

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011
Submit one copy to appropriate District Office
☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Devon Energy Production Company, L.P. 333 West Sheridan, Oklahoma City, OK 73102		² OGRID Number 6137
		³ Reason for Filing Code/ Effective Date NW / 3/28/21
⁴ API Number 30-015-46505	⁵ Pool Name JENNINGS; BONE SPRING, WEST	⁶ Pool Code 97860
⁷ Property Code 326742	⁸ Property Name THOROUGHbred 10-3 FED COM	⁹ Well Number 332H

II. 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
N	10	26S	31E		220	South	1500	West	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
00C	3	26S	31E		53	North	2206	West	EDDY
¹² Lse Code F	¹³ Producing Method Code	¹⁴ Gas Connection Date 3/28/21	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
020445	Plains Marketing P.O. Box 4648 Houston, TX 77210	Oil
329657	Cotton Draw Midstream 333 W. Sheridan Ave. Oklahoma City, OK 73102	Gas

IV. Well Completion Data

²¹ Spud Date 5/5/20	²² Ready Date 3/28/21	²³ TD 21816	²⁴ PBDT 21751	²⁵ Perforations 11463 - 21692	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	1454	324		
9.875	8.625	10560	955		
7.875	5.5	21801	1401		
	Tubing:	0			

V. Well Test Data

³¹ Date New Oil 4/20/21	³² Gas Delivery Date 4/20/21	³³ Test Date 4/20/21	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 3719 psi	³⁶ Csg. Pressure 2918 psi
³⁷ Choke Size	³⁸ Oil 670 bbl	³⁹ Water 4237 bbl	⁴⁰ Gas 3070 mcf		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Chelsey Green			Approved by: KURT SIMMONS		
Title: Regulatory Specialist			Title: NMOCD, SANTA FE		
E-mail Address: chelsey.green@dvn.com			Approval Date: 08/09/2021		
Date: 6/4/2021		Phone: 405-228-8595			

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 30-015-46505	² Pool Code 97860	³ Pool Name JENNINGS ; BONE SPRING, WEST
⁴ Property Code	⁵ Property Name THOROUGHbred 10-3 FED	⁶ Well Number 332H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3243.6

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
N	10	26 S	31 E		220	SOUTH	1500	WESY	EDDY

¹¹ 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	3	26 S	31 E		53	NORTH	2206	WEST	EDDY

¹² Dedicated Acres 320	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.

NW CORNER SEC. 3 LAT. = 32.0794257°N LONG. = 103.7746036°W NMSP EAST (FT) N = 393080.37 E = 714388.80 W/4 CORNER SEC. 3 LAT. = 32.0721021°N LONG. = 103.7746226°W NMSP EAST (FT) N = 390416.16 E = 714396.70 SECTION CORNER LAT. = 32.0647759°N LONG. = 103.7746296°W NMSP EAST (FT) N = 387751.03 E = 714408.32 W/4 CORNER SEC. 10 LAT. = 32.0574487°N LONG. = 103.7746489°W NMSP EAST (FT) N = 385085.53 E = 714416.14 SW CORNER SEC. 10 LAT. = 32.0501214°N LONG. = 103.7746546°W NMSP EAST (FT) N = 382420.01 E = 714428.17		N89°33'37"E 2656.98 FT N89°30'53"E 2661.61 FT 2206' BOTTOM OF HOLE LTP BOTTOM OF HOLE LAT. = 32.0792951°N LONG. = 103.7674815°W NMSP EAST (FT) N = 393044.37 E = 716594.93 LAST TAKE POINT 177' FNL, 2211' FWL LAT. = 32.0789546°N LONG. = 1103.7674688°W SEC. 3 AS-DRILLED QUARTER CORNER SCALED N89°33'39"E 2663.43 FT N89°33'39"E 2663.43 FT THOROUGHbred 10-3 FED 332H ELEV. = 3243.6' LAT. = 32.0507336°N (NAD83) LONG. = 103.7698137°W NMSP EAST (FT) N = 382650.49 E = 715926.84 FIRST TAKE POINT 286' FSL, 2047' FWL LAT. = 32.0509166°N LONG. = 103.7680475°W KICK OFF POINT 20' FSL, 1999' FWL LAT. = 32.0501874°N LONG. = 103.7682045°W SURFACE LOCATION 220' 1500' KOP S/4 CORNER SEC. 10 LAT. = 32.0501346°N LONG. = 103.7660329°W NMSP EAST (FT) N = 382438.73 E = 717099.38		NE CORNER SEC. 3 LAT. = 32.0794668°N LONG. = 103.7574356°W NMSP EAST (FT) N = 393123.30 E = 719706.10 E/4 CORNER SEC. 3 LAT. = 32.0721403°N LONG. = 103.7574402°W NMSP EAST (FT) N = 390458.06 E = 719718.90 SECTION CORNER LAT. = 32.0648111°N LONG. = 103.7574377°W NMSP EAST (FT) N = 387791.85 E = 719733.91 E/4 CORNER SEC. 10 LAT. = 32.0574807°N LONG. = 103.7574542°W NMSP EAST (FT) N = 385125.16 E = 719743.03 SE CORNER SEC. 10 LAT. = 32.0501483°N LONG. = 103.7574177°W NMSP EAST (FT) N = 382457.83 E = 719768.56	
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17 OPERATOR CERTIFICATION

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.

Chelsey Green 06/02/21
Signature Date

CHELSEY GREEN
Printed Name

CHELSEY.GREEN@DVN.COM
E-mail Address

18 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.

JUNE 1, 2021
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

Certificate Number: 12797
Survey No. 7229A

Intent ☐ As Drilled ☒

API # 30-015-46505		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: THOROUGHbred 10-3 FED	Well Number 332H

Kick Off Point (KOP)

UL N	Section 10	Township 26S	Range 31E	Lot	Feet 20	From N/S SOUTH	Feet 1999	From E/W WEST	County EDDY
Latitude 32.0501874					Longitude 103.7682045				NAD 83

First Take Point (FTP)

UL N	Section 10	Township 26S	Range 31E	Lot	Feet 286	From N/S SOUTH	Feet 2047	From E/W WEST	County EDDY
Latitude 32.0509166					Longitude 103.7680475				NAD 83

Last Take Point (LTP)

UL C	Section 3	Township 26S	Range 31E	Lot	Feet 177	From N/S NORTH	Feet 2211	From E/W WEST	County EDDY
Latitude 32.0789546					Longitude 103.7674688				NAD 83

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

KZ 06/29/2018

Devon

SURVEY REPORT

Thoroughbred 10-3 Fed Com 732H

Patterson 575

I, Deanna Jacobs, certify the surveys supplied on
Thoroughbred 10-3 Fed Com 732H are correct and accurate to the best of my
knowledge and are supported by actual field data.

Deanna Jacobs

Date: 8/3/2020



The **Ultimate Partner** In Wellbore Placement



Devon Energy

Eddy County, NM (NAD83 NME)
Thoroughbred Pad
Thoroughbred 10-3 Fed Com 332H

OH Wellbore

Design: As Drilled

Standard Survey Report

27 May, 2020



www.scientificdrilling.com





Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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		Thoroughbred Pad, SH of Thoroughbred 711H			
Site Position:		Northing:		382,642.42 usft	
From:		Easting:		714,777.09 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Map		13-3/16 "		0.30 °	
0.00 usft					

Well	Thoroughbred 10-3 Fed Com 332H, 3rd Bone Spring Sandstone					
Well Position	+N/-S	0.00 usft	Northing:	382,650.49 usft	Latitude:	32.050734
	+E/-W	0.00 usft	Easting:	715,926.84 usft	Longitude:	-103.769814
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,269.00 usft	Ground Level:	3,244.00 usft

Wellbore	OH Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	4/24/2020	6.57	59.63	47,650.30000000

Design	As Drilled				
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 (°)	
	0.00	0.00	0.00	3.68	

Survey Program	Date	5/27/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.00	1,366.00	Survey #1 Surface (OH Wellbore)	MWD+HDGM	OWSG MWD + HDGM	
1,512.00	21,816.00	Survey #2 (OH Wellbore)	MWD+HDGM	OWSG MWD + HDGM	

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	
176.00	0.34	210.92	176.00	-0.45	-0.27	-0.46	0.19	0.19	0.00	
267.00	0.57	308.30	267.00	-0.40	-0.76	-0.45	0.77	0.25	107.01	
360.00	0.39	233.58	359.99	-0.30	-1.38	-0.39	0.65	-0.19	-80.34	
450.00	0.62	247.56	449.99	-0.67	-2.08	-0.80	0.29	0.26	15.53	
541.00	0.77	262.28	540.98	-0.94	-3.14	-1.14	0.25	0.16	16.18	
632.00	0.51	233.69	631.98	-1.26	-4.07	-1.52	0.44	-0.29	-31.42	
724.00	0.62	249.56	723.97	-1.68	-4.87	-1.99	0.21	0.12	17.25	
816.00	0.46	281.61	815.97	-1.78	-5.69	-2.14	0.36	-0.17	34.84	
908.00	0.27	272.09	907.97	-1.69	-6.27	-2.09	0.22	-0.21	-10.35	



