1635.96
118	12,096	90.00	358.70	10477.31	1729.89	-695.01	1729.89
119	12,190	90.60	359.20	10476.81	1823.87	-696.73	1823.87
120	12,284	88.80	359.80	10477.31	1917.86	-697.55	1917.86
121	12,378	88.50	0.10	10479.52	2011.83	-697.64	2011.83
122	12,472	88.70	0.20	10481.82	2105.80	-697.39	2105.80
123	12,566	89.30	0.90	10483.46	2199.78	-696.49	2199.78
124	12,660	89.10	0.10	10484.77	2293.77	-695.67	2293.77
125	12,754	90.20	0.90	10485.35	2387.76	-694.85	2387.76
126	12,848	89.50	0.30	10485.59	2481.76	-693.86	2481.76
127	12,942	90.10	1.40	10485.92	2575.74	-692.47	2575.74
128	13,036	90.10	1.40	10485.76	2669.72	-690.17	2669.72
129	13,130	91.00	2.00	10484.85	2763.67	-687.38	2763.67
130	13,224	89.50	0.90	10484.44	2857.63	-685.01	2857.63
131	13,318	90.40	0.60	10484.53	2951.62	-683.77	2951.62
132	13,413	91.00	0.80	10483.36	3046.61	-682.61	3046.61
133	13,507	88.20	359.40	10484.02	3140.60	-682.45	3140.60
134	13,601	88.70	359.80	10486.56	3234.56	-683.11	3234.56
135	13,695	89.60	0.60	10487.96	3328.55	-682.78	3328.55

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Company:		Devon Energy Production Company LP					
Well Name:		Arabian 30-19 FED COM 3H					
Location:		Lea County, NM					
Rig:		Cactus #126				Magnetic Declination:	6
Job Number:		DDMO-170811					
API #:		30-025-43774					
Vertical Section Azimuth:				0.00		Proposed Direction:	0
Survey Calculation Method:				Minimum Curvature			
PTB:	MD	INC		AZM	TVD	N/S	
	17,940	89.7		0.1	10436.07	7571.95	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec
136	13,788	90.20	0.80	10488.12	3421.54	-681.64	3421.54
137	13,882	90.60	0.30	10487.46	3515.53	-680.74	3515.53
138	13,977	91.70	0.90	10485.56	3610.51	-679.74	3610.51
139	14,070	91.20	359.90	10483.20	3703.47	-679.10	3703.47
140	14,165	90.90	0.00	10481.46	3798.46	-679.18	3798.46
141	14,259	90.40	358.70	10480.40	3892.44	-680.24	3892.44
142	14,352	89.50	357.40	10480.48	3985.38	-683.41	3985.38
143	14,446	90.50	358.70	10480.48	4079.33	-686.61	4079.33
144	14,540	92.10	359.80	10478.35	4173.29	-687.84	4173.29
145	14,634	90.50	358.40	10476.21	4267.25	-689.31	4267.25
146	14,728	89.50	358.80	10476.21	4361.22	-691.61	4361.22
147	14,822	90.00	359.20	10476.62	4455.20	-693.25	4455.20
148	14,916	87.50	0.10	10478.67	4549.17	-693.83	4549.17
149	15,010	87.90	359.50	10482.45	4643.09	-694.15	4643.09
150	15,104	89.00	0.80	10484.99	4737.06	-693.91	4737.06
151	15,198	89.70	1.60	10486.05	4831.03	-691.94	4831.03
152	15,292	90.00	2.10	10486.30	4924.98	-688.90	4924.98
153	15,386	90.70	2.20	10485.73	5018.91	-685.38	5018.91
154	15,480	91.00	1.40	10484.33	5112.85	-682.43	5112.85
155	15,575	90.60	359.50	10483.01	5207.84	-681.68	5207.84
156	15,669	91.00	0.30	10481.69	5301.83	-681.84	5301.83
157	15,763	91.30	0.10	10479.81	5395.81	-681.52	5395.81
158	15,857	92.10	0.10	10477.02	5489.76	-681.35	5489.76
159	15,951	92.50	1.30	10473.25	5583.68	-680.20	5583.68
160	16,045	93.00	1.10	10468.74	5677.55	-678.24	5677.55
161	16,139	92.00	359.90	10464.64	5771.45	-677.42	5771.45
162	16,234	90.00	358.50	10462.98	5866.42	-678.75	5866.42
163	16,328	90.50	359.30	10462.57	5960.40	-680.55	5960.40
164	16,422	90.60	359.90	10461.66	6054.40	-681.21	6054.40
165	16,516	90.80	359.80	10460.52	6148.39	-681.45	6148.39
166	16,610	91.30	359.80	10458.79	6242.37	-681.78	6242.37
167	16,704	92.30	0.60	10455.84	6336.32	-681.45	6336.32
168	16,798	92.80	0.80	10451.66	6430.22	-680.31	6430.22
169	16,892	91.70	0.00	10447.97	6524.15	-679.65	6524.15

Company:		Devon Energy Production Company LP					
Well Name:		Arabian 30-19 FED COM 3H					
Location:		Lea County, NM					
Rig:		Cactus #126				Magnetic Declination:	6
Job Number:		DDMO-170811					
API #:		30-025-43774					
Vertical Section Azimuth:				0.00		Proposed Direction:	0
Survey Calculation Method:				Minimum Curvature			
PTB:	MD	INC		AZM	TVD	N/S	
	17,940	89.7		0.1	10436.07	7571.95	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec
170	16,986	91.60	359.20	10445.26	6618.10	-680.31	6618.10
171	17,080	91.70	359.30	10442.56	6712.06	-681.54	6712.06
172	17,175	91.30	359.40	10440.07	6807.02	-682.61	6807.02
173	17,269	91.40	359.10	10437.85	6900.98	-683.84	6900.98
174	17,363	90.00	359.30	10436.71	6994.97	-685.16	6994.97
175	17,457	90.40	359.20	10436.38	7088.96	-686.39	7088.96
176	17,551	90.20	359.60	10435.89	7182.95	-687.37	7182.95
177	17,645	90.30	0.10	10435.48	7276.95	-687.62	7276.95
178	17,739	89.90	0.10	10435.31	7370.95	-687.45	7370.95
179	17,833	89.80	0.20	10435.56	7464.95	-687.21	7464.95
180	17,889	89.70	0.10	10435.80	7520.95	-687.06	7520.95