

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 / 3/22/21
⁴ API Number 30-015-46506	⁵ Pool Name PURPLE SAGE; WOLFCAMP (GAS)	⁶ Pool Code 98220
⁷ Property Code 326742	⁸ Property Name THOROUGHbred 10-3 FED COM	⁹ Well Number 712H

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	1470	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
C	3	26S	31E		337	North	1638	West	EDDY
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 3/22/21	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

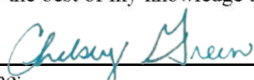
III. Oil and Gas Transporters

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 5/4/20	²² Ready Date 3/22/21	²³ TD 21793	²⁴ PBDT 21726	²⁵ Perforations 11771 - 21615	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	1461	749		
9.875	8.625	11012	1070		
7.875	5.5	21778	3936		
	Tubing:	0			

V. Well Test Data

³¹ Date New Oil 4/15/21	³² Gas Delivery Date 4/15/21	³³ Test Date 4/15/21	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure psi	³⁶ Csg. Pressure 3026 psi
³⁷ Choke Size	³⁸ Oil 818 bbl	³⁹ Water 3540 bbl	⁴⁰ Gas 3896 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: 08/06/2021		
Date: 6/7/2021		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 30-015-46506	² Pool Code 98220	³ Pool Name PURPLE SAGE;WOLFCAMP (GAS)
⁴ Property Code 326742	⁵ Property Name THOROUGHbred 10-3 FED	⁶ Well Number 712H
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	1470	WEST	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		337	NORTH	1638	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 N/4 CORNER SEC. 3 LAT. = 32.0794436°N LONG. = 103.7660270°W NMSP EAST (FT) N = 393100.75 E = 717045.15 BOTTOM OF HOLE LAT. = 32.0785107°N LONG. = 103.7693171°W NMSP EAST (FT) N = 392756.05 E = 716027.91 LAST TAKE POINT 515' FNL, 1644' FWL LAT. = 32.0780219°N LONG. = 103.7693009°W 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		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. <i>Chelsey Green</i> 06/03/21 Signature Date Chelsey Green Printed Name chelsey.green@dm.com E-mail Address	
AS-DRILLED THOROUGHbred 10-3 FED 712H ELEV. = 3243.6' LAT. = 32.0507334°N (NAD83) LONG. = 103.7699105°W NMSP EAST (FT) N = 382650.27 E = 715896.84 FIRST TAKE POINT 312' FSL, 1647' FWL LAT. = 32.0509872°N LONG. = 103.7693393°W KICK OFF POINT 34' FSL, 1645' FWL LAT. = 32.0502238°N LONG. = 103.7693476°W SURFACE LOCATION 220' 1470'		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 2, 2021 Date of Survey <i>IMON E. JARAMILLO</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 SURVEY NO. 7228C			

Intent ☐ As Drilled ☒

API # 30-015-46506		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: THOROUGHbred 10-3 FED	Well Number 712H

Kick Off Point (KOP)

UL N	Section 10	Township 26S	Range 31E	Lot	Feet 34	From N/S SOUTH	Feet 1645	From E/W WEST	County EDDY
Latitude 32.0502238					Longitude 103.7693476			NAD 83	

First Take Point (FTP)

UL N	Section 10	Township 26S	Range 31E	Lot	Feet 312	From N/S SOUTH	Feet 1647	From E/W WEST	County EDDY
Latitude 32.0509872					Longitude 103.7693393			NAD 83	

Last Take Point (LTP)

UL C	Section 3	Township 26S	Range 31E	Lot	Feet 515	From N/S NORTH	Feet 1644	From E/W WEST	County EDDY
Latitude 32.0780219					Longitude 103.7693009			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 712H

Patterson 575

I, Deanna Jacobs, certify the surveys supplied on
Thoroughbred 10-3 Fed Com 712H are correct and accurate to the best of my
knowledge and are supported by actual field data.

Deanna Jacobs

Date: 6/29/2020



The **Ultimate Partner** In Wellbore Placement



Devon Energy

**Eddy County, NM (NAD83 NME)
Thoroughbred Pad
Thoroughbred 10-3 Fed Com 712H**

OH Wellbore

Design: As Drilled

Standard Survey Report

29 June, 2020



www.scientificdrilling.com





Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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 "		32.050728	
0.00 usft				-103.773525	
				0.30 °	

Well	Thoroughbred 10-3 Fed Com 712H, Wolfcamp 110					
Well Position	+N/-S	0.00 usft	Northing:	382,650.27 usft	Latitude:	32.050733
	+E/-W	0.00 usft	Easting:	715,896.84 usft	Longitude:	-103.769911
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	0.81	

Survey Program	Date	6/29/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.00	1,366.00	Survey #1 Surface (OH Wellbore)	MWD+HDGM	OWSG MWD + HDGM	
1,391.00	21,793.00	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	0.94	162.45	175.99	-1.38	0.44	-1.37	0.53	0.53	0.00	
267.00	0.81	203.05	266.98	-2.68	0.41	-2.67	0.68	-0.14	44.62	
360.00	0.80	211.15	359.97	-3.84	-0.18	-3.84	0.12	-0.01	8.71	
450.00	1.17	191.33	449.96	-5.28	-0.69	-5.29	0.55	0.41	-22.02	
541.00	1.31	198.11	540.94	-7.18	-1.20	-7.20	0.22	0.15	7.45	
632.00	1.28	191.89	631.92	-9.16	-1.73	-9.19	0.16	-0.03	-6.84	
724.00	1.15	194.02	723.89	-11.06	-2.16	-11.09	0.15	-0.14	2.32	
816.00	1.17	226.78	815.88	-12.60	-3.07	-12.64	0.71	0.02	35.61	
908.00	1.34	236.82	907.85	-13.83	-4.66	-13.90	0.30	0.18	10.91	



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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	1.50	239.07	998.83	-15.03	-6.57	-15.12	0.19	0.18	2.47
1,090.00	1.55	246.07	1,089.79	-16.14	-8.72	-16.26	0.21	0.05	7.69
1,181.00	1.18	248.07	1,180.77	-16.99	-10.71	-17.14	0.41	-0.41	2.20
1,273.00	1.47	250.39	1,272.74	-17.74	-12.70	-17.92	0.32	0.32	2.52
1,366.00	1.19	257.76	1,365.72	-18.34	-14.77	-18.55	0.35	-0.30	7.92
1,391.00	1.14	265.45	1,390.71	-18.42	-15.27	-18.63	0.66	-0.20	30.76
1,512.00	1.77	266.62	1,511.67	-18.62	-18.33	-18.88	0.52	0.52	0.97
1,605.00	1.74	276.20	1,604.63	-18.56	-21.17	-18.85	0.32	-0.03	10.30
1,700.00	1.84	273.09	1,699.58	-18.32	-24.13	-18.66	0.15	0.11	-3.27
1,795.00	2.29	265.98	1,794.52	-18.37	-27.55	-18.76	0.54	0.47	-7.48
1,890.00	2.16	268.38	1,889.45	-18.55	-31.23	-18.99	0.17	-0.14	2.53
1,984.00	0.79	210.89	1,983.42	-19.16	-33.33	-19.63	1.98	-1.46	-61.16
2,079.00	2.62	131.65	2,078.38	-21.17	-32.05	-21.61	2.73	1.93	-83.41
2,174.00	3.91	116.19	2,173.23	-24.04	-27.52	-24.42	1.63	1.36	-16.27
2,268.00	6.02	112.42	2,266.87	-27.33	-20.08	-27.61	2.27	2.24	-4.01
2,363.00	8.38	118.05	2,361.12	-32.49	-9.37	-32.62	2.59	2.48	5.93
2,458.00	9.82	125.01	2,454.92	-40.39	3.38	-40.34	1.91	1.52	7.33
2,552.00	9.63	122.32	2,547.57	-49.19	16.59	-48.96	0.52	-0.20	-2.86
2,647.00	9.12	121.85	2,641.30	-57.42	29.70	-56.99	0.54	-0.54	-0.49
2,742.00	9.99	124.99	2,734.98	-66.11	42.85	-65.50	1.07	0.92	3.31
2,836.00	10.60	127.28	2,827.47	-76.03	56.40	-75.22	0.78	0.65	2.44
2,931.00	10.22	125.69	2,920.91	-86.24	70.20	-85.24	0.50	-0.40	-1.67
3,025.00	9.29	127.30	3,013.55	-95.70	83.01	-94.52	1.03	-0.99	1.71
3,120.00	9.00	126.95	3,107.34	-104.81	95.05	-103.46	0.31	-0.31	-0.37
3,214.00	8.57	128.43	3,200.24	-113.59	106.41	-112.07	0.52	-0.46	1.57
3,309.00	8.08	127.76	3,294.23	-122.07	117.23	-120.41	0.53	-0.52	-0.71
3,403.00	7.71	129.49	3,387.34	-130.13	127.32	-128.32	0.47	-0.39	1.84
3,498.00	7.74	128.05	3,481.48	-138.12	137.28	-136.18	0.21	0.03	-1.52
3,592.00	8.09	129.84	3,574.59	-146.26	147.34	-144.17	0.46	0.37	1.90
3,687.00	7.45	131.59	3,668.71	-154.63	157.08	-152.40	0.72	-0.67	1.84
3,781.00	5.55	131.67	3,762.11	-161.70	165.04	-159.36	2.02	-2.02	0.09
3,876.00	3.85	140.41	3,856.78	-167.21	170.50	-164.79	1.94	-1.79	9.20
3,970.00	2.31	149.52	3,950.65	-171.28	173.47	-168.82	1.71	-1.64	9.69
4,065.00	0.68	105.39	4,045.61	-173.08	174.99	-170.60	1.98	-1.72	-46.45
4,160.00	1.05	18.68	4,140.60	-172.40	175.81	-169.91	1.28	0.39	-91.27
4,254.00	0.93	7.80	4,234.59	-170.83	176.19	-168.33	0.24	-0.13	-11.57
4,349.00	0.84	357.76	4,329.58	-169.37	176.27	-166.87	0.19	-0.09	-10.57
4,444.00	0.51	12.19	4,424.57	-168.26	176.33	-165.76	0.39	-0.35	15.19
4,538.00	0.90	354.78	4,518.57	-167.12	176.35	-164.62	0.47	0.41	-18.52
4,633.00	0.61	13.26	4,613.56	-165.88	176.40	-163.38	0.39	-0.31	19.45
4,727.00	0.74	8.64	4,707.55	-164.80	176.60	-162.29	0.15	0.14	-4.91
4,822.00	0.67	32.52	4,802.54	-163.72	176.99	-161.21	0.32	-0.07	25.14
4,917.00	0.44	42.54	4,897.54	-162.99	177.54	-160.47	0.26	-0.24	10.55



