

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 / 7/14/21
⁴ API Number 30-025-48098	⁵ Pool Name WC-025 G-09 S243310P; UPPER WOLFCAMP	⁶ Pool Code 98135
⁷ Property Code 30884	⁸ Property Name Thistle Unit	⁹ Well Number 180H

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
C	22	23S	33E		160	North	1320	West	Lea

¹¹ Bottom Hole Location

UL or lot no. M	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	34	23S	33E		35	South	390	West	Lea
¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 7/14/21	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

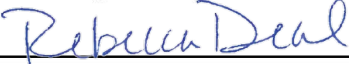
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
020809	Lucid Energy Group 3100 McKinnon St. Ste 800 Dallas, TX 75201	Gas
174238	Enterprise 201 Park Avenue, Ste 1600 Oklahoma City, OK 73102	Oil

IV. Well Completion Data

²¹ Spud Date 1/17/21	²² Ready Date 7/14/21	²³ TD 28,133'	²⁴ PBDT 28,063'	²⁵ Perforations 12829 - 28003	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	1472'	1120 sx CIC; Circ 61 sx		
9-7/8"	8-5/8"	12,047'	700 sx CIC; Circ 0		
			SQUEEZE - 200 sx CIC; Circ 0		
7-7/8"	6" & 5-1/2"	28,115'	2230 sx CIH; Circ 282 sx		

V. Well Test Data

			Tubing: 0		
³¹ Date New Oil 8/4/21	³² Gas Delivery Date 8/4/21	³³ Test Date 8/4/21	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure psi	³⁶ Csg. Pressure 842 psi
³⁷ Choke Size	³⁸ Oil 4020 bbl	³⁹ Water 4729 bbl	⁴⁰ Gas 7418 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: Rebecca Deal			Approved by: PATRICIA MARTINEZ		
Title: Regulatory Analyst			Title: PETROLEUM SPECIALIST		
E-mail Address: Rebecca.Deal@dmn.com			Approval Date: 8/30/2021		
Date: 8/17/2021		Phone: 405-228-8429			

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48098	² Pool Code 98135	³ Pool Name WC-025 G-09 S243310P; UPPER WOLFCAMP
⁴ Property Code 30884	⁵ Property Name THISTLE UNIT	⁶ Well Number 180H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3710.5

¹⁰ Surface Location

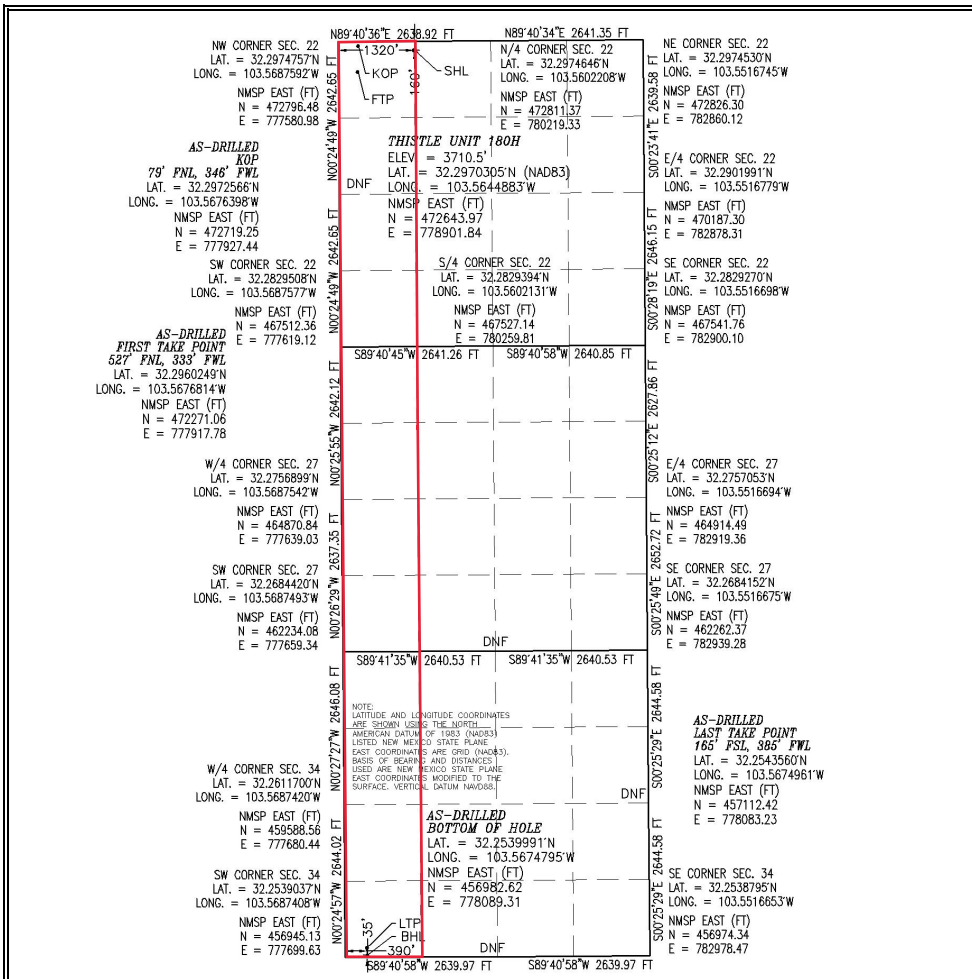
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	23 S	33 E		160	NORTH	1320	WEST	LEA

