

DISTRICT I
1625 N. FRENCH DR., HOBBES, 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) 748-8720

DISTRICT III
1000 RIO BRAZOS RD., 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, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45909	Pool Code 53805	Pool Name SAND DUNES; BONE SPRING, SOUTH
Property Code 325417	Property Name TODD 36-25 STATE FED COM	Well Number 233H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3508.0'

Surface Location

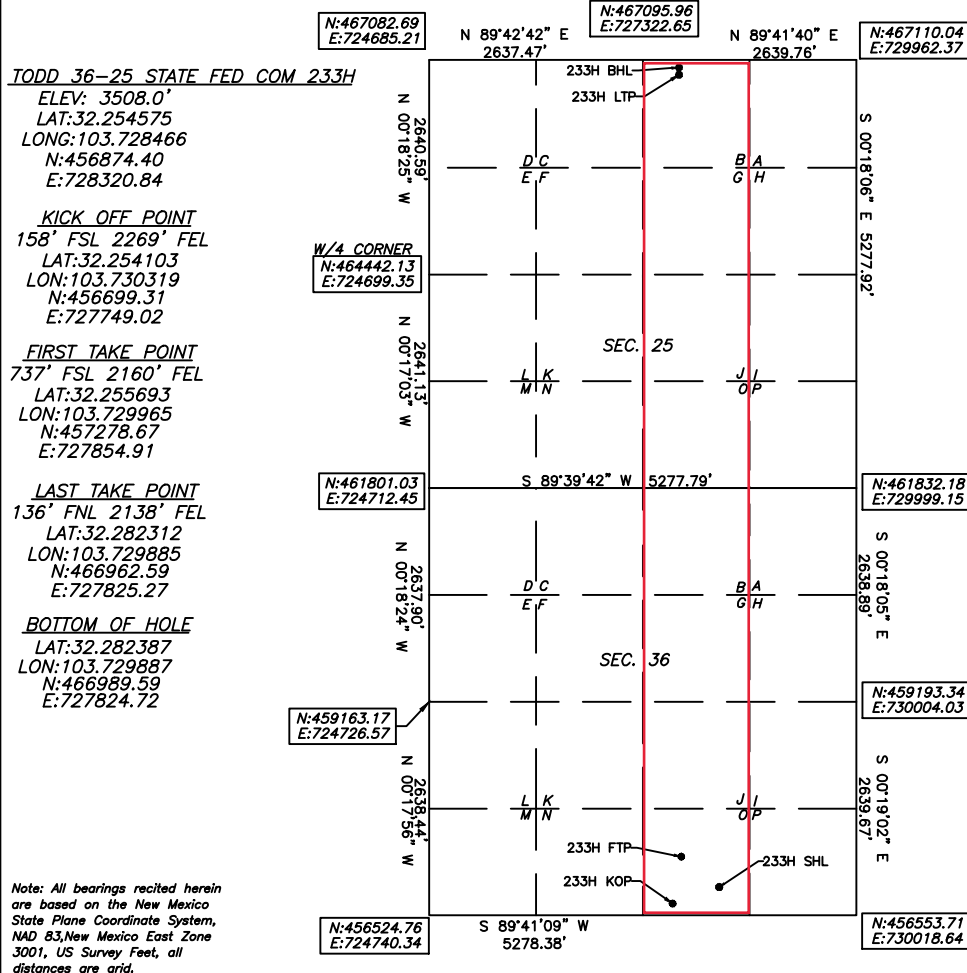
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	36	23-S	31-E		330	SOUTH	1696	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	25	23-S	31-E		109	NORTH	2138	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	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



OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jenny Harms 5-18-2020
Signature Date

JENNY HARMS

Printed Name

JENNY.HARMS@DVN.COM

E-mail Address

SURVEYOR CERTIFICATION

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.

9/2019

Date of Survey

Signature & Seal of Professional Surveyor

B. L. LAMAN
NEW MEXICO
22404
PROFESSIONAL SURVEYOR

04/29/20

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

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

Todd 36-25 Fed Com 233H

HP 466

I, Deanna Jacobs, certify the surveys supplied on
Todd 36-25 State Com 233H are correct and accurate to the best of my
knowledge and are supported by actual field data.