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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)
5,011.00	1.51	348.93	4,991.53	-161.50	177.55	-158.99	1.38	1.14	-57.03
5,106.00	2.03	339.58	5,086.48	-158.70	176.72	-156.19	0.62	0.55	-9.84
5,201.00	1.86	333.56	5,181.43	-155.74	175.44	-153.25	0.28	-0.18	-6.34
5,296.00	1.99	334.56	5,276.37	-152.87	174.05	-150.40	0.14	0.14	1.05
5,391.00	1.68	334.18	5,371.32	-150.13	172.73	-147.68	0.33	-0.33	-0.40
5,486.00	2.11	326.77	5,466.27	-147.41	171.17	-144.98	0.52	0.45	-7.80
5,580.00	1.93	335.52	5,560.21	-144.52	169.57	-142.12	0.38	-0.19	9.31
5,675.00	1.74	336.98	5,655.16	-141.74	168.34	-139.35	0.21	-0.20	1.54
5,769.00	0.84	297.32	5,749.14	-140.11	167.17	-137.74	1.30	-0.96	-42.19
5,863.00	0.88	275.78	5,843.13	-139.72	165.84	-137.37	0.34	0.04	-22.91
5,958.00	0.74	259.94	5,938.12	-139.76	164.51	-137.42	0.28	-0.15	-16.67
6,053.00	0.79	266.15	6,033.11	-139.91	163.25	-137.59	0.10	0.05	6.54
6,147.00	0.72	255.33	6,127.10	-140.10	162.03	-137.80	0.17	-0.07	-11.51
6,240.00	0.69	255.10	6,220.10	-140.39	160.93	-138.11	0.03	-0.03	-0.25
6,335.00	0.68	252.35	6,315.09	-140.71	159.84	-138.44	0.04	-0.01	-2.89
6,429.00	0.41	236.18	6,409.09	-141.07	159.03	-138.81	0.33	-0.29	-17.20
6,523.00	0.71	220.53	6,503.08	-141.70	158.37	-139.45	0.36	0.32	-16.65
6,617.00	0.80	236.17	6,597.07	-142.50	157.44	-140.27	0.24	0.10	16.64
6,712.00	0.84	214.42	6,692.06	-143.45	156.50	-141.23	0.33	0.04	-22.89
6,806.00	0.91	215.86	6,786.05	-144.62	155.67	-142.41	0.08	0.07	1.53
6,901.00	0.93	197.14	6,881.04	-145.97	155.00	-143.77	0.32	0.02	-19.71
6,995.00	0.91	187.71	6,975.03	-147.44	154.68	-145.24	0.16	-0.02	-10.03
7,089.00	0.48	140.45	7,069.02	-148.48	154.83	-146.28	0.73	-0.46	-50.28
7,184.00	0.44	88.29	7,164.02	-148.78	155.45	-146.57	0.43	-0.04	-54.91
7,279.00	0.52	88.74	7,259.02	-148.76	156.24	-146.54	0.08	0.08	0.47
7,373.00	0.67	109.62	7,353.01	-148.93	157.19	-146.70	0.28	0.16	22.21
7,468.00	0.72	117.24	7,448.00	-149.39	158.24	-147.15	0.11	0.05	8.02
7,562.00	0.67	119.81	7,542.00	-149.93	159.24	-147.68	0.06	-0.05	2.73
7,657.00	0.56	133.08	7,636.99	-150.53	160.06	-148.26	0.19	-0.12	13.97
7,751.00	0.54	132.46	7,730.99	-151.14	160.73	-148.86	0.02	-0.02	-0.66
7,846.00	0.65	141.59	7,825.98	-151.87	161.39	-149.58	0.15	0.12	9.61
7,941.00	0.74	149.25	7,920.98	-152.81	162.04	-150.52	0.14	0.09	8.06
8,035.00	0.74	161.08	8,014.97	-153.91	162.55	-151.60	0.16	0.00	12.59
8,130.00	0.75	159.21	8,109.96	-155.07	162.97	-152.76	0.03	0.01	-1.97
8,224.00	0.59	174.07	8,203.95	-156.13	163.23	-153.81	0.25	-0.17	15.81
8,318.00	0.71	168.13	8,297.95	-157.18	163.40	-154.86	0.15	0.13	-6.32
8,413.00	0.68	141.78	8,392.94	-158.20	163.87	-155.87	0.33	-0.03	-27.74
8,508.00	0.63	135.84	8,487.93	-159.02	164.59	-156.68	0.09	-0.05	-6.25
8,602.00	0.66	122.25	8,581.93	-159.68	165.40	-157.33	0.17	0.03	-14.46
8,697.00	0.44	71.54	8,676.92	-159.85	166.21	-157.49	0.54	-0.23	-53.38
8,792.00	0.55	58.47	8,771.92	-159.50	166.95	-157.13	0.17	0.12	-13.76
8,886.00	0.24	226.59	8,865.92	-159.40	167.19	-157.03	0.84	-0.33	178.85
8,981.00	0.69	232.53	8,960.92	-159.88	166.59	-157.52	0.48	0.47	6.25



