

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46439	² Pool Code 97899	³ Pool Name WC-025 G-06 S253206M;BONE SPRING
⁴ Property Code 326213	⁵ Property Name CHINCOTEAGUE 8-32 FED STATE COM	⁶ Well Number 531H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3440.3

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	8	25 S	32 E		2170	NORTH	925	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	24 S	32 E		103	NORTH	1014	WEST	LEA

¹² Dedicated Acres 801.01	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <u>Jenny Harms</u> Date: <u>6-10-2020</u></p> <p>Printed Name: <u>JENNY HARMS</u></p> <p>E-mail Address: <u>JENNY.HARMS@DVN.COM</u></p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MARCH 1, 2019</p> <p>Date of Survey: <u>MARCH 1, 2019</u></p> <p>Signature and Seal of Professional Surveyor: <u>[Signature]</u></p> <p>Certificate Number: <u>12797</u></p> <p>Survey No. <u>7014A</u></p>
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Intent ☐ As Drilled ☒API #
30-025-46439

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION CO., L.P.	CHINCOTEAGUE 8-32 FED STATE COM	531H

Kick Off Point (KOP)

UL L	Section 8	Township 25S	Range 32E	Lot	Feet 2474	From N/S SOUTH	Feet 1058	From E/W WEST	County LEA
Latitude 32.1443925					Longitude 103.7023891			NAD 83	

First Take Point (FTP)

UL E	Section 8	Township 25S	Range 32E	Lot	Feet 2296	From N/S NORTH	Feet 1064	From E/W WEST	County LEA
Latitude 32.1457881					Longitude 103.7023654			NAD 83	

Last Take Point (LTP)

UL D	Section 32	Township 24S	Range 32E	Lot	Feet 131	From N/S NORTH	Feet 1013	From E/W WEST	County LEA
Latitude 32.1807877					Longitude 103.7019490			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐ YESIs this well an infill well? ☐ NO

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

Devon

SURVEY REPORT

Chincoteague 8-35 Fed State Com 531H

Cactus 167

This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this data 6th of January, 2020

Sherry Stewart

Notary Signature

County of Midland

State of Texas





Scientific Drilling

Devon Energy

**Lea County, NM (NAD83 NME)
Chincoteague 8-32 Fed State Com
#531H**

OH

Survey: SDI Survey #1

Standard Survey Report

26 December, 2019



Scientific Drilling

www.scientificdrilling.com



Company:	Devon Energy	Local Co-ordinate Reference:	Well #531H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3464.00usft
Site:	Chincoteague 8-32 Fed State Com	MD Reference:	KB = 24' @ 3464.00usft
Well:	#531H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland

Project	Lea County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Chincoteague 8-32 Fed State Com		
Site Position:		Northing:	417,469.66 usft
From:	Map	Easting:	736,482.28 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 46.075 N
		Longitude:	103° 42' 10.128 W
		Grid Convergence:	0.34 °

Well	#531H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 8' 46.075 N
		Longitude:	103° 42' 10.128 W
		Ground Level:	3,440.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/13/2019	6.63	59.75	47,780.20000000

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)	
	0.00	0.00	0.00	0.99	

Survey Program	Date	12/23/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
230.00	20,305.00	SDI Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
230.00	0.48	188.76	230.00	-0.95	-0.15	-0.95	0.21	0.21	0.00	
321.00	0.45	204.29	320.99	-1.65	-0.35	-1.66	0.14	-0.03	17.07	
412.00	0.70	226.88	411.99	-2.36	-0.90	-2.38	0.37	0.27	24.82	
503.00	0.58	232.53	502.98	-3.02	-1.68	-3.05	0.15	-0.13	6.21	
594.00	0.79	212.02	593.98	-3.83	-2.37	-3.87	0.35	0.23	-22.54	
685.00	0.50	231.03	684.97	-4.61	-3.02	-4.67	0.39	-0.32	20.89	
774.00	0.69	209.79	773.97	-5.32	-3.58	-5.38	0.32	0.21	-23.87	
883.00	0.24	159.87	882.96	-6.11	-3.83	-6.17	0.52	-0.41	-45.80	
974.00	0.51	193.78	973.96	-6.68	-3.86	-6.75	0.37	0.30	37.26	

