



HOBBS OCD
JUL 31 2017
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Survey Company: MS Energy Services
MWD Surveyor Name: Josh Mirelez
Survey Type: MWD
Operating Company: Devon Energy Production Company, LP
Well Name & Number: Chincoteague 32 State COM 005H
API Number: 30-025-42264
Surveyed Depths: 155' – 15,464' MD; PTB: 15,521'
Dates Performed: 04/13/2017 – 05/05/2017
Location: Lea County, NM
Job Number: DDMO-170330

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:

Title: MWD Field Specialist

Date: 05-17-2017

Email: jmirelez@msenergyservices.com



SURVEY CALCULATION PROGRAM

5/17/17 15:20

Company:		Devon Energy Production Company, LP												
Well Name:		Chincoteague 32 State COM 005H												
Location:		Lea County, NM												
Rig:		Independence #217					Magnetic Declination:		6.74			REFERENCED TO GRID NORTH		
Job Number:		DDMO-170330												
API #:		30-025-42264												
Vertical Section Azimuth:				360.00			Proposed Direction:		360.00					
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,521		85.2		358.8		10692.13		4826.22		-1127.41		4826.22	
#	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	155	0.80	75.60	154.99	0.27	1.05	0.27	1.08	75.60	0.52	0.52			
2	246	0.80	74.90	245.99	0.59	2.28	0.59	2.35	75.41	0.01	0.00			
3	339	1.10	82.30	338.97	0.88	3.79	0.88	3.89	76.90	0.35	0.32			
4	432	1.50	80.30	431.95	1.21	5.87	1.21	6.00	78.40	0.43	0.43			
5	524	1.50	82.10	523.92	1.57	8.25	1.57	8.40	79.20	0.05	0.00			
6	618	1.60	91.90	617.88	1.70	10.78	1.70	10.92	81.04	0.30	0.11			
7	712	1.70	94.30	711.84	1.55	13.48	1.55	13.57	83.43	0.13	0.11			
8	792	1.80	89.50	791.81	1.47	15.92	1.47	15.99	84.71	0.22	0.13			
9	987	1.40	93.30	986.73	1.36	21.36	1.36	21.41	86.35	0.21	-0.21			
10	1,080	0.40	60.40	1079.72	1.46	22.78	1.46	22.83	86.34	1.17	-1.08			
11	1,172	0.40	16.10	1171.72	1.93	23.15	1.93	23.23	85.24	0.33	0.00			
12	1,264	1.10	339.10	1263.71	3.06	22.92	3.06	23.13	82.40	0.89	0.76			
13	1,357	1.10	336.00	1356.69	4.71	22.24	4.71	22.74	78.05	0.06	0.00			
14	1,449	1.10	310.10	1448.67	6.08	21.21	6.08	22.06	73.99	0.54	0.00			
15	1,542	1.40	282.30	1541.65	6.90	19.41	6.90	20.60	70.43	0.72	0.32			
16	1,637	2.30	266.40	1636.60	7.03	16.38	7.03	17.82	66.77	1.08	0.95			
17	1,732	2.80	270.10	1731.51	6.91	12.16	6.91	13.98	60.37	0.55	0.53			
18	1,827	3.80	271.30	1826.35	6.99	6.69	6.99	9.67	43.74	1.06	1.05			
19	1,922	4.80	264.70	1921.08	6.69	-0.42	6.69	6.71	356.43	1.17	1.05			
20	2,017	5.30	265.00	2015.71	5.94	-8.75	5.94	10.57	304.20	0.53	0.53			
21	2,112	6.10	257.70	2110.24	4.49	-18.05	4.49	18.60	283.96	1.13	0.84			
22	2,207	6.80	257.00	2204.64	2.15	-28.46	2.15	28.54	274.31	0.74	0.74			
23	2,302	7.60	254.90	2298.89	-0.76	-40.01	-0.76	40.01	268.92	0.89	0.84			
24	2,397	8.10	252.90	2393.00	-4.36	-52.47	-4.36	52.65	265.25	0.60	0.53			
25	2,492	9.10	251.60	2486.93	-8.70	-65.99	-8.70	66.57	262.49	1.07	1.05			
26	2,586	9.70	254.50	2579.67	-13.16	-80.68	-13.16	81.75	260.73	0.81	0.64			
27	2,681	9.80	253.50	2673.30	-17.60	-96.14	-17.60	97.74	259.63	0.21	0.11			
28	2,776	10.10	257.30	2766.87	-21.73	-112.02	-21.73	114.11	259.02	0.76	0.32			
29	2,871	10.30	257.70	2860.37	-25.37	-128.45	-25.37	130.93	258.83	0.22	0.21			
30	2,965	10.40	256.30	2952.84	-29.17	-144.90	-29.17	147.81	258.62	0.29	0.11			
31	3,061	9.80	258.50	3047.35	-32.85	-161.32	-32.85	164.63	258.49	0.74	-0.63			
32	3,156	9.80	258.20	3140.97	-36.11	-177.16	-36.11	180.80	258.48	0.05	0.00			
33	3,251	9.80	256.30	3234.58	-39.68	-192.93	-39.68	196.97	258.38	0.34	0.00			