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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)
9,075.00	0.65	196.34	9,054.91	-160.74	165.99	-158.38	0.44	-0.04	-38.50
9,169.00	0.80	199.56	9,148.90	-161.87	165.62	-159.52	0.17	0.16	3.43
9,263.00	0.95	177.18	9,242.89	-163.27	165.44	-160.92	0.39	0.16	-23.81
9,357.00	1.09	164.98	9,336.88	-164.91	165.71	-162.56	0.27	0.15	-12.98
9,452.00	1.55	184.77	9,431.85	-167.06	165.84	-164.71	0.67	0.48	20.83
9,547.00	1.79	186.04	9,526.81	-169.82	165.58	-167.47	0.26	0.25	1.34
9,641.00	1.26	151.10	9,620.78	-172.18	165.92	-169.83	1.11	-0.56	-37.17
9,736.00	1.22	137.08	9,715.76	-173.84	167.11	-171.46	0.32	-0.04	-14.76
9,831.00	0.94	143.12	9,810.74	-175.20	168.27	-172.81	0.32	-0.29	6.36
9,925.00	0.64	141.61	9,904.73	-176.23	169.06	-173.83	0.32	-0.32	-1.61
10,020.00	0.77	140.69	9,999.73	-177.14	169.79	-174.73	0.14	0.14	-0.97
10,114.00	0.92	129.28	10,093.72	-178.10	170.78	-175.68	0.24	0.16	-12.14
10,208.00	0.98	114.94	10,187.70	-178.92	172.09	-176.48	0.26	0.06	-15.26
10,303.00	1.23	125.42	10,282.68	-179.85	173.66	-177.39	0.34	0.26	11.03
10,398.00	1.34	141.71	10,377.66	-181.32	175.18	-178.83	0.40	0.12	17.15
10,492.00	1.03	143.61	10,471.64	-182.86	176.36	-180.36	0.33	-0.33	2.02
10,587.00	0.33	140.46	10,566.63	-183.76	177.04	-181.25	0.74	-0.74	-3.32
10,681.00	0.20	307.35	10,660.63	-183.87	177.08	-181.35	0.56	-0.14	177.54
10,775.00	0.17	267.89	10,754.63	-183.77	176.81	-181.26	0.14	-0.03	-41.98
10,869.00	0.40	262.85	10,848.63	-183.82	176.35	-181.32	0.25	0.24	-5.36
10,933.00	0.48	248.65	10,912.63	-183.94	175.88	-181.45	0.21	0.13	-22.19
10,963.00	0.35	211.29	10,942.63	-184.07	175.71	-181.57	0.98	-0.43	-124.53
11,012.00	0.60	214.57	10,991.63	-184.41	175.49	-181.92	0.51	0.51	6.69
11012 MD 34.5 FSL 1645.5 FWL									
11,107.00	1.08	216.63	11,086.62	-185.53	174.67	-183.05	0.51	0.51	2.17
11,202.00	0.50	248.24	11,181.61	-186.41	173.75	-183.94	0.74	-0.61	33.27
11,296.00	5.59	3.68	11,275.46	-181.99	173.67	-179.52	6.19	5.41	122.81
11,391.00	15.06	5.80	11,368.82	-165.05	175.21	-162.56	9.97	9.97	2.23
11,486.00	29.64	1.72	11,456.45	-129.10	177.18	-126.59	15.43	15.35	-4.29
11,581.00	45.91	3.42	11,531.29	-71.17	179.94	-68.62	17.16	17.13	1.79
11,676.00	62.61	356.80	11,586.62	5.60	179.62	8.13	18.45	17.58	-6.97
11,771.00	72.62	359.11	11,622.76	93.27	176.55	95.75	10.77	10.54	2.43
11,788.97	75.30	359.70	11,627.73	110.53	176.37	113.01	15.26	14.93	3.29
100 FSL 11788.97 MD									
11,865.00	86.67	2.08	11,639.62	185.49	177.56	187.97	15.26	14.95	3.13
11,960.00	89.06	359.89	11,643.16	280.39	179.19	282.89	3.41	2.52	-2.31
12,055.00	88.99	359.69	11,644.77	375.38	178.84	377.86	0.22	-0.07	-0.21
12,149.00	89.16	358.67	11,646.29	469.36	177.50	471.81	1.10	0.18	-1.09
12,243.00	89.23	357.96	11,647.61	563.31	174.73	565.71	0.76	0.07	-0.76
12,337.00	90.61	359.23	11,647.74	657.27	172.43	659.64	2.00	1.47	1.35
12,432.00	91.00	1.13	11,646.41	752.26	172.73	754.62	2.04	0.41	2.00
12,526.00	91.61	359.77	11,644.27	846.23	173.47	848.59	1.59	0.65	-1.45
12,602.00	89.90	1.00	11,643.27	922.22	173.98	924.58	2.77	-2.25	1.62
12,697.00	89.06	2.62	11,644.13	1,017.16	176.98	1,019.55	1.92	-0.88	1.71



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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)
12,791.00	89.83	4.63	11,645.04	1,110.96	182.92	1,113.43	2.29	0.82	2.14
12,886.00	86.95	3.22	11,647.71	1,205.69	189.42	1,208.24	3.38	-3.03	-1.48
12,981.00	86.50	2.85	11,653.14	1,300.40	194.44	1,303.01	0.61	-0.47	-0.39
13,076.00	87.31	1.60	11,658.27	1,395.19	198.12	1,397.84	1.57	0.85	-1.32
13,171.00	87.92	358.82	11,662.22	1,490.10	198.47	1,492.75	2.99	0.64	-2.93
13,265.00	90.07	358.61	11,663.87	1,584.05	196.36	1,586.66	2.30	2.29	-0.22
13,360.00	90.60	357.79	11,663.31	1,679.00	193.38	1,681.56	1.03	0.56	-0.86
13,455.00	90.34	357.36	11,662.53	1,773.91	189.36	1,776.41	0.53	-0.27	-0.45
13,549.00	89.76	357.99	11,662.45	1,867.84	185.55	1,870.27	0.91	-0.62	0.67
13,643.00	90.03	359.04	11,662.62	1,961.80	183.11	1,964.19	1.15	0.29	1.12
13,738.00	90.50	359.13	11,662.18	2,056.79	181.59	2,059.15	0.50	0.49	0.09
13,832.00	90.34	358.66	11,661.50	2,150.77	179.78	2,153.09	0.53	-0.17	-0.50
13,927.00	90.60	358.90	11,660.72	2,245.74	177.76	2,248.03	0.37	0.27	0.25
14,022.00	89.13	357.50	11,660.94	2,340.69	174.77	2,342.92	2.14	-1.55	-1.47
14,116.00	88.72	357.66	11,662.70	2,434.59	170.81	2,436.76	0.47	-0.44	0.17
14,209.00	89.93	357.87	11,663.80	2,527.51	167.18	2,529.62	1.32	1.30	0.23
14,303.00	90.30	358.20	11,663.61	2,621.46	163.96	2,623.51	0.53	0.39	0.35
14,397.00	90.60	359.14	11,662.87	2,715.43	161.77	2,717.44	1.05	0.32	1.00
14,491.00	90.87	358.85	11,661.67	2,809.41	160.13	2,811.38	0.42	0.29	-0.31
14,584.00	89.76	359.41	11,661.16	2,902.39	158.71	2,904.34	1.34	-1.19	0.60
14,678.00	87.28	0.39	11,663.58	2,996.35	158.55	2,998.29	2.84	-2.64	1.04
14,772.00	86.67	0.01	11,668.54	3,090.22	158.88	3,092.15	0.76	-0.65	-0.40
14,866.00	88.66	0.60	11,672.37	3,184.13	159.38	3,186.07	2.21	2.12	0.63
14,960.00	87.52	359.72	11,675.51	3,278.08	159.64	3,280.00	1.53	-1.21	-0.94
15,055.00	89.70	1.19	11,677.81	3,373.04	160.39	3,374.97	2.77	2.29	1.55
15,150.00	90.27	0.28	11,677.84	3,468.03	161.61	3,469.96	1.13	0.60	-0.96
15,245.00	90.13	359.92	11,677.50	3,563.03	161.78	3,564.96	0.41	-0.15	-0.38
15,340.00	90.70	359.77	11,676.82	3,658.03	161.52	3,659.94	0.62	0.60	-0.16
15,433.00	90.44	359.35	11,675.89	3,751.02	160.81	3,752.91	0.53	-0.28	-0.45
15,527.00	90.17	359.04	11,675.39	3,845.01	159.49	3,846.87	0.44	-0.29	-0.33
15,622.00	89.53	358.66	11,675.64	3,939.99	157.58	3,941.82	0.78	-0.67	-0.40
15,716.00	90.07	359.97	11,675.97	4,033.98	156.46	4,035.78	1.51	0.57	1.39
15,810.00	90.81	0.34	11,675.24	4,127.98	156.71	4,129.77	0.88	0.79	0.39
15,905.00	90.77	0.88	11,673.94	4,222.96	157.72	4,224.76	0.57	-0.04	0.57
15,999.00	89.40	1.18	11,673.80	4,316.94	159.41	4,318.76	1.49	-1.46	0.32
16,094.00	88.79	1.43	11,675.30	4,411.91	161.58	4,413.74	0.69	-0.64	0.26
16,189.00	87.78	0.44	11,678.14	4,506.85	163.13	4,508.70	1.49	-1.06	-1.04
16,283.00	89.26	359.46	11,680.57	4,600.81	163.04	4,602.65	1.89	1.57	-1.04
16,378.00	89.56	359.00	11,681.55	4,695.80	161.77	4,697.61	0.58	0.32	-0.48
16,472.00	89.56	359.02	11,682.27	4,789.78	160.14	4,791.56	0.02	0.00	0.02
16,567.00	89.09	358.24	11,683.39	4,884.75	157.87	4,886.49	0.96	-0.49	-0.82
16,662.00	88.89	357.14	11,685.06	4,979.65	154.04	4,981.33	1.18	-0.21	-1.16
16,756.00	89.83	358.57	11,686.11	5,073.58	150.52	5,075.20	1.82	1.00	1.52



