

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) 748-8720

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 30-015-45906	Pool Code 53805	Pool Name SAND DUNES; BONE SPRING, SOUTH
Property Code 325417	Property Name TODD 36-25 STATE FED COM	Well Number 232H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3504.7'

Surface Location

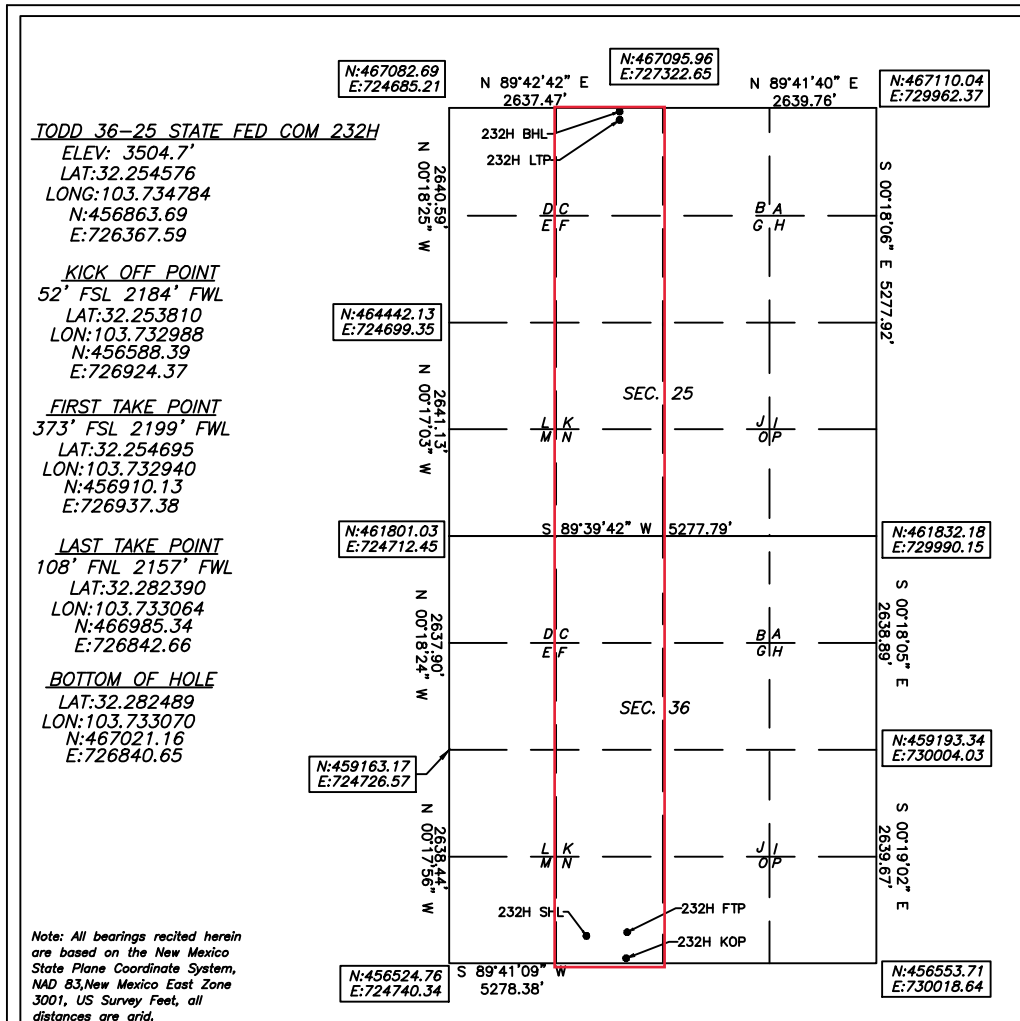
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	23-S	31-E		330	SOUTH	1629	WEST	EDDY

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
C	25	23-S	31-E		72	NORTH	2155	WEST	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 5-7-2020

Signature Date

JENNY HARMS

Printed Name

JENNY.HARMS@DVN.COM

E-mail Address

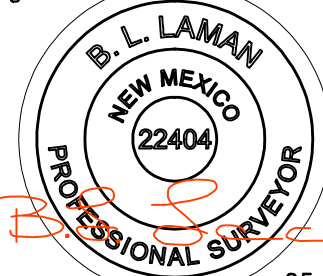
SURVEYOR CERTIFICATION

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.

7/2019

Date of Survey

Signature & Seal of Professional Surveyor



05/05/20

Certificate No. 22404 B.L. LAMAN

DRAWN BY: CM

Intent ☐ As Drilled ☐

API # 30-015-45906		
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



Final MWD Survey Certification

County, State: Eddy County, New Mexico

Client: Devon Energy

Well Name: Todd 36 State Federal Com 232H

API No: 30-015-45906

Start Date: July 08, 2019

End Date: July 24, 2019

Measure Start Depth: 240.00'

Measured End Depth: 20439.00'

Vertical Section from SHL to TD: 2.96° Azm

I, Jason Turner, MWD Coordinator, hereby certify that; I am employed by Newsco International Energy Services, Inc. and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Newsco International Energy Services, Inc. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Newsco International Energy Services, Inc.