Company:	Devon Energy	Local Co-ordinate Reference:	Well #531H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3464.00usft
Site:	Chincoteague 8-32 Fed State Com	MD Reference:	KB = 24' @ 3464.00usft
Well:	#531H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,064.00	0.90	185.77	1,063.95	-7.77	-4.03	-7.84	0.45	0.43	-8.90
1,155.00	1.14	190.15	1,154.94	-9.37	-4.26	-9.45	0.28	0.26	4.81
1,246.00	1.28	192.80	1,245.92	-11.26	-4.64	-11.33	0.17	0.15	2.91
1,338.00	1.37	198.37	1,337.90	-13.30	-5.22	-13.39	0.17	0.10	6.05
1,430.00	1.48	199.17	1,429.87	-15.47	-5.96	-15.57	0.12	0.12	0.87
1,522.00	1.41	202.27	1,521.84	-17.64	-6.77	-17.75	0.11	-0.08	3.37
1,612.00	1.41	212.65	1,611.81	-19.59	-7.79	-19.73	0.28	0.00	11.53
1,708.00	1.46	216.16	1,707.78	-21.58	-9.15	-21.73	0.11	0.05	3.66
1,803.00	1.22	219.52	1,802.75	-23.33	-10.51	-23.51	0.27	-0.25	3.54
1,898.00	1.04	211.31	1,897.74	-24.85	-11.60	-25.05	0.25	-0.19	-8.64
1,994.00	1.05	218.08	1,993.72	-26.29	-12.59	-26.50	0.13	0.01	7.05
2,089.00	1.11	210.21	2,088.70	-27.77	-13.59	-28.00	0.17	0.06	-8.28
2,184.00	0.98	213.25	2,183.69	-29.24	-14.50	-29.49	0.15	-0.14	3.20
2,280.00	0.81	206.12	2,279.68	-30.54	-15.25	-30.80	0.21	-0.18	-7.43
2,375.00	0.62	198.25	2,374.67	-31.63	-15.71	-31.90	0.22	-0.20	-8.28
2,470.00	0.66	175.10	2,469.66	-32.66	-15.82	-32.93	0.27	0.04	-24.37
2,565.00	0.77	150.77	2,564.66	-33.76	-15.46	-34.03	0.34	0.12	-25.61
2,660.00	1.09	123.99	2,659.64	-34.83	-14.40	-35.07	0.56	0.34	-28.19
2,754.00	1.39	113.29	2,753.62	-35.78	-12.61	-35.99	0.40	0.32	-11.38
2,849.00	1.51	108.04	2,848.59	-36.62	-10.37	-36.79	0.19	0.13	-5.53