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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)
16,849.00	90.20	0.20	11,686.09	5,166.57	149.53	5,168.16	1.80	0.40	1.75
16,943.00	90.10	359.77	11,685.84	5,260.57	149.50	5,262.15	0.47	-0.11	-0.46
17,038.00	89.66	359.33	11,686.04	5,355.57	148.76	5,357.13	0.66	-0.46	-0.46
17,131.00	90.00	358.98	11,686.32	5,448.56	147.38	5,450.09	0.52	0.37	-0.38
17,226.00	90.10	359.00	11,686.23	5,543.54	145.71	5,545.04	0.11	0.11	0.02
17,321.00	89.56	357.43	11,686.51	5,638.49	142.75	5,639.94	1.75	-0.57	-1.65
17,416.00	90.87	359.20	11,686.16	5,733.44	139.96	5,734.85	2.32	1.38	1.86
17,510.00	90.20	359.86	11,685.28	5,827.43	139.19	5,828.82	1.00	-0.71	0.70
17,604.00	90.24	359.89	11,684.92	5,921.43	138.98	5,922.80	0.05	0.04	0.03
17,698.00	90.74	0.06	11,684.12	6,015.43	138.94	6,016.79	0.56	0.53	0.18
17,793.00	89.33	0.77	11,684.06	6,110.42	139.63	6,111.79	1.66	-1.48	0.75
17,886.00	89.97	0.51	11,684.63	6,203.42	140.67	6,204.78	0.74	0.69	-0.28
17,980.00	88.05	1.09	11,686.25	6,297.39	141.98	6,298.76	2.13	-2.04	0.62
18,075.00	87.82	1.24	11,689.67	6,392.31	143.91	6,393.70	0.29	-0.24	0.16
18,169.00	87.18	0.78	11,693.77	6,486.20	145.57	6,487.61	0.84	-0.68	-0.49
18,263.00	88.22	0.57	11,697.55	6,580.12	146.67	6,581.53	1.13	1.11	-0.22
18,356.00	88.86	0.95	11,699.91	6,673.08	147.90	6,674.50	0.80	0.69	0.41
18,450.00	90.10	1.27	11,700.77	6,767.06	149.73	6,768.49	1.36	1.32	0.34
18,545.00	90.47	1.72	11,700.30	6,862.02	152.20	6,863.49	0.61	0.39	0.47
18,639.00	90.34	1.29	11,699.63	6,955.99	154.67	6,957.48	0.48	-0.14	-0.46
18,734.00	91.64	1.01	11,697.99	7,050.95	156.58	7,052.46	1.40	1.37	-0.29
18,828.00	92.22	1.11	11,694.82	7,144.88	158.32	7,146.40	0.63	0.62	0.11
18,922.00	92.18	0.82	11,691.22	7,238.80	159.90	7,240.33	0.31	-0.04	-0.31
19,016.00	91.41	0.64	11,688.27	7,332.74	161.10	7,334.29	0.84	-0.82	-0.19
19,111.00	92.38	1.73	11,685.13	7,427.67	163.06	7,429.23	1.54	1.02	1.15
19,205.00	91.65	359.83	11,681.82	7,521.60	164.34	7,523.17	2.16	-0.78	-2.02
19,300.00	91.78	359.77	11,678.98	7,616.55	164.01	7,618.11	0.15	0.14	-0.06
19,394.00	92.62	0.21	11,675.37	7,710.48	163.99	7,712.03	1.01	0.89	0.47
19,488.00	90.77	0.29	11,672.59	7,804.44	164.40	7,805.98	1.97	-1.97	0.09
19,583.00	90.57	359.51	11,671.48	7,899.43	164.23	7,900.96	0.85	-0.21	-0.82
19,677.00	87.85	358.63	11,672.78	7,993.40	162.71	7,994.90	3.04	-2.89	-0.94
19,772.00	87.65	358.35	11,676.51	8,088.29	160.21	8,089.75	0.36	-0.21	-0.29
19,867.00	87.21	358.27	11,680.77	8,183.16	157.41	8,184.56	0.47	-0.46	-0.08
19,961.00	88.29	358.36	11,684.46	8,277.04	154.65	8,278.40	1.15	1.15	0.10
20,056.00	88.69	358.41	11,686.96	8,371.97	151.97	8,373.28	0.42	0.42	0.05
20,150.00	89.23	358.44	11,688.67	8,465.92	149.39	8,467.18	0.58	0.57	0.03
20,245.00	88.46	359.06	11,690.58	8,560.88	147.31	8,562.10	1.04	-0.81	0.65
20,339.00	89.02	358.83	11,692.65	8,654.84	145.58	8,656.03	0.64	0.60	-0.24
20,433.00	88.79	358.43	11,694.44	8,748.79	143.34	8,749.94	0.49	-0.24	-0.43
20,528.00	88.83	358.78	11,696.42	8,843.74	141.03	8,844.85	0.37	0.04	0.37
20,622.00	90.30	359.41	11,697.13	8,937.73	139.54	8,938.81	1.70	1.56	0.67
20,717.00	93.53	0.73	11,693.96	9,032.66	139.66	9,033.73	3.67	3.40	1.39
20,811.00	94.13	2.15	11,687.68	9,126.42	142.01	9,127.51	1.64	0.64	1.51
20,906.00	92.69	0.99	11,682.03	9,221.21	144.61	9,222.33	1.95	-1.52	-1.22



Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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)
21,000.00	91.08	359.89	11,678.94	9,315.15	145.33	9,316.27	2.07	-1.71	-1.17
21,095.00	89.40	359.98	11,678.54	9,410.15	145.22	9,411.26	1.77	-1.77	0.09
21,189.00	89.53	359.51	11,679.42	9,504.14	144.80	9,505.24	0.52	0.14	-0.50
21,284.00	89.16	358.91	11,680.50	9,599.13	143.49	9,600.19	0.74	-0.39	-0.63
21,378.00	89.93	359.02	11,681.25	9,693.11	141.80	9,694.14	0.83	0.82	0.12
21,473.00	89.36	359.00	11,681.84	9,788.09	140.16	9,789.09	0.60	-0.60	-0.02
21,568.00	89.40	358.68	11,682.86	9,883.06	138.23	9,884.03	0.34	0.04	-0.34
21,662.00	89.26	358.42	11,683.96	9,977.03	135.85	9,977.95	0.31	-0.15	-0.28
21,733.00	89.06	357.73	11,685.00	10,047.98	133.47	10,048.86	1.01	-0.28	-0.97
Last SVY									
21,793.00	89.06	357.73	11,685.99	10,107.92	131.09	10,108.77	0.00	0.00	0.00
BHL: 335.4 FNL 1638.2 FWL - 32.078515° 103.769317° - 21793 MD 11685.99 TVD - Y-392757.63 X-716027.93									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,012.00	10,991.63	-184.41	175.49	11012 MD 34.5 FSL 1645.5 FWL
11,788.97	11,627.73	110.53	176.37	100 FSL 11788.97 MD
21,733.00	11,685.00	10,047.98	133.47	Last SVY
21,793.00	11,685.99	10,107.92	131.09	BHL: 335.4 FNL 1638.2 FWL
21,793.00	11,685.99	10,107.92	131.09	32.078515° 103.769317°
21,793.00	11,685.99	10,107.92	131.09	21793 MD 11685.99 TVD
21,793.00	11,685.99	10,107.92	131.09	Y-392757.63 X-716027.93

Checked By: _____ Approved By: _____ Date: _____



Devon Energy

**Eddy County, NM (NAD83 NME)
Thoroughbred Pad
Thoroughbred 10-3 Fed Com 712H**

OH Wellbore

Design: As Drilled

Survey Report - Geographic

29 June, 2020



www.scientificdrilling.com





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Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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				32.050728	
				-103.773525	

Well	Thoroughbred 10-3 Fed Com 712H, Wolfcamp 110					
Well Position	+N/-S	0.00 usft	Northing:	382,650.27 usft	Latitude:	32.050733
	+E/-W	0.00 usft	Easting:	715,896.84 usft	Longitude:	-103.769911
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	0.81	