SURVEY CALCULATION PROGRAM

5/17/17 15:20

Company: Devon Energy Production Company, LP
 Well Name: Chincoteague 32 State COM 005H
 Location: Lea County, NM
 Rig: Independence #217
 Job Number: DDMO-170330
 API #: 30-025-42264

Magnetic Declination: 6.74 REFERENCED TO GRID NORTH

Vertical Section Azimuth: 360.00 Proposed Direction: 360.00

Survey Calculation Method: Minimum Curvature

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	15,521	85.2	358.8	10692.13	4826.22	-1127.41	4826.22

#	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	3,346	9.40	259.00	3328.25	-43.08	-208.40	-43.08	212.81	258.32	0.63	-0.42
35	3,441	9.30	259.20	3421.99	-45.99	-223.56	-45.99	228.24	258.37	0.11	-0.11
36	3,536	9.20	258.10	3515.75	-49.00	-238.53	-49.00	243.51	258.39	0.21	-0.11
37	3,631	9.10	256.30	3609.54	-52.34	-253.26	-52.34	258.61	258.32	0.32	-0.11
38	3,726	8.70	258.80	3703.40	-55.52	-267.60	-55.52	273.30	258.28	0.59	-0.42
39	3,821	8.60	257.10	3797.32	-58.50	-281.58	-58.50	287.59	258.26	0.29	-0.11
40	3,915	8.00	255.60	3890.33	-61.70	-294.76	-61.70	301.15	258.18	0.68	-0.64
41	4,010	7.90	253.70	3984.42	-65.17	-307.43	-65.17	314.26	258.03	0.30	-0.11
42	4,105	8.40	258.50	4078.46	-68.39	-320.50	-68.39	327.71	257.95	0.89	0.53
43	4,200	8.10	258.00	4172.48	-71.16	-333.84	-71.16	341.34	257.97	0.32	-0.32
44	4,295	7.80	255.60	4266.57	-74.16	-346.64	-74.16	354.48	257.92	0.47	-0.32
45	4,390	8.30	256.10	4360.63	-77.41	-359.54	-77.41	367.77	257.85	0.53	0.53
46	4,485	8.20	256.40	4454.65	-80.65	-372.78	-80.65	381.40	257.79	0.11	-0.11
47	4,578	8.30	255.30	4546.69	-83.91	-385.72	-83.91	394.74	257.73	0.20	0.11
48	4,673	8.30	262.20	4640.69	-86.58	-399.14	-86.58	408.42	257.76	1.05	0.00
49	4,768	8.50	268.00	4734.68	-87.76	-412.95	-87.76	422.17	258.00	0.92	0.21
50	4,863	8.30	267.20	4828.66	-88.34	-426.82	-88.34	435.86	258.31	0.24	-0.21
51	4,958	8.00	268.00	4922.70	-88.90	-440.27	-88.90	449.16	258.58	0.34	-0.32
52	5,053	7.80	267.10	5016.79	-89.46	-453.32	-89.46	462.06	258.84	0.25	-0.21
53	5,148	7.70	265.80	5110.93	-90.25	-466.10	-90.25	474.76	259.04	0.21	-0.11
54	5,243	7.70	264.80	5205.07	-91.30	-478.79	-91.30	487.42	259.20	0.14	0.00
55	5,338	7.70	264.60	5299.21	-92.47	-491.46	-92.47	500.09	259.34	0.03	0.00
56	5,433	7.40	263.60	5393.39	-93.75	-503.88	-93.75	512.53	259.46	0.34	-0.32
57	5,528	7.00	262.90	5487.64	-95.15	-515.70	-95.15	524.41	259.55	0.43	-0.42
58	5,623	8.40	266.90	5581.78	-96.24	-528.38	-96.24	537.07	259.68	1.58	1.47
59	5,718	8.50	268.00	5675.75	-96.86	-542.32	-96.86	550.90	259.87	0.20	0.11
60	5,813	8.10	266.70	5769.76	-97.49	-556.02	-97.49	564.50	260.06	0.47	-0.42
61	5,908	7.70	266.90	5863.85	-98.22	-569.06	-98.22	577.47	260.21	0.42	-0.42
62	6,003	7.50	266.00	5958.02	-99.00	-581.60	-99.00	589.96	260.34	0.24	-0.21
63	6,098	7.30	265.80	6052.23	-99.87	-593.80	-99.87	602.14	260.45	0.21	-0.21
64	6,193	8.20	265.70	6146.36	-100.82	-606.58	-100.82	614.90	260.56	0.95	0.95
65	6,287	9.50	263.00	6239.24	-102.27	-620.96	-102.27	629.33	260.65	1.45	1.38
66	6,382	9.00	263.60	6333.00	-104.05	-636.13	-104.05	644.58	260.71	0.54	-0.53
67	6,477	8.60	263.20	6426.89	-105.72	-650.57	-105.72	659.10	260.77	0.43	-0.42