Date: 05/01/2020

Sign: *Jason Turner*



Devon Energy

Eddy County, NM (N83-NME)

Todd State 36

Todd 36 25 State Federal Com 232H

30-015-45906

232H

Survey: Survey #1

Standard Survey Report

01 May, 2020

Company:	Devon Energy	Local Co-ordinate Reference:	Well Todd36 25 State Federal Com 232H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Site:	Todd State 36	MD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Well:	Todd 36 25 State Federal Com 232H	North Reference:	Grid
Wellbore:	232H	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Single User Db

Project	Eddy County, NM (N83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Todd State 36		
Site Position:		Northing:	456,863.71 usft
From:	Map	Easting:	726,367.59 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 16.473 N
		Longitude:	103° 44' 5.223 W
		Grid Convergence:	0.32 °

Well	Todd 36 25 State Federal Com 232H		
Well Position	+N/-S	0.00 usft	Northing: 456,863.87 usft
	+E/-W	0.00 usft	Easting: 726,397.60 usft
Position Uncertainty	0.00 usft		Latitude: 32° 15' 16.473 N
			Longitude: 103° 44' 4.873 W
		Wellhead Elevation:	usft
			Ground Level: 3,504.30 usft

Wellbore	232H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	07/03/19	6.81
			Dip Angle (°)
			60.04
			Field Strength (nT)
			47,728.44

Design	Surveys		
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 (°)
			2.96

Survey Program	Date	05/01/20		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
240.00	20,500.00	Survey #1 (232H)	MWD	OWSG MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	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
240.00	0.40	40.30	240.00	0.64	0.54	0.67	0.17	0.17	0.00
331.00	0.10	307.10	331.00	0.93	0.68	0.96	0.46	-0.33	-102.42
422.00	0.50	41.00	422.00	1.28	0.88	1.32	0.57	0.44	103.19
515.00	0.40	63.50	514.99	1.73	1.44	1.80	0.22	-0.11	24.19
607.00	0.50	62.80	606.99	2.05	2.08	2.16	0.11	0.11	-0.76
699.00	0.40	80.10	698.99	2.29	2.76	2.43	0.18	-0.11	18.80
746.00	0.40	64.90	745.99	2.39	3.07	2.55	0.23	0.00	-32.34
891.00	0.50	107.90	890.98	2.41	4.13	2.62	0.24	0.07	29.66
982.00	0.50	98.00	981.98	2.23	4.90	2.48	0.09	0.00	-10.88