Deanna Jacobs

Date: 4/28/2020

Devon Energy

Eddy County, NM (NAD83 NME)

Todd 36-25 State Fed Com

233H

OH

Survey: SDI MWD Surveys

Standard Survey Report

16 September, 2019



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 233H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Site:	Todd 36-25 State Fed Com	MD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Well:	233H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Eddy 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	Todd 36-25 State Fed Com		
Site Position:		Northing:	456,874.40 usft
From:	Map	Easting:	728,320.84 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 16.470 N
		Longitude:	103° 43' 42.476 W
		Grid Convergence:	0.32 °

Well	233H		
Well Position	+N/-S	0.00 usft	Northing: 456,874.40 usft
	+E/-W	0.00 usft	Easting: 728,320.84 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 15' 16.470 N
		Longitude:	103° 43' 42.476 W
		Ground Level:	3,508.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	6/20/2019	6.75
			Dip Angle (°)
			59.93
			Field Strength (nT)
			47,928

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)
	0.00	0.00	0.00
			Direction (bearing)
			357.07

Survey Program	Date	9/16/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
139.00	20,542.00	SDI MWD Surveys (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	
139.00	0.66	49.56	139.00	0.52	0.61	0.49	0.47	0.47	0.00	
243.00	0.47	71.79	242.99	1.04	1.47	0.96	0.28	-0.18	21.38	
339.00	0.64	87.74	338.99	1.19	2.38	1.06	0.24	0.18	16.61	
434.00	0.37	60.10	433.98	1.36	3.18	1.20	0.38	-0.28	-29.09	
529.00	0.59	100.54	528.98	1.42	3.92	1.22	0.41	0.23	42.57	
624.00	0.62	132.10	623.98	0.99	4.79	0.74	0.35	0.03	33.22	
720.00	0.20	50.40	719.97	0.75	5.30	0.48	0.65	-0.44	-85.10	
790.00	0.45	78.20	789.97	0.88	5.66	0.59	0.41	0.36	39.71	
905.00	0.39	198.59	904.97	0.60	5.98	0.30	0.63	-0.05	104.69	

