



7821 Will Rogers Blvd.
Fort Worth, Texas 76140

817.568.1038 (office)
817.568.1499 (fax)
www.msenergyservices.com

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 006H
API Number: 30-025-42219
Surveyed Depths: 144' – 15,341' MD; PTB: 15,400'
Dates Performed: 05/06/2017 – 05/26/2017
Location: Lea County, NM

HOBBS OCD
JUL 31 2017
RECEIVED

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: 06-05-2017

Email: jmirelez@msenergyservices.com



SURVEY CALCULATION PROGRAM

6/5/17 15:34

Company:

Devon Energy Production Company, LP

Well Name:

Chincoteague 32 State COM 006H

Location:

Lea County, NM

Rig:

ICD #217

Magnetic Declination:

6.74

REFERENCED TO GRID NORTH

Job Number:

DDMO-170331

API #:

30-025-42219

Vertical Section Azimuth:

0.00

Proposed Direction:

0.00

Survey Calculation Method:

Minimum Curvature

PTB:

MD

INC

AZM

TVD

N/S

E/W

VS

15,400

90.9

358

10562.07

4845.46

215.93

4845.46

#

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

0.00

1

144

0.40

270.00

144.00

0.00

-0.50

0.00

0.50

270.00

0.28

0.28

2

246

0.40

301.30

246.00

0.18

-1.16

0.18

1.18

279.04

0.21

0.00

3

338

0.10

278.80

338.00

0.36

-1.52

0.36

1.56

283.50

0.34

-0.33

4

431

0.30

267.70

430.99

0.37

-1.84

0.37

1.88

281.27

0.22

0.22

5

523

0.10

328.90

522.99

0.43

-2.12

0.43

2.16

281.35

0.29

-0.22

6

617

0.10

101.70

616.99

0.48

-2.08

0.48

2.14

282.95

0.19

0.00

7

710

0.10

100.30

709.99

0.45

-1.92

0.45

1.98

283.11

0.00

0.00

8

804

0.40

88.00

803.99

0.45

-1.52

0.45

1.58

286.36

0.32

0.32

9

985

0.60

79.60

984.99

0.64

0.05

0.64

0.64

4.23

0.12

0.11

10

1,078

0.90

97.50

1077.98

0.63

1.25

0.63

1.40

63.22

0.41

0.32

11

1,170

0.80

111.50

1169.97

0.30

2.56

0.30

2.58

83.30

0.25

-0.11

12

1,262

0.50

111.40

1261.96

-0.08

3.54

-0.08

3.54

91.31

0.33

-0.33

13

1,355

0.80

105.90

1354.96

-0.41

4.54

-0.41

4.56

95.12

0.33

0.32

14

1,447

1.30

101.50

1446.94

-0.79

6.18

-0.79

6.23

97.29

0.55

0.54

15

1,540

1.90

102.50

1539.90

-1.33

8.72

-1.33

8.82

98.70

0.65

0.65

16

1,632

2.50

100.70

1631.84

-2.04

12.18

-2.04

12.35

99.50

0.66

0.65

17

1,723

2.90

104.20

1722.73

-2.97

16.36

-2.97

16.63

100.29

0.48

0.44

18

1,818

3.50

104.70

1817.59

-4.30

21.49

-4.30

21.92

101.30

0.63

0.63

19

1,914

4.30

105.20

1913.36

-5.98

27.80

-5.98

28.44

102.15

0.83

0.83

20

2,009

4.90

101.50

2008.06

-7.73

35.21

-7.73

36.05

102.37

0.70

0.63

21

2,104

5.80

102.50

2102.64

-9.57

43.88

-9.57

44.91

102.31

0.95

0.95

22

2,198

5.80

103.90

2196.16

-11.74

53.12

-11.74

54.41

102.46

0.15

0.00

23

2,293

5.90

105.70

2290.67

-14.22

62.48

-14.22

64.08

102.82

0.22

0.11

24

2,388

6.00

105.40

2385.15

-16.86

71.97

-16.86

73.92

103.18

0.11

0.11

25

2,484

6.00

97.80

2480.63

-18.87

81.78

-18.87

83.93

102.99

0.83

0.00

26

2,577

5.90

97.40

2573.13

-20.15

91.34

-20.15

93.53

102.44

0.12

-0.11

27

2,672

5.90

99.60

2667.63

-21.59

100.99

-21.59

103.27

102.07

0.24

0.00

28

2,767

5.70

99.60

2762.14

-23.19

110.46

-23.19

112.87

101.86

0.21

-0.21

29

2,862

5.60

99.80

2856.68

-24.77

119.68

-24.77

122.21

101.69

0.11

-0.11

30

2,956

5.10

101.40

2950.27

-26.37

128.29

-26.37

130.97

101.62

0.56

-0.53

31

3,051

5.30

106.10

3044.88

-28.42

136.65

-28.42

139.57

101.75

0.50

0.21

32

3,146

5.10