2,944.00	1.95	106.36	2,943.55	-37.46	-7.63	-37.59	0.47	0.46	-1.77
3,040.00	2.32	130.13	3,039.48	-39.18	-4.57	-39.25	0.99	0.39	24.76
3,135.00	3.94	145.04	3,134.34	-43.09	-1.23	-43.11	1.89	1.71	15.69
3,229.00	4.75	150.24	3,228.07	-49.12	2.55	-49.06	0.96	0.86	5.53
3,325.00	4.55	153.51	3,323.75	-55.97	6.22	-55.86	0.35	-0.21	3.41
3,421.00	4.16	151.95	3,419.48	-62.46	9.56	-62.28	0.42	-0.41	-1.63
3,516.00	3.79	151.70	3,514.25	-68.26	12.67	-68.03	0.39	-0.39	-0.26
3,611.00	3.42	154.22	3,609.06	-73.58	15.39	-73.30	0.42	-0.39	2.65
3,706.00	3.10	149.67	3,703.90	-78.35	17.92	-78.03	0.43	-0.34	-4.79
3,801.00	3.93	144.39	3,798.73	-83.21	21.11	-82.83	0.94	0.87	-5.56
3,897.00	4.35	147.77	3,894.47	-88.96	24.97	-88.52	0.51	0.44	3.52
3,992.00	4.28	151.46	3,989.21	-95.13	28.58	-94.62	0.30	-0.07	3.88
4,088.00	4.82	148.21	4,084.90	-101.70	32.42	-101.13	0.62	0.56	-3.39
4,183.00	5.83	146.97	4,179.49	-109.14	37.15	-108.48	1.07	1.06	-1.31
4,278.00	6.76	151.75	4,273.92	-118.11	42.43	-117.36	1.12	0.98	5.03
4,373.00	6.07	153.03	4,368.32	-127.51	47.35	-126.68	0.74	-0.73	1.35
4,468.00	5.48	154.67	4,462.84	-136.09	51.57	-135.18	0.64	-0.62	1.73
4,564.00	4.96	154.88	4,558.44	-143.99	55.29	-143.01	0.54	-0.54	0.22
4,734.00	9.07	170.24	4,727.15	-163.86	60.69	-162.79	2.64	2.42	9.04
4,829.00	11.24	173.06	4,820.65	-180.43	63.08	-179.32	2.34	2.28	2.97
4,925.00	10.68	172.22	4,914.90	-198.53	65.41	-197.38	0.61	-0.58	-0.88
5,020.00	10.14	171.86	5,008.34	-215.53	67.79	-214.33	0.57	-0.57	-0.38
5,115.00	9.54	171.31	5,101.94	-231.59	70.16	-230.35	0.64	-0.63	-0.58
5,210.00	9.99	170.50	5,195.56	-247.50	72.71	-246.21	0.50	0.47	-0.85