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 233H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Site:	Todd 36-25 State Fed Com	MD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Well:	233H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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)
999.00	0.27	194.35	998.97	0.08	5.82	-0.21	0.13	-0.13	-4.51
1,095.00	0.27	199.97	1,094.97	-0.35	5.69	-0.64	0.03	0.00	5.85
1,191.00	0.23	198.18	1,190.97	-0.74	5.55	-1.03	0.04	-0.04	-1.86
1,318.00	0.10	182.85	1,317.97	-1.10	5.47	-1.37	0.11	-0.10	-12.07
1,381.00	0.13	251.26	1,380.97	-1.17	5.40	-1.45	0.21	0.05	108.59
1,477.00	0.14	12.96	1,476.97	-1.09	5.32	-1.36	0.25	0.01	126.77
1,572.00	0.15	322.49	1,571.97	-0.88	5.27	-1.15	0.13	0.01	-53.13
1,668.00	0.12	43.67	1,667.97	-0.71	5.26	-0.98	0.18	-0.03	84.56
1,763.00	0.13	106.16	1,762.97	-0.67	5.44	-0.94	0.14	0.01	65.78
1,858.00	0.07	109.76	1,857.97	-0.72	5.59	-1.00	0.06	-0.06	3.79
1,953.00	0.09	138.66	1,952.97	-0.79	5.70	-1.08	0.05	0.02	30.42
2,049.00	0.07	69.15	2,048.97	-0.83	5.80	-1.12	0.10	-0.02	-72.41
2,144.00	0.14	85.78	2,143.97	-0.80	5.97	-1.10	0.08	0.07	17.51
2,239.00	0.17	48.68	2,238.97	-0.70	6.19	-1.01	0.11	0.03	-39.05
2,335.00	0.27	348.76	2,334.96	-0.38	6.26	-0.70	0.25	0.10	-62.42
2,431.00	0.31	323.44	2,430.96	0.05	6.06	-0.26	0.14	0.04	-26.38
2,527.00	0.49	335.45	2,526.96	0.63	5.73	0.34	0.21	0.19	12.51
2,622.00	0.51	333.69	2,621.96	1.38	5.38	1.10	0.03	0.02	-1.85
2,718.00	0.71	341.27	2,717.95	2.32	5.00	2.07	0.22	0.21	7.90
2,814.00	0.94	341.28	2,813.94	3.63	4.55	3.40	0.24	0.24	0.01
2,909.00	1.05	335.75	2,908.93	5.17	3.94	4.96	0.15	0.12	-5.82
3,005.00	1.16	318.80	3,004.91	6.70	2.94	6.54	0.36	0.11	-17.66
3,100.00	2.46	276.86	3,099.86	7.67	0.29	7.64	1.87	1.37	-44.15
3,196.00	4.04	261.93	3,195.71	7.44	-5.11	7.69	1.85	1.65	-15.55
3,291.00	6.21	254.83	3,290.32	5.62	-13.38	6.30	2.38	2.28	-7.47
3,387.00	8.71	251.39	3,385.50	1.94	-25.28	3.23	2.64	2.60	-3.58
3,482.00	9.49	251.04	3,479.31	-2.90	-39.51	-0.87	0.82	0.82	-0.37
3,577.00	8.56	248.71	3,573.13	-8.01	-53.50	-5.26	1.05	-0.98	-2.45
3,673.00	8.84	249.85	3,668.03	-13.14	-67.08	-9.70	0.34	0.29	1.19
3,768.00	8.29	250.07	3,761.97	-17.99	-80.38	-13.86	0.58	-0.58	0.23
3,864.00	7.94	245.56	3,857.01	-23.09	-92.92	-18.32	0.76	-0.36	-4.70
3,959.00	7.80	243.99	3,951.11	-28.64	-104.69	-23.25	0.27	-0.15	-1.65
4,054.00	7.83	244.84	4,045.23	-34.21	-116.34	-28.22	0.13	0.03	0.89
4,148.00	9.04	244.22	4,138.21	-40.15	-128.78	-33.51	1.29	1.29	-0.66
4,243.00	9.30	241.32	4,232.00	-47.08	-142.24	-39.75	0.56	0.27	-3.05
4,338.00	8.10	241.20	4,325.90	-53.99	-154.84	-46.00	1.26	-1.26	-0.13
4,434.00	7.76	246.23	4,420.98	-59.86	-166.70	-51.26	0.80	-0.35	5.24
4,529.00	8.38	254.98	4,515.05	-64.24	-179.25	-54.99	1.45	0.65	9.21
4,624.00	8.35	257.72	4,609.04	-67.50	-192.68	-57.56	0.42	-0.03	2.88
4,720.00	7.96	259.18	4,704.07	-70.23	-206.02	-59.61	0.46	-0.41	1.52
4,815.00	8.08	259.82	4,798.14	-72.64	-219.05	-61.35	0.16	0.13	0.67
4,911.00	8.19	259.39	4,893.17	-75.10	-232.41	-63.12	0.13	0.11	-0.45
5,006.00	7.58	260.45	4,987.27	-77.38	-245.24	-64.74	0.66	-0.64	1.12
5,102.00	7.45	258.65	5,082.45	-79.66	-257.59	-66.39	0.28	-0.14	-1.88