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
999.00	0.44	205.89	998.97	-2.00	-6.64	-2.42	0.45	0.19	-72.75
1,090.00	0.21	188.70	1,089.97	-2.48	-6.82	-2.91	0.27	-0.25	-18.89
1,181.00	0.08	128.34	1,180.97	-2.68	-6.79	-3.11	0.20	-0.14	-66.33
1,273.00	0.24	321.30	1,272.97	-2.57	-6.86	-3.01	0.35	0.17	-181.57
1,366.00	0.24	328.84	1,365.96	-2.25	-7.09	-2.71	0.03	0.00	8.11
1,512.00	0.67	329.48	1,511.96	-1.26	-7.68	-1.75	0.29	0.29	0.44
1,606.00	0.96	340.36	1,605.95	-0.04	-8.22	-0.57	0.35	0.31	11.57
1,700.00	1.20	315.56	1,699.93	1.40	-9.17	0.81	0.55	0.26	-26.38
1,795.00	1.19	329.34	1,794.91	2.96	-10.37	2.29	0.30	-0.01	14.51
1,890.00	0.38	233.09	1,889.91	3.62	-11.13	2.90	1.36	-0.85	-101.32
1,984.00	2.28	137.53	1,983.88	2.05	-10.12	1.40	2.50	2.02	-101.66
2,079.00	4.46	118.80	2,078.71	-1.12	-5.60	-1.48	2.54	2.29	-19.72
2,174.00	6.55	108.69	2,173.27	-4.64	2.77	-4.45	2.42	2.20	-10.64
2,268.00	8.91	112.66	2,266.41	-9.16	14.57	-8.20	2.57	2.51	4.22
2,363.00	10.82	109.20	2,360.00	-14.93	29.78	-12.98	2.10	2.01	-3.64
2,458.00	10.09	109.11	2,453.43	-20.58	46.06	-17.58	0.77	-0.77	-0.09
2,553.00	10.41	106.92	2,546.91	-25.81	62.14	-21.76	0.53	0.34	-2.31
2,647.00	9.64	104.16	2,639.47	-30.20	77.89	-25.13	0.97	-0.82	-2.94
2,742.00	9.23	102.18	2,733.19	-33.76	93.05	-27.71	0.55	-0.43	-2.08
2,836.00	8.57	103.26	2,826.06	-36.95	107.24	-29.99	0.72	-0.70	1.15
2,931.00	8.41	103.32	2,920.02	-40.18	120.89	-32.33	0.17	-0.17	0.06
3,025.00	8.71	103.74	3,012.97	-43.45	134.49	-34.72	0.33	0.32	0.45
3,120.00	9.29	105.91	3,106.80	-47.26	148.85	-37.60	0.71	0.61	2.28
3,214.00	9.14	107.65	3,199.59	-51.61	163.26	-41.01	0.34	-0.16	1.85
3,309.00	9.85	106.13	3,293.28	-56.15	178.26	-44.58	0.79	0.75	-1.60
3,403.00	10.26	108.15	3,385.84	-60.99	193.94	-48.40	0.58	0.44	2.15
3,498.00	10.22	109.11	3,479.33	-66.39	209.94	-52.76	0.18	-0.04	1.01
3,592.00	10.06	111.85	3,571.86	-72.17	225.44	-57.53	0.54	-0.17	2.91
3,687.00	9.13	112.61	3,665.53	-78.16	240.10	-62.57	0.99	-0.98	0.80
3,781.00	9.67	119.43	3,758.27	-84.91	253.86	-68.41	1.32	0.57	7.26
3,876.00	10.88	113.08	3,851.75	-92.34	269.06	-74.86	1.74	1.27	-6.68
3,971.00	9.09	112.51	3,945.31	-98.73	284.24	-80.26	1.89	-1.88	-0.60
4,066.00	9.19	111.26	4,039.10	-104.35	298.25	-84.97	0.23	0.11	-1.32
4,160.00	8.91	109.04	4,131.93	-109.45	312.12	-89.16	0.48	-0.30	-2.36
4,255.00	9.29	107.97	4,225.73	-114.22	326.37	-93.00	0.44	0.40	-1.13
4,349.00	10.77	109.06	4,318.29	-119.42	341.89	-97.21	1.59	1.57	1.16
4,444.00	11.15	107.42	4,411.56	-125.07	359.04	-101.74	0.52	0.40	-1.73
4,539.00	10.59	109.35	4,504.86	-130.72	376.04	-106.28	0.70	-0.59	2.03
4,633.00	10.93	107.15	4,597.20	-136.21	392.71	-110.68	0.57	0.36	-2.34
4,727.00	9.91	105.87	4,689.65	-141.05	409.01	-114.47	1.11	-1.09	-1.36
4,822.00	9.88	104.01	4,783.24	-145.25	424.78	-117.65	0.34	-0.03	-1.96
4,917.00	9.25	104.49	4,876.92	-149.14	440.08	-120.55	0.67	-0.66	0.51
5,011.00	9.24	103.12	4,969.70	-152.74	454.74	-123.20	0.23	-0.01	-1.46



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
5,106.00	8.02	99.06	5,063.62	-155.52	468.72	-125.07	1.43	-1.28	-4.27
5,201.00	7.17	98.60	5,157.79	-157.45	481.12	-126.20	0.90	-0.89	-0.48
5,296.00	5.81	100.30	5,252.18	-159.19	491.72	-127.26	1.45	-1.43	1.79
5,391.00	5.23	102.93	5,346.74	-161.02	500.67	-128.51	0.67	-0.61	2.77
5,486.00	5.35	98.66	5,441.33	-162.66	509.26	-129.59	0.43	0.13	-4.49
5,580.00	5.11	101.52	5,534.94	-164.15	517.70	-130.54	0.38	-0.26	3.04
5,675.00	5.56	96.74	5,629.53	-165.54	526.42	-131.36	0.67	0.47	-5.03
5,769.00	4.14	103.68	5,723.19	-166.87	534.23	-132.20	1.63	-1.51	7.38
5,864.00	2.85	118.10	5,818.01	-168.80	539.65	-133.77	1.63	-1.36	15.18
5,958.00	2.64	109.35	5,911.91	-170.62	543.75	-135.32	0.50	-0.22	-9.31
6,053.00	1.52	126.06	6,006.84	-172.08	546.84	-136.58	1.33	-1.18	17.59
6,147.00	0.86	152.25	6,100.82	-173.44	548.17	-137.85	0.89	-0.70	27.86
6,240.00	1.03	142.71	6,193.81	-174.72	549.00	-139.08	0.25	0.18	-10.26
6,335.00	0.47	160.05	6,288.80	-175.77	549.66	-140.08	0.63	-0.59	18.25
6,429.00	0.80	283.12	6,382.80	-175.98	549.15	-140.33	1.20	0.35	130.93
6,523.00	1.85	308.13	6,476.77	-174.90	547.31	-139.36	1.25	1.12	26.61
6,617.00	1.63	308.90	6,570.73	-173.12	545.08	-137.73	0.24	-0.23	0.82
6,712.00	1.62	300.79	6,665.69	-171.58	542.88	-136.34	0.24	-0.01	-8.54
6,806.00	1.43	300.68	6,759.66	-170.31	540.73	-135.20	0.20	-0.20	-0.12
6,901.00	1.65	296.60	6,854.62	-169.09	538.48	-134.13	0.26	0.23	-4.29
6,995.00	1.67	296.32	6,948.58	-167.88	536.05	-133.08	0.02	0.02	-0.30
7,089.00	1.56	292.79	7,042.55	-166.77	533.64	-132.13	0.16	-0.12	-3.76
7,184.00	1.55	290.74	7,137.51	-165.82	531.24	-131.33	0.06	-0.01	-2.16
7,279.00	1.57	291.06	7,232.48	-164.89	528.83	-130.57	0.02	0.02	0.34
7,373.00	1.47	288.21	7,326.44	-164.05	526.48	-129.88	0.13	-0.11	-3.03
7,468.00	1.59	282.85	7,421.41	-163.38	524.04	-129.36	0.20	0.13	-5.64
7,562.00	1.54	284.27	7,515.38	-162.78	521.54	-128.92	0.07	-0.05	1.51
7,657.00	1.50	273.93	7,610.34	-162.38	519.07	-128.68	0.29	-0.04	-10.88
7,752.00	1.41	275.23	7,705.31	-162.19	516.66	-128.65	0.10	-0.09	1.37
7,846.00	1.41	264.75	7,799.28	-162.19	514.36	-128.80	0.27	0.00	-11.15
7,941.00	1.40	261.58	7,894.25	-162.46	512.05	-129.22	0.08	-0.01	-3.34
8,035.00	1.34	261.30	7,988.23	-162.80	509.82	-129.70	0.06	-0.06	-0.30
8,130.00	1.16	253.93	8,083.20	-163.23	507.80	-130.26	0.25	-0.19	-7.76
8,224.00	1.19	256.37	8,177.19	-163.73	505.94	-130.87	0.06	0.03	2.60
8,319.00	0.94	241.88	8,272.17	-164.33	504.29	-131.58	0.38	-0.26	-15.25
8,413.00	0.70	237.78	8,366.16	-165.00	503.13	-132.32	0.26	-0.26	-4.36
8,508.00	0.64	225.18	8,461.15	-165.68	502.26	-133.06	0.17	-0.06	-13.26
8,602.00	0.66	201.84	8,555.15	-166.55	501.69	-133.97	0.28	0.02	-24.83
8,697.00	1.11	197.63	8,650.14	-167.94	501.20	-135.38	0.48	0.47	-4.43
8,792.00	1.05	176.75	8,745.12	-169.68	500.97	-137.14	0.42	-0.06	-21.98
8,887.00	0.88	152.70	8,840.11	-171.20	501.36	-138.62	0.46	-0.18	-25.32
8,981.00	1.40	146.08	8,934.09	-172.79	502.33	-140.15	0.57	0.55	-7.04
9,075.00	1.85	153.26	9,028.05	-175.10	503.65	-142.37	0.52	0.48	7.64