Company:	Devon Energy	Local Co-ordinate Reference:	Well #531H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3464.00usft
Site:	Chincoteague 8-32 Fed State Com	MD Reference:	KB = 24' @ 3464.00usft
Well:	#531H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,305.00	13.27	181.79	5,288.61	-266.54	73.73	-265.22	4.19	3.45	11.88
5,400.00	12.43	180.21	5,381.23	-287.66	73.35	-286.35	0.96	-0.88	-1.66
5,495.00	11.21	179.35	5,474.22	-307.12	73.42	-305.80	1.30	-1.28	-0.91
5,591.00	10.94	177.21	5,568.43	-325.55	73.97	-324.22	0.51	-0.28	-2.23
5,686.00	10.27	175.78	5,661.81	-343.00	75.03	-341.65	0.76	-0.71	-1.51
5,781.00	9.89	176.37	5,755.34	-359.58	76.17	-358.22	0.41	-0.40	0.62
5,877.00	9.74	177.03	5,849.94	-375.92	77.11	-374.54	0.20	-0.16	0.69
5,972.00	11.52	171.62	5,943.30	-393.33	78.91	-391.91	2.15	1.87	-5.69
6,068.00	12.27	167.77	6,037.24	-412.79	82.47	-411.30	1.14	0.78	-4.01
6,163.00	11.15	167.28	6,130.26	-431.61	86.63	-430.06	1.18	-1.18	-0.52
6,258.00	9.89	166.03	6,223.67	-448.49	90.62	-446.86	1.35	-1.33	-1.32
6,352.00	9.45	167.66	6,316.33	-463.86	94.22	-462.17	0.55	-0.47	1.73
6,447.00	9.17	168.77	6,410.08	-478.91	97.36	-477.16	0.35	-0.29	1.17
6,541.00	9.09	167.70	6,502.89	-493.51	100.40	-491.70	0.20	-0.09	-1.14
6,636.00	8.95	169.40	6,596.71	-508.10	103.36	-506.25	0.32	-0.15	1.79
6,731.00	8.90	167.53	6,690.56	-522.54	106.31	-520.63	0.31	-0.05	-1.97
6,826.00	8.51	168.05	6,784.47	-536.60	109.35	-534.63	0.42	-0.41	0.55
6,921.00	8.53	168.23	6,878.42	-550.37	112.24	-548.35	0.04	0.02	0.19
7,016.00	7.72	168.43	6,972.47	-563.52	114.96	-561.45	0.85	-0.85	0.21
7,112.00	7.16	166.20	7,067.66	-575.65	117.68	-573.53	0.66	-0.58	-2.32
7,207.00	7.05	165.49	7,161.93	-587.04	120.55	-584.87	0.15	-0.12	-0.75
7,303.00	6.33	164.65	7,257.27	-597.85	123.43	-595.63	0.76	-0.75	-0.88
7,398.00	4.68	168.34	7,351.83	-606.69	125.60	-604.44	1.78	-1.74	3.88
7,492.00	2.26	184.58	7,445.66	-612.30	126.23	-610.03	2.75	-2.57	17.28
7,586.00	0.92	177.38	7,539.62	-614.90	126.11	-612.63	1.44	-1.43	-7.66
7,681.00	0.92	150.56	7,634.60	-616.32	126.52	-614.05	0.45	0.00	-28.23
7,776.00	1.32	134.61	7,729.59	-617.76	127.68	-615.46	0.53	0.42	-16.79
7,871.00	1.29	143.34	7,824.56	-619.38	129.09	-617.06	0.21	-0.03	9.19
7,966.00	1.59	138.95	7,919.53	-621.24	130.60	-618.89	0.34	0.32	-4.62
8,060.00	1.78	152.76	8,013.49	-623.52	132.12	-621.15	0.48	0.20	14.69
8,155.00	1.92	166.39	8,108.44	-626.38	133.17	-623.99	0.48	0.15	14.35
8,251.00	1.74	166.72	8,204.39	-629.36	133.88	-626.95	0.19	-0.19	0.34
8,346.00	1.82	174.04	8,299.35	-632.26	134.37	-629.85	0.25	0.08	7.71
8,409.00	1.23	173.56	8,362.33	-633.93	134.55	-631.51	0.94	-0.94	-0.76
8,504.00	10.19	13.22	8,456.88	-626.74	136.60	-624.29	11.95	9.43	-168.78
8,551.00	17.48	9.78	8,502.48	-615.72	138.75	-613.23	15.60	15.51	-7.32
8,599.00	21.41	10.09	8,547.73	-599.98	141.51	-597.45	8.19	8.19	0.65
8,646.00	27.57	8.88	8,590.49	-580.77	144.69	-578.19	13.15	13.11	-2.57
8,694.00	29.79	5.70	8,632.60	-557.93	147.59	-555.30	5.61	4.63	-6.63
8,742.00	35.04	2.00	8,673.11	-532.27	149.26	-529.62	11.69	10.94	-7.71
8,789.00	40.99	0.54	8,710.12	-503.35	149.88	-500.69	12.80	12.66	-3.11
8,837.00	44.34	2.41	8,745.41	-470.84	150.73	-468.17	7.46	6.98	3.90
8,885.00	47.72	2.28	8,778.73	-436.32	152.14	-433.64	7.04	7.04	-0.27