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 233H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Site:	Todd 36-25 State Fed Com	MD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Well:	233H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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)	
5,197.00	8.41	255.50	5,176.54	-82.61	-270.35	-68.68	1.11	1.01	-3.32	
5,293.00	8.95	252.56	5,271.44	-86.60	-284.27	-71.96	0.73	0.56	-3.06	
5,388.00	8.31	251.19	5,365.36	-91.03	-297.82	-75.69	0.71	-0.67	-1.44	
5,484.00	7.56	249.33	5,460.44	-95.50	-310.30	-79.51	0.83	-0.78	-1.94	
5,579.00	8.37	254.86	5,554.53	-99.51	-322.82	-82.88	1.17	0.85	5.82	
5,675.00	8.84	257.66	5,649.45	-102.91	-336.77	-85.56	0.66	0.49	2.92	
5,770.00	8.54	256.27	5,743.36	-106.15	-350.75	-88.08	0.39	-0.32	-1.46	
5,865.00	8.64	257.05	5,837.29	-109.42	-364.56	-90.64	0.16	0.11	0.82	
5,960.00	8.26	257.52	5,931.26	-112.49	-378.18	-93.01	0.41	-0.40	0.49	
6,056.00	8.28	256.47	6,026.26	-115.60	-391.63	-95.43	0.16	0.02	-1.09	
6,151.00	8.11	257.60	6,120.29	-118.64	-404.83	-97.79	0.25	-0.18	1.19	
6,246.00	7.74	256.60	6,214.38	-121.56	-417.59	-100.06	0.42	-0.39	-1.05	
6,342.00	7.46	257.51	6,309.54	-124.41	-429.97	-102.27	0.32	-0.29	0.95	
6,437.00	7.24	258.03	6,403.76	-126.98	-441.84	-104.23	0.24	-0.23	0.55	
6,532.00	6.64	259.97	6,498.06	-129.18	-453.11	-105.85	0.68	-0.63	2.04	
6,628.00	6.10	263.39	6,593.47	-130.73	-463.64	-106.86	0.69	-0.56	3.56	
6,723.00	5.11	267.20	6,688.02	-131.52	-472.88	-107.18	1.11	-1.04	4.01	
6,818.00	4.49	264.56	6,782.68	-132.08	-480.81	-107.33	0.69	-0.65	-2.78	
6,914.00	4.47	260.65	6,878.39	-133.04	-488.24	-107.91	0.32	-0.02	-4.07	
7,104.00	4.17	253.84	7,067.85	-136.17	-502.18	-110.32	0.31	-0.16	-3.58	
7,200.00	3.95	248.44	7,163.61	-138.36	-508.61	-112.18	0.46	-0.23	-5.63	
7,390.00	3.70	249.90	7,353.19	-142.87	-520.45	-116.08	0.14	-0.13	0.77	
7,486.00	3.57	246.98	7,448.99	-145.10	-526.11	-118.02	0.24	-0.14	-3.04	
7,677.00	3.17	245.53	7,639.66	-149.61	-536.39	-122.00	0.21	-0.21	-0.76	
7,772.00	3.36	247.72	7,734.51	-151.76	-541.36	-123.89	0.24	0.20	2.31	
7,868.00	3.28	247.36	7,830.35	-153.88	-546.50	-125.75	0.09	-0.08	-0.38	
7,963.00	2.92	245.60	7,925.21	-155.93	-551.21	-127.55	0.39	-0.38	-1.85	
8,058.00	2.98	244.18	8,020.08	-158.00	-555.64	-129.39	0.10	0.06	-1.49	
8,258.00	3.08	249.01	8,219.80	-162.19	-565.33	-133.08	0.14	0.05	2.42	
8,345.00	3.01	253.79	8,306.68	-163.67	-569.71	-134.33	0.30	-0.08	5.49	
8,441.00	3.07	251.35	8,402.55	-165.19	-574.56	-135.61	0.15	0.06	-2.54	
8,537.00	2.93	256.92	8,498.41	-166.57	-579.39	-136.74	0.34	-0.15	5.80	
8,625.00	3.02	255.53	8,586.30	-167.66	-583.82	-137.60	0.13	0.10	-1.58	
8,727.00	2.76	255.17	8,688.17	-168.96	-588.80	-138.64	0.26	-0.25	-0.35	
8,822.00	1.58	219.37	8,783.10	-170.56	-591.84	-140.08	1.84	-1.24	-37.68	
8,917.00	1.70	159.92	8,878.07	-172.89	-592.19	-142.40	1.72	0.13	-62.58	
9,013.00	1.02	154.49	8,974.04	-175.00	-591.33	-144.55	0.72	-0.71	-5.66	
9,108.00	1.85	120.42	9,069.01	-176.54	-589.65	-146.17	1.22	0.87	-35.86	
9,203.00	2.17	92.15	9,163.95	-177.38	-586.53	-147.17	1.08	0.34	-29.76	
9,299.00	2.02	86.93	9,259.89	-177.36	-583.02	-147.33	0.25	-0.16	-5.44	
9,394.00	0.97	60.83	9,354.86	-176.88	-580.65	-146.97	1.29	-1.11	-27.47	
9,489.00	0.33	46.25	9,449.85	-176.30	-579.75	-146.43	0.69	-0.67	-15.35	
9,585.00	0.64	124.24	9,545.85	-176.41	-579.10	-146.58	0.68	0.32	81.24	