108.00

3139.49

-30.94

144.88

-30.94

148.15

102.06

0.28

-0.21

33

3,241

4.70

105.60

3234.14

-33.30

152.64

-33.30

156.23

102.31

0.47

-0.42

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SURVEY CALCULATION PROGRAM

6/5/17 15:34

Company:		Devon Energy Production Company, LP												
Well Name:		Chincoteague 32 State COM 006H												
Location:		Lea County, NM												
Rig:		ICD #217					Magnetic Declination:		6.74			REFERENCED TO GRID NORTH		
Job Number:		DDMO-170331												
API #:		30-025-42219												
Vertical Section Azimuth:					0.00					Proposed Direction:		0.00		
Survey Calculation Method:					Minimum Curvature									
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,400		90.9		358		10562.07		4845.46		215.93		4845.46	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/ 100	BUR/ 100'			
								Distance	Azm					
34	3,336	5.30	105.60	3328.78	-35.52	160.62	-35.52	164.50	102.47	0.63	0.63			
35	3,431	6.50	106.10	3423.27	-38.19	170.01	-38.19	174.25	102.66	1.26	1.26			
36	3,526	6.40	108.30	3517.67	-41.35	180.20	-41.35	184.89	102.92	0.28	-0.11			
37	3,621	5.90	108.70	3612.12	-44.58	189.86	-44.58	195.02	103.21	0.53	-0.53			
38	3,716	5.40	110.20	3706.66	-47.68	198.68	-47.68	204.32	103.50	0.55	-0.53			
39	3,811	6.30	107.80	3801.17	-50.82	207.83	-50.82	213.96	103.74	0.98	0.95			
40	3,906	6.90	107.30	3895.54	-54.11	218.25	-54.11	224.85	103.93	0.63	0.63			
41	4,001	6.90	109.00	3989.85	-57.67	229.09	-57.67	236.24	104.13	0.21	0.00			
42	4,096	6.60	107.70	4084.19	-61.18	239.69	-61.18	247.37	104.32	0.35	-0.32			
43	4,191	6.50	109.40	4178.57	-64.63	249.96	-64.63	258.18	104.50	0.23	-0.11			
44	4,286	6.30	109.20	4272.98	-68.13	259.95	-68.13	268.73	104.69	0.21	-0.21			
45	4,381	6.10	105.10	4367.42	-71.16	269.75	-71.16	278.98	104.78	0.51	-0.21			
46	4,476	5.80	106.40	4461.91	-73.83	279.23	-73.83	288.82	104.81	0.35	-0.32			
47	4,571	5.40	109.20	4556.46	-76.66	288.05	-76.66	298.08	104.90	0.51	-0.42			
48	4,667	5.20	95.70	4652.05	-78.57	296.65	-78.57	306.88	104.84	1.31	-0.21			
49	4,761	5.50	92.50	4745.64	-79.19	305.39	-79.19	315.49	104.54	0.45	0.32			
50	4,856	5.50	92.00	4840.20	-79.55	314.49	-79.55	324.39	104.20	0.05	0.00			
51	4,951	6.20	93.60	4934.71	-80.03	324.16	-80.03	333.89	103.87	0.76	0.74			
52	5,046	6.30	93.20	5029.14	-80.64	334.48	-80.64	344.06	103.56	0.11	0.11			
53	5,141	6.20	90.80	5123.58	-81.01	344.81	-81.01	354.20	103.22	0.29	-0.11			
54	5,236	6.30	89.50	5218.01	-81.03	355.16	-81.03	364.28	102.85	0.18	0.11			
55	5,331	7.20	94.50	5312.36	-81.45	366.30	-81.45	375.25	102.54	1.13	0.95			
56	5,426	7.40	94.60	5406.59	-82.41	378.34	-82.41	387.21	102.29	0.21	0.21			
57	5,521	6.90	94.60	5500.85	-83.36	390.12	-83.36	398.93	102.06	0.53	-0.53			
58	5,616	6.40	94.60	5595.21	-84.24	401.09	-84.24	409.84	101.86	0.53	-0.53			
59	5,711	6.50	93.80	5689.61	-85.02	411.73	-85.02	420.42	101.67	0.14	0.11			
60	5,806	6.30	93.40	5784.01	-85.69	422.30	-85.69	430.91	101.47	0.22	-0.21			
61	5,901	6.40	91.10	5878.43	-86.10	432.80	-86.10	441.28	101.25	0.29	0.11			
62	5,996	6.40	91.50	5972.84	-86.34	443.38	-86.34	451.71	101.02	0.05	0.00			
63	6,091	6.50	101.50	6067.24	-87.55	453.95	-87.55	462.31	100.92	1.19	0.11			
64	6,186	6.50	102.00	6161.63	-89.74	464.48	-89.74	473.07	100.94	0.06	0.00			
65	6,281	6.20	102.40	6256.05	-91.96	474.75	-91.96	483.57	100.96	0.32	-0.32			
66	6,375	6.00	102.90	6349.52	-94.15	484.49	-94.15	493.55	101.00	0.22	-0.21			
67	6,470	5.70	105.50	6444.02	-96.52	493.88	-96.52	503.22	101.06	0.42	-0.32			