Company:	Devon Energy	Local Co-ordinate Reference:	Well #531H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3464.00usft
Site:	Chincoteague 8-32 Fed State Com	MD Reference:	KB = 24' @ 3464.00usft
Well:	#531H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,933.00	49.74	357.82	8,810.40	-400.27	152.15	-397.58	8.15	4.21	-9.29
8,980.00	51.59	354.11	8,840.20	-364.02	149.58	-361.38	7.26	3.94	-7.89
9,028.00	56.62	354.57	8,868.33	-325.34	145.75	-322.77	10.51	10.48	0.96
9,050.38	58.69	354.84	8,880.30	-306.51	144.01	-303.98	9.29	9.23	1.22
FTP[CT531H]									
9,075.00	60.96	355.13	8,892.68	-285.31	142.15	-282.81	9.29	9.24	1.17
9,123.00	63.02	356.97	8,915.22	-243.04	139.24	-240.60	5.47	4.29	3.83
9,170.00	67.15	359.26	8,935.02	-200.45	137.85	-198.04	9.84	8.79	4.87
9,218.00	73.27	2.24	8,951.27	-155.31	138.46	-152.90	14.02	12.75	6.21
9,265.00	80.23	1.26	8,962.03	-109.61	139.85	-107.19	14.95	14.81	-2.09
9,360.00	88.69	357.76	8,971.20	-15.16	139.02	-12.76	9.63	8.91	-3.68
9,455.00	90.23	357.79	8,972.09	79.76	135.34	82.08	1.62	1.62	0.03
9,551.00	90.07	356.23	8,971.84	175.63	130.33	177.85	1.63	-0.17	-1.63
9,645.00	91.81	355.36	8,970.30	269.35	123.44	271.44	2.07	1.85	-0.93
9,740.00	91.24	357.07	8,967.77	364.11	117.17	366.08	1.90	-0.60	1.80
9,835.00	89.73	358.57	8,966.97	459.03	113.56	460.92	2.24	-1.59	1.58
9,930.00	88.76	1.15	8,968.22	554.01	113.32	555.89	2.90	-1.02	2.72
10,026.00	88.93	2.65	8,970.16	649.94	116.51	651.85	1.57	0.18	1.56
10,120.00	87.25	1.15	8,973.29	743.83	119.62	745.78	2.40	-1.79	-1.60
10,214.00	87.58	0.49	8,977.53	837.72	120.96	839.69	0.78	0.35	-0.70
10,309.00	89.13	0.63	8,980.26	932.68	121.89	934.64	1.64	1.63	0.15
10,404.00	86.75	2.66	8,983.67	1,027.57	124.62	1,029.56	3.29	-2.51	2.14
10,500.00	85.23	2.14	8,990.38	1,123.24	128.63	1,125.29	1.67	-1.58	-0.54
10,595.00	85.84	1.53	8,997.78	1,217.91	131.66	1,219.99	0.91	0.64	-0.64
10,690.00	86.41	1.76	9,004.20	1,312.65	134.38	1,314.77	0.65	0.60	0.24
10,785.00	89.09	359.73	9,007.93	1,407.55	135.61	1,409.68	3.54	2.82	-2.14
10,880.00	89.70	359.20	9,008.93	1,502.54	134.73	1,504.64	0.85	0.64	-0.56
10,975.00	90.64	359.45	9,008.65	1,597.54	133.61	1,599.60	1.02	0.99	0.26
11,068.00	92.18	358.84	9,006.36	1,690.49	132.22	1,692.52	1.78	1.66	-0.66
11,193.00	92.52	358.94	9,001.24	1,815.36	129.80	1,817.33	0.28	0.27	0.08
11,288.00	92.95	359.00	8,996.70	1,910.24	128.09	1,912.17	0.46	0.45	0.06
11,383.00	90.44	359.94	8,993.89	2,005.19	127.22	2,007.08	2.82	-2.64	0.99
11,477.00	91.04	359.97	8,992.68	2,099.18	127.14	2,101.06	0.64	0.64	0.03
11,573.00	86.88	1.58	8,994.42	2,195.13	128.44	2,197.02	4.65	-4.33	1.68
11,668.00	86.61	2.04	8,999.82	2,289.93	131.44	2,291.85	0.56	-0.28	0.48
11,764.00	86.68	1.38	9,005.43	2,385.72	134.30	2,387.68	0.69	0.07	-0.69
11,859.00	86.37	1.46	9,011.19	2,480.52	136.65	2,482.50	0.34	-0.33	0.08
11,954.00	86.58	1.15	9,017.03	2,575.31	138.80	2,577.32	0.39	0.22	-0.33
12,048.00	86.95	0.50	9,022.34	2,669.15	140.16	2,671.17	0.79	0.39	-0.69
12,143.00	86.74	0.36	9,027.57	2,764.01	140.87	2,766.02	0.27	-0.22	-0.15
12,238.00	87.95	359.93	9,031.97	2,858.90	141.11	2,860.91	1.35	1.27	-0.45
12,332.00	88.16	359.98	9,035.16	2,952.85	141.03	2,954.84	0.23	0.22	0.05
12,428.00	88.02	359.95	9,038.36	3,048.79	140.98	3,050.77	0.15	-0.15	-0.03
12,523.00	88.52	359.33	9,041.23	3,143.75	140.38	3,145.70	0.84	0.53	-0.65