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
9,169.00	2.15	152.86	9,121.99	-178.03	505.14	-145.19	0.32	0.32	-0.43
9,263.00	1.74	167.80	9,215.94	-180.99	506.25	-148.08	0.69	-0.44	15.89
9,358.00	1.67	164.90	9,310.90	-183.74	506.91	-150.78	0.12	-0.07	-3.05
9,452.00	1.56	166.62	9,404.86	-186.30	507.56	-153.30	0.13	-0.12	1.83
9,547.00	1.50	164.67	9,499.82	-188.76	508.19	-155.71	0.08	-0.06	-2.05
9,641.00	0.72	127.55	9,593.81	-190.31	508.99	-157.20	1.09	-0.83	-39.49
9,736.00	0.50	135.25	9,688.80	-190.97	509.75	-157.81	0.25	-0.23	8.11
9,831.00	0.12	103.88	9,783.80	-191.28	510.14	-158.10	0.42	-0.40	-33.02
9,925.00	0.48	313.57	9,877.80	-191.04	509.95	-157.87	0.62	0.38	-159.90
10,020.00	0.64	277.13	9,972.79	-190.70	509.14	-157.58	0.40	0.17	-38.36
10,114.00	1.04	276.52	10,066.78	-190.53	507.77	-157.51	0.43	0.43	-0.65
10,208.00	1.57	262.36	10,160.76	-190.61	505.64	-157.72	0.66	0.56	-15.06
10,303.00	1.39	253.28	10,255.73	-191.11	503.25	-158.37	0.31	-0.19	-9.56
10,398.00	1.15	230.06	10,350.71	-192.06	501.41	-159.43	0.59	-0.25	-24.44
10,512.00	1.06	197.79	10,464.69	-193.80	500.22	-161.25	0.54	-0.08	-28.31
10,634.00	1.45	190.81	10,586.66	-196.39	499.58	-163.87	0.34	0.32	-5.72
10,728.00	1.33	9.96	10,680.65	-196.48	499.55	-163.97	2.96	-0.13	190.59
10,823.00	1.28	36.58	10,775.62	-194.54	500.37	-161.98	0.63	-0.05	28.02
10,917.00	4.95	1.21	10,869.47	-189.64	501.08	-157.05	4.23	3.90	-37.63
11,012.00	11.73	354.63	10,963.42	-175.91	500.26	-143.40	7.20	7.14	-6.93
11,105.00	20.90	2.63	11,052.59	-149.87	500.14	-117.42	10.13	9.86	8.60
11,200.00	27.23	10.02	11,139.31	-111.49	504.70	-78.83	7.37	6.66	7.78
11,294.00	36.79	12.66	11,218.92	-62.74	514.64	-29.53	10.28	10.17	2.81
11,331.00	45.75	11.54	11,246.71	-38.90	519.73	-5.41	24.30	24.22	-3.03
11,389.00	56.62	13.28	11,283.01	5.16	529.48	39.18	18.89	18.74	3.00
11,434.00	66.16	15.57	11,304.53	43.36	539.34	77.94	21.66	21.20	5.09
11,463.00	73.15	17.09	11,314.61	69.44	546.99	104.45	24.60	24.10	5.24
11,555.00	88.28	17.35	11,329.41	155.91	573.79	192.46	16.45	16.45	0.28
11,646.00	89.23	17.90	11,331.39	242.62	601.34	280.76	1.21	1.04	0.60
11,739.00	89.13	14.90	11,332.72	331.81	627.59	371.46	3.23	-0.11	-3.23
11,830.00	88.76	11.00	11,334.40	420.47	647.98	461.24	4.30	-0.41	-4.29
11,921.00	88.99	9.37	11,336.18	510.01	664.07	551.64	1.81	0.25	-1.79
12,012.00	90.50	5.91	11,336.59	600.19	676.16	642.40	4.15	1.66	-3.80
12,104.00	89.60	3.76	11,336.51	691.85	683.92	734.38	2.53	-0.98	-2.34
12,196.00	89.80	3.58	11,336.99	783.66	689.80	826.38	0.29	0.22	-0.20
12,288.00	90.77	3.99	11,336.53	875.46	695.88	918.37	1.14	1.05	0.45
12,383.00	88.93	2.49	11,336.78	970.30	701.25	1,013.36	2.50	-1.94	-1.58
12,478.00	89.06	2.15	11,338.45	1,065.21	705.09	1,108.32	0.38	0.14	-0.36
12,572.00	87.65	358.48	11,341.15	1,159.15	705.61	1,202.10	4.18	-1.50	-3.90
12,667.00	89.20	358.22	11,343.76	1,254.07	702.87	1,296.65	1.65	1.63	-0.27
12,761.00	89.80	357.62	11,344.58	1,348.00	699.46	1,390.17	0.90	0.64	-0.64
12,856.00	89.26	358.74	11,345.36	1,442.95	696.45	1,484.73	1.31	-0.57	1.18
12,951.00	89.03	358.63	11,346.77	1,537.92	694.27	1,579.36	0.27	-0.24	-0.12
13,046.00	88.62	357.89	11,348.72	1,632.85	691.38	1,673.91	0.89	-0.43	-0.78