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
M	34	23 S	33 E		35	SOUTH	390	WEST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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.



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.

Rebecca Deal 8/11/2021
Signature Date

Rebecca Deal, Regulatory Analyst

Printed Name

rebecca.deal@dm.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.

AUGUST 6, 2021

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number: FILMONT, F. JARAMILLO, PLS 12797

SURVEY NO. 8628B

Intent ☐ As Drilled ☒

API # 30-025-48098		
Operator Name: DEVON ENERGY PRODUCTION CO., L.P.	Property Name: THISTLE UNIT	Well Number 180H

Kick Off Point (KOP)

UL D	Section 22	Township 23S	Range 33E	Lot	Feet 79	From N/S NORTH	Feet 346	From E/W WEST	County LEA
Latitude 32.2972566					Longitude 103.5676398				NAD 83

First Take Point (FTP)

UL D	Section 22	Township 23S	Range 33E	Lot	Feet 527	From N/S NORTH	Feet 333	From E/W WEST	County LEA
Latitude 32.2960249					Longitude 103.5676814				NAD 83

Last Take Point (LTP)

UL M	Section 34	Township 23S	Range 33E	Lot	Feet 165	From N/S SOUTH	Feet 385	From E/W WEST	County LEA
Latitude 32.2543560					Longitude 103.5674961				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 Energy

Lea County, NM (NAD83)
Sec 22-T23S-R33E (Thistle)
Thistle Unit 180H

OH

Design: OH

Survey Report - Geographic

14 May, 2021





Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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

Site		Sec 22-T23S-R33E (Thistle)			
Site Position:		Northing:	467,679.66 usft	Latitude:	32.283349
From:	Map	Easting:	780,748.91 usft	Longitude:	-103.558627
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Thistle Unit 180H					
Well Position	+N/-S	0.00 usft	Northing:	472,643.97 usft	Latitude:	32.297031
	+E/-W	0.00 usft	Easting:	778,901.84 usft	Longitude:	-103.564489
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,740.50 usft	Ground Level:	3,710.50 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/8/2020	6.58	60.08	47,622.25200781

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Survey Program	Date	5/14/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
169.00	1,398.00	Survey #1 (OH)	MWD	OWSG MWD - Standard	
1,530.00	28,076.00	Survey #2 - MWD (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard	
28,133.00	28,133.00	Survey #3 - Proj to TD (OH)	BLIND	OWSG BLIND	