Survey Program	Date	6/29/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.00	1,366.00	Survey #1 Surface (OH Wellbore)	MWD+HDGM	OWSG MWD + HDGM	
1,391.00	21,793.00	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	382,650.27	715,896.84	32.050733	-103.769911	
176.00	0.94	162.45	175.99	-1.38	0.44	382,648.89	715,897.27	32.050730	-103.769909	
267.00	0.81	203.05	266.98	-2.68	0.41	382,647.59	715,897.24	32.050726	-103.769910	
360.00	0.80	211.15	359.97	-3.84	-0.18	382,646.43	715,896.65	32.050723	-103.769911	
450.00	1.17	191.33	449.96	-5.28	-0.69	382,644.99	715,896.15	32.050719	-103.769913	
541.00	1.31	198.11	540.94	-7.18	-1.20	382,643.09	715,895.64	32.050714	-103.769915	
632.00	1.28	191.89	631.92	-9.16	-1.73	382,641.11	715,895.11	32.050708	-103.769917	
724.00	1.15	194.02	723.89	-11.06	-2.16	382,639.21	715,894.67	32.050703	-103.769918	
816.00	1.17	226.78	815.88	-12.60	-3.07	382,637.67	715,893.76	32.050699	-103.769921	
908.00	1.34	236.82	907.85	-13.83	-4.66	382,636.44	715,892.18	32.050696	-103.769926	
999.00	1.50	239.07	998.83	-15.03	-6.57	382,635.24	715,890.27	32.050692	-103.769932	



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Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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	1.55	246.07	1,089.79	-16.14	-8.72	382,634.13	715,888.12	32.050689	-103.769939
1,181.00	1.18	248.07	1,180.77	-16.99	-10.71	382,633.28	715,886.13	32.050687	-103.769946
1,273.00	1.47	250.39	1,272.74	-17.74	-12.70	382,632.53	715,884.14	32.050685	-103.769952
1,366.00	1.19	257.76	1,365.72	-18.34	-14.77	382,631.93	715,882.07	32.050683	-103.769959
1,391.00	1.14	265.45	1,390.71	-18.42	-15.27	382,631.85	715,881.57	32.050683	-103.769960
1,512.00	1.77	266.62	1,511.67	-18.62	-18.33	382,631.64	715,878.50	32.050683	-103.769970
1,605.00	1.74	276.20	1,604.63	-18.56	-21.17	382,631.71	715,875.66	32.050683	-103.769979
1,700.00	1.84	273.09	1,699.58	-18.32	-24.13	382,631.95	715,872.71	32.050683	-103.769989
1,795.00	2.29	265.98	1,794.52	-18.37	-27.55	382,631.90	715,869.29	32.050683	-103.770000
1,890.00	2.16	268.38	1,889.45	-18.55	-31.23	382,631.72	715,865.61	32.050683	-103.770012
1,984.00	0.79	210.89	1,983.42	-19.16	-33.33	382,631.11	715,863.51	32.050681	-103.770019
2,079.00	2.62	131.65	2,078.38	-21.17	-32.05	382,629.10	715,864.79	32.050676	-103.770015
2,174.00	3.91	116.19	2,173.23	-24.04	-27.52	382,626.23	715,869.32	32.050668	-103.770000
2,268.00	6.02	112.42	2,266.87	-27.33	-20.08	382,622.94	715,876.75	32.050659	-103.769976
2,363.00	8.38	118.05	2,361.12	-32.49	-9.37	382,617.78	715,887.47	32.050644	-103.769942
2,458.00	9.82	125.01	2,454.92	-40.39	3.38	382,609.88	715,900.21	32.050622	-103.769901
2,552.00	9.63	122.32	2,547.57	-49.19	16.59	382,601.08	715,913.42	32.050598	-103.769858
2,647.00	9.12	121.85	2,641.30	-57.42	29.70	382,592.86	715,926.53	32.050575	-103.769816
2,742.00	9.99	124.99	2,734.98	-66.11	42.85	382,584.16	715,939.68	32.050551	-103.769774
2,836.00	10.60	127.28	2,827.47	-76.03	56.40	382,574.25	715,953.24	32.050524	-103.769730
2,931.00	10.22	125.69	2,920.91	-86.24	70.20	382,564.04	715,967.03	32.050495	-103.769686
3,025.00	9.29	127.30	3,013.55	-95.70	83.01	382,554.57	715,979.84	32.050469	-103.769645
3,120.00	9.00	126.95	3,107.34	-104.81	95.05	382,545.46	715,991.88	32.050444	-103.769606
3,214.00	8.57	128.43	3,200.24	-113.59	106.41	382,536.69	716,003.24	32.050420	-103.769569
3,309.00	8.08	127.76	3,294.23	-122.07	117.23	382,528.20	716,014.06	32.050396	-103.769535
3,403.00	7.71	129.49	3,387.34	-130.13	127.32	382,520.15	716,024.15	32.050374	-103.769502
3,498.00	7.74	128.05	3,481.48	-138.12	137.28	382,512.15	716,034.11	32.050352	-103.769470
3,592.00	8.09	129.84	3,574.59	-146.26	147.34	382,504.01	716,044.17	32.050329	-103.769438
3,687.00	7.45	131.59	3,668.71	-154.63	157.08	382,495.64	716,053.91	32.050306	-103.769406
3,781.00	5.55	131.67	3,762.11	-161.70	165.04	382,488.58	716,061.86	32.050287	-103.769381
3,876.00	3.85	140.41	3,856.78	-167.21	170.50	382,483.06	716,067.33	32.050271	-103.769363
3,970.00	2.31	149.52	3,950.65	-171.28	173.47	382,479.00	716,070.30	32.050260	-103.769354
4,065.00	0.68	105.39	4,045.61	-173.08	174.99	382,477.20	716,071.81	32.050255	-103.769349
4,160.00	1.05	18.68	4,140.60	-172.40	175.81	382,477.87	716,072.64	32.050257	-103.769346
4,254.00	0.93	7.80	4,234.59	-170.83	176.19	382,479.45	716,073.02	32.050261	-103.769345
4,349.00	0.84	357.76	4,329.58	-169.37	176.27	382,480.91	716,073.09	32.050265	-103.769345
4,444.00	0.51	12.19	4,424.57	-168.26	176.33	382,482.01	716,073.15	32.050268	-103.769345
4,538.00	0.90	354.78	4,518.57	-167.12	176.35	382,483.16	716,073.18	32.050272	-103.769344
4,633.00	0.61	13.26	4,613.56	-165.88	176.40	382,484.39	716,073.22	32.050275	-103.769344
4,727.00	0.74	8.64	4,707.55	-164.80	176.60	382,485.48	716,073.43	32.050278	-103.769344
4,822.00	0.67	32.52	4,802.54	-163.72	176.99	382,486.56	716,073.82	32.050281	-103.769342
4,917.00	0.44	42.54	4,897.54	-162.99	177.54	382,487.29	716,074.37	32.050283	-103.769341
5,011.00	1.51	348.93	4,991.53	-161.50	177.55	382,488.77	716,074.37	32.050287	-103.769341
5,106.00	2.03	339.58	5,086.48	-158.70	176.72	382,491.58	716,073.54	32.050295	-103.769343
5,201.00	1.86	333.56	5,181.43	-155.74	175.44	382,494.54	716,072.27	32.050303	-103.769347
5,296.00	1.99	334.56	5,276.37	-152.87	174.05	382,497.41	716,070.88	32.050311	-103.769352
5,391.00	1.68	334.18	5,371.32	-150.13	172.73	382,500.15	716,069.56	32.050318	-103.769356
5,486.00	2.11	326.77	5,466.27	-147.41	171.17	382,502.87	716,068.00	32.050326	-103.769361
5,580.00	1.93	335.52	5,560.21	-144.52	169.57	382,505.75	716,066.39	32.050334	-103.769366
5,675.00	1.74	336.98	5,655.16	-141.74	168.34	382,508.54	716,065.17	32.050341	-103.769370
5,769.00	0.84	297.32	5,749.14	-140.11	167.17	382,510.17	716,064.00	32.050346	-103.769374
5,863.00	0.88	275.78	5,843.13	-139.72	165.84	382,510.55	716,062.66	32.050347	-103.769378
5,958.00	0.74	259.94	5,938.12	-139.76	164.51	382,510.52	716,061.34	32.050347	-103.769382
6,053.00	0.79	266.15	6,033.11	-139.91	163.25	382,510.37	716,060.08	32.050347	-103.769386
6,147.00	0.72	255.33	6,127.10	-140.10	162.03	382,510.18	716,058.86	32.050346	-103.769390