Company:	Devon Energy	Local Co-ordinate Reference:	Well #531H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3464.00usft
Site:	Chincoteague 8-32 Fed State Com	MD Reference:	KB = 24' @ 3464.00usft
Well:	#531H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,617.00	90.81	359.74	9,041.77	3,237.74	139.62	3,239.66	2.47	2.44	0.44
12,713.00	91.17	359.76	9,040.12	3,333.72	139.20	3,335.63	0.38	0.38	0.02
12,808.00	91.84	0.13	9,037.62	3,428.69	139.11	3,430.58	0.81	0.71	0.39
12,903.00	90.37	1.05	9,035.79	3,523.66	140.08	3,525.55	1.83	-1.55	0.97
12,999.00	90.30	1.42	9,035.23	3,619.64	142.15	3,621.55	0.39	-0.07	0.39
13,094.00	90.47	0.94	9,034.59	3,714.61	144.11	3,716.55	0.54	0.18	-0.51
13,190.00	87.85	0.89	9,036.00	3,810.58	145.64	3,812.53	2.73	-2.73	-0.05
13,285.00	87.55	1.54	9,039.81	3,905.49	147.65	3,907.45	0.75	-0.32	0.68
13,380.00	86.71	1.00	9,044.57	4,000.34	149.76	4,002.33	1.05	-0.88	-0.57
13,427.39	87.77	0.91	9,046.85	4,047.67	150.55	4,049.67	2.24	2.23	-0.19
Ap1[CT531H]									
13,475.00	88.83	0.82	9,048.26	4,095.25	151.27	4,097.25	2.24	2.23	-0.19
13,570.00	90.17	1.21	9,049.09	4,190.23	152.95	4,192.25	1.47	1.41	0.41
13,664.00	90.44	1.10	9,048.59	4,284.21	154.84	4,286.24	0.31	0.29	-0.12
13,759.00	89.90	0.78	9,048.31	4,379.20	156.40	4,381.24	0.66	-0.57	-0.34
13,853.00	92.01	1.40	9,046.74	4,473.16	158.19	4,475.22	2.34	2.24	0.66
13,949.00	92.08	0.86	9,043.32	4,569.08	160.08	4,571.16	0.57	0.07	-0.56
14,044.00	92.71	1.05	9,039.35	4,663.98	161.66	4,666.08	0.69	0.66	0.20
14,139.00	93.12	0.60	9,034.52	4,758.85	163.03	4,760.96	0.64	0.43	-0.47
14,234.00	93.15	1.80	9,029.32	4,853.69	165.02	4,855.81	1.26	0.03	1.26
14,330.00	91.37	1.35	9,025.53	4,949.57	167.65	4,951.73	1.91	-1.85	-0.47
14,425.00	90.87	1.08	9,023.68	5,044.53	169.67	5,046.71	0.60	-0.53	-0.28
14,521.00	91.14	1.40	9,021.99	5,140.49	171.74	5,142.69	0.44	0.28	0.33
14,615.00	91.47	1.29	9,019.85	5,234.44	173.95	5,236.67	0.37	0.35	-0.12
14,711.00	91.68	1.15	9,017.21	5,330.39	175.99	5,332.63	0.26	0.22	-0.15
14,806.00	90.87	0.11	9,015.10	5,425.35	177.04	5,427.60	1.39	-0.85	-1.09
14,902.00	91.34	0.58	9,013.25	5,521.33	177.61	5,523.58	0.69	0.49	0.49
14,997.00	89.36	359.24	9,012.67	5,616.33	177.46	5,618.55	2.52	-2.08	-1.41
15,092.00	89.83	359.18	9,013.34	5,711.31	176.15	5,713.50	0.50	0.49	-0.06
15,188.00	90.10	359.54	9,013.40	5,807.31	175.08	5,809.46	0.47	0.28	0.38
15,283.00	91.31	359.02	9,012.23	5,902.29	173.89	5,904.41	1.39	1.27	-0.55
15,378.00	90.77	359.29	9,010.51	5,997.26	172.49	5,999.35	0.64	-0.57	0.28
15,473.00	91.27	359.08	9,008.81	6,092.24	171.14	6,094.28	0.57	0.53	-0.22
15,569.00	90.57	0.20	9,007.27	6,188.22	170.53	6,190.24	1.38	-0.73	1.17
15,627.59	90.67	359.97	9,006.64	6,246.81	170.62	6,248.82	0.43	0.18	-0.39
Ap2[CT531H]									
15,664.00	90.74	359.83	9,006.19	6,283.22	170.56	6,285.22	0.43	0.18	-0.39
15,759.00	90.84	358.97	9,004.88	6,378.20	169.56	6,380.18	0.91	0.11	-0.91
15,855.00	91.21	358.29	9,003.16	6,474.16	167.27	6,476.08	0.81	0.39	-0.71
15,949.00	91.14	359.94	9,001.23	6,568.12	165.82	6,570.01	1.76	-0.07	1.76
16,045.00	91.14	1.02	8,999.32	6,664.10	166.62	6,665.98	1.12	0.00	1.13
16,140.00	92.25	1.06	8,996.51	6,759.04	168.35	6,760.94	1.17	1.17	0.04
16,234.00	90.30	1.43	8,994.42	6,852.99	170.39	6,854.91	2.11	-2.07	0.39