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 233H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Site:	Todd 36-25 State Fed Com	MD Reference:	KB = 23' @ 3531.00usft (H&P 466)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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)
9,680.00	0.75	141.53	9,640.84	-177.19	-578.28	-147.40	0.25	0.12	18.20
9,775.00	1.75	100.91	9,735.82	-177.96	-576.47	-148.26	1.34	1.05	-42.76
9,870.00	1.60	109.80	9,830.78	-178.68	-573.79	-149.12	0.32	-0.16	9.36
9,964.00	9.84	19.41	9,924.31	-171.53	-569.88	-142.18	10.62	8.77	-96.16
10,060.00	21.19	21.07	10,016.66	-147.53	-560.89	-118.66	11.83	11.82	1.73
10,155.00	30.74	24.41	10,101.97	-109.30	-544.64	-81.32	10.17	10.05	3.52
10,250.00	37.32	17.17	10,180.69	-59.61	-526.08	-32.64	8.12	6.93	-7.62
10,346.00	43.99	12.27	10,253.50	0.86	-510.38	26.95	7.70	6.95	-5.10
10,382.96	45.95	11.76	10,279.65	26.40	-504.95	52.18	5.38	5.29	-1.37
FTP[T36-25/233H]									
10,441.00	49.02	11.03	10,318.87	68.34	-496.50	93.63	5.38	5.30	-1.26
10,536.00	57.49	8.08	10,375.66	143.34	-483.99	167.89	9.25	8.92	-3.11
10,632.00	62.95	4.08	10,423.34	226.15	-475.25	250.14	6.74	5.69	-4.17
10,727.00	70.96	4.29	10,460.49	313.26	-468.87	336.82	8.43	8.43	0.22
10,822.00	76.27	359.44	10,487.30	404.29	-465.95	427.58	7.43	5.59	-5.11
10,860.00	79.99	359.44	10,495.11	441.47	-466.32	464.73	9.79	9.79	0.00
10,955.00	83.98	359.32	10,508.36	535.52	-467.34	558.71	4.20	4.20	-0.13
11,050.00	87.71	359.78	10,515.24	630.25	-468.08	653.35	3.96	3.93	0.48
11,146.00	89.39	0.20	10,517.67	726.21	-468.10	749.19	1.80	1.75	0.44
11,241.00	90.91	0.73	10,517.42	821.21	-467.33	844.02	1.69	1.60	0.56
11,336.00	88.82	1.17	10,517.64	916.19	-465.75	938.80	2.25	-2.20	0.46
11,432.00	88.76	0.58	10,519.67	1,012.15	-464.28	1,034.56	0.62	-0.06	-0.61
11,527.00	91.07	1.03	10,519.81	1,107.14	-462.95	1,129.36	2.48	2.43	0.47
11,622.00	90.71	0.44	10,518.34	1,202.12	-461.73	1,224.15	0.73	-0.38	-0.62
11,718.00	90.94	0.31	10,516.95	1,298.11	-461.10	1,319.98	0.28	0.24	-0.14
11,813.00	90.20	359.44	10,516.01	1,393.10	-461.31	1,414.86	1.20	-0.78	-0.92
11,908.00	89.73	359.25	10,516.07	1,488.09	-462.40	1,509.78	0.53	-0.49	-0.20
12,003.00	90.13	358.75	10,516.18	1,583.08	-464.05	1,604.73	0.67	0.42	-0.53
12,099.00	90.47	358.56	10,515.68	1,679.05	-466.31	1,700.69	0.41	0.35	-0.20
12,194.00	87.69	357.55	10,517.20	1,773.97	-469.53	1,795.65	3.11	-2.93	-1.06
12,289.00	87.68	357.32	10,521.04	1,868.80	-473.78	1,890.58	0.24	-0.01	-0.24
12,385.00	88.69	356.86	10,524.08	1,964.63	-478.65	1,986.53	1.16	1.05	-0.48
12,480.00	89.23	356.44	10,525.81	2,059.45	-484.20	2,081.51	0.72	0.57	-0.44
12,575.00	91.54	356.71	10,525.17	2,154.27	-489.88	2,176.49	2.45	2.43	0.28
12,671.00	90.50	358.35	10,523.46	2,250.16	-494.01	2,272.47	2.02	-1.08	1.71
12,766.00	90.60	356.62	10,522.55	2,345.06	-498.18	2,367.46	1.82	0.11	-1.82
12,861.00	89.76	358.58	10,522.25	2,439.97	-502.16	2,462.45	2.24	-0.88	2.06
12,957.00	89.80	0.26	10,522.62	2,535.96	-503.13	2,558.37	1.75	0.04	1.75
13,052.00	90.84	2.32	10,522.09	2,630.93	-500.99	2,653.10	2.43	1.09	2.17
13,147.00	89.26	2.40	10,522.00	2,725.85	-497.08	2,747.69	1.67	-1.66	0.08
13,242.00	90.84	2.34	10,521.92	2,820.76	-493.15	2,842.28	1.66	1.66	-0.06
13,338.00	91.51	2.02	10,519.95	2,916.67	-489.50	2,937.88	0.77	0.70	-0.33
13,433.00	90.10	1.68	10,518.62	3,011.61	-486.43	3,032.54	1.53	-1.48	-0.36
13,528.00	87.48	359.31	10,520.62	3,106.57	-485.61	3,127.33	3.72	-2.76	-2.49