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	472,643.97	778,901.84	32.297031	-103.564489	
SHL (Thistle Unit 180H)										
169.00	0.53	344.11	169.00	0.75	-0.21	472,644.72	778,901.62	32.297033	-103.564489	
263.00	0.70	352.81	262.99	1.74	-0.40	472,645.71	778,901.43	32.297035	-103.564490	
358.00	0.84	353.25	357.98	3.01	-0.56	472,646.98	778,901.28	32.297039	-103.564490	
452.00	1.01	355.45	451.97	4.52	-0.71	472,648.49	778,901.13	32.297043	-103.564491	
547.00	0.92	353.25	546.96	6.11	-0.86	472,650.08	778,900.98	32.297047	-103.564491	
737.00	0.88	7.49	736.93	9.07	-0.85	472,653.04	778,900.99	32.297056	-103.564491	
831.00	0.88	16.63	830.92	10.48	-0.55	472,654.45	778,901.29	32.297059	-103.564490	
1,020.00	1.01	15.66	1,019.90	13.47	0.31	472,657.44	778,902.15	32.297068	-103.564487	



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,114.00	0.92	22.17	1,113.88	14.97	0.82	472,658.94	778,902.66	32.297072	-103.564486
1,209.00	0.97	22.52	1,208.87	16.42	1.42	472,660.39	778,903.26	32.297076	-103.564484
1,303.00	0.97	27.35	1,302.86	17.86	2.09	472,661.83	778,903.93	32.297080	-103.564481
1,398.00	1.05	32.63	1,397.84	19.31	2.93	472,663.28	778,904.77	32.297084	-103.564479
1,530.00	0.66	49.68	1,529.83	20.82	4.16	472,664.79	778,906.00	32.297088	-103.564475
1,657.00	2.46	308.16	1,656.79	22.98	2.57	472,666.95	778,904.41	32.297094	-103.564480
1,753.00	3.43	298.76	1,752.66	25.63	-1.56	472,669.60	778,900.27	32.297101	-103.564493
1,848.00	4.53	295.59	1,847.43	28.62	-7.44	472,672.59	778,894.40	32.297109	-103.564512
1,943.00	5.67	294.19	1,942.05	32.16	-15.10	472,676.13	778,886.73	32.297119	-103.564537
2,039.00	6.90	286.37	2,037.48	35.73	-24.96	472,679.70	778,876.87	32.297129	-103.564568
2,134.00	8.35	285.93	2,131.63	39.23	-37.07	472,683.20	778,864.77	32.297139	-103.564608
2,229.00	9.23	279.33	2,225.52	42.36	-51.22	472,686.33	778,850.61	32.297148	-103.564653
2,324.00	9.41	276.79	2,319.27	44.51	-66.45	472,688.48	778,835.38	32.297154	-103.564703
2,420.00	9.54	274.68	2,413.96	46.09	-82.18	472,690.06	778,819.66	32.297159	-103.564753
2,515.00	9.98	273.01	2,507.58	47.17	-98.24	472,691.14	778,803.60	32.297162	-103.564805
2,610.00	10.20	271.42	2,601.11	47.81	-114.87	472,691.78	778,786.97	32.297164	-103.564859
2,705.00	9.67	271.07	2,694.69	48.16	-131.26	472,692.13	778,770.58	32.297166	-103.564912
2,800.00	9.80	270.54	2,788.32	48.39	-147.32	472,692.36	778,754.52	32.297167	-103.564964
2,896.00	10.29	270.19	2,882.85	48.49	-164.06	472,692.46	778,737.77	32.297167	-103.565018
2,991.00	9.41	271.95	2,976.45	48.79	-180.31	472,692.76	778,721.53	32.297168	-103.565071
3,086.00	9.23	271.86	3,070.19	49.30	-195.69	472,693.27	778,706.15	32.297170	-103.565121
3,181.00	9.54	274.41	3,163.92	50.15	-211.15	472,694.12	778,690.69	32.297173	-103.565171
3,277.00	9.54	274.94	3,258.59	51.45	-227.01	472,695.42	778,674.83	32.297176	-103.565222