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
13,141.00	88.66	356.58	11,350.98	1,727.71	686.80	1,768.28	1.38	0.04	-1.38
13,236.00	90.54	357.72	11,351.64	1,822.59	682.08	1,862.65	2.31	1.98	1.20
13,330.00	91.30	356.90	11,350.13	1,916.47	677.67	1,956.06	1.19	0.81	-0.87
13,424.00	91.44	357.73	11,347.88	2,010.34	673.26	2,049.45	0.90	0.15	0.88
13,519.00	91.54	0.10	11,345.41	2,105.28	671.47	2,144.08	2.50	0.11	2.49
13,613.00	89.40	0.67	11,344.64	2,199.27	672.10	2,237.92	2.36	-2.28	0.61
13,707.00	90.17	0.93	11,344.99	2,293.26	673.41	2,331.80	0.86	0.82	0.28
13,802.00	88.16	0.38	11,346.38	2,388.24	674.50	2,426.65	2.19	-2.12	-0.58
13,897.00	88.86	0.32	11,348.85	2,483.20	675.08	2,521.46	0.74	0.74	-0.06
13,991.00	89.67	359.46	11,350.05	2,577.20	674.90	2,615.24	1.26	0.86	-0.91
14,086.00	88.55	1.02	11,351.53	2,672.18	675.29	2,710.05	2.02	-1.18	1.64
14,180.00	88.93	0.31	11,353.60	2,766.15	676.38	2,803.90	0.86	0.40	-0.76
14,274.00	88.86	359.52	11,355.41	2,860.13	676.24	2,897.68	0.84	-0.07	-0.84
14,367.00	89.60	359.13	11,356.66	2,953.11	675.15	2,990.40	0.90	0.80	-0.42
14,461.00	87.55	0.55	11,359.00	3,047.08	674.89	3,084.15	2.65	-2.18	1.51
14,555.00	87.55	0.28	11,363.02	3,140.99	675.57	3,177.91	0.29	0.00	-0.29
14,649.00	87.28	359.67	11,367.26	3,234.89	675.53	3,271.62	0.71	-0.29	-0.65
14,743.00	90.30	359.66	11,369.24	3,328.86	674.98	3,365.36	3.21	3.21	-0.01
14,836.00	91.57	359.91	11,367.72	3,421.84	674.63	3,458.13	1.39	1.37	0.27
14,930.00	89.83	359.45	11,366.57	3,515.83	674.10	3,551.89	1.91	-1.85	-0.49
15,025.00	90.27	359.81	11,366.49	3,610.83	673.49	3,646.65	0.60	0.46	0.38
15,119.00	89.97	358.23	11,366.29	3,704.81	671.88	3,740.33	1.71	-0.32	-1.68
15,214.00	91.44	359.28	11,365.13	3,799.78	669.82	3,834.97	1.90	1.55	1.11
15,309.00	89.50	359.90	11,364.35	3,894.77	669.14	3,929.72	2.14	-2.04	0.65
15,404.00	88.25	358.57	11,366.21	3,989.74	667.87	4,024.41	1.92	-1.32	-1.40
15,497.00	91.64	2.39	11,366.30	4,082.70	668.65	4,117.24	5.49	3.65	4.11
15,592.00	91.81	2.68	11,363.44	4,177.57	672.85	4,212.17	0.35	0.18	0.31
15,686.00	90.44	2.03	11,361.60	4,271.47	676.71	4,306.13	1.61	-1.46	-0.69
15,780.00	90.50	1.68	11,360.82	4,365.41	679.75	4,400.08	0.38	0.06	-0.37
15,875.00	90.67	1.19	11,359.85	4,460.38	682.13	4,495.00	0.55	0.18	-0.52
15,969.00	89.33	1.49	11,359.85	4,554.35	684.33	4,588.92	1.46	-1.43	0.32
16,064.00	89.23	1.12	11,361.05	4,649.32	686.49	4,683.83	0.40	-0.11	-0.39
16,187.00	88.89	0.67	11,363.07	4,772.29	688.41	4,806.67	0.46	-0.28	-0.37
16,282.00	88.53	0.88	11,365.20	4,867.25	689.70	4,901.52	0.44	-0.38	0.22
16,376.00	88.11	0.91	11,367.96	4,961.20	691.17	4,995.37	0.45	-0.45	0.03
16,471.00	89.80	1.05	11,369.69	5,056.17	692.79	5,090.24	1.79	1.78	0.15
16,565.00	90.84	1.42	11,369.17	5,150.14	694.82	5,184.15	1.17	1.11	0.39
16,660.00	91.00	1.06	11,367.64	5,245.11	696.87	5,279.05	0.41	0.17	-0.38
16,755.00	90.91	0.88	11,366.06	5,340.08	698.48	5,373.93	0.21	-0.09	-0.19
16,849.00	89.87	359.75	11,365.42	5,434.08	699.00	5,467.77	1.63	-1.11	-1.20
16,942.00	91.01	359.32	11,364.71	5,527.07	698.24	5,560.52	1.31	1.23	-0.46
17,036.00	90.67	358.81	11,363.33	5,621.05	696.71	5,654.20	0.65	-0.36	-0.54
17,131.00	89.80	358.37	11,362.94	5,716.02	694.37	5,748.82	1.03	-0.92	-0.46



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)
17,224.00	89.50	358.99	11,363.51	5,808.99	692.23	5,841.47	0.74	-0.32	0.67
17,319.00	89.57	358.94	11,364.28	5,903.97	690.51	5,936.14	0.09	0.07	-0.05
17,414.00	89.33	358.75	11,365.19	5,998.95	688.60	6,030.80	0.32	-0.25	-0.20
17,509.00	88.76	357.75	11,366.77	6,093.89	685.70	6,125.36	1.21	-0.60	-1.05
17,603.00	89.77	359.60	11,367.98	6,187.85	683.52	6,218.99	2.24	1.07	1.97
17,697.00	89.46	358.62	11,368.61	6,281.83	682.06	6,312.68	1.09	-0.33	-1.04
17,791.00	91.21	358.26	11,368.06	6,375.79	679.51	6,406.28	1.90	1.86	-0.38
17,886.00	91.33	357.97	11,365.95	6,470.72	676.38	6,500.81	0.33	0.13	-0.31
17,979.00	92.49	359.81	11,362.85	6,563.64	674.58	6,593.43	2.34	1.25	1.98
18,073.00	88.70	359.74	11,361.88	6,657.62	674.21	6,687.19	4.03	-4.03	-0.07
18,168.00	87.99	358.82	11,364.62	6,752.57	673.02	6,781.87	1.22	-0.75	-0.97
18,262.00	88.67	358.24	11,367.36	6,846.50	670.61	6,875.45	0.95	0.72	-0.62
18,356.00	90.33	359.20	11,368.18	6,940.47	668.51	6,969.08	2.04	1.77	1.02
18,449.00	89.10	358.64	11,368.64	7,033.45	666.76	7,061.76	1.45	-1.32	-0.60
18,543.00	89.60	358.63	11,369.71	7,127.42	664.52	7,155.39	0.53	0.53	-0.01
18,638.00	89.19	357.03	11,370.71	7,222.34	660.92	7,249.88	1.74	-0.43	-1.68
18,732.00	92.10	357.51	11,369.66	7,316.22	656.44	7,343.28	3.14	3.10	0.51
18,827.00	89.37	356.52	11,368.44	7,411.07	651.50	7,437.62	3.06	-2.87	-1.04
18,921.00	91.38	357.22	11,367.82	7,504.92	646.36	7,530.95	2.26	2.14	0.74
19,015.00	96.38	357.37	11,361.46	7,598.57	641.94	7,624.12	5.32	5.32	0.16
19,110.00	95.07	357.53	11,351.99	7,693.00	637.73	7,718.09	1.39	-1.38	0.17
19,204.00	92.99	358.56	11,345.38	7,786.71	634.54	7,811.39	2.47	-2.21	1.10
19,298.00	91.55	0.01	11,341.66	7,880.62	633.36	7,905.04	2.17	-1.53	1.54
19,393.00	89.46	0.52	11,340.82	7,975.61	633.80	7,999.86	2.26	-2.20	0.54
19,487.00	89.83	0.95	11,341.40	8,069.60	635.01	8,093.73	0.60	0.39	0.46
19,582.00	90.40	0.64	11,341.21	8,164.59	636.33	8,188.61	0.68	0.60	-0.33
19,676.00	89.87	359.72	11,340.99	8,258.59	636.62	8,282.43	1.13	-0.56	-0.98
19,770.00	87.34	359.92	11,343.28	8,352.56	636.33	8,376.18	2.70	-2.69	0.21
19,865.00	88.43	0.07	11,346.79	8,447.49	636.32	8,470.92	1.16	1.15	0.16
19,960.00	88.96	0.57	11,348.95	8,542.46	636.85	8,565.73	0.77	0.56	0.53
20,054.00	89.33	2.05	11,350.35	8,636.42	639.00	8,659.64	1.62	0.39	1.57
20,149.00	86.55	2.51	11,353.77	8,731.28	642.78	8,754.54	2.97	-2.93	0.48
20,243.00	86.43	1.22	11,359.52	8,825.05	645.83	8,848.31	1.38	-0.13	-1.37
20,338.00	89.90	2.94	11,362.56	8,919.92	649.28	8,943.21	4.08	3.65	1.81
20,432.00	89.16	2.36	11,363.33	9,013.82	653.62	9,037.19	1.00	-0.79	-0.62
20,526.00	87.37	2.85	11,366.18	9,107.67	657.89	9,131.13	1.97	-1.90	0.52
20,621.00	87.51	5.04	11,370.42	9,202.35	664.42	9,226.02	2.31	0.15	2.31
20,715.00	88.23	4.24	11,373.92	9,295.97	672.02	9,319.94	1.14	0.77	-0.85
20,810.00	87.06	2.15	11,377.82	9,390.74	677.31	9,414.85	2.52	-1.23	-2.20
20,904.00	86.32	0.37	11,383.25	9,484.55	679.37	9,508.61	2.05	-0.79	-1.89
20,999.00	88.50	0.18	11,387.54	9,579.45	679.83	9,603.34	2.30	2.29	-0.20
21,093.00	88.65	359.57	11,389.88	9,673.42	679.62	9,697.10	0.67	0.16	-0.65
21,188.00	88.80	359.61	11,391.99	9,768.39	678.94	9,791.83	0.16	0.16	0.04



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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)	
21,282.00	88.35	359.44	11,394.33	9,862.36	678.17	9,885.56	0.51	-0.48	-0.18	
21,377.00	88.22	358.88	11,397.17	9,957.31	676.77	9,980.22	0.60	-0.14	-0.59	
21,471.00	90.47	359.34	11,398.25	10,051.28	675.31	10,073.91	2.44	2.39	0.49	
21,566.00	92.50	0.18	11,395.79	10,146.25	674.92	10,168.65	2.31	2.14	0.88	
21,661.00	90.60	358.56	11,393.22	10,241.20	673.87	10,263.33	2.63	-2.00	-1.71	
21,755.00	91.38	357.63	11,391.59	10,335.13	670.75	10,356.87	1.29	0.83	-0.99	
Last Svy 21755 MD										
21,816.00	91.38	357.63	11,390.12	10,396.06	668.23	10,417.51	0.00	0.00	0.00	
PTB 21816 MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
21,755.00	11,391.59	10,335.13	670.75	Last Svy 21755 MD	
21,816.00	11,390.12	10,396.06	668.23	PTB 21816 MD	