SURVEY CALCULATION PROGRAM

5/17/17 15:20

Company:	Devon Energy Production Company, LP		
Well Name:	Chincoteague 32 State COM 005H		
Location:	Lea County, NM		
Rig:	Independence #217	Magnetic Declination:	6.74
Job Number:	DDMO-170330		
API #:	30-025-42264		
Vertical Section Azimuth:	360.00	Proposed Direction:	360.00

Survey Calculation Method:			Minimum Curvature								
PTB:	MD		INC		AZM	TVD	N/S	E/W	VS		
	15,521		85.2		358.8	10692.13	4826.22	-1127.41	4826.22		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Distance	Closure Azm	DLS/ 100'	BUR/ 100'
68	6,572	8.30	263.70	6520.85	-107.32	-664.43	-107.32	673.04	260.83	0.33	-0.32
69	6,667	8.20	264.30	6614.87	-108.74	-677.99	-108.74	686.66	260.89	0.14	-0.11
70	6,762	7.70	263.60	6708.96	-110.12	-691.06	-110.12	699.78	260.95	0.54	-0.53
71	6,857	7.50	262.90	6803.12	-111.60	-703.53	-111.60	712.33	260.99	0.23	-0.21
72	6,952	7.00	262.00	6897.36	-113.17	-715.42	-113.17	724.31	261.01	0.54	-0.53
73	7,047	8.60	263.40	6991.48	-114.79	-728.21	-114.79	737.20	261.04	1.70	1.68
74	7,142	9.40	261.40	7085.31	-116.77	-742.93	-116.77	752.06	261.07	0.90	0.84
75	7,237	9.10	261.10	7179.08	-119.09	-758.03	-119.09	767.33	261.07	0.32	-0.32
76	7,332	8.00	259.50	7273.02	-121.46	-771.95	-121.46	781.45	261.06	1.18	-1.16
77	7,427	8.50	262.20	7367.04	-123.62	-785.41	-123.62	795.08	261.06	0.67	0.53
78	7,522	7.80	262.00	7461.08	-125.47	-798.75	-125.47	808.54	261.07	0.74	-0.74
79	7,616	7.80	255.60	7554.21	-127.94	-811.24	-127.94	821.27	261.04	0.92	0.00
80	7,711	8.80	256.20	7648.21	-131.28	-824.54	-131.28	834.93	260.95	1.06	1.05
81	7,806	8.10	255.50	7742.18	-134.69	-838.08	-134.69	848.83	260.87	0.74	-0.74
82	7,901	7.60	254.10	7836.29	-138.08	-850.60	-138.08	861.74	260.78	0.56	-0.53
83	7,996	8.60	255.10	7930.34	-141.63	-863.51	-141.63	875.05	260.69	1.06	1.05
84	8,091	8.30	252.80	8024.31	-145.49	-876.92	-145.49	888.91	260.58	0.48	-0.32
85	8,186	8.60	259.90	8118.28	-148.76	-890.47	-148.76	902.81	260.52	1.14	0.32
86	8,281	8.30	256.30	8212.25	-151.63	-904.12	-151.63	916.75	260.48	0.64	-0.32
87	8,376	7.50	254.20	8306.35	-154.94	-916.75	-154.94	929.75	260.41	0.90	-0.84
88	8,471	8.50	257.90	8400.42	-158.10	-929.58	-158.10	942.93	260.35	1.18	1.05
89	8,566	7.90	257.20	8494.45	-161.02	-942.81	-161.02	956.46	260.31	0.64	-0.63
90	8,661	6.90	256.20	8588.66	-163.83	-954.72	-163.83	968.67	260.26	1.06	-1.05
91	8,756	6.90	257.20	8682.97	-166.45	-965.83	-166.45	980.06	260.22	0.13	0.00
92	8,851	7.70	254.10	8777.20	-169.46	-977.51	-169.46	992.09	260.17	0.94	0.84
93	8,946	6.90	256.50	8871.43	-172.54	-989.18	-172.54	1004.12	260.11	0.90	-0.84
94	9,041	7.60	265.00	8965.67	-174.42	-1000.99	-174.42	1016.07	260.12	1.35	0.74
95	9,136	6.60	263.70	9059.94	-175.56	-1012.67	-175.56	1027.78	260.16	1.07	-1.05
96	9,231	7.70	262.50	9154.20	-176.99	-1024.41	-176.99	1039.59	260.20	1.17	1.16
97	9,326	8.60	261.60	9248.24	-178.86	-1037.75	-178.86	1053.05	260.22	0.96	0.95
98	9,420	8.40	260.00	9341.21	-181.08	-1051.46	-181.08	1066.94	260.23	0.33	-0.21
99	9,515	7.90	258.30	9435.25	-183.61	-1064.69	-183.61	1080.40	260.22	0.58	-0.53
100	9,610	7.70	255.50	9529.37	-186.53	-1077.24	-186.53	1093.27	260.18	0.45	-0.21
101	9,705	7.20	254.90	9623.57	-189.67	-1089.15	-189.67	1105.54	260.12	0.53	-0.53