3,372.00	9.45	275.82	3,352.29	52.92	-242.61	472,696.89	778,659.23	32.297181	-103.565272
3,468.00	9.27	278.28	3,447.01	54.83	-258.10	472,698.80	778,643.73	32.297186	-103.565323
3,563.00	9.27	280.39	3,540.77	57.31	-273.20	472,701.28	778,628.64	32.297194	-103.565371
3,658.00	9.19	281.71	3,634.54	60.23	-288.16	472,704.20	778,613.68	32.297202	-103.565420
3,754.00	9.05	282.76	3,729.33	63.45	-303.03	472,707.42	778,598.81	32.297211	-103.565468
3,848.00	8.75	284.17	3,822.20	66.84	-317.17	472,710.81	778,584.67	32.297221	-103.565513
3,944.00	8.57	275.73	3,917.11	69.34	-331.37	472,713.31	778,570.47	32.297228	-103.565559
4,039.00	8.84	272.04	4,011.01	70.31	-345.70	472,714.28	778,556.13	32.297231	-103.565606
4,134.00	8.66	269.84	4,104.91	70.55	-360.15	472,714.52	778,541.69	32.297232	-103.565652
4,229.00	9.80	272.65	4,198.68	70.90	-375.38	472,714.87	778,526.46	32.297233	-103.565702
4,325.00	9.45	272.39	4,293.33	71.61	-391.42	472,715.58	778,510.42	32.297235	-103.565754
4,420.00	8.31	271.34	4,387.19	72.09	-406.07	472,716.06	778,495.77	32.297237	-103.565801
4,515.00	7.12	274.85	4,481.32	72.75	-418.80	472,716.72	778,483.04	32.297239	-103.565842
4,611.00	8.70	277.75	4,576.41	74.23	-431.93	472,718.20	778,469.91	32.297243	-103.565885
4,706.00	10.64	280.13	4,670.06	76.74	-447.68	472,720.71	778,454.16	32.297250	-103.565935
4,801.00	8.75	275.20	4,763.70	78.94	-463.51	472,722.91	778,438.33	32.297257	-103.565987
4,897.00	8.57	275.99	4,858.60	80.35	-477.90	472,724.32	778,423.94	32.297261	-103.566033
4,993.00	9.45	276.17	4,953.42	81.94	-492.85	472,725.91	778,408.99	32.297266	-103.566082
5,088.00	11.08	277.49	5,046.89	83.97	-509.65	472,727.94	778,392.19	32.297271	-103.566136
5,184.00	12.57	278.19	5,140.85	86.66	-529.14	472,730.63	778,372.70	32.297279	-103.566199
5,279.00	12.31	277.49	5,233.62	89.45	-549.41	472,733.43	778,352.43	32.297287	-103.566264
5,375.00	12.04	275.99	5,327.46	91.83	-569.52	472,735.80	778,332.32	32.297294	-103.566329
5,471.00	12.48	273.53	5,421.27	93.52	-589.83	472,737.49	778,312.01	32.297299	-103.566395
5,566.00	12.31	272.74	5,514.06	94.63	-610.19	472,738.60	778,291.65	32.297303	-103.566461
5,662.00	13.05	270.02	5,607.72	95.13	-631.25	472,739.10	778,270.59	32.297305	-103.566529
5,758.00	12.00	275.91	5,701.44	96.16	-652.01	472,740.13	778,249.82	32.297308	-103.566596
5,852.00	11.16	273.27	5,793.52	97.68	-670.82	472,741.65	778,231.02	32.297312	-103.566657
5,948.00	9.93	273.36	5,887.90	98.70	-688.36	472,742.67	778,213.48	32.297315	-103.566714
6,043.00	9.49	273.36	5,981.54	99.64	-704.35	472,743.61	778,197.49	32.297318	-103.566766
6,138.00	8.66	272.04	6,075.35	100.35	-719.32	472,744.32	778,182.52	32.297321	-103.566814
6,234.00	8.66	272.74	6,170.25	100.95	-733.76	472,744.92	778,168.08	32.297323	-103.566861
6,330.00	9.58	273.88	6,265.04	101.84	-748.95	472,745.81	778,152.89	32.297325	-103.566910