Checked By: _____ Approved By: _____ Date: _____



Devon Energy

**Eddy County, NM (NAD83 NME)
Thoroughbred Pad
Thoroughbred 10-3 Fed Com 332H**

OH Wellbore

Design: As Drilled

Survey Report - Geographic

27 May, 2020



www.scientificdrilling.com





Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

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		Thoroughbred Pad, SH of Thoroughbred 711H			
Site Position:		Northing:		382,642.42 usft	
From:		Easting:		714,777.09 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Map		13-3/16 "		0.30 °	
0.00 usft					

Well	Thoroughbred 10-3 Fed Com 332H, 3rd Bone Spring Sandstone					
Well Position	+N/-S	0.00 usft	Northing:	382,650.49 usft	Latitude:	32.050734
	+E/-W	0.00 usft	Easting:	715,926.84 usft	Longitude:	-103.769814
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,269.00 usft	Ground Level:	3,244.00 usft

Wellbore	OH Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	4/24/2020	6.57	59.63	47,650.30000000

Design	As Drilled				
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 (°)	
	0.00	0.00	0.00	3.68	

Survey Program	Date 5/27/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
176.00	1,366.00	Survey #1 Surface (OH Wellbore)	MWD+HDGM	OWSG MWD + HDGM
1,512.00	21,816.00	Survey #2 (OH Wellbore)	MWD+HDGM	OWSG MWD + HDGM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	382,650.49	715,926.84	32.050734	-103.769814	
176.00	0.34	210.92	176.00	-0.45	-0.27	382,650.04	715,926.57	32.050732	-103.769815	
267.00	0.57	308.30	267.00	-0.40	-0.76	382,650.09	715,926.07	32.050733	-103.769816	
360.00	0.39	233.58	359.99	-0.30	-1.38	382,650.19	715,925.46	32.050733	-103.769818	
450.00	0.62	247.56	449.99	-0.67	-2.08	382,649.82	715,924.76	32.050732	-103.769821	
541.00	0.77	262.28	540.98	-0.94	-3.14	382,649.55	715,923.70	32.050731	-103.769824	
632.00	0.51	233.69	631.98	-1.26	-4.07	382,649.23	715,922.77	32.050730	-103.769827	
724.00	0.62	249.56	723.97	-1.68	-4.87	382,648.81	715,921.97	32.050729	-103.769830	
816.00	0.46	281.61	815.97	-1.78	-5.69	382,648.71	715,921.14	32.050729	-103.769832	
908.00	0.27	272.09	907.97	-1.69	-6.27	382,648.80	715,920.56	32.050729	-103.769834	
999.00	0.44	205.89	998.97	-2.00	-6.64	382,648.49	715,920.20	32.050728	-103.769835	



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,090.00	0.21	188.70	1,089.97	-2.48	-6.82	382,648.01	715,920.02	32.050727	-103.769836
1,181.00	0.08	128.34	1,180.97	-2.68	-6.79	382,647.81	715,920.04	32.050726	-103.769836
1,273.00	0.24	321.30	1,272.97	-2.57	-6.86	382,647.92	715,919.97	32.050727	-103.769836
1,366.00	0.24	328.84	1,365.96	-2.25	-7.09	382,648.23	715,919.75	32.050728	-103.769837
1,512.00	0.67	329.48	1,511.96	-1.26	-7.68	382,649.23	715,919.16	32.050730	-103.769839
1,606.00	0.96	340.36	1,605.95	-0.04	-8.22	382,650.45	715,918.62	32.050734	-103.769841
1,700.00	1.20	315.56	1,699.93	1.40	-9.17	382,651.89	715,917.66	32.050738	-103.769844
1,795.00	1.19	329.34	1,794.91	2.96	-10.37	382,653.45	715,916.46	32.050742	-103.769847
1,890.00	0.38	233.09	1,889.91	3.62	-11.13	382,654.11	715,915.71	32.050744	-103.769850
1,984.00	2.28	137.53	1,983.88	2.05	-10.12	382,652.54	715,916.72	32.050739	-103.769847
2,079.00	4.46	118.80	2,078.71	-1.12	-5.60	382,649.37	715,921.23	32.050731	-103.769832
2,174.00	6.55	108.69	2,173.27	-4.64	2.77	382,645.85	715,929.60	32.050721	-103.769805
2,268.00	8.91	112.66	2,266.41	-9.16	14.57	382,641.33	715,941.40	32.050708	-103.769767
2,363.00	10.82	109.20	2,360.00	-14.93	29.78	382,635.56	715,956.61	32.050692	-103.769718
2,458.00	10.09	109.11	2,453.43	-20.58	46.06	382,629.91	715,972.90	32.050676	-103.769666
2,553.00	10.41	106.92	2,546.91	-25.81	62.14	382,624.68	715,988.97	32.050662	-103.769614
2,647.00	9.64	104.16	2,639.47	-30.20	77.89	382,620.29	716,004.72	32.050650	-103.769563
2,742.00	9.23	102.18	2,733.19	-33.76	93.05	382,616.73	716,019.88	32.050640	-103.769514
2,836.00	8.57	103.26	2,826.06	-36.95	107.24	382,613.54	716,034.07	32.050631	-103.769469
2,931.00	8.41	103.32	2,920.02	-40.18	120.89	382,610.31	716,047.72	32.050621	-103.769425
3,025.00	8.71	103.74	3,012.97	-43.45	134.49	382,607.04	716,061.32	32.050612	-103.769381
3,120.00	9.29	105.91	3,106.80	-47.26	148.85	382,603.23	716,075.68	32.050602	-103.769334
3,214.00	9.14	107.65	3,199.59	-51.61	163.26	382,598.89	716,090.09	32.050589	-103.769288
3,309.00	9.85	106.13	3,293.28	-56.15	178.26	382,594.34	716,105.09	32.050577	-103.769240
3,403.00	10.26	108.15	3,385.84	-60.99	193.94	382,589.50	716,120.76	32.050563	-103.769189
3,498.00	10.22	109.11	3,479.33	-66.39	209.94	382,584.10	716,136.77	32.050548	-103.769138
3,592.00	10.06	111.85	3,571.86	-72.17	225.44	382,578.32	716,152.27	32.050532	-103.769088
3,687.00	9.13	112.61	3,665.53	-78.16	240.10	382,572.33	716,166.92	32.050515	-103.769040
3,781.00	9.67	119.43	3,758.27	-84.91	253.86	382,565.59	716,180.68	32.050497	-103.768996
3,876.00	10.88	113.08	3,851.75	-92.34	269.06	382,558.15	716,195.88	32.050476	-103.768947
3,971.00	9.09	112.51	3,945.31	-98.73	284.24	382,551.76	716,211.06	32.050458	-103.768898
4,066.00	9.19	111.26	4,039.10	-104.35	298.25	382,546.14	716,225.06	32.050443	-103.768853
4,160.00	8.91	109.04	4,131.93	-109.45	312.12	382,541.04	716,238.94	32.050428	-103.768808
4,255.00	9.29	107.97	4,225.73	-114.22	326.37	382,536.28	716,253.19	32.050415	-103.768763
4,349.00	10.77	109.06	4,318.29	-119.42	341.89	382,531.07	716,268.71	32.050400	-103.768713
4,444.00	11.15	107.42	4,411.56	-125.07	359.04	382,525.42	716,285.86	32.050385	-103.768657
4,539.00	10.59	109.35	4,504.86	-130.72	376.04	382,519.78	716,302.86	32.050369	-103.768603
4,633.00	10.93	107.15	4,597.20	-136.21	392.71	382,514.29	716,319.52	32.050354	-103.768549
4,727.00	9.91	105.87	4,689.65	-141.05	409.01	382,509.45	716,335.82	32.050340	-103.768496
4,822.00	9.88	104.01	4,783.24	-145.25	424.78	382,505.24	716,351.59	32.050328	-103.768446
4,917.00	9.25	104.49	4,876.92	-149.14	440.08	382,501.36	716,366.89	32.050317	-103.768396
5,011.00	9.24	103.12	4,969.70	-152.74	454.74	382,497.76	716,381.55	32.050307	-103.768349
5,106.00	8.02	99.06	5,063.62	-155.52	468.72	382,494.98	716,395.53	32.050299	-103.768304
5,201.00	7.17	98.60	5,157.79	-157.45	481.12	382,493.05	716,407.93	32.050294	-103.768264
5,296.00	5.81	100.30	5,252.18	-159.19	491.72	382,491.31	716,418.52	32.050289	-103.768230
5,391.00	5.23	102.93	5,346.74	-161.02	500.67	382,489.48	716,427.47	32.050284	-103.768201
5,486.00	5.35	98.66	5,441.33	-162.66	509.26	382,487.84	716,436.07	32.050279	-103.768173
5,580.00	5.11	101.52	5,534.94	-164.15	517.70	382,486.35	716,444.51	32.050275	-103.768146
5,675.00	5.56	96.74	5,629.53	-165.54	526.42	382,484.96	716,453.22	32.050271	-103.768118
5,769.00	4.14	103.68	5,723.19	-166.87	534.23	382,483.62	716,461.04	32.050267	-103.768093
5,864.00	2.85	118.10	5,818.01	-168.80	539.65	382,481.70	716,466.46	32.050262	-103.768075
5,958.00	2.64	109.35	5,911.91	-170.62	543.75	382,479.88	716,470.56	32.050257	-103.768062
6,053.00	1.52	126.06	6,006.84	-172.08	546.84	382,478.42	716,473.64	32.050253	-103.768052
6,147.00	0.86	152.25	6,100.82	-173.44	548.17	382,477.06	716,474.98	32.050249	-103.768048
6,240.00	1.03	142.71	6,193.81	-174.72	549.00	382,475.77	716,475.81	32.050246	-103.768045