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 233H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Site:	Todd 36-25 State Fed Com	MD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Well:	233H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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)
13,624.00	88.22	359.24	10,524.23	3,202.50	-486.83	3,223.19	0.77	0.77	-0.07
13,719.00	89.16	358.63	10,526.40	3,297.45	-488.59	3,318.12	1.18	0.99	-0.64
13,814.00	90.74	358.51	10,526.48	3,392.42	-490.96	3,413.08	1.67	1.66	-0.13
13,909.00	90.94	358.18	10,525.09	3,487.37	-493.71	3,508.05	0.41	0.21	-0.35
14,005.00	91.28	357.50	10,523.23	3,583.28	-497.32	3,604.02	0.79	0.35	-0.71
14,100.00	90.81	359.35	10,521.50	3,678.23	-499.93	3,698.97	2.01	-0.49	1.95
14,195.00	90.27	358.73	10,520.60	3,773.21	-501.53	3,793.91	0.87	-0.57	-0.65
14,290.00	89.56	1.07	10,520.74	3,868.20	-501.69	3,888.79	2.57	-0.75	2.46
14,386.00	89.19	2.76	10,521.79	3,964.14	-498.48	3,984.44	1.80	-0.39	1.76
14,481.00	90.44	2.97	10,522.09	4,059.02	-493.74	4,078.95	1.33	1.32	0.22
14,576.00	88.86	2.66	10,522.67	4,153.90	-489.07	4,173.47	1.69	-1.66	-0.33
14,672.00	87.41	2.47	10,525.80	4,249.75	-484.78	4,268.97	1.52	-1.51	-0.20
14,767.00	88.52	2.31	10,529.17	4,344.60	-480.82	4,363.50	1.18	1.17	-0.17
14,862.00	90.40	2.70	10,530.07	4,439.51	-476.67	4,458.07	2.02	1.98	0.41
14,958.00	92.02	2.53	10,528.04	4,535.38	-472.29	4,553.59	1.70	1.69	-0.18
15,053.00	90.44	1.70	10,526.00	4,630.29	-468.78	4,648.20	1.88	-1.66	-0.87
15,148.00	89.29	0.69	10,526.23	4,725.27	-466.80	4,742.95	1.61	-1.21	-1.06
15,244.00	88.69	359.88	10,527.92	4,821.25	-466.32	4,838.78	1.05	-0.63	-0.84
15,339.00	88.99	359.33	10,529.84	4,916.23	-466.98	4,933.67	0.66	0.32	-0.58