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,425.00	9.45	274.32	6,358.73	102.96	-764.61	472,746.93	778,137.22	32.297329	-103.566961
6,520.00	9.36	273.45	6,452.46	104.01	-780.10	472,747.98	778,121.74	32.297332	-103.567011
6,616.00	9.49	272.57	6,547.16	104.84	-795.80	472,748.81	778,106.04	32.297334	-103.567061
6,711.00	9.85	271.95	6,640.81	105.47	-811.74	472,749.44	778,090.09	32.297336	-103.567113
6,807.00	9.89	271.16	6,735.39	105.91	-828.19	472,749.88	778,073.64	32.297338	-103.567166
6,902.00	9.76	268.88	6,829.00	105.92	-844.40	472,749.89	778,057.44	32.297338	-103.567219
6,997.00	9.71	273.53	6,922.63	106.26	-860.45	472,750.23	778,041.39	32.297340	-103.567271
7,092.00	9.41	273.80	7,016.31	107.26	-876.19	472,751.23	778,025.64	32.297343	-103.567322
7,188.00	9.14	272.04	7,111.06	108.06	-891.64	472,752.03	778,010.19	32.297345	-103.567371
7,283.00	8.97	272.04	7,204.87	108.59	-906.59	472,752.56	777,995.25	32.297347	-103.567420
7,379.00	9.01	271.60	7,299.69	109.06	-921.58	472,753.03	777,980.26	32.297349	-103.567468
7,475.00	8.66	270.37	7,394.55	109.32	-936.32	472,753.29	777,965.52	32.297350	-103.567516
7,570.00	8.13	269.67	7,488.53	109.33	-950.19	472,753.30	777,951.65	32.297350	-103.567561
7,666.00	7.91	268.88	7,583.60	109.16	-963.58	472,753.13	777,938.25	32.297350	-103.567604
7,761.00	5.93	274.15	7,677.90	109.39	-975.01	472,753.36	777,926.82	32.297350	-103.567641
7,857.00	4.00	289.88	7,773.54	110.89	-983.11	472,754.86	777,918.73	32.297355	-103.567667
7,952.00	2.68	302.98	7,868.38	113.22	-988.09	472,757.19	777,913.75	32.297361	-103.567683
8,048.00	2.51	305.00	7,964.28	115.65	-991.69	472,759.62	777,910.14	32.297368	-103.567695
8,143.00	1.27	345.52	8,059.23	117.86	-993.66	472,761.83	777,908.18	32.297374	-103.567701
8,238.00	0.97	0.63	8,154.21	119.68	-993.92	472,763.66	777,907.92	32.297379	-103.567702
8,333.00	0.70	8.46	8,249.20	121.06	-993.82	472,765.03	777,908.02	32.297383	-103.567702
8,429.00	0.40	5.46	8,345.20	121.98	-993.70	472,765.95	777,908.13	32.297385	-103.567701
8,524.00	0.13	28.41	8,440.20	122.40	-993.62	472,766.37	777,908.22	32.297387	-103.567701
8,619.00	0.13	284.43	8,535.19	122.52	-993.67	472,766.49	777,908.16	32.297387	-103.567701
8,715.00	0.18	269.40	8,631.19	122.55	-993.93	472,766.52	777,907.91	32.297387	-103.567702
8,810.00	0.22	245.58	8,726.19	122.47	-994.25	472,766.44	777,907.59	32.297387	-103.567703
8,906.00	0.53	268.26	8,822.19	122.38	-994.86	472,766.35	777,906.98	32.297387	-103.567705
9,001.00	0.66	285.31	8,917.19	122.51	-995.82	472,766.48	777,906.01	32.297387	-103.567708