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,335.00	0.47	160.05	6,288.80	-175.77	549.66	382,474.73	716,476.46	32.050243	-103.768043
6,429.00	0.80	283.12	6,382.80	-175.98	549.15	382,474.52	716,475.95	32.050242	-103.768045
6,523.00	1.85	308.13	6,476.77	-174.90	547.31	382,475.60	716,474.12	32.050245	-103.768051
6,617.00	1.63	308.90	6,570.73	-173.12	545.08	382,477.38	716,471.89	32.050250	-103.768058
6,712.00	1.62	300.79	6,665.69	-171.58	542.88	382,478.91	716,469.68	32.050254	-103.768065
6,806.00	1.43	300.68	6,759.66	-170.31	540.73	382,480.19	716,467.53	32.050258	-103.768072
6,901.00	1.65	296.60	6,854.62	-169.09	538.48	382,481.41	716,465.29	32.050261	-103.768079
6,995.00	1.67	296.32	6,948.58	-167.88	536.05	382,482.62	716,462.85	32.050265	-103.768087
7,089.00	1.56	292.79	7,042.55	-166.77	533.64	382,483.73	716,460.44	32.050268	-103.768095
7,184.00	1.55	290.74	7,137.51	-165.82	531.24	382,484.68	716,458.05	32.050270	-103.768102
7,279.00	1.57	291.06	7,232.48	-164.89	528.83	382,485.60	716,455.63	32.050273	-103.768110
7,373.00	1.47	288.21	7,326.44	-164.05	526.48	382,486.44	716,453.29	32.050275	-103.768118
7,468.00	1.59	282.85	7,421.41	-163.38	524.04	382,487.12	716,450.85	32.050277	-103.768125
7,562.00	1.54	284.27	7,515.38	-162.78	521.54	382,487.72	716,448.35	32.050279	-103.768134
7,657.00	1.50	273.93	7,610.34	-162.38	519.07	382,488.12	716,445.87	32.050280	-103.768142
7,752.00	1.41	275.23	7,705.31	-162.19	516.66	382,488.31	716,443.47	32.050280	-103.768149
7,846.00	1.41	264.75	7,799.28	-162.19	514.36	382,488.31	716,441.16	32.050280	-103.768157
7,941.00	1.40	261.58	7,894.25	-162.46	512.05	382,488.03	716,438.85	32.050280	-103.768164
8,035.00	1.34	261.30	7,988.23	-162.80	509.82	382,487.70	716,436.63	32.050279	-103.768171
8,130.00	1.16	253.93	8,083.20	-163.23	507.80	382,487.26	716,434.61	32.050278	-103.768178
8,224.00	1.19	256.37	8,177.19	-163.73	505.94	382,486.77	716,432.75	32.050276	-103.768184
8,319.00	0.94	241.88	8,272.17	-164.33	504.29	382,486.17	716,431.10	32.050275	-103.768189
8,413.00	0.70	237.78	8,366.16	-165.00	503.13	382,485.50	716,429.93	32.050273	-103.768193
8,508.00	0.64	225.18	8,461.15	-165.68	502.26	382,484.82	716,429.07	32.050271	-103.768196
8,602.00	0.66	201.84	8,555.15	-166.55	501.69	382,483.95	716,428.49	32.050269	-103.768198
8,697.00	1.11	197.63	8,650.14	-167.94	501.20	382,482.56	716,428.01	32.050265	-103.768199
8,792.00	1.05	176.75	8,745.12	-169.68	500.97	382,480.82	716,427.78	32.050260	-103.768200
8,887.00	0.88	152.70	8,840.11	-171.20	501.36	382,479.30	716,428.17	32.050256	-103.768199
8,981.00	1.40	146.08	8,934.09	-172.79	502.33	382,477.70	716,429.14	32.050251	-103.768196
9,075.00	1.85	153.26	9,028.05	-175.10	503.65	382,475.40	716,430.46	32.050245	-103.768191
9,169.00	2.15	152.86	9,121.99	-178.03	505.14	382,472.47	716,431.95	32.050237	-103.768187
9,263.00	1.74	167.80	9,215.94	-180.99	506.25	382,469.51	716,433.05	32.050229	-103.768183
9,358.00	1.67	164.90	9,310.90	-183.74	506.91	382,466.76	716,433.72	32.050221	-103.768181
9,452.00	1.56	166.62	9,404.86	-186.30	507.56	382,464.19	716,434.37	32.050214	-103.768179
9,547.00	1.50	164.67	9,499.82	-188.76	508.19	382,461.74	716,435.00	32.050208	-103.768177
9,641.00	0.72	127.55	9,593.81	-190.31	508.99	382,460.19	716,435.79	32.050203	-103.768175
9,736.00	0.50	135.25	9,688.80	-190.97	509.75	382,459.53	716,436.56	32.050201	-103.768172
9,831.00	0.12	103.88	9,783.80	-191.28	510.14	382,459.22	716,436.95	32.050201	-103.768171
9,925.00	0.48	313.57	9,877.80	-191.04	509.95	382,459.46	716,436.76	32.050201	-103.768171
10,020.00	0.64	277.13	9,972.79	-190.70	509.14	382,459.80	716,435.94	32.050202	-103.768174
10,114.00	1.04	276.52	10,066.78	-190.53	507.77	382,459.96	716,434.57	32.050203	-103.768178
10,208.00	1.57	262.36	10,160.76	-190.61	505.64	382,459.89	716,432.45	32.050202	-103.768185
10,303.00	1.39	253.28	10,255.73	-191.11	503.25	382,459.39	716,430.06	32.050201	-103.768193
10,398.00	1.15	230.06	10,350.71	-192.06	501.41	382,458.44	716,428.22	32.050199	-103.768199
10,512.00	1.06	197.79	10,464.69	-193.80	500.22	382,456.70	716,427.02	32.050194	-103.768203
10,634.00	1.45	190.81	10,586.66	-196.39	499.58	382,454.11	716,426.39	32.050187	-103.768205
10,728.00	1.33	9.96	10,680.65	-196.48	499.55	382,454.02	716,426.35	32.050186	-103.768205
10,823.00	1.28	36.58	10,775.62	-194.54	500.37	382,455.96	716,427.18	32.050192	-103.768202
10,917.00	4.95	1.21	10,869.47	-189.64	501.08	382,460.86	716,427.89	32.050205	-103.768200
11,012.00	11.73	354.63	10,963.42	-175.91	500.26	382,474.58	716,427.07	32.050243	-103.768202
11,105.00	20.90	2.63	11,052.59	-149.87	500.14	382,500.62	716,426.95	32.050315	-103.768202
11,200.00	27.23	10.02	11,139.31	-111.49	504.70	382,539.00	716,431.51	32.050420	-103.768187
11,294.00	36.79	12.66	11,218.92	-62.74	514.64	382,587.75	716,441.45	32.050554	-103.768154
11,331.00	45.75	11.54	11,246.71	-38.90	519.73	382,611.60	716,446.54	32.050619	-103.768137
11,389.00	56.62	13.28	11,283.01	5.16	529.48	382,655.65	716,456.28	32.050740	-103.768105