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Site:	Todd State 36	MD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Well:	Todd 36 25 State Federal Com 232H	North Reference:	Grid
Wellbore:	232H	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,074.00	0.30	61.10	1,073.98	2.29	5.51	2.58	0.34	-0.22	-40.11
1,166.00	0.30	72.20	1,165.98	2.48	5.95	2.79	0.06	0.00	12.07
1,259.00	0.60	47.80	1,258.97	2.89	6.54	3.22	0.38	0.32	-26.24
1,349.00	0.40	28.10	1,348.97	3.48	7.04	3.84	0.29	-0.22	-21.89
1,441.00	0.40	47.10	1,440.97	3.98	7.42	4.36	0.14	0.00	20.65
1,533.00	0.40	14.20	1,532.96	4.51	7.74	4.90	0.25	0.00	-35.76
1,624.00	0.50	9.40	1,623.96	5.21	7.88	5.61	0.12	0.11	-5.27
1,718.00	0.60	29.90	1,717.96	6.04	8.19	6.46	0.23	0.11	21.81
1,812.00	0.50	33.50	1,811.95	6.81	8.66	7.25	0.11	-0.11	3.83
1,907.00	0.10	107.70	1,906.95	7.13	8.97	7.59	0.51	-0.42	78.11
2,001.00	0.20	112.20	2,000.95	7.04	9.20	7.51	0.11	0.11	4.79
2,096.00	0.30	35.20	2,095.95	7.19	9.50	7.67	0.34	0.11	-81.05
2,190.00	0.30	27.20	2,189.95	7.61	9.75	8.10	0.04	0.00	-8.51
2,284.00	0.40	57.60	2,283.95	8.00	10.14	8.51	0.22	0.11	32.34
2,378.00	0.40	53.20	2,377.95	8.37	10.68	8.91	0.03	0.00	-4.68
2,472.00	0.50	52.60	2,471.94	8.82	11.27	9.39	0.11	0.11	-0.64
2,567.00	0.80	52.70	2,566.94	9.47	12.13	10.08	0.32	0.32	0.11
2,661.00	1.30	44.00	2,660.92	10.64	13.39	11.31	0.56	0.53	-9.26
2,756.00	1.50	43.50	2,755.89	12.31	14.99	13.07	0.21	0.21	-0.53
2,849.00	1.80	74.70	2,848.86	13.58	17.24	14.45	1.00	0.32	33.55
2,943.00	1.80	81.10	2,942.81	14.20	20.12	15.22	0.21	0.00	6.81
3,037.00	1.90	80.20	3,036.76	14.69	23.12	15.87	0.11	0.11	-0.96
3,132.00	2.00	79.10	3,131.71	15.28	26.30	16.61	0.11	0.11	-1.16
3,227.00	2.20	77.90	3,226.64	15.97	29.71	17.48	0.22	0.21	-1.26
3,321.00	1.70	112.70	3,320.59	15.81	32.76	17.48	1.34	-0.53	37.02
3,416.00	1.80	113.90	3,415.55	14.66	35.42	16.47	0.11	0.11	1.26
3,511.00	2.60	147.60	3,510.48	12.24	37.94	14.18	1.57	0.84	35.47
3,606.00	2.30	150.60	3,605.39	8.76	40.03	10.81	0.34	-0.32	3.16
3,700.00	1.90	152.20	3,699.33	5.74	41.68	7.88	0.43	-0.43	1.70
3,795.00	2.60	144.80	3,794.25	2.58	43.66	4.83	0.80	0.74	-7.79
3,890.00	3.40	145.90	3,889.12	-1.51	46.48	0.89	0.84	0.84	1.16
3,985.00	3.20	149.30	3,983.97	-6.12	49.42	-3.56	0.29	-0.21	3.58
4,079.00	4.10	151.40	4,077.77	-11.33	52.36	-8.61	0.97	0.96	2.23
4,173.00	6.20	146.20	4,171.39	-18.50	56.80	-15.54	2.29	2.23	-5.53
4,268.00	7.40	144.80	4,265.72	-27.76	63.18	-24.46	1.28	1.26	-1.47
4,363.00	6.50	133.10	4,360.03	-36.44	70.63	-32.74	1.76	-0.95	-12.32
4,458.00	6.20	131.00	4,454.44	-43.47	78.43	-39.37	0.40	-0.32	-2.21
4,552.00	5.80	132.80	4,547.93	-50.03	85.74	-45.54	0.47	-0.43	1.91
4,646.00	6.20	124.90	4,641.41	-56.16	93.39	-51.27	0.98	0.43	-8.40
4,740.00	6.30	123.00	4,734.86	-61.88	101.88	-56.54	0.24	0.11	-2.02
4,835.00	6.30	125.20	4,829.28	-67.72	110.51	-61.93	0.25	0.00	2.32
4,930.00	6.50	121.50	4,923.69	-73.53	119.36	-67.28	0.48	0.21	-3.89
5,024.00	6.80	120.10	5,017.06	-79.11	128.71	-72.36	0.36	0.32	-1.49
5,118.00	6.70	121.50	5,110.41	-84.76	138.20	-77.52	0.20	-0.11	1.49