9,097.00	0.62	273.36	9,013.18	122.69	-996.88	472,766.66	777,904.96	32.297387	-103.567712
9,192.00	0.79	298.41	9,108.17	123.03	-997.96	472,767.00	777,903.87	32.297388	-103.567715
9,288.00	0.40	292.78	9,204.17	123.48	-998.86	472,767.45	777,902.98	32.297390	-103.567718
9,383.00	0.70	284.52	9,299.16	123.75	-999.72	472,767.72	777,902.11	32.297390	-103.567721
9,479.00	0.88	244.09	9,395.16	123.57	-1,000.95	472,767.54	777,900.88	32.297390	-103.567725
9,574.00	0.88	279.86	9,490.15	123.38	-1,002.33	472,767.35	777,899.51	32.297389	-103.567729
9,670.00	1.05	293.40	9,586.13	123.86	-1,003.86	472,767.83	777,897.97	32.297391	-103.567734
9,765.00	0.70	272.21	9,681.12	124.22	-1,005.24	472,768.19	777,896.60	32.297392	-103.567739
9,861.00	0.53	226.07	9,777.12	123.94	-1,006.15	472,767.91	777,895.69	32.297391	-103.567742
9,956.00	0.79	166.48	9,872.11	123.00	-1,006.31	472,766.97	777,895.53	32.297388	-103.567742
10,051.00	0.75	149.17	9,967.10	121.83	-1,005.84	472,765.80	777,896.00	32.297385	-103.567741
10,147.00	0.75	106.63	10,063.09	121.11	-1,004.91	472,765.08	777,896.92	32.297383	-103.567738
10,242.00	1.49	115.33	10,158.08	120.40	-1,003.20	472,764.37	777,898.64	32.297381	-103.567732
10,337.00	1.93	114.54	10,253.03	119.21	-1,000.63	472,763.18	777,901.21	32.297378	-103.567724
10,433.00	1.45	113.92	10,348.99	118.04	-998.05	472,762.01	777,903.79	32.297375	-103.567716
10,528.00	1.01	123.59	10,443.97	117.09	-996.25	472,761.06	777,905.58	32.297372	-103.567710
10,624.00	0.75	138.80	10,539.96	116.15	-995.14	472,760.12	777,906.70	32.297369	-103.567706
10,719.00	0.35	123.96	10,634.95	115.52	-994.48	472,759.49	777,907.35	32.297368	-103.567704
10,815.00	1.10	124.38	10,730.94	114.84	-993.48	472,758.81	777,908.36	32.297366	-103.567701
10,910.00	2.42	122.01	10,825.90	113.26	-991.03	472,757.23	777,910.81	32.297361	-103.567693
11,006.00	2.59	123.59	10,921.81	110.99	-987.50	472,754.96	777,914.34	32.297355	-103.567682
11,101.00	1.85	124.91	11,016.73	108.92	-984.46	472,752.89	777,917.38	32.297349	-103.567672
11,197.00	2.15	140.73	11,112.68	106.64	-982.05	472,750.61	777,919.79	32.297343	-103.567664
11,292.00	2.55	149.61	11,207.60	103.44	-979.85	472,747.41	777,921.99	32.297334	-103.567657
11,388.00	2.55	147.32	11,303.50	99.80	-977.62	472,743.77	777,924.22	32.297324	-103.567650
11,483.00	2.37	145.92	11,398.41	96.39	-975.37	472,740.36	777,926.46	32.297315	-103.567643
11,579.00	2.07	151.54	11,494.34	93.22	-973.44	472,737.19	777,928.40	32.297306	-103.567637