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,434.00	66.16	15.57	11,304.53	43.36	539.34	382,693.85	716,466.15	32.050845	-103.768073
11,463.00	73.15	17.09	11,314.61	69.44	546.99	382,719.92	716,473.79	32.050917	-103.768047
11,555.00	88.28	17.35	11,329.41	155.91	573.79	382,806.39	716,500.60	32.051154	-103.767959
11,646.00	89.23	17.90	11,331.39	242.62	601.34	382,893.09	716,528.14	32.051392	-103.767869
11,739.00	89.13	14.90	11,332.72	331.81	627.59	382,982.28	716,554.39	32.051637	-103.767783
11,830.00	88.76	11.00	11,334.40	420.47	647.98	383,070.93	716,574.78	32.051880	-103.767716
11,921.00	88.99	9.37	11,336.18	510.01	664.07	383,160.47	716,590.86	32.052126	-103.767662
12,012.00	90.50	5.91	11,336.59	600.19	676.16	383,250.64	716,602.96	32.052374	-103.767622
12,104.00	89.60	3.76	11,336.51	691.85	683.92	383,342.30	716,610.71	32.052626	-103.767595
12,196.00	89.80	3.58	11,336.99	783.66	689.80	383,434.11	716,616.60	32.052878	-103.767574
12,288.00	90.77	3.99	11,336.53	875.46	695.88	383,525.90	716,622.67	32.053130	-103.767553
12,383.00	88.93	2.49	11,336.78	970.30	701.25	383,620.73	716,628.04	32.053391	-103.767534
12,478.00	89.06	2.15	11,338.45	1,065.21	705.09	383,715.64	716,631.89	32.053651	-103.767520
12,572.00	87.65	358.48	11,341.15	1,159.15	705.61	383,809.57	716,632.40	32.053910	-103.767517
12,667.00	89.20	358.22	11,343.76	1,254.07	702.87	383,904.49	716,629.67	32.054171	-103.767524
12,761.00	89.80	357.62	11,344.58	1,348.00	699.46	383,998.42	716,626.26	32.054429	-103.767534
12,856.00	89.26	358.74	11,345.36	1,442.95	696.45	384,093.36	716,623.24	32.054690	-103.767542
12,951.00	89.03	358.63	11,346.77	1,537.92	694.27	384,188.32	716,621.06	32.054951	-103.767547
13,046.00	88.62	357.89	11,348.72	1,632.85	691.38	384,283.25	716,618.18	32.055212	-103.767555
13,141.00	88.66	356.58	11,350.98	1,727.71	686.80	384,378.10	716,613.60	32.055473	-103.767568
13,236.00	90.54	357.72	11,351.64	1,822.59	682.08	384,472.97	716,608.88	32.055734	-103.767582
13,330.00	91.30	356.90	11,350.13	1,916.47	677.67	384,566.85	716,604.46	32.055992	-103.767594
13,424.00	91.44	357.73	11,347.88	2,010.34	673.26	384,660.71	716,600.06	32.056250	-103.767607
13,519.00	91.54	0.10	11,345.41	2,105.28	671.47	384,755.65	716,598.26	32.056511	-103.767611
13,613.00	89.40	0.67	11,344.64	2,199.27	672.10	384,849.64	716,598.90	32.056769	-103.767608
13,707.00	90.17	0.93	11,344.99	2,293.26	673.41	384,943.62	716,600.21	32.057027	-103.767602
13,802.00	88.16	0.38	11,346.38	2,388.24	674.50	385,038.59	716,601.29	32.057289	-103.767597
13,897.00	88.86	0.32	11,348.85	2,483.20	675.08	385,133.55	716,601.87	32.057550	-103.767593
13,991.00	89.67	359.46	11,350.05	2,577.20	674.90	385,227.54	716,601.69	32.057808	-103.767592
14,086.00	88.55	1.02	11,351.53	2,672.18	675.29	385,322.52	716,602.09	32.058069	-103.767589
14,180.00	88.93	0.31	11,353.60	2,766.15	676.38	385,416.48	716,603.18	32.058327	-103.767584
14,274.00	88.86	359.52	11,355.41	2,860.13	676.24	385,510.46	716,603.04	32.058586	-103.767583
14,367.00	89.60	359.13	11,356.66	2,953.11	675.15	385,603.44	716,601.95	32.058841	-103.767585
14,461.00	87.55	0.55	11,359.00	3,047.08	674.89	385,697.40	716,601.68	32.059099	-103.767584
14,555.00	87.55	0.28	11,363.02	3,140.99	675.57	385,791.30	716,602.36	32.059358	-103.767581
14,649.00	87.28	359.67	11,367.26	3,234.89	675.53	385,885.20	716,602.32	32.059616	-103.767579
14,743.00	90.30	359.66	11,369.24	3,328.86	674.98	385,979.16	716,601.77	32.059874	-103.767579
14,836.00	91.57	359.91	11,367.72	3,421.84	674.63	386,072.14	716,601.43	32.060130	-103.767579
14,930.00	89.83	359.45	11,366.57	3,515.83	674.10	386,166.12	716,600.90	32.060388	-103.767579
15,025.00	90.27	359.81	11,366.49	3,610.83	673.49	386,261.12	716,600.29	32.060649	-103.767579
15,119.00	89.97	358.23	11,366.29	3,704.81	671.88	386,355.09	716,598.68	32.060907	-103.767583
15,214.00	91.44	359.28	11,365.13	3,799.78	669.82	386,450.06	716,596.62	32.061168	-103.767588
15,309.00	89.50	359.90	11,364.35	3,894.77	669.14	386,545.04	716,595.94	32.061430	-103.767589
15,404.00	88.25	358.57	11,366.21	3,989.74	667.87	386,640.00	716,594.67	32.061691	-103.767591
15,497.00	91.64	2.39	11,366.30	4,082.70	668.65	386,732.96	716,595.45	32.061946	-103.767587
15,592.00	91.81	2.68	11,363.44	4,177.57	672.85	386,827.82	716,599.65	32.062207	-103.767572
15,686.00	90.44	2.03	11,361.60	4,271.47	676.71	386,921.72	716,603.51	32.062465	-103.767558
15,780.00	90.50	1.68	11,360.82	4,365.41	679.75	387,015.66	716,606.55	32.062723	-103.767546
15,875.00	90.67	1.19	11,359.85	4,460.38	682.13	387,110.62	716,608.93	32.062984	-103.767537
15,969.00	89.33	1.49	11,359.85	4,554.35	684.33	387,204.59	716,611.13	32.063242	-103.767528
16,064.00	89.23	1.12	11,361.05	4,649.32	686.49	387,299.55	716,613.29	32.063503	-103.767520
16,187.00	88.89	0.67	11,363.07	4,772.29	688.41	387,422.51	716,615.21	32.063841	-103.767511
16,282.00	88.53	0.88	11,365.20	4,867.25	689.70	387,517.47	716,616.50	32.064102	-103.767506
16,376.00	88.11	0.91	11,367.96	4,961.20	691.17	387,611.41	716,617.96	32.064361	-103.767499
16,471.00	89.80	1.05	11,369.69	5,056.17	692.79	387,706.37	716,619.59	32.064622	-103.767493