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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
6,240.00	0.69	255.10	6,220.10	-140.39	160.93	382,509.88	716,057.75	32.050345	-103.769394
6,335.00	0.68	252.35	6,315.09	-140.71	159.84	382,509.57	716,056.66	32.050344	-103.769397
6,429.00	0.41	236.18	6,409.09	-141.07	159.03	382,509.21	716,055.85	32.050343	-103.769400
6,523.00	0.71	220.53	6,503.08	-141.70	158.37	382,508.58	716,055.19	32.050342	-103.769402
6,617.00	0.80	236.17	6,597.07	-142.50	157.44	382,507.77	716,054.27	32.050340	-103.769405
6,712.00	0.84	214.42	6,692.06	-143.45	156.50	382,506.83	716,053.33	32.050337	-103.769408
6,806.00	0.91	215.86	6,786.05	-144.62	155.67	382,505.66	716,052.50	32.050334	-103.769411
6,901.00	0.93	197.14	6,881.04	-145.97	155.00	382,504.31	716,051.83	32.050330	-103.769413
6,995.00	0.91	187.71	6,975.03	-147.44	154.68	382,502.84	716,051.51	32.050326	-103.769414
7,089.00	0.48	140.45	7,069.02	-148.48	154.83	382,501.80	716,051.66	32.050323	-103.769414
7,184.00	0.44	88.29	7,164.02	-148.78	155.45	382,501.50	716,052.27	32.050322	-103.769412
7,279.00	0.52	88.74	7,259.02	-148.76	156.24	382,501.52	716,053.07	32.050322	-103.769409
7,373.00	0.67	109.62	7,353.01	-148.93	157.19	382,501.35	716,054.01	32.050322	-103.769406
7,468.00	0.72	117.24	7,448.00	-149.39	158.24	382,500.89	716,055.07	32.050321	-103.769403
7,562.00	0.67	119.81	7,542.00	-149.93	159.24	382,500.34	716,056.07	32.050319	-103.769399
7,657.00	0.56	133.08	7,636.99	-150.53	160.06	382,499.75	716,056.89	32.050317	-103.769397
7,751.00	0.54	132.46	7,730.99	-151.14	160.73	382,499.14	716,057.55	32.050316	-103.769395
7,846.00	0.65	141.59	7,825.98	-151.87	161.39	382,498.41	716,058.22	32.050314	-103.769392
7,941.00	0.74	149.25	7,920.98	-152.81	162.04	382,497.46	716,058.87	32.050311	-103.769390
8,035.00	0.74	161.08	8,014.97	-153.91	162.55	382,496.37	716,059.37	32.050308	-103.769389
8,130.00	0.75	159.21	8,109.96	-155.07	162.97	382,495.21	716,059.79	32.050305	-103.769387
8,224.00	0.59	174.07	8,203.95	-156.13	163.23	382,494.15	716,060.06	32.050302	-103.769387
8,318.00	0.71	168.13	8,297.95	-157.18	163.40	382,493.10	716,060.23	32.050299	-103.769386
8,413.00	0.68	141.78	8,392.94	-158.20	163.87	382,492.08	716,060.70	32.050296	-103.769385
8,508.00	0.63	135.84	8,487.93	-159.02	164.59	382,491.26	716,061.41	32.050294	-103.769382
8,602.00	0.66	122.25	8,581.93	-159.68	165.40	382,490.60	716,062.23	32.050292	-103.769380
8,697.00	0.44	71.54	8,676.92	-159.85	166.21	382,490.42	716,063.04	32.050292	-103.769377
8,792.00	0.55	58.47	8,771.92	-159.50	166.95	382,490.78	716,063.78	32.050293	-103.769375
8,886.00	0.24	226.59	8,865.92	-159.40	167.19	382,490.88	716,064.02	32.050293	-103.769374
8,981.00	0.69	232.53	8,960.92	-159.88	166.59	382,490.39	716,063.42	32.050292	-103.769376
9,075.00	0.65	196.34	9,054.91	-160.74	165.99	382,489.54	716,062.82	32.050289	-103.769378
9,169.00	0.80	199.56	9,148.90	-161.87	165.62	382,488.41	716,062.45	32.050286	-103.769379
9,263.00	0.95	177.18	9,242.89	-163.27	165.44	382,487.01	716,062.27	32.050282	-103.769380
9,357.00	1.09	164.98	9,336.88	-164.91	165.71	382,485.37	716,062.54	32.050278	-103.769379
9,452.00	1.55	184.77	9,431.85	-167.06	165.84	382,483.22	716,062.67	32.050272	-103.769378
9,547.00	1.79	186.04	9,526.81	-169.82	165.58	382,480.46	716,062.40	32.050264	-103.769379
9,641.00	1.26	151.10	9,620.78	-172.18	165.92	382,478.10	716,062.75	32.050258	-103.769378
9,736.00	1.22	137.08	9,715.76	-173.84	167.11	382,476.44	716,063.94	32.050253	-103.769374
9,831.00	0.94	143.12	9,810.74	-175.20	168.27	382,475.08	716,065.10	32.050250	-103.769371
9,925.00	0.64	141.61	9,904.73	-176.23	169.06	382,474.05	716,065.89	32.050247	-103.769368
10,020.00	0.77	140.69	9,999.73	-177.14	169.79	382,473.14	716,066.62	32.050244	-103.769366
10,114.00	0.92	129.28	10,093.72	-178.10	170.78	382,472.17	716,067.60	32.050241	-103.769363
10,208.00	0.98	114.94	10,187.70	-178.92	172.09	382,471.36	716,068.92	32.050239	-103.769358
10,303.00	1.23	125.42	10,282.68	-179.85	173.66	382,470.42	716,070.48	32.050237	-103.769353
10,398.00	1.34	141.71	10,377.66	-181.32	175.18	382,468.96	716,072.00	32.050233	-103.769349
10,492.00	1.03	143.61	10,471.64	-182.86	176.36	382,467.42	716,073.19	32.050228	-103.769345
10,587.00	0.33	140.46	10,566.63	-183.76	177.04	382,466.52	716,073.87	32.050226	-103.769343
10,681.00	0.20	307.35	10,660.63	-183.87	177.08	382,466.41	716,073.91	32.050226	-103.769342
10,775.00	0.17	267.89	10,754.63	-183.77	176.81	382,466.51	716,073.64	32.050226	-103.769343
10,869.00	0.40	262.85	10,848.63	-183.82	176.35	382,466.46	716,073.17	32.050226	-103.769345
10,933.00	0.48	248.65	10,912.63	-183.94	175.88	382,466.33	716,072.70	32.050225	-103.769346
10,963.00	0.35	211.29	10,942.63	-184.07	175.71	382,466.21	716,072.54	32.050225	-103.769347
11,012.00	0.60	214.57	10,991.63	-184.41	175.49	382,465.87	716,072.31	32.050224	-103.769348
11012 MD 34.5 FSL 1645.5 FWL									
11,107.00	1.08	216.63	11,086.62	-185.53	174.67	382,464.74	716,071.50	32.050221	-103.769350