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Wellbore:	232H	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,212.00	7.10	122.60	5,203.73	-90.76	147.77	-83.01	0.45	0.43	1.17
5,307.00	7.20	123.70	5,297.99	-97.22	157.66	-88.96	0.18	0.11	1.16
5,402.00	7.20	124.80	5,392.24	-103.92	167.51	-95.14	0.15	0.00	1.16
5,497.00	7.30	126.60	5,486.48	-110.92	177.24	-101.62	0.26	0.11	1.89
5,592.00	7.30	127.70	5,580.71	-118.21	186.86	-108.41	0.15	0.00	1.16
5,686.00	7.20	120.10	5,673.96	-124.82	196.68	-114.50	1.03	-0.11	-8.09
5,781.00	7.30	119.80	5,768.20	-130.80	207.07	-119.94	0.11	0.11	-0.32
5,875.00	7.30	121.50	5,861.44	-136.89	217.35	-125.49	0.23	0.00	1.81
5,969.00	7.70	108.60	5,954.64	-142.02	228.41	-130.04	1.84	0.43	-13.72
6,064.00	7.80	106.80	6,048.77	-145.91	240.61	-133.30	0.28	0.11	-1.89
6,158.00	7.80	110.00	6,141.90	-149.94	252.71	-136.69	0.46	0.00	3.40
6,252.00	8.00	112.20	6,235.01	-154.59	264.76	-140.72	0.39	0.21	2.34
6,347.00	7.50	113.30	6,329.14	-159.54	276.58	-145.05	0.55	-0.53	1.16
6,442.00	7.20	115.60	6,423.36	-164.56	287.64	-149.50	0.44	-0.32	2.42
6,536.00	7.50	115.00	6,516.59	-169.70	298.51	-154.07	0.33	0.32	-0.64
6,631.00	7.50	115.80	6,610.78	-175.02	309.71	-158.80	0.11	0.00	0.84
6,726.00	7.00	115.00	6,705.02	-180.17	320.54	-163.38	0.54	-0.53	-0.84
6,820.00	6.90	115.10	6,798.33	-184.98	330.85	-167.66	0.11	-0.11	0.11
6,914.00	6.70	119.10	6,891.67	-190.04	340.75	-172.20	0.55	-0.21	4.26
7,009.00	6.30	120.40	6,986.06	-195.38	350.09	-177.05	0.45	-0.42	1.37
7,104.00	6.20	120.50	7,080.49	-200.62	359.00	-181.82	0.11	-0.11	0.11
7,199.00	5.70	122.30	7,174.98	-205.74	367.41	-186.51	0.56	-0.53	1.89
7,293.00	6.00	116.00	7,268.49	-210.39	375.77	-190.72	0.75	0.32	-6.70
7,388.00	6.80	109.30	7,362.90	-214.43	385.54	-194.24	1.15	0.84	-7.05
7,482.00	7.30	108.20	7,456.19	-218.13	396.47	-197.38	0.55	0.53	-1.17
7,577.00	7.30	109.30	7,550.42	-222.01	407.90	-200.66	0.15	0.00	1.16
7,671.00	7.40	109.40	7,643.65	-226.00	419.25	-204.06	0.11	0.11	0.11
7,765.00	7.30	111.80	7,736.87	-230.22	430.50	-207.70	0.34	-0.11	2.55
7,861.00	7.10	115.00	7,832.12	-235.00	441.54	-211.89	0.47	-0.21	3.33
7,955.00	7.10	117.10	7,925.40	-240.10	451.98	-216.45	0.28	0.00	2.23
8,051.00	7.00	119.10	8,020.67	-245.65	462.37	-221.45	0.28	-0.10	2.08
8,145.00	6.90	118.30	8,113.98	-251.11	472.35	-226.39	0.15	-0.11	-0.85
8,238.00	6.60	121.00	8,206.34	-256.51	481.85	-231.30	0.47	-0.32	2.90
8,333.00	6.30	121.70	8,300.73	-262.06	490.96	-236.37	0.33	-0.32	0.74
8,394.00	5.50	124.50	8,361.41	-265.48	496.22	-239.51	1.39	-1.31	4.59
8,502.00	4.20	125.20	8,469.02	-270.69	503.72	-244.33	1.20	-1.20	0.65
8,596.00	4.40	86.30	8,562.78	-272.44	510.13	-245.75	3.05	0.21	-41.38
8,690.00	5.50	88.90	8,656.42	-272.12	518.23	-245.01	1.19	1.17	2.77
8,784.00	5.50	103.70	8,750.00	-273.10	527.11	-245.53	1.50	0.00	15.74
8,878.00	4.00	102.00	8,843.67	-274.85	534.69	-246.88	1.60	-1.60	-1.81
8,972.00	2.70	106.70	8,937.51	-276.17	540.02	-247.93	1.41	-1.38	5.00
9,066.00	0.90	126.70	9,031.46	-277.24	542.74	-248.86	2.00	-1.91	21.28
9,160.00	0.50	240.50	9,125.45	-277.89	542.97	-249.49	1.27	-0.43	121.06