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,565.00	90.84	1.42	11,369.17	5,150.14	694.82	387,800.34	716,621.61	32.064880	-103.767484
16,660.00	91.00	1.06	11,367.64	5,245.11	696.87	387,895.30	716,623.67	32.065141	-103.767476
16,755.00	90.91	0.88	11,366.06	5,340.08	698.48	387,990.27	716,625.28	32.065402	-103.767469
16,849.00	89.87	359.75	11,365.42	5,434.08	699.00	388,084.26	716,625.79	32.065660	-103.767466
16,942.00	91.01	359.32	11,364.71	5,527.07	698.24	388,177.25	716,625.04	32.065916	-103.767467
17,036.00	90.67	358.81	11,363.33	5,621.05	696.71	388,271.22	716,623.51	32.066174	-103.767470
17,131.00	89.80	358.37	11,362.94	5,716.02	694.37	388,366.18	716,621.17	32.066435	-103.767476
17,224.00	89.50	358.99	11,363.51	5,808.99	692.23	388,459.15	716,619.03	32.066691	-103.767482
17,319.00	89.57	358.94	11,364.28	5,903.97	690.51	388,554.13	716,617.31	32.066952	-103.767486
17,414.00	89.33	358.75	11,365.19	5,998.95	688.60	388,649.10	716,615.40	32.067213	-103.767490
17,509.00	88.76	357.75	11,366.77	6,093.89	685.70	388,744.03	716,612.49	32.067474	-103.767498
17,603.00	89.77	359.60	11,367.98	6,187.85	683.52	388,837.99	716,610.32	32.067732	-103.767503
17,697.00	89.46	358.62	11,368.61	6,281.83	682.06	388,931.97	716,608.86	32.067991	-103.767506
17,791.00	91.21	358.26	11,368.06	6,375.79	679.51	389,025.93	716,606.30	32.068249	-103.767513
17,886.00	91.33	357.97	11,365.95	6,470.72	676.38	389,120.85	716,603.18	32.068510	-103.767522
17,979.00	92.49	359.81	11,362.85	6,563.64	674.58	389,213.77	716,601.38	32.068765	-103.767526
18,073.00	88.70	359.74	11,361.88	6,657.62	674.21	389,307.74	716,601.01	32.069024	-103.767525
18,168.00	87.99	358.82	11,364.62	6,752.57	673.02	389,402.68	716,599.82	32.069285	-103.767528
18,262.00	88.67	358.24	11,367.36	6,846.50	670.61	389,496.61	716,597.41	32.069543	-103.767534
18,356.00	90.33	359.20	11,368.18	6,940.47	668.51	389,590.57	716,595.31	32.069801	-103.767539
18,449.00	89.10	358.64	11,368.64	7,033.45	666.76	389,683.54	716,593.55	32.070057	-103.767543
18,543.00	89.60	358.63	11,369.71	7,127.42	664.52	389,777.51	716,591.31	32.070315	-103.767549
18,638.00	89.19	357.03	11,370.71	7,222.34	660.92	389,872.42	716,587.72	32.070576	-103.767559
18,732.00	92.10	357.51	11,369.66	7,316.22	656.44	389,966.30	716,583.24	32.070834	-103.767572
18,827.00	89.37	356.52	11,368.44	7,411.07	651.50	390,061.14	716,578.30	32.071095	-103.767586
18,921.00	91.38	357.22	11,367.82	7,504.92	646.36	390,154.99	716,573.16	32.071353	-103.767601
19,015.00	96.38	357.37	11,361.46	7,598.57	641.94	390,248.64	716,568.74	32.071611	-103.767614
19,110.00	95.07	357.53	11,351.99	7,693.00	637.73	390,343.06	716,564.53	32.071870	-103.767626
19,204.00	92.99	358.56	11,345.38	7,786.71	634.54	390,436.76	716,561.34	32.072128	-103.767634
19,298.00	91.55	0.01	11,341.66	7,880.62	633.36	390,530.67	716,560.17	32.072386	-103.767637
19,393.00	89.46	0.52	11,340.82	7,975.61	633.80	390,625.66	716,560.60	32.072647	-103.767634
19,487.00	89.83	0.95	11,341.40	8,069.60	635.01	390,719.64	716,561.81	32.072905	-103.767628
19,582.00	90.40	0.64	11,341.21	8,164.59	636.33	390,814.62	716,563.13	32.073166	-103.767622
19,676.00	89.87	359.72	11,340.99	8,258.59	636.62	390,908.62	716,563.42	32.073425	-103.767620
19,770.00	87.34	359.92	11,343.28	8,352.56	636.33	391,002.58	716,563.13	32.073683	-103.767619
19,865.00	88.43	0.07	11,346.79	8,447.49	636.32	391,097.50	716,563.12	32.073944	-103.767617
19,960.00	88.96	0.57	11,348.95	8,542.46	636.85	391,192.47	716,563.65	32.074205	-103.767614
20,054.00	89.33	2.05	11,350.35	8,636.42	639.00	391,286.43	716,565.80	32.074463	-103.767606
20,149.00	86.55	2.51	11,353.77	8,731.28	642.78	391,381.28	716,569.58	32.074724	-103.767592
20,243.00	86.43	1.22	11,359.52	8,825.05	645.83	391,475.04	716,572.63	32.074982	-103.767580
20,338.00	89.90	2.94	11,362.56	8,919.92	649.28	391,569.91	716,576.08	32.075242	-103.767568
20,432.00	89.16	2.36	11,363.33	9,013.82	653.62	391,663.80	716,580.42	32.075500	-103.767552
20,526.00	87.37	2.85	11,366.18	9,107.67	657.89	391,757.65	716,584.69	32.075758	-103.767537
20,621.00	87.51	5.04	11,370.42	9,202.35	664.42	391,852.32	716,591.22	32.076019	-103.767514
20,715.00	88.23	4.24	11,373.92	9,295.97	672.02	391,945.94	716,598.82	32.076276	-103.767488
20,810.00	87.06	2.15	11,377.82	9,390.74	677.31	392,040.70	716,604.11	32.076536	-103.767469
20,904.00	86.32	0.37	11,383.25	9,484.55	679.37	392,134.51	716,606.17	32.076794	-103.767461
20,999.00	88.50	0.18	11,387.54	9,579.45	679.83	392,229.40	716,606.63	32.077055	-103.767458
21,093.00	88.65	359.57	11,389.88	9,673.42	679.62	392,323.37	716,606.42	32.077313	-103.767457
21,188.00	88.80	359.61	11,391.99	9,768.39	678.94	392,418.34	716,605.74	32.077574	-103.767457
21,282.00	88.35	359.44	11,394.33	9,862.36	678.17	392,512.30	716,604.96	32.077832	-103.767458
21,377.00	88.22	358.88	11,397.17	9,957.31	676.77	392,607.24	716,603.57	32.078093	-103.767461
21,471.00	90.47	359.34	11,398.25	10,051.28	675.31	392,701.21	716,602.11	32.078352	-103.767464
21,566.00	92.50	0.18	11,395.79	10,146.25	674.92	392,796.17	716,601.71	32.078613	-103.767464
21,661.00	90.60	358.56	11,393.22	10,241.20	673.87	392,891.11	716,600.67	32.078874	-103.767466



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 332H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Site:	Thoroughbred Pad	MD Reference:	Patt 575 3244 GL + 25 KB @ 3269.00usft
Well:	Thoroughbred 10-3 Fed Com 332H	North Reference:	Grid
Wellbore:	OH Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Midland

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,755.00	91.38	357.63	11,391.59	10,335.13	670.75	392,985.04	716,597.55	32.079132	-103.767474
Last Svy 21755 MD									
21,816.00	91.38	357.63	11,390.12	10,396.06	668.23	393,045.97	716,595.02	32.079300	-103.767481
PTB 21816 MD									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
21,755.00	11,391.59	10,335.13	670.75	Last Svy 21755 MD	
21,816.00	11,390.12	10,396.06	668.23	PTB 21816 MD	

Checked By: _____ Approved By: _____ Date: _____

Submit 1 Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 Revised August 1, 2011

WELL API NO.	30-015-46505
5. Indicate Type of Lease STATE ☐ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name THOROUGHbred 10-3 FED COM	
8. Well Number	332H
9. OGRID Number	6137
10. Pool name or Wildcat JENNINGS; BONE SPRING, WEST	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator	Devon Energy Production Company, L.P.
3. Address of Operator	333 West Sheridan, Oklahoma City, OK 73102
4. Well Location Unit Letter <u>N</u> : <u>220</u> feet from the <u>South</u> line and <u>1500</u> feet from the <u>West</u> line Section <u>10</u> Township <u>26S</u> Range <u>31E</u> NMPM County <u>EDDY</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL: 3262	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐

OTHER: Completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

12/7/20-12/22/20: MIRU WL & PT. TIH w/pump through frac plug and guns. Perf Delaware, 11463'-21692', total 810 holes. Frac totals 44 bbls acid, 18656500# prop. ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 21751'. CHC, FWB, ND BOP. Tbg not yet ran. TOP.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

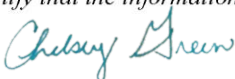
SIGNATURE Chelsey Green TITLE Regulatory Specialist DATE 6/4/2021

Type or print name Chelsey Green E-mail address: chelsey.green@dmn.com PHONE: 405-228-8595

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised August 1, 2011				
		1. WELL API NO. 30-015-46505								
		2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN								
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name THOROUGHbred 10-3 FED COM				
						6. Well Number: 332H				
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Devon Energy Production Company, L.P.						9. OGRID 6137				
10. Address of Operator 333 West Sheridan Avenue, Oklahoma City, OK 73102						11. Pool name or Wildcat JENNINGS; BONE SPRING, WEST				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	N	10	26S	31E		220	South	1500	West	EDDY
BH:	C	3	26S	31E		53	North	2206	West	EDDY
13. Date Spudded 5/5/20	14. Date T.D. Reached 5/27/20	15. Date Rig Released 5/29/20		16. Date Completed (Ready to Produce) 3/28/21		17. Elevations (DF and RKB, RT, GR, etc.) 3262 GL				
18. Total Measured Depth of Well 21816 MD, 11390 TVD			19. Plug Back Measured Depth 21751		20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run			
22. Producing Interval(s), of this completion - Top, Bottom, Name 11463-21692, BONE SPRING, WEST										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE	WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
13.375	54.5		1454		17.5		324			
8.625	32		10560		9.875		955		TOC @ 25	
5.5	20		21801		7.875		1401			
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD				
						SIZE		DEPTH SET		PACKER SET
26. Perforation record (interval, size, and number) 11463 - 21692, total 824 holes					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 11463-21692		AMOUNT AND KIND MATERIAL USED Acidize and frac in 42 stages.			
28. PRODUCTION										
Date First Production 3/28/21		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 4/20/21	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 670	Gas - MCF 3070	Water - Bbl. 4237	Gas - Oil Ratio 4582.089552			
Flow Tubing Press. 3719 psi	Casing Pressure 2918 psi	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						30. Test Witnessed By				
31. List Attachments Directional Survey										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude				Longitude				NAD 1927 1983		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature 		Printed Name Chelsey Green		Title Regulatory Specialist		Date 6/4/2021				
E-mail Address chelsey.green@dv.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

[illegible]

No. 1, from.....	to.....	No. 3, from.....	to.....
No. 2, from.....	N/A	No. 4, from.....	N/A
	N/A		N/A

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

District I

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Phone:(505) 476-3470 Fax:(505) 476-3462

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ACKNOWLEDGMENTS

Action 30615

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 30615
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
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CONDITIONS

Action 30615

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 30615
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	8/9/2021