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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
11,202.00	0.50	248.24	11,181.61	-186.41	173.75	382,463.87	716,070.58	32.050219	-103.769353
11,296.00	5.59	3.68	11,275.46	-181.99	173.67	382,468.29	716,070.49	32.050231	-103.769353
11,391.00	15.06	5.80	11,368.82	-165.05	175.21	382,485.23	716,072.04	32.050277	-103.769348
11,486.00	29.64	1.72	11,456.45	-129.10	177.18	382,521.18	716,074.00	32.050376	-103.769341
11,581.00	45.91	3.42	11,531.29	-71.17	179.94	382,579.11	716,076.76	32.050535	-103.769331
11,676.00	62.61	356.80	11,586.62	5.60	179.62	382,655.87	716,076.44	32.050746	-103.769331
11,771.00	72.62	359.11	11,622.76	93.27	176.55	382,743.53	716,073.37	32.050987	-103.769339
11,788.97	75.30	359.70	11,627.73	110.53	176.37	382,760.80	716,073.20	32.051035	-103.769340
100 FSL 11788.97 MD									
11,865.00	86.67	2.08	11,639.62	185.49	177.56	382,835.74	716,074.39	32.051241	-103.769335
11,960.00	89.06	359.89	11,643.16	280.39	179.19	382,930.65	716,076.02	32.051502	-103.769328
12,055.00	88.99	359.69	11,644.77	375.38	178.84	383,025.63	716,075.67	32.051763	-103.769327
12,149.00	89.16	358.67	11,646.29	469.36	177.50	383,119.60	716,074.32	32.052021	-103.769330
12,243.00	89.23	357.96	11,647.61	563.31	174.73	383,213.54	716,071.56	32.052279	-103.769337
12,337.00	90.61	359.23	11,647.74	657.27	172.43	383,307.51	716,069.26	32.052538	-103.769343
12,432.00	91.00	1.13	11,646.41	752.26	172.73	383,402.49	716,069.55	32.052799	-103.769341
12,526.00	91.61	359.77	11,644.27	846.23	173.47	383,496.45	716,070.29	32.053057	-103.769337
12,602.00	89.90	1.00	11,643.27	922.22	173.98	383,572.43	716,070.80	32.053266	-103.769334
12,697.00	89.06	2.62	11,644.13	1,017.16	176.98	383,667.37	716,073.80	32.053527	-103.769322
12,791.00	89.83	4.63	11,645.04	1,110.96	182.92	383,761.17	716,079.74	32.053785	-103.769302
12,886.00	86.95	3.22	11,647.71	1,205.69	189.42	383,855.89	716,086.24	32.054045	-103.769279
12,981.00	86.50	2.85	11,653.14	1,300.40	194.44	383,950.60	716,091.27	32.054305	-103.769261
13,076.00	87.31	1.60	11,658.27	1,395.19	198.12	384,045.38	716,094.95	32.054566	-103.769248
13,171.00	87.92	358.82	11,662.22	1,490.10	198.47	384,140.28	716,095.30	32.054826	-103.769245
13,265.00	90.07	358.61	11,663.87	1,584.05	196.36	384,234.23	716,093.19	32.055085	-103.769250
13,360.00	90.60	357.79	11,663.31	1,679.00	193.38	384,329.18	716,090.20	32.055346	-103.769258
13,455.00	90.34	357.36	11,662.53	1,773.91	189.36	384,424.08	716,086.19	32.055607	-103.769270
13,549.00	89.76	357.99	11,662.45	1,867.84	185.55	384,518.00	716,082.37	32.055865	-103.769280
13,643.00	90.03	359.04	11,662.62	1,961.80	183.11	384,611.96	716,079.94	32.056123	-103.769287
13,738.00	90.50	359.13	11,662.18	2,056.79	181.59	384,706.94	716,078.42	32.056384	-103.769290
13,832.00	90.34	358.66	11,661.50	2,150.77	179.78	384,800.92	716,076.61	32.056643	-103.769294
13,927.00	90.60	358.90	11,660.72	2,245.74	177.76	384,895.89	716,074.58	32.056904	-103.769299
14,022.00	89.13	357.50	11,660.94	2,340.69	174.77	384,990.83	716,071.60	32.057165	-103.769307
14,116.00	88.72	357.66	11,662.70	2,434.59	170.81	385,084.72	716,067.63	32.057423	-103.769319
14,209.00	89.93	357.87	11,663.80	2,527.51	167.18	385,177.64	716,064.01	32.057678	-103.769329
14,303.00	90.30	358.20	11,663.61	2,621.46	163.96	385,271.58	716,060.78	32.057937	-103.769337
14,397.00	90.60	359.14	11,662.87	2,715.43	161.77	385,365.54	716,058.60	32.058195	-103.769343
14,491.00	90.87	358.85	11,661.67	2,809.41	160.13	385,459.52	716,056.95	32.058453	-103.769347
14,584.00	89.76	359.41	11,661.16	2,902.39	158.71	385,552.50	716,055.54	32.058709	-103.769350
14,678.00	87.28	0.39	11,663.58	2,996.35	158.55	385,646.45	716,055.38	32.058967	-103.769349
14,772.00	86.67	0.01	11,668.54	3,090.22	158.88	385,740.31	716,055.70	32.059225	-103.769346
14,866.00	88.66	0.60	11,672.37	3,184.13	159.38	385,834.23	716,056.20	32.059483	-103.769343
14,960.00	87.52	359.72	11,675.51	3,278.08	159.64	385,928.16	716,056.47	32.059742	-103.769340
15,055.00	89.70	1.19	11,677.81	3,373.04	160.39	386,023.12	716,057.22	32.060003	-103.769336
15,150.00	90.27	0.28	11,677.84	3,468.03	161.61	386,118.11	716,058.44	32.060264	-103.769331
15,245.00	90.13	359.92	11,677.50	3,563.03	161.78	386,213.10	716,058.61	32.060525	-103.769329
15,340.00	90.70	359.77	11,676.82	3,658.03	161.52	386,308.09	716,058.35	32.060786	-103.769328
15,433.00	90.44	359.35	11,675.89	3,751.02	160.81	386,401.08	716,057.63	32.061042	-103.769329
15,527.00	90.17	359.04	11,675.39	3,845.01	159.49	386,495.06	716,056.31	32.061300	-103.769331
15,622.00	89.53	358.66	11,675.64	3,939.99	157.58	386,590.04	716,054.41	32.061561	-103.769336
15,716.00	90.07	359.97	11,675.97	4,033.98	156.46	386,684.02	716,053.28	32.061819	-103.769338
15,810.00	90.81	0.34	11,675.24	4,127.98	156.71	386,778.01	716,053.54	32.062078	-103.769335
15,905.00	90.77	0.88	11,673.94	4,222.96	157.72	386,872.99	716,054.55	32.062339	-103.769331
15,999.00	89.40	1.18	11,673.80	4,316.94	159.41	386,966.97	716,056.24	32.062597	-103.769324
16,094.00	88.79	1.43	11,675.30	4,411.91	161.58	387,061.93	716,058.40	32.062858	-103.769315