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Design:	Surveys	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,254.00	1.20	81.60	9,219.45	-277.95	543.59	-249.52	1.78	0.74	-169.04
9,348.00	2.30	73.20	9,313.40	-277.26	546.37	-248.69	1.20	1.17	-8.94
9,443.00	2.00	69.40	9,408.34	-276.12	549.74	-247.38	0.35	-0.32	-4.00
9,536.00	1.20	83.90	9,501.30	-275.45	552.23	-246.58	0.96	-0.86	15.59
9,631.00	1.20	100.30	9,596.28	-275.52	554.20	-246.55	0.36	0.00	17.26
9,725.00	1.30	119.40	9,690.26	-276.22	556.10	-247.15	0.45	0.11	20.32
9,762.00	1.20	134.40	9,727.25	-276.70	556.74	-247.59	0.92	-0.27	40.54
9,856.00	9.80	356.30	9,820.83	-269.38	556.93	-240.28	11.41	9.15	-146.91
9,903.00	16.40	356.60	9,866.58	-258.75	556.27	-229.70	14.04	14.04	0.64
9,950.00	21.90	0.50	9,910.96	-243.35	555.96	-214.33	12.01	11.70	8.30
9,997.00	27.20	3.90	9,953.70	-223.86	556.76	-194.82	11.67	11.28	7.23
10,044.00	30.90	3.70	9,994.78	-201.09	558.27	-172.01	7.88	7.87	-0.43
10,138.00	41.10	2.90	10,070.73	-146.00	561.40	-116.83	10.86	10.85	-0.85
10,185.00	48.00	3.00	10,104.20	-113.09	563.10	-83.88	14.68	14.68	0.21
10,232.00	52.10	4.30	10,134.38	-77.14	565.41	-47.86	8.98	8.72	2.77
10,326.00	63.80	1.50	10,184.18	2.28	569.30	31.66	12.70	12.45	-2.98
10,374.00	70.20	359.80	10,202.92	46.44	569.79	75.79	13.73	13.33	-3.54
10,421.00	73.50	359.50	10,217.56	91.09	569.52	120.37	7.05	7.02	-0.64
10,468.00	76.20	359.60	10,229.85	136.46	569.16	165.65	5.75	5.74	0.21
10,515.00	80.50	359.50	10,239.33	182.47	568.80	211.59	9.15	9.15	-0.21
10,563.00	86.90	0.30	10,244.60	230.16	568.72	259.21	13.44	13.33	1.67
10,610.00	87.30	0.40	10,246.98	277.10	569.00	306.10	0.88	0.85	0.21
10,705.00	87.50	359.10	10,251.29	372.00	568.59	400.85	1.38	0.21	-1.37
10,800.00	89.20	358.30	10,254.02	466.93	566.44	495.54	1.98	1.79	-0.84
10,895.00	90.80	357.40	10,254.02	561.86	562.87	590.16	1.93	1.68	-0.95
10,989.00	89.90	358.90	10,253.45	655.80	559.84	683.82	1.86	-0.96	1.60
11,084.00	90.80	357.70	10,252.87	750.76	557.02	778.51	1.58	0.95	-1.26
11,179.00	88.90	0.50	10,253.12	845.73	555.53	873.28	3.56	-2.00	2.95
11,274.00	90.00	0.50	10,254.03	940.72	556.36	968.18	1.16	1.16	0.00
11,368.00	91.60	359.90	10,252.72	1,034.71	556.68	1,062.06	1.82	1.70	-0.64
11,463.00	90.00	2.10	10,251.39	1,129.68	558.34	1,156.99	2.86	-1.68	2.32
11,558.00	90.80	2.70	10,250.73	1,224.59	562.32	1,251.98	1.05	0.84	0.63
11,652.00	87.70	1.80	10,251.96	1,318.50	566.01	1,345.95	3.43	-3.30	-0.96
11,747.00	88.60	3.30	10,255.02	1,413.35	570.23	1,440.90	1.84	0.95	1.58
11,841.00	89.20	1.90	10,256.83	1,507.23	574.50	1,534.88	1.62	0.64	-1.49
11,936.00	91.20	1.80	10,256.50	1,602.18	577.56	1,629.85	2.11	2.11	-0.11
12,030.00	90.10	0.80	10,255.43	1,696.15	579.70	1,723.80	1.58	-1.17	-1.06
12,124.00	89.20	358.20	10,256.00	1,790.13	578.88	1,817.62	2.93	-0.96	-2.77
12,219.00	91.30	357.20	10,255.59	1,885.05	575.06	1,912.21	2.45	2.21	-1.05
12,314.00	89.60	358.10	10,254.84	1,979.96	571.17	2,006.80	2.02	-1.79	0.95
12,409.00	91.10	358.30	10,254.26	2,074.91	568.19	2,101.47	1.59	1.58	0.21
12,533.00	90.30	359.60	10,252.75	2,198.87	565.91	2,225.15	1.23	-0.65	1.05
12,627.00	87.90	359.10	10,254.22	2,292.85	564.85	2,318.95	2.61	-2.55	-0.53