SURVEY CALCULATION PROGRAM

6/5/17 15:34

Company:		Devon Energy Production Company, LP												
Well Name:		Chincoteague 32 State COM 006H												
Location:		Lea County, NM												
Rig:		ICD #217					Magnetic Declination:		6.74		REFERENCED TO GRID NORTH			
Job Number:		DDMO-170331												
API #:		30-025-42219												
Vertical Section Azimuth:				0.00		Proposed Direction:		0.00						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,400		90.9		358		10562.07		4845.46		215.93		4845.46	
#	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	6,565	5.50	105.00	6538.57	-98.96	502.82	-98.96	512.47	101.13	0.22	-0.21			
69	6,660	5.50	106.80	6633.13	-101.45	511.58	-101.45	521.54	101.22	0.18	0.00			
70	6,755	5.50	106.40	6727.69	-104.05	520.30	-104.05	530.61	101.31	0.04	0.00			
71	6,850	5.30	107.50	6822.27	-106.66	528.85	-106.66	539.50	101.40	0.24	-0.21			
72	6,945	4.70	110.10	6916.91	-109.31	536.69	-109.31	547.71	101.51	0.67	-0.63			
73	7,040	4.70	98.30	7011.59	-111.21	544.20	-111.21	555.45	101.55	1.02	0.00			
74	7,135	4.90	97.60	7106.26	-112.31	552.07	-112.31	563.38	101.50	0.22	0.21			
75	7,230	6.10	94.80	7200.82	-113.27	561.13	-113.27	572.44	101.41	1.29	1.26			
76	7,325	5.80	96.60	7295.31	-114.24	570.92	-114.24	582.24	101.32	0.37	-0.32			
77	7,420	5.50	99.70	7389.85	-115.56	580.18	-115.56	591.58	101.26	0.45	-0.32			
78	7,515	6.00	99.00	7484.37	-117.11	589.57	-117.11	601.09	101.23	0.53	0.53			
79	7,610	6.00	98.30	7578.85	-118.60	599.39	-118.60	611.01	101.19	0.08	0.00			
80	7,705	5.60	101.00	7673.36	-120.20	608.85	-120.20	620.60	101.17	0.51	-0.42			
81	7,800	6.10	102.90	7767.87	-122.21	618.32	-122.21	630.28	101.18	0.56	0.53			
82	7,895	6.20	104.30	7862.32	-124.61	628.21	-124.61	640.45	101.22	0.19	0.11			
83	7,990	6.20	103.80	7956.76	-127.10	638.17	-127.10	650.70	101.26	0.06	0.00			
84	8,085	5.40	111.30	8051.28	-129.94	647.31	-129.94	660.23	101.35	1.16	-0.84			
85	8,180	5.10	112.60	8145.88	-133.19	655.38	-133.19	668.77	101.49	0.34	-0.32			
86	8,275	3.90	120.60	8240.59	-136.46	662.06	-136.46	675.97	101.65	1.42	-1.26			
87	8,370	2.80	127.70	8335.42	-139.52	666.67	-139.52	681.12	101.82	1.24	-1.16			
88	8,464	2.70	133.10	8429.31	-142.44	670.11	-142.44	685.08	102.00	0.30	-0.11			
89	8,560	2.80	133.80	8525.20	-145.61	673.45	-145.61	689.01	102.20	0.11	0.10			
90	8,655	2.50	137.90	8620.10	-148.75	676.51	-148.75	692.67	102.40	0.37	-0.32			
91	8,749	2.00	142.40	8714.03	-151.57	678.89	-151.57	695.60	102.59	0.56	-0.53			
92	8,844	1.80	144.90	8808.98	-154.11	680.76	-154.11	697.98	102.76	0.23	-0.21			
93	8,939	1.70	138.80	8903.93	-156.39	682.54	-156.39	700.23	102.91	0.22	-0.11			
94	9,034	1.30	153.20	8998.90	-158.41	683.96	-158.41	702.06	103.04	0.58	-0.42			
95	9,129	1.30	153.00	9093.88	-160.33	684.93	-160.33	703.45	103.17	0.00	0.00			
96	9,224	1.40	156.00	9188.85	-162.35	685.89	-162.35	704.85	103.32	0.13	0.11			
97	9,319	1.50	142.10	9283.82	-164.39	687.13	-164.39	706.52	103.45	0.38	0.11			
98	9,414	1.90	122.80	9378.78	-166.23	689.22	-166.23	708.98	103.56	0.73	0.42			
99	9,508	1.20	64.00	9472.75	-166.64	691.41	-166.64	711.21	103.55	1.74	-0.74			
100	9,603	1.10	82.50	9567.73	-166.08	693.21	-166.08	712.83	103.47	0.40	-0.11			
101	9,698	1.00	86.00	9662.71	-165.91	694.94	-165.91	714.47	103.43	0.13	-0.11			