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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
16,189.00	87.78	0.44	11,678.14	4,506.85	163.13	387,156.86	716,059.95	32.063119	-103.769308
16,283.00	89.26	359.46	11,680.57	4,600.81	163.04	387,250.82	716,059.87	32.063377	-103.769307
16,378.00	89.56	359.00	11,681.55	4,695.80	161.77	387,345.80	716,058.59	32.063638	-103.769310
16,472.00	89.56	359.02	11,682.27	4,789.78	160.14	387,439.78	716,056.97	32.063897	-103.769313
16,567.00	89.09	358.24	11,683.39	4,884.75	157.87	387,534.74	716,054.70	32.064158	-103.769319
16,662.00	88.89	357.14	11,685.06	4,979.65	154.04	387,629.64	716,050.87	32.064419	-103.769330
16,756.00	89.83	358.57	11,686.11	5,073.58	150.52	387,723.56	716,047.35	32.064677	-103.769339
16,849.00	90.20	0.20	11,686.09	5,166.57	149.53	387,816.55	716,046.35	32.064933	-103.769341
16,943.00	90.10	359.77	11,685.84	5,260.57	149.50	387,910.54	716,046.33	32.065191	-103.769340
17,038.00	89.66	359.33	11,686.04	5,355.57	148.76	388,005.53	716,045.58	32.065452	-103.769340
17,131.00	90.00	358.98	11,686.32	5,448.56	147.38	388,098.52	716,044.21	32.065708	-103.769343
17,226.00	90.10	359.00	11,686.23	5,543.54	145.71	388,193.50	716,042.54	32.065969	-103.769347
17,321.00	89.56	357.43	11,686.51	5,638.49	142.75	388,288.44	716,039.58	32.066230	-103.769355
17,416.00	90.87	359.20	11,686.16	5,733.44	139.96	388,383.39	716,036.79	32.066491	-103.769362
17,510.00	90.20	359.86	11,685.28	5,827.43	139.19	388,477.38	716,036.01	32.066749	-103.769363
17,604.00	90.24	359.89	11,684.92	5,921.43	138.98	388,571.37	716,035.81	32.067008	-103.769362
17,698.00	90.74	0.06	11,684.12	6,015.43	138.94	388,665.36	716,035.77	32.067266	-103.769361
17,793.00	89.33	0.77	11,684.06	6,110.42	139.63	388,760.35	716,036.46	32.067527	-103.769357
17,886.00	89.97	0.51	11,684.63	6,203.42	140.67	388,853.34	716,037.50	32.067783	-103.769352
17,980.00	88.05	1.09	11,686.25	6,297.39	141.98	388,947.30	716,038.81	32.068041	-103.769346
18,075.00	87.82	1.24	11,689.67	6,392.31	143.91	389,042.22	716,040.74	32.068302	-103.769339
18,169.00	87.18	0.78	11,693.77	6,486.20	145.57	389,136.11	716,042.39	32.068560	-103.769332
18,263.00	88.22	0.57	11,697.55	6,580.12	146.67	389,230.02	716,043.50	32.068818	-103.769326
18,356.00	88.86	0.95	11,699.91	6,673.08	147.90	389,322.97	716,044.73	32.069074	-103.769321
18,450.00	90.10	1.27	11,700.77	6,767.06	149.73	389,416.95	716,046.55	32.069332	-103.769313
18,545.00	90.47	1.72	11,700.30	6,862.02	152.20	389,511.91	716,049.03	32.069593	-103.769304
18,639.00	90.34	1.29	11,699.63	6,955.99	154.67	389,605.87	716,051.50	32.069851	-103.769294
18,734.00	91.64	1.01	11,697.99	7,050.95	156.58	389,700.83	716,053.41	32.070112	-103.769287
18,828.00	92.22	1.11	11,694.82	7,144.88	158.32	389,794.75	716,055.14	32.070370	-103.769279
18,922.00	92.18	0.82	11,691.22	7,238.80	159.90	389,888.66	716,056.73	32.070628	-103.769273
19,016.00	91.41	0.64	11,688.27	7,332.74	161.10	389,982.60	716,057.92	32.070887	-103.769267
19,111.00	92.38	1.73	11,685.13	7,427.67	163.06	390,077.52	716,059.89	32.071148	-103.769259
19,205.00	91.65	359.83	11,681.82	7,521.60	164.34	390,171.45	716,061.16	32.071406	-103.769254
19,300.00	91.78	359.77	11,678.98	7,616.55	164.01	390,266.40	716,060.83	32.071667	-103.769253
19,394.00	92.62	0.21	11,675.37	7,710.48	163.99	390,360.32	716,060.82	32.071925	-103.769252
19,488.00	90.77	0.29	11,672.59	7,804.44	164.40	390,454.27	716,061.23	32.072183	-103.769249
19,583.00	90.57	359.51	11,671.48	7,899.43	164.23	390,549.26	716,061.06	32.072444	-103.769248
19,677.00	87.85	358.63	11,672.78	7,993.40	162.71	390,643.22	716,059.54	32.072703	-103.769251
19,772.00	87.65	358.35	11,676.51	8,088.29	160.21	390,738.11	716,057.03	32.072963	-103.769257
19,867.00	87.21	358.27	11,680.77	8,183.16	157.41	390,832.97	716,054.24	32.073224	-103.769265
19,961.00	88.29	358.36	11,684.46	8,277.04	154.65	390,926.85	716,051.47	32.073482	-103.769272
20,056.00	88.69	358.41	11,686.96	8,371.97	151.97	391,021.77	716,048.80	32.073743	-103.769279
20,150.00	89.23	358.44	11,688.67	8,465.92	149.39	391,115.71	716,046.21	32.074002	-103.769286
20,245.00	88.46	359.06	11,690.58	8,560.88	147.31	391,210.67	716,044.14	32.074263	-103.769291
20,339.00	89.02	358.83	11,692.65	8,654.84	145.58	391,304.62	716,042.41	32.074521	-103.769295
20,433.00	88.79	358.43	11,694.44	8,748.79	143.34	391,398.57	716,040.17	32.074779	-103.769301
20,528.00	88.83	358.78	11,696.42	8,843.74	141.03	391,493.52	716,037.85	32.075040	-103.769307
20,622.00	90.30	359.41	11,697.13	8,937.73	139.54	391,587.49	716,036.37	32.075299	-103.769310
20,717.00	93.53	0.73	11,693.96	9,032.66	139.66	391,682.42	716,036.48	32.075559	-103.769308
20,811.00	94.13	2.15	11,687.68	9,126.42	142.01	391,776.17	716,038.84	32.075817	-103.769299
20,906.00	92.69	0.99	11,682.03	9,221.21	144.61	391,870.96	716,041.44	32.076078	-103.769289
21,000.00	91.08	359.89	11,678.94	9,315.15	145.33	391,964.90	716,042.16	32.076336	-103.769285
21,095.00	89.40	359.98	11,678.54	9,410.15	145.22	392,059.89	716,042.05	32.076597	-103.769283
21,189.00	89.53	359.51	11,679.42	9,504.14	144.80	392,153.88	716,041.63	32.076855	-103.769283
21,284.00	89.16	358.91	11,680.50	9,599.13	143.49	392,248.86	716,040.32	32.077116	-103.769286



Scientific Drilling, Intl

Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thoroughbred 10-3 Fed Com 712H
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 712H	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
21,378.00	89.93	359.02	11,681.25	9,693.11	141.80	392,342.83	716,038.63	32.077375	-103.769290
21,473.00	89.36	359.00	11,681.84	9,788.09	140.16	392,437.81	716,036.98	32.077636	-103.769293
21,568.00	89.40	358.68	11,682.86	9,883.06	138.23	392,532.78	716,035.06	32.077897	-103.769298
21,662.00	89.26	358.42	11,683.96	9,977.03	135.85	392,626.74	716,032.68	32.078155	-103.769304
21,733.00	89.06	357.73	11,685.00	10,047.98	133.47	392,697.69	716,030.30	32.078350	-103.769311
Last SVY									
21,793.00	89.06	357.73	11,685.99	10,107.92	131.09	392,757.63	716,027.92	32.078515	-103.769317
BHL: 335.4 FNL 1638.2 FWL - 32.078515° 103.769317° - 21793 MD 11685.99 TVD - Y-392757.63 X-716027.93									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,012.00	10,991.63	-184.41	175.49	11012 MD 34.5 FSL 1645.5 FWL
11,788.97	11,627.73	110.53	176.37	100 FSL 11788.97 MD
21,733.00	11,685.00	10,047.98	133.47	Last SVY
21,793.00	11,685.99	10,107.92	131.09	BHL: 335.4 FNL 1638.2 FWL
21,793.00	11,685.99	10,107.92	131.09	32.078515° 103.769317°
21,793.00	11,685.99	10,107.92	131.09	21793 MD 11685.99 TVD
21,793.00	11,685.99	10,107.92	131.09	Y-392757.63 X-716027.93

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.	30-015-46506
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	712H
9. OGRID Number	6137
10. Pool name or Wildcat PURPLE SAGE; WOLFCAMP (GAS)	

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>1470</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: 3243	

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 ☐		SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐	
OTHER: ☐		OTHER: Completion ☒	

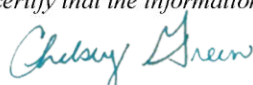
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

12/07/20-12/27/20: MIRU WL & PT. TIH w/pump through frac plug and guns. Perf, 11771'-21615', total 980 holes. Frac totals 30 bbls acid, 24683750# prop. ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 21726'. 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 6/7/2021
 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 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 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.		30-015-46506						
		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: 712H				
7. Type of Completion:										
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator						9. OGRID				
Devon Energy Production Company, L.P.						6137				
10. Address of Operator						11. Pool name or Wildcat				
333 West Sheridan Avenue, Oklahoma City, OK 73102						PURPLE SAGE; WOLFCAMP (GAS)				
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	1470	West	EDDY
BH:	C	3	26S	31E		337	North	1638	West	EDDY
13. Date Spudded	14. Date T.D. Reached		15. Date Rig Released		16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)		3243 GL	
5/4/20	6/25/20		7/9/20		3/22/21					
18. Total Measured Depth of Well			19. Plug Back Measured Depth		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run			
21793 MD, 11685 TVD			21726		Yes					
22. Producing Interval(s), of this completion - Top, Bottom, Name										
11771-21615, WOLFCAMP (GAS)										
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		1461		17.5		749		
8.625		32		11012		9.875		1070		
5.5		20		21778		7.875		3936		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD				
						SIZE		DEPTH SET		PACKER SET
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
11771 - 21615, total 980 holes						DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 11771-21615 Acidize and frac in 49 stages. 24683750 # PROP				
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
3/22/21		Flowing				Producing				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
4/15/21	24			818	3896	3540	4762.836186			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
psi	3026 psi									
29. Disposition of Gas (Sold, used for fuel, vented, etc.)							30. Test Witnessed By			
Sold										
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		Title		Regulatory Specialist		Date		
		Chelsey Green		Title		Regulatory Specialist		6/7/2021		
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.

[illegible]

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

From	To	Thickness In Feet	Lithology

District I

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

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

ACKNOWLEDGMENTS

Action 30766

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 30766
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 30766

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 30766
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	8/6/2021