Company:	Devon Energy	Local Co-ordinate Reference:	Well #531H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3464.00usft
Site:	Chincoteague 8-32 Fed State Com	MD Reference:	KB = 24' @ 3464.00usft
Well:	#531H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,330.00	90.10	1.13	8,994.09	6,948.97	172.53	6,950.91	0.38	-0.21	-0.31
16,424.00	91.34	2.12	8,992.90	7,042.92	175.20	7,044.89	1.69	1.32	1.05
16,520.00	91.81	3.38	8,990.27	7,138.77	179.80	7,140.81	1.40	0.49	1.31
16,615.00	91.14	2.34	8,987.82	7,233.62	184.54	7,235.72	1.30	-0.71	-1.09
16,709.00	91.41	1.94	8,985.73	7,327.53	188.05	7,329.68	0.51	0.29	-0.43
16,804.00	91.71	2.66	8,983.14	7,422.42	191.86	7,424.62	0.82	0.32	0.76
16,899.00	90.64	2.17	8,981.19	7,517.31	195.86	7,519.57	1.24	-1.13	-0.52
16,994.00	91.01	2.32	8,979.83	7,612.23	199.58	7,614.54	0.42	0.39	0.16
17,089.00	91.78	1.05	8,977.51	7,707.15	202.38	7,709.50	1.56	0.81	-1.34
17,183.00	92.92	359.84	8,973.66	7,801.07	203.11	7,803.41	1.77	1.21	-1.29
17,279.00	93.79	0.45	8,968.04	7,896.90	203.35	7,899.24	1.11	0.91	0.64
17,374.00	90.80	358.85	8,964.24	7,991.81	202.77	7,994.12	3.57	-3.15	-1.68
17,469.00	89.80	358.99	8,963.74	8,086.79	200.98	8,089.06	1.06	-1.05	0.15
17,529.51	89.52	359.04	8,964.10	8,147.30	199.94	8,149.53	0.47	-0.46	0.08
Ap3[CT531H]									
17,565.00	89.36	359.07	8,964.44	8,182.78	199.35	8,185.00	0.47	-0.46	0.08
17,660.00	89.73	359.17	8,965.20	8,277.76	197.89	8,279.94	0.40	0.39	0.11
17,755.00	90.40	358.85	8,965.09	8,372.75	196.25	8,374.89	0.78	0.71	-0.34
17,850.00	91.11	359.47	8,963.84	8,467.73	194.86	8,469.83	0.99	0.75	0.65
17,945.00	91.24	359.79	8,961.89	8,562.70	194.24	8,564.78	0.36	0.14	0.34
18,040.00	91.78	0.28	8,959.39	8,657.67	194.30	8,659.73	0.77	0.57	0.52
18,129.31	90.78	0.30	8,957.40	8,746.96	194.75	8,749.02	1.13	-1.13	0.02
Ap4[CT531H]									
18,136.00	90.70	0.30	8,957.31	8,753.65	194.79	8,755.70	1.13	-1.13	0.02
18,231.00	89.50	0.23	8,957.14	8,848.64	195.23	8,850.69	1.27	-1.26	-0.07
18,327.00	88.09	359.44	8,959.16	8,944.62	194.95	8,946.65	1.68	-1.47	-0.82
18,422.00	88.16	359.86	8,962.27	9,039.57	194.37	9,041.57	0.45	0.07	0.44
18,517.00	87.89	359.64	8,965.54	9,134.51	193.96	9,136.49	0.37	-0.28	-0.23
18,612.00	86.72	359.01	8,970.01	9,229.39	192.84	9,231.35	1.40	-1.23	-0.66
18,707.00	86.07	358.86	8,975.98	9,324.19	191.08	9,326.10	0.70	-0.68	-0.16
18,801.00	86.34	359.63	8,982.21	9,417.97	189.84	9,419.85	0.87	0.29	0.82
18,897.00	86.14	359.93	8,988.50	9,513.77	189.47	9,515.62	0.38	-0.21	0.31
18,992.00	87.99	1.08	8,993.37	9,608.63	190.31	9,610.49	2.29	1.95	1.21
19,085.00	89.97	1.14	8,995.02	9,701.60	192.11	9,703.47	2.13	2.13	0.06
19,181.00	90.70	1.75	8,994.46	9,797.56	194.53	9,799.46	0.99	0.76	0.64
19,276.00	90.27	0.89	8,993.66	9,892.53	196.72	9,894.45	1.01	-0.45	-0.91
19,371.00	90.87	0.59	8,992.71	9,987.52	197.95	9,989.45	0.71	0.63	-0.32
19,467.00	91.47	0.56	8,990.75	10,083.49	198.91	10,085.43	0.63	0.63	-0.03
19,563.00	88.19	359.21	8,991.04	10,179.48	198.72	10,181.39	3.69	-3.42	-1.41
19,658.00	88.89	358.58	8,993.46	10,274.43	196.89	10,276.30	0.99	0.74	-0.66
19,753.00	89.43	358.26	8,994.85	10,369.38	194.27	10,371.19	0.66	0.57	-0.34
19,849.00	90.40	358.25	8,994.99	10,465.34	191.34	10,467.08	1.01	1.01	-0.01
19,944.00	90.23	357.58	8,994.47	10,560.27	187.89	10,561.94	0.73	-0.18	-0.71
20,040.00	90.77	0.23	8,993.63	10,656.24	186.05	10,657.87	2.82	0.56	2.76