15,434.00	90.07	359.54	10,530.62	5,011.22	-467.91	5,028.58	1.16	1.14	0.22
15,530.00	90.81	358.66	10,529.88	5,107.20	-469.42	5,124.52	1.20	0.77	-0.92
15,625.00	91.75	357.83	10,527.76	5,202.13	-472.33	5,219.47	1.32	0.99	-0.87
15,720.00	94.47	358.22	10,522.61	5,296.93	-475.60	5,314.31	2.89	2.86	0.41
15,816.00	90.57	358.94	10,518.39	5,392.78	-477.98	5,410.17	4.13	-4.06	0.75
15,911.00	89.23	359.34	10,518.55	5,487.77	-479.40	5,505.10	1.47	-1.41	0.42
16,006.00	92.18	359.31	10,517.38	5,582.75	-480.52	5,600.01	3.11	3.11	-0.03
16,101.00	91.65	359.84	10,514.21	5,677.69	-481.22	5,694.87	0.79	-0.56	0.56
16,197.00	89.97	359.46	10,512.85	5,773.68	-481.81	5,790.76	1.79	-1.75	-0.40
16,293.00	90.60	359.12	10,512.37	5,869.67	-483.00	5,886.68	0.75	0.66	-0.35
16,388.00	88.69	358.64	10,512.96	5,964.64	-484.86	5,981.63	2.07	-2.01	-0.51
16,483.00	90.30	359.16	10,513.80	6,059.62	-486.68	6,076.57	1.78	1.69	0.55
16,579.00	87.65	358.56	10,515.52	6,155.57	-488.59	6,172.50	2.83	-2.76	-0.63
16,674.00	92.36	0.03	10,515.51	6,250.54	-489.76	6,267.40	5.19	4.96	1.55
16,770.00	87.28	358.65	10,515.81	6,346.50	-490.86	6,363.29	5.48	-5.29	-1.44
16,865.00	86.10	0.21	10,521.30	6,441.33	-491.81	6,458.05	2.06	-1.24	1.64
16,961.00	86.78	0.17	10,527.26	6,537.14	-491.49	6,553.72	0.71	0.71	-0.04
17,056.00	88.08	0.18	10,531.52	6,632.04	-491.20	6,648.48	1.37	1.37	0.01
17,152.00	89.19	359.83	10,533.80	6,728.02	-491.19	6,744.33	1.21	1.16	-0.36
17,247.00	88.22	359.73	10,535.95	6,822.99	-491.56	6,839.20	1.03	-1.02	-0.11
17,342.00	89.87	359.81	10,537.53	6,917.97	-491.94	6,934.07	1.74	1.74	0.08
17,437.00	89.50	359.57	10,538.06	7,012.97	-492.45	7,028.97	0.46	-0.39	-0.25
17,533.00	89.40	359.68	10,538.98	7,108.96	-493.08	7,124.87	0.15	-0.10	0.11
17,628.00	89.93	0.18	10,539.53	7,203.96	-493.20	7,219.75	0.77	0.56	0.53