Company:	Devon Energy	Local Co-ordinate Reference:	Well Todd36 25 State Federal Com 232H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Site:	Todd State 36	MD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Well:	Todd 36 25 State Federal Com 232H	North Reference:	Grid
Wellbore:	232H	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,722.00	88.30	358.60	10,257.37	2,387.78	562.94	2,413.65	0.67	0.42	-0.53
12,817.00	89.20	358.20	10,259.45	2,482.72	560.29	2,508.33	1.04	0.95	-0.42
12,912.00	89.60	358.20	10,260.44	2,577.66	557.31	2,602.99	0.42	0.42	0.00
13,006.00	90.30	357.60	10,260.52	2,671.60	553.86	2,696.63	0.98	0.74	-0.64
13,101.00	88.70	359.00	10,261.35	2,766.55	551.04	2,791.30	2.24	-1.68	1.47
13,196.00	89.60	1.10	10,262.76	2,861.53	551.13	2,886.16	2.40	0.95	2.21
13,291.00	89.90	1.20	10,263.18	2,956.51	553.03	2,981.12	0.33	0.32	0.11
13,385.00	90.30	359.30	10,263.01	3,050.51	553.44	3,075.01	2.07	0.43	-2.02
13,480.00	90.90	0.90	10,262.02	3,145.50	553.61	3,169.88	1.80	0.63	1.68
13,574.00	91.50	1.50	10,260.05	3,239.46	555.58	3,263.81	0.90	0.64	0.64
13,668.00	89.30	0.50	10,259.39	3,333.43	557.22	3,357.75	2.57	-2.34	-1.06
13,763.00	87.20	359.00	10,262.29	3,428.38	556.80	3,452.55	2.72	-2.21	-1.58
13,858.00	87.50	0.50	10,266.69	3,523.27	556.39	3,547.29	1.61	0.32	1.58
13,952.00	87.80	0.50	10,270.54	3,617.19	557.21	3,641.13	0.32	0.32	0.00
14,047.00	88.20	358.80	10,273.86	3,712.13	556.63	3,735.91	1.84	0.42	-1.79
14,141.00	88.50	359.20	10,276.56	3,806.07	554.99	3,829.65	0.53	0.32	0.43
14,236.00	88.80	0.60	10,278.80	3,901.05	554.82	3,924.48	1.51	0.32	1.47
14,330.00	88.10	359.90	10,281.34	3,995.01	555.23	4,018.34	1.05	-0.74	-0.74
14,425.00	88.30	355.10	10,284.33	4,089.84	551.09	4,112.84	5.05	0.21	-5.05
14,519.00	89.00	355.30	10,286.54	4,183.49	543.23	4,205.95	0.77	0.74	0.21
14,615.00	89.10	354.00	10,288.14	4,279.05	534.28	4,300.93	1.36	0.10	-1.35
14,707.00	89.80	356.00	10,289.02	4,370.69	526.26	4,392.03	2.30	0.76	2.17
14,801.00	90.00	353.90	10,289.18	4,464.32	517.99	4,485.11	2.24	0.21	-2.23
14,896.00	90.60	354.70	10,288.69	4,558.85	508.55	4,579.02	1.05	0.63	0.84
14,990.00	90.70	356.10	10,287.62	4,652.54	501.02	4,672.20	1.49	0.11	1.49
15,085.00	91.00	355.30	10,286.21	4,747.26	493.89	4,766.43	0.90	0.32	-0.84
15,179.00	91.40	354.30	10,284.24	4,840.85	485.38	4,859.45	1.15	0.43	-1.06
15,273.00	92.00	355.30	10,281.45	4,934.42	476.86	4,952.46	1.24	0.64	1.06
15,368.00	89.30	358.20	10,280.38	5,029.25	471.48	5,046.88	4.17	-2.84	3.05
15,463.00	88.50	2.50	10,282.20	5,124.20	472.06	5,141.74	4.60	-0.84	4.53
15,557.00	88.70	2.00	10,284.50	5,218.10	475.75	5,235.70	0.57	0.21	-0.53
15,652.00	87.90	2.90	10,287.31	5,312.97	479.80	5,330.66	1.27	-0.84	0.95
15,747.00	88.60	4.10	10,290.22	5,407.75	485.60	5,425.60	1.46	0.74	1.26
15,842.00	88.60	2.20	10,292.54	5,502.57	490.82	5,520.57	2.00	0.00	-2.00
15,937.00	89.00	1.70	10,294.53	5,597.50	494.05	5,615.53	0.67	0.42	-0.53
16,031.00	89.80	3.50	10,295.51	5,691.39	498.32	5,709.52	2.10	0.85	1.91
16,125.00	89.90	1.30	10,295.76	5,785.30	502.25	5,803.51	2.34	0.11	-2.34
16,219.00	90.20	1.20	10,295.68	5,879.28	504.30	5,897.47	0.34	0.32	-0.11
16,314.00	90.80	3.40	10,294.85	5,974.19	508.11	5,992.45	2.40	0.63	2.32
16,409.00	91.00	1.40	10,293.35	6,069.09	512.09	6,087.43	2.12	0.21	-2.11
16,503.00	89.60	1.70	10,292.86	6,163.05	514.63	6,181.40	1.52	-1.49	0.32
16,598.00	89.80	1.60	10,293.36	6,258.01	517.37	6,276.38	0.24	0.21	-0.11
16,693.00	90.20	3.20	10,293.36	6,352.93	521.35	6,371.37	1.74	0.42	1.68
16,787.00	90.80	1.80	10,292.54	6,446.83	525.45	6,465.36	1.62	0.64	-1.49