SURVEY CALCULATION PROGRAM

6/5/17 15:34

V05.04.02

Company:	Devon Energy Production Company, LP
Well Name:	Chincoteague 32 State COM 006H
Location:	Lea County, NM
Rig:	ICD #217
Job Number:	DDMO-170331
API #:	30-025-42219

Magnetic Declination: 6.74

REFERENCED TO GRID NORTH

Vertical Section Azimuth: 0.00 Proposed Direction: 0.00

Survey Calculation Method: Minimum Curvature

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	15,400	90.9	358	10562.07	4845.46	215.93	4845.46

#	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	9,793	1.10	98.70	9757.70	-165.99	696.67	-165.99	716.17	103.40	0.27	0.11
103	9,888	0.80	114.00	9852.69	-166.40	698.18	-166.40	717.73	103.41	0.41	-0.32
104	9,934	0.10	75.50	9898.68	-166.52	698.51	-166.52	718.08	103.41	1.57	-1.52
105	9,982	3.50	314.50	9946.65	-165.48	697.50	-165.48	716.87	103.35	7.40	7.08
106	10,029	9.60	313.70	9993.33	-161.76	693.64	-161.76	712.26	103.13	12.98	12.98
107	10,077	14.90	314.50	10040.22	-154.67	686.34	-154.67	703.55	102.70	11.05	11.04
108	10,124	19.40	314.40	10085.11	-144.96	676.45	-144.96	691.81	102.10	9.57	9.57
109	10,172	23.90	315.90	10129.72	-132.40	663.98	-132.40	677.05	101.28	9.44	9.38
110	10,219	27.80	319.80	10172.01	-117.18	650.28	-117.18	660.75	100.22	9.05	8.30
111	10,267	31.90	323.10	10213.64	-98.48	635.43	-98.48	643.02	98.81	9.20	8.54
112	10,314	37.00	323.70	10252.38	-77.14	619.59	-77.14	624.37	97.10	10.87	10.85
113	10,362	41.90	323.10	10289.43	-52.67	601.40	-52.67	603.71	95.00	10.24	10.21
114	10,409	45.90	324.60	10323.29	-26.35	582.20	-26.35	582.79	92.59	8.79	8.51
115	10,457	49.50	327.40	10355.60	3.09	562.37	3.09	562.38	89.69	8.65	7.50
116	10,504	52.80	329.80	10385.08	34.33	543.32	34.33	544.41	86.38	8.07	7.02
117	10,552	57.20	330.50	10412.60	68.43	523.76	68.43	528.21	82.56	9.24	9.17
118	10,599	62.30	332.30	10436.27	104.07	504.35	104.07	514.97	78.34	11.34	10.85
119	10,647	66.00	332.50	10457.20	142.35	484.34	142.35	504.83	73.62	7.72	7.71
120	10,694	70.90	334.90	10474.46	181.53	464.99	181.53	499.17	68.68	11.46	10.43
121	10,742	76.50	336.90	10487.93	223.57	446.20	223.57	499.08	63.39	12.33	11.67
122	10,789	80.10	337.20	10497.46	265.94	428.26	265.94	504.11	58.16	7.69	7.66
123	10,837	82.00	339.00	10504.92	309.93	410.58	309.93	514.42	52.95	5.42	3.96
124	10,867	82.70	337.90	10508.92	337.58	399.66	337.58	523.15	49.81	4.32	2.33
125	10,961	86.10	341.60	10518.09	425.33	367.29	425.33	561.97	40.81	5.33	3.62
126	11,056	87.80	343.70	10523.15	515.87	339.01	515.87	617.29	33.31	2.84	1.79
127	11,151	89.90	346.20	10525.05	607.58	314.35	607.58	684.08	27.36	3.44	2.21
128	11,246	90.70	348.10	10524.56	700.19	293.22	700.19	759.11	22.72	2.17	0.84
129	11,341	90.00	351.30	10523.98	793.65	276.24	793.65	840.35	19.19	3.45	-0.74
130	11,436	90.60	353.00	10523.48	887.75	263.27	887.75	925.97	16.52	1.90	0.63
131	11,531	89.10	353.60	10523.73	982.10	252.18	982.10	1013.96	14.40	1.70	-1.58
132	11,626	89.90	354.10	10524.56	1076.55	242.01	1076.55	1103.42	12.67	0.99	0.84
133	11,721	88.10	353.70	10526.21	1170.99	231.91	1170.99	1193.74	11.20	1.94	-1.89
134	11,816	88.30	354.10	10529.20	1265.41	221.82	1265.41	1284.70	9.94	0.47	0.21
135	11,911	88.90	354.80	10531.52	1359.93	212.64	1359.93	1376.46	8.89	0.97	0.63