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 233H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Site:	Todd 36-25 State Fed Com	MD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Well:	233H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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)	
17,723.00	87.45	359.56	10,541.71	7,298.93	-493.41	7,314.61	2.69	-2.61	-0.65	
17,819.00	87.31	358.68	10,546.09	7,394.81	-494.88	7,410.44	0.93	-0.15	-0.92	
17,914.00	90.00	359.25	10,548.32	7,489.76	-496.60	7,505.36	2.89	2.83	0.60	
18,009.00	90.64	359.82	10,547.79	7,584.76	-497.37	7,600.27	0.90	0.67	0.60	
18,105.00	93.83	0.38	10,544.05	7,680.67	-497.20	7,696.05	3.37	3.32	0.58	
18,200.00	95.52	359.69	10,536.31	7,775.35	-497.14	7,790.60	1.92	1.78	-0.73	
18,296.00	92.65	359.92	10,529.47	7,871.10	-497.47	7,886.24	3.00	-2.99	0.24	
18,391.00	89.43	359.74	10,527.74	7,966.07	-497.75	7,981.10	3.39	-3.39	-0.19	
18,486.00	89.90	359.93	10,528.30	8,061.07	-498.03	8,075.99	0.53	0.49	0.20	
18,582.00	90.27	359.14	10,528.16	8,157.06	-498.80	8,171.90	0.91	0.39	-0.82	
18,678.00	90.81	358.65	10,527.25	8,253.04	-500.66	8,267.84	0.76	0.56	-0.51	
18,774.00	92.65	358.57	10,524.35	8,348.96	-502.98	8,363.76	1.92	1.92	-0.08	
18,869.00	89.50	0.56	10,522.57	8,443.93	-503.70	8,458.64	3.92	-3.32	2.09	
18,965.00	90.40	0.24	10,522.66	8,539.92	-503.03	8,554.47	0.99	0.94	-0.33	
19,060.00	89.30	1.28	10,522.91	8,634.91	-501.77	8,649.27	1.59	-1.16	1.09	
19,155.00	91.28	2.13	10,522.42	8,729.86	-498.95	8,743.96	2.27	2.08	0.89	
19,251.00	89.46	1.29	10,521.80	8,825.81	-496.08	8,839.63	2.09	-1.90	-0.88	
19,346.00	90.60	1.20	10,521.75	8,920.79	-494.02	8,934.38	1.20	1.20	-0.09	
19,442.00	91.07	0.93	10,520.36	9,016.76	-492.23	9,030.14	0.56	0.49	-0.28	
19,537.00	92.05	0.65	10,517.77	9,111.72	-490.93	9,124.90	1.07	1.03	-0.29	
19,632.00	90.64	359.94	10,515.54	9,206.69	-490.44	9,219.72	1.66	-1.48	-0.75	
19,727.00	87.51	359.81	10,517.07	9,301.66	-490.64	9,314.58	3.30	-3.29	-0.14	
19,823.00	87.89	0.23	10,520.93	9,397.59	-490.61	9,410.38	0.59	0.40	0.44	
19,918.00	88.99	0.00	10,523.51	9,492.55	-490.42	9,505.21	1.18	1.16	-0.24	
20,013.00	90.27	359.76	10,524.13	9,587.54	-490.62	9,600.09	1.37	1.35	-0.25	
20,108.00	91.45	359.94	10,522.70	9,682.53	-490.87	9,694.96	1.26	1.24	0.19	
20,204.00	92.48	359.52	10,519.41	9,778.47	-491.32	9,790.80	1.16	1.07	-0.44	
20,299.00	93.22	359.28	10,514.68	9,873.35	-492.31	9,885.61	0.82	0.78	-0.25	
20,395.00	93.93	359.28	10,508.70	9,969.15	-493.52	9,981.35	0.74	0.74	0.00	
20,489.00	94.57	358.83	10,501.73	10,062.88	-495.06	10,075.03	0.83	0.68	-0.48	
FINAL MWD Survey (20489.00' MD)										
20,540.45	94.57	358.83	10,497.63	10,114.16	-496.11	10,126.29	0.00	0.00	0.00	
BHL.New[T36-25/233H]										
20,542.00	94.57	358.83	10,497.51	10,115.70	-496.14	10,127.84	0.00	0.00	0.00	
FINAL Proj. to Bit (20542.00' MD) - BHL[T36-25/233H]										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
20,489.00	10,501.73	10,062.88	-495.06	FINAL MWD Survey (20489.00' MD)	
20,542.00	10,497.51	10,115.70	-496.14	FINAL Proj. to Bit (20542.00' MD)	

Scientific Drilling, Intl
Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 233H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Site:	Todd 36-25 State Fed Com	MD Reference:	KB = 23' @ 3531.00usft (H&P 466)
Well:	233H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Checked By: _____	Approved By: _____	Date: _____
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