Company:	Devon Energy	Local Co-ordinate Reference:	Well Todd36 25 State Federal Com 232H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Site:	Todd State 36	MD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Well:	Todd 36 25 State Federal Com 232H	North Reference:	Grid
Wellbore:	232H	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,882.00	91.40	3.00	10,290.71	6,541.73	529.43	6,560.33	1.41	0.63	1.26
16,977.00	89.60	2.40	10,289.89	6,636.61	533.90	6,655.33	2.00	-1.89	-0.63
17,071.00	89.70	0.40	10,290.46	6,730.58	536.20	6,749.28	2.13	0.11	-2.13
17,166.00	90.50	1.10	10,290.29	6,825.57	537.44	6,844.21	1.12	0.84	0.74
17,259.00	88.50	0.50	10,291.11	6,918.55	538.74	6,937.14	2.25	-2.15	-0.65
17,354.00	88.70	0.40	10,293.43	7,013.52	539.48	7,032.02	0.24	0.21	-0.11
17,448.00	89.00	359.50	10,295.31	7,107.50	539.40	7,125.87	1.01	0.32	-0.96
17,543.00	89.40	359.70	10,296.64	7,202.49	538.74	7,220.70	0.47	0.42	0.21
17,636.00	89.70	359.00	10,297.37	7,295.48	537.68	7,313.51	0.82	0.32	-0.75
17,730.00	90.00	359.90	10,297.62	7,389.47	536.78	7,407.33	1.01	0.32	0.96
17,826.00	90.30	359.00	10,297.37	7,485.47	535.86	7,503.15	0.99	0.31	-0.94
17,920.00	90.50	0.40	10,296.71	7,579.46	535.37	7,596.99	1.50	0.21	1.49
18,014.00	89.50	359.00	10,296.71	7,673.46	534.88	7,690.84	1.83	-1.06	-1.49
18,108.00	89.90	1.00	10,297.20	7,767.45	534.88	7,784.70	2.17	0.43	2.13
18,203.00	90.10	1.10	10,297.20	7,862.44	536.62	7,879.65	0.24	0.21	0.11
18,298.00	90.10	358.70	10,297.04	7,957.43	536.45	7,974.51	2.53	0.00	-2.53
18,393.00	90.40	358.10	10,296.62	8,052.39	533.80	8,069.21	0.71	0.32	-0.63
18,488.00	90.20	359.40	10,296.12	8,147.36	531.73	8,163.95	1.38	-0.21	1.37
18,582.00	90.50	358.70	10,295.55	8,241.35	530.17	8,257.73	0.81	0.32	-0.74
18,677.00	90.90	357.70	10,294.39	8,336.29	527.18	8,352.39	1.13	0.42	-1.05
18,771.00	89.30	358.30	10,294.22	8,430.23	523.90	8,446.04	1.82	-1.70	0.64
18,866.00	88.90	359.60	10,295.72	8,525.20	522.16	8,540.79	1.43	-0.42	1.37
18,960.00	89.20	359.60	10,297.28	8,619.19	521.51	8,634.62	0.32	0.32	0.00
19,055.00	89.40	357.30	10,298.44	8,714.14	518.94	8,729.31	2.43	0.21	-2.42
19,149.00	89.90	357.70	10,299.01	8,808.05	514.84	8,822.88	0.68	0.53	0.43
19,243.00	89.90	358.20	10,299.17	8,901.99	511.47	8,916.52	0.53	0.00	0.53
19,338.00	89.70	357.50	10,299.51	8,996.92	507.91	9,011.14	0.77	-0.21	-0.74
19,432.00	88.70	0.40	10,300.82	9,090.88	506.19	9,104.89	3.26	-1.06	3.09
19,526.00	88.60	358.30	10,303.03	9,184.84	505.12	9,198.67	2.24	-0.11	-2.23
19,620.00	88.60	359.90	10,305.33	9,278.80	503.65	9,292.43	1.70	0.00	1.70
19,715.00	89.70	359.60	10,306.74	9,373.79	503.23	9,387.27	1.20	1.16	-0.32
19,810.00	90.70	358.30	10,306.41	9,468.77	501.49	9,482.03	1.73	1.05	-1.37
19,905.00	91.10	359.20	10,304.92	9,563.73	499.42	9,576.76	1.04	0.42	0.95
20,000.00	91.60	359.60	10,302.68	9,658.70	498.42	9,671.55	0.67	0.53	0.42
20,094.00	91.90	357.20	10,299.81	9,752.61	495.80	9,765.21	2.57	0.32	-2.55
20,189.00	92.20	356.90	10,296.41	9,847.43	490.92	9,859.64	0.45	0.32	-0.32
20,284.00	92.50	356.60	10,292.51	9,942.19	485.53	9,954.00	0.45	0.32	-0.32
20,379.00	93.40	356.60	10,287.62	10,036.90	479.91	10,048.29	0.95	0.95	0.00
20,439.00	93.60	356.80	10,283.96	10,096.69	476.46	10,107.82	0.47	0.33	0.33
Last Survey - 20439.00' MD, 10283.96' TVD									
20,500.00	93.60	356.80	10,280.13	10,157.47	473.06	10,168.35	0.00	0.00	0.00
PTB									

Company:	Devon Energy	Local Co-ordinate Reference:	Well Todd36 25 State Federal Com 232H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Site:	Todd State 36	MD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Well:	Todd 36 25 State Federal Com 232H	North Reference:	Grid
Wellbore:	232H	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Single User Db