SURVEY CALCULATION PROGRAM

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Company:		Devon Energy Production Company, LP									
Well Name:		Chincoteague 32 State COM 005H									
Location:		Lea County, NM									
Rig:		Independence #217				Magnetic Declination:		6.74		REFERENCED TO GRID NORTH	
Job Number:		DDMO-170330									
API #:		30-025-42264									
Vertical Section Azimuth:		360.00				Proposed Direction:		360.00			
Survey Calculation Method:		Minimum Curvature									
PTB:	MD	INC	AZM	TVD	N/S	E/W	VS				
	15,521	85.2	358.8	10692.13	4826.22	-1127.41	4826.22				
#	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	9,800	5.30	252.30	9718.00	-192.56	-1099.08	-192.56	1115.82	260.06	2.02	-2.00
103	9,894	5.10	250.00	9811.61	-195.30	-1107.14	-195.30	1124.24	260.00	0.31	-0.21
104	9,989	4.60	248.10	9906.27	-198.17	-1114.65	-198.17	1132.12	259.92	0.55	-0.53
105	10,085	3.50	245.50	10002.03	-200.82	-1120.88	-200.82	1138.73	259.84	1.16	-1.15
106	10,132	3.30	241.10	10048.95	-202.07	-1123.37	-202.07	1141.40	259.80	0.70	-0.43
107	10,179	1.60	313.70	10095.91	-202.27	-1125.03	-202.27	1143.07	259.81	6.82	-3.62
108	10,226	6.80	4.10	10142.78	-199.04	-1125.31	-199.04	1142.78	259.97	12.57	11.06
109	10,275	11.60	9.60	10191.14	-191.28	-1124.28	-191.28	1140.44	260.34	9.95	9.80
110	10,322	17.00	10.80	10236.66	-179.87	-1122.20	-179.87	1136.53	260.89	11.51	11.49
111	10,370	22.00	9.00	10281.90	-164.08	-1119.48	-164.08	1131.44	261.66	10.49	10.42
112	10,417	26.60	9.60	10324.72	-145.00	-1116.35	-145.00	1125.72	262.60	9.80	9.79
113	10,465	31.20	8.10	10366.73	-122.09	-1112.80	-122.09	1119.48	263.74	9.70	9.58
114	10,512	35.00	6.20	10406.10	-96.62	-1109.63	-96.62	1113.83	265.02	8.38	8.09
115	10,559	40.50	3.90	10443.25	-67.97	-1107.13	-67.97	1109.22	266.49	12.08	11.70
116	10,606	44.10	1.80	10478.01	-36.39	-1105.58	-36.39	1106.18	268.11	8.23	7.66
117	10,654	48.50	1.50	10511.16	-1.71	-1104.58	-1.71	1104.58	269.91	9.18	9.17
118	10,701	52.60	2.00	10541.02	34.56	-1103.47	34.56	1104.01	271.79	8.76	8.72
119	10,749	56.60	2.50	10568.82	73.65	-1101.93	73.65	1104.39	273.82	8.38	8.33
120	10,796	62.10	3.60	10592.77	114.01	-1099.77	114.01	1105.66	275.92	11.87	11.70
121	10,844	67.50	2.20	10613.20	157.37	-1097.58	157.37	1108.81	278.16	11.56	11.25
122	10,891	72.40	2.30	10629.31	201.47	-1095.85	201.47	1114.22	280.42	10.43	10.43
123	10,939	77.00	0.80	10641.97	247.74	-1094.61	247.74	1122.29	282.75	10.05	9.58
124	11,004	84.20	0.90	10652.58	311.82	-1093.65	311.82	1137.24	285.91	11.08	11.08
125	11,052	87.00	359.70	10656.27	359.67	-1093.41	359.67	1151.04	288.21	6.34	5.83
126	11,147	88.50	0.10	10659.99	454.59	-1093.57	454.59	1184.29	292.57	1.63	1.58
127	11,242	90.80	0.20	10660.58	549.58	-1093.32	549.58	1223.68	296.69	2.42	2.42
128	11,337	90.10	357.60	10659.83	644.55	-1095.15	644.55	1270.74	300.48	2.83	-0.74
129	11,432	90.80	357.40	10659.08	739.46	-1099.29	739.46	1324.85	303.93	0.77	0.74
130	11,527	91.90	358.10	10656.84	834.36	-1103.02	834.36	1383.04	307.11	1.37	1.16
131	11,623	91.00	358.00	10654.42	930.27	-1106.28	930.27	1445.43	310.06	0.94	-0.94
132	11,718	89.40	356.50	10654.08	1025.15	-1110.84	1025.15	1511.59	312.70	2.31	-1.68
133	11,812	90.50	356.90	10654.17	1119.00	-1116.25	1119.00	1580.56	315.07	1.25	1.17
134	11,907	90.70	358.30	10653.17	1213.91	-1120.23	1213.91	1651.81	317.30	1.49	0.21
135	12,002	91.60	358.80	10651.26	1308.86	-1122.63	1308.86	1724.36	319.38	1.08	0.95