SURVEY CALCULATION PROGRAM

6/5/17 15:34

Company:		Devon Energy Production Company, LP														
Well Name:		Chincoteague 32 State COM 006H														
Location:		Lea County, NM														
Rig:		ICD #217					Magnetic Declination:		6.74							
Job Number:		DDMO-170331														
API #:		30-025-42219														
Vertical Section Azimuth:					0.00		Proposed Direction:									
Survey Calculation Method:					Minimum Curvature											
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS			
	15,400		90.9		358		10562.07		4845.46		215.93		4845.46			
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Distance	Closure Azm	DLS/ 100'	BUR/ 100'					
136	12,006	89.80	354.30	10532.60	1454.50	203.62	1454.50	1468.68	7.97	1.08	0.95					
137	12,101	88.40	355.80	10534.09	1549.13	195.42	1549.13	1561.40	7.19	2.16	-1.47					
138	12,196	88.90	356.00	10536.33	1643.86	188.63	1643.86	1654.64	6.55	0.57	0.53					
139	12,291	89.50	356.40	10537.65	1738.64	182.33	1738.64	1748.17	5.99	0.76	0.63					
140	12,386	90.00	355.00	10538.07	1833.37	175.21	1833.37	1841.72	5.46	1.56	0.53					
141	12,481	89.10	356.70	10538.81	1928.11	168.34	1928.11	1935.45	4.99	2.02	-0.95					
142	12,576	89.40	358.10	10540.06	2023.00	164.03	2023.00	2029.64	4.64	1.51	0.32					
143	12,671	90.00	358.10	10540.56	2117.95	160.88	2117.95	2124.05	4.34	0.63	0.63					
144	12,767	89.30	359.50	10541.14	2213.92	158.87	2213.92	2219.62	4.10	1.63	-0.73					
145	12,861	90.00	359.50	10541.72	2307.92	158.05	2307.92	2313.32	3.92	0.74	0.74					
146	12,956	88.50	359.70	10542.96	2402.90	157.38	2402.90	2408.05	3.75	1.59	-1.58					
147	13,051	88.10	2.00	10545.78	2497.84	158.79	2497.84	2502.89	3.64	2.46	-0.42					
148	13,146	88.70	0.20	10548.43	2592.79	160.61	2592.79	2597.76	3.54	2.00	0.63					
149	13,240	89.60	0.90	10549.83	2686.77	161.52	2686.77	2691.62	3.44	1.21	0.96					
150	13,335	90.30	1.60	10549.91	2781.75	163.59	2781.75	2786.55	3.37	1.04	0.74					
151	13,430	88.50	0.90	10550.90	2876.71	165.66	2876.71	2881.48	3.30	2.03	-1.89					
152	13,525	89.00	1.50	10552.98	2971.67	167.65	2971.67	2976.39	3.23	0.82	0.53					
153	13,620	89.20	2.00	10554.47	3066.61	170.55	3066.61	3071.35	3.18	0.57	0.21					
154	13,715	89.80	1.60	10555.30	3161.56	173.54	3161.56	3166.32	3.14	0.76	0.63					