Company:	Devon Energy	Local Co-ordinate Reference:	Well #531H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3464.00usft
Site:	Chincoteague 8-32 Fed State Com	MD Reference:	KB = 24' @ 3464.00usft
Well:	#531H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,135.00	91.58	0.79	8,991.68	10,751.22	186.90	10,752.84	1.04	0.85	0.59	
20,231.00	89.73	0.91	8,990.59	10,847.20	188.32	10,848.83	1.93	-1.93	0.13	
20,326.00	89.90	1.31	8,990.89	10,942.18	190.16	10,943.83	0.46	0.18	0.42	
20,422.00	87.08	0.48	8,993.42	11,038.12	191.66	11,039.79	3.06	-2.94	-0.86	
20,517.00	87.15	359.79	8,998.20	11,133.00	191.89	11,134.65	0.73	0.07	-0.73	
20,612.00	86.75	359.07	9,003.26	11,227.86	190.94	11,229.48	0.87	-0.42	-0.76	
20,708.00	85.87	358.84	9,009.44	11,323.64	189.20	11,325.22	0.95	-0.92	-0.24	
20,803.00	85.71	358.67	9,016.41	11,418.37	187.14	11,419.89	0.25	-0.17	-0.18	
20,899.00	87.32	359.23	9,022.25	11,514.17	185.38	11,515.65	1.78	1.68	0.58	
20,994.00	88.09	359.42	9,026.05	11,609.08	184.26	11,610.54	0.83	0.81	0.20	
21,088.00	87.62	358.53	9,029.57	11,703.00	182.58	11,704.41	1.07	-0.50	-0.95	
21,183.00	89.73	1.16	9,031.77	11,797.96	182.33	11,799.35	3.55	2.22	2.77	
21,278.00	90.87	1.15	9,031.27	11,892.94	184.24	11,894.35	1.20	1.20	-0.01	
21,372.00	90.87	0.85	9,029.84	11,986.92	185.88	11,988.34	0.32	0.00	-0.32	
21,468.00	91.41	0.56	9,027.93	12,082.89	187.06	12,084.32	0.64	0.56	-0.30	
21,563.00	90.77	0.57	9,026.12	12,177.87	188.00	12,179.30	0.67	-0.67	0.01	
21,657.00	89.33	1.07	9,026.04	12,271.85	189.35	12,273.29	1.62	-1.53	0.53	
21,752.00	89.83	1.26	9,026.74	12,366.83	191.28	12,368.29	0.56	0.53	0.20	
21,848.00	90.50	1.24	9,026.46	12,462.81	193.37	12,464.29	0.70	0.70	-0.02	
21,941.00	91.24	1.22	9,025.05	12,555.78	195.37	12,557.28	0.80	0.80	-0.02	
21,961.00	91.27	1.38	9,024.61	12,575.77	195.82	12,577.27	0.81	0.15	0.80	
FINAL MWD Survey (21961.00' MD)										
22,025.00	91.27	1.38	9,023.19	12,639.73	197.36	12,641.25	0.00	0.00	0.00	
FINAL Proj. to Bit (22025.00' MD) - BHL[CT531H]										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
21,961.00	9,024.61	12,575.77	195.82	FINAL MWD Survey (21961.00' MD)	
22,025.00	9,023.19	12,639.73	197.36	FINAL Proj. to Bit (22025.00' MD)	

Checked By: _____	Approved By: _____	Date: _____
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