SURVEY CALCULATION PROGRAM

5/17/17 15:20

Company:		Devon Energy Production Company, LP													
Well Name:		Chincoteague 32 State COM 005H													
Location:		Lea County, NM													
Rig:		Independence #217				Magnetic Declination:		6.74		REFERENCED TO GRID NORTH					
Job Number:		DDMO-170330													
API #:		30-025-42264													
Vertical Section Azimuth:		360.00				Proposed Direction:		360.00							
Survey Calculation Method:		Minimum Curvature													
PTB:		MD		INC		AZM		TVD		N/S		E/W		VS	
		15,521		85.2		358.8		10692.13		4826.22		-1127.41		4826.22	
#		Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/ 100'	BUR/ 100'			
									Distance	Azm					
136		12,097	90.00	358.80	10649.94	1403.82	-1124.62	1403.82	1798.75	321.30	1.68	-1.68			
137		12,192	92.00	359.20	10648.28	1498.79	-1126.28	1498.79	1874.80	323.08	2.15	2.11			
138		12,287	90.70	358.50	10646.04	1593.74	-1128.19	1593.74	1952.64	324.71	1.55	-1.37			
139		12,382	89.00	359.50	10646.29	1688.72	-1129.84	1688.72	2031.83	326.22	2.08	-1.79			
140		12,477	88.20	0.20	10648.61	1783.69	-1130.09	1783.69	2111.55	327.64	1.12	-0.84			
141		12,572	86.30	0.20	10653.17	1878.58	-1129.76	1878.58	2192.12	328.98	2.00	-2.00			
142		12,667	86.60	0.20	10659.05	1973.39	-1129.43	1973.39	2273.74	330.22	0.32	0.32			
143		12,763	87.10	0.80	10664.33	2069.24	-1128.59	2069.24	2357.01	331.39	0.81	0.52			
144		12,857	87.80	0.60	10668.51	2163.14	-1127.45	2163.14	2439.33	332.47	0.77	0.74			
145		12,952	88.90	0.60	10671.24	2258.10	-1126.45	2258.10	2523.47	333.49	1.16	1.16			
146		13,047	89.90	1.10	10672.24	2353.08	-1125.04	2353.08	2608.20	334.45	1.18	1.05			
147		13,142	90.40	0.80	10671.99	2448.07	-1123.47	2448.07	2693.55	335.35	0.61	0.53			
148		13,237	89.40	0.60	10672.16	2543.06	-1122.31	2543.06	2779.70	336.19	1.07	-1.05			
149		13,331	90.00	0.10	10672.65	2637.05	-1121.73	2637.05	2865.72	336.96	0.83	0.64			
150		13,426	90.90	0.90	10671.90	2732.05	-1120.90	2732.05	2953.05	337.69	1.27	0.95			
151		13,521	89.40	0.20	10671.65	2827.04	-1119.99	2827.04	3040.81	338.39	1.74	-1.58			
152		13,616	90.50	0.60	10671.74	2922.03	-1119.33	2922.03	3129.09	339.04	1.23	1.16			
153		13,711	89.00	0.80	10672.15	3017.02	-1118.17	3017.02	3217.57	339.66	1.59	-1.58			
154		13,806	87.80	359.50	10674.80	3111.98	-1117.92	3111.98	3306.69	340.24	1.86	-1.26			