155	13,810	91.10	0.90	10554.55	3256.53	175.61	3256.53	3261.27	3.09	1.55	1.37					
156	13,905	90.50	2.20	10553.22	3351.49	178.18	3351.49	3356.22	3.04	1.51	-0.63					
157	13,999	88.50	2.50	10554.04	3445.40	182.03	3445.40	3450.21	3.02	2.15	-2.13					
158	14,094	89.10	2.90	10556.03	3540.27	186.51	3540.27	3545.18	3.02	0.76	0.63					
159	14,189	89.40	2.70	10557.28	3635.15	191.15	3635.15	3640.17	3.01	0.38	0.32					
160	14,284	89.90	2.90	10557.86	3730.04	195.79	3730.04	3735.17	3.00	0.57	0.53					
161	14,379	89.90	2.20	10558.02	3824.94	200.01	3824.94	3830.17	2.99	0.74	0.00					
162	14,474	90.00	1.60	10558.11	3919.89	203.16	3919.89	3925.15	2.97	0.64	0.11					
163	14,569	90.70	1.10	10557.53	4014.86	205.40	4014.86	4020.11	2.93	0.91	0.74					
164	14,664	88.50	2.00	10558.19	4109.82	207.97	4109.82	4115.07	2.90	2.50	-2.32					
165	14,759	88.50	2.70	10560.68	4204.70	211.86	4204.70	4210.04	2.88	0.74	0.00					
166	14,854	89.00	1.60	10562.75	4299.61	215.43	4299.61	4305.00	2.87	1.27	0.53					
167	14,949	89.50	1.30	10563.99	4394.57	217.83	4394.57	4399.97	2.84	0.61	0.53					
168	15,044	89.80	0.40	10564.57	4489.56	219.24	4489.56	4494.91	2.80	1.00	0.32					
169	15,139	90.80	0.90	10564.08	4584.55	220.32	4584.55	4589.84	2.75	1.18	1.05					

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SURVEY CALCULATION PROGRAM

6/5/17 15:34

Company:		Devon Energy Production Company, LP													
Well Name:		Chincoteague 32 State COM 006H													
Location:		Lea County, NM													
Rig:		ICD #217				Magnetic Declination:		6.74		REFERENCED TO GRID NORTH					
Job Number:		DDMO-170331													
API #:		30-025-42219													
Vertical Section Azimuth:				0.00				Proposed Direction:		0.00					
Survey Calculation Method:				Minimum Curvature											
PTB:		MD		INC		AZM		TVD		N/S		E/W		VS	
		15,400		90.9		358		10562.07		4845.46		215.93		4845.46	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/ 100'	BUR/ 100'				
								Distance	Azm						
170	15,234	89.80	359.40	10563.58	4679.54	220.57	4679.54	4684.74	2.70	1.90	-1.05				
171	15,329	90.70	358.00	10563.16	4774.52	218.41	4774.52	4779.51	2.62	1.75	0.95				
172	15,341	90.90	358.00	10563.00	4786.51	217.99	4786.51	4791.47	2.61	1.67	1.67				