Design Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
Offset-Todd 36 State ;		0.00	0.00	0.00	2,952.91	311.10	459,816.78	726,708.71	32° 15' 45.676 N 103° 44' 1.058 W
- survey misses target center by 2969.26usft at 8.56usft MD (8.56 TVD, 0.00 N, 0.00 E)									
- Point									
Offset-Aldabra 25 Fec		0.00	0.00	0.00	5,151.16	575.12	462,015.03	726,972.73	32° 16' 7.414 N 103° 43' 57.840 W
- survey misses target center by 5183.18usft at 15.01usft MD (15.01 TVD, 0.00 N, 0.00 E)									
- Point									
A 25 Fed 3H @ 20R		0.00	0.00	0.00	5,066.28	608.44	461,930.15	727,006.04	32° 16' 6.572 N 103° 43' 57.458 W
- survey misses target center by 5102.70usft at 14.86usft MD (14.86 TVD, 0.00 N, 0.00 E)									
- Circle (radius 10.00)									
Offset-Todd 25 C Fed		0.00	0.00	0.00	9,873.17	-62.40	466,737.04	726,335.20	32° 16' 54.175 N 103° 44' 4.959 W
- survey misses target center by 9873.39usft at 26.14usft MD (26.14 TVD, 0.01 N, 0.01 E)									
- Point									
Offset-Todd 36 C Stat		0.00	0.00	0.00	4,270.81	-28.80	461,134.69	726,368.81	32° 15' 58.736 N 103° 44' 4.931 W
- survey misses target center by 4270.92usft at 11.30usft MD (11.30 TVD, 0.00 N, 0.00 E)									
- Point									
Offset-Todd 25 Fed #1		0.00	0.00	0.00	8,224.90	267.49	465,088.78	726,665.09	32° 16' 37.847 N 103° 44' 1.223 W
- survey misses target center by 8229.28usft at 22.50usft MD (22.50 TVD, 0.01 N, 0.00 E)									
- Point									
FTP(TS232)		0.00	0.00	10,248.0	-226.84	577.33	456,637.03	726,974.93	32° 15' 14.196 N 103° 43' 58.165 W
- survey misses target center by 183.62usft at 10191.02usft MD (10108.21 TVD, -108.61 N, 563.34 E)									
- Point									
LP(TS232)		0.00	0.00	10,248.0	3.14	575.98	456,867.01	726,973.58	32° 15' 16.472 N 103° 43' 58.166 W
- survey misses target center by 58.08usft at 10351.81usft MD (10194.87 TVD, 25.77 N, 569.73 E)									
- Point									
MP(TS232)		0.52	359.70	10,298.0	5,548.96	546.84	462,412.84	726,944.44	32° 16' 11.352 N 103° 43' 58.144 W
- survey misses target center by 54.48usft at 15890.38usft MD (10293.63 TVD, 5550.90 N, 492.57 E)									
- Point									
T1(TS232)		0.00	0.00	10,298.1	5,566.40	557.41	462,430.27	726,955.01	32° 16' 11.524 N 103° 43' 58.019 W
- survey misses target center by 64.42usft at 15908.16usft MD (10293.99 TVD, 5568.67 N, 493.16 E)									
- Point									
PBHL(TS232)		0.12	359.70	10,308.0	10,210.06	522.68	467,073.94	726,920.29	32° 16' 57.477 N 103° 43' 58.121 W
- survey misses target center by 77.49usft at 20500.00usft MD (10280.13 TVD, 10157.47 N, 473.06 E)									
- Point									
LTP(TS232)		0.00	0.00	10,308.0	10,149.46	523.00	467,013.33	726,920.60	32° 16' 56.877 N 103° 43' 58.121 W
- survey misses target center by 56.41usft at 20487.48usft MD (10280.92 TVD, 10145.00 N, 473.76 E)									
- Point									
DEL- PBHL(TS232)		0.00	0.00	10,550.0	10,210.08	527.67	467,073.95	726,925.28	32° 16' 57.477 N 103° 43' 58.063 W
- survey misses target center by 280.32usft at 20500.00usft MD (10280.13 TVD, 10157.47 N, 473.06 E)									
- Point									
CS(TS232)		0.00	0.00	10,550.0	4,964.46	467.01	461,828.33	726,864.62	32° 16' 5.572 N 103° 43' 59.112 W
- survey misses target center by 269.45usft at 15300.50usft MD (10280.68 TVD, 4961.83 N, 474.81 E)									
- Point									



Company:	Devon Energy	Local Co-ordinate Reference:	Well Todd36 25 State Federal Com 232H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Site:	Todd State 36	MD Reference:	3404.3+23.5 @ 3527.80usft (Cactus 168)
Well:	Todd 36 25 State Federal Com 232H	North Reference:	Grid
Wellbore:	232H	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.15 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
20,439.00	10,283.96	10,096.69	476.46	Last Survey - 20439.00' MD, 10283.96' TVD
20,500.00	10,280.13	10,157.47	473.06	PTB