155		13,901	88.60	0.60	10677.79	3206.93	-1117.84	3206.93	3396.17	340.78	1.43	0.84			
156		13,995	89.50	359.90	10679.35	3300.92	-1117.43	3300.92	3484.92	341.30	1.21	0.96			
157		14,090	90.10	0.20	10679.68	3395.92	-1117.34	3395.92	3575.01	341.79	0.71	0.63			
158		14,185	90.70	0.80	10679.01	3490.91	-1116.52	3490.91	3665.11	342.26	0.89	0.63			
159		14,280	91.90	1.80	10676.86	3585.86	-1114.36	3585.86	3755.02	342.74	1.64	1.26			
160		14,375	91.20	1.10	10674.29	3680.79	-1111.96	3680.79	3845.08	343.19	1.04	-0.74			
161		14,470	89.90	359.70	10673.38	3775.78	-1111.29	3775.78	3935.92	343.60	2.01	-1.37			
162		14,565	88.90	359.50	10674.37	3870.77	-1111.96	3870.77	4027.32	343.97	1.07	-1.05			
163		14,660	89.90	359.70	10675.37	3965.76	-1112.62	3965.76	4118.88	344.33	1.07	1.05			
164		14,755	88.80	359.00	10676.45	4060.75	-1113.70	4060.75	4210.70	344.66	1.37	-1.16			
165		14,850	89.90	358.50	10677.52	4155.72	-1115.77	4155.72	4302.90	344.97	1.27	1.16			
166		14,945	88.20	358.50	10679.10	4250.67	-1118.26	4250.67	4395.30	345.26	1.79	-1.79			
167		15,040	88.90	358.70	10681.50	4345.61	-1120.58	4345.61	4487.76	345.54	0.77	0.74			
168		15,135	90.10	359.90	10682.33	4440.59	-1121.74	4440.59	4580.08	345.82	1.79	1.26			
169		15,230	90.80	359.50	10681.58	4535.59	-1122.24	4535.59	4672.36	346.10	0.85	0.74			



SURVEY CALCULATION PROGRAM

5/17/17 15:20

Company:		Devon Energy Production Company, LP												
Well Name:		Chincoteague 32 State COM 005H												
Location:		Lea County, NM												
Rig:		Independence #217					Magnetic Declination:		6.74		REFERENCED TO GRID NORTH			
Job Number:		DDMO-170330												
API #:		30-025-42264												
Vertical Section Azimuth:					360.00					Proposed Direction:		360.00		
Survey Calculation Method:					Minimum Curvature									
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,521		85.2		358.8		10692.13		4826.22		-1127.41		4826.22	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		Distance	Azm	DLS/ 100	BUR/ 100'	
170	15,325	88.40	359.00	10682.25	4630.57	-1123.48	4630.57	4764.91	346.36	2.58	-2.53			
171	15,420	88.40	358.80	10684.90	4725.52	-1125.30	4725.52	4857.66	346.61	0.21	0.00			
172	15,464	85.20	358.80	10687.36	4769.43	-1126.22	4769.43	4900.60	346.71	7.27	-7.27			
PTB:	15,521	85.20	358.80	10692.13	4826.22	-1127.41	4826.22	4956.15	346.85	0.00	0.00			