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,674.00	1.89	161.03	11,589.29	90.23	-972.11	472,734.20	777,929.73	32.297298	-103.567632
11,769.00	1.85	176.15	11,684.24	87.22	-971.50	472,731.19	777,930.34	32.297289	-103.567630
11,864.00	2.24	187.75	11,779.18	83.85	-971.64	472,727.82	777,930.19	32.297280	-103.567631
11,960.00	2.77	202.08	11,875.08	79.84	-972.77	472,723.81	777,929.07	32.297269	-103.567635
12,002.00	2.99	199.35	11,917.03	77.87	-973.51	472,721.84	777,928.32	32.297264	-103.567637
12,066.00	2.73	207.35	11,980.95	74.94	-974.77	472,718.91	777,927.07	32.297256	-103.567641
12,117.00	5.70	184.26	12,031.81	71.34	-975.51	472,715.31	777,926.32	32.297246	-103.567644
KOP									
12,162.00	8.57	177.91	12,076.46	65.75	-975.56	472,709.72	777,926.28	32.297231	-103.567644
12,256.00	20.97	182.74	12,167.18	41.86	-976.11	472,685.83	777,925.73	32.297165	-103.567646
12,352.00	28.48	185.03	12,254.32	1.84	-978.94	472,645.81	777,922.90	32.297055	-103.567656
12,448.00	39.08	183.01	12,334.00	-51.33	-982.55	472,592.64	777,919.29	32.296909	-103.567669
12,543.00	49.45	179.75	12,401.95	-117.51	-983.96	472,526.46	777,917.87	32.296727	-103.567675
12,638.00	59.56	179.67	12,457.03	-194.76	-983.57	472,449.21	777,918.27	32.296515	-103.567676
12,734.00	69.01	180.02	12,498.64	-281.15	-983.35	472,362.82	777,918.49	32.296277	-103.567677
12,811.85	79.92	180.89	12,519.46	-356.04	-983.96	472,287.93	777,917.88	32.296071	-103.567681
LP (Thistle Unit 180H)									
12,829.00	82.33	181.07	12,522.10	-372.98	-984.25	472,270.99	777,917.59	32.296025	-103.567682
LP									
12,925.00	88.09	180.28	12,530.12	-468.60	-985.37	472,175.37	777,916.47	32.295762	-103.567688
13,020.00	88.13	180.02	12,533.25	-563.55	-985.62	472,080.42	777,916.22	32.295501	-103.567691
13,116.00	90.86	181.16	12,534.09	-659.53	-986.61	471,984.44	777,915.23	32.295237	-103.567697
13,210.00	88.26	180.81	12,534.82	-753.50	-988.22	471,890.47	777,913.62	32.294979	-103.567704
13,306.00	88.09	179.93	12,537.87	-849.45	-988.84	471,794.52	777,913.00	32.294715	-103.567708
13,401.00	86.99	179.23	12,541.95	-944.36	-988.15	471,699.61	777,913.69	32.294454	-103.567708
13,496.00	86.95	179.40	12,546.97	-1,039.22	-987.01	471,604.75	777,914.83	32.294194	-103.567707
13,591.00	89.58	179.14	12,549.85	-1,134.16	-985.80	471,509.81	777,916.03	32.293933	-103.567705
13,686.00	89.93	179.14	12,550.26	-1,229.15	-984.38	471,414.82	777,917.46	32.293671	-103.567702
13,781.00	90.99	181.42	12,549.49	-1,324.14	-984.84	471,319.83	777,917.00	32.293410	-103.567706
13,877.00	91.65	180.63	12,547.28	-1,420.10	-986.56	471,223.87	777,915.28	32.293147	-103.567714
13,972.00	89.45	178.44	12,546.37	-1,515.08	-985.79	471,128.89	777,916.05	32.292886	-103.567714
14,067.00	88.35	177.29	12,548.19	-1,609.99	-982.25	471,033.98	777,919.59	32.292625	-103.567704
14,163.00	92.26	179.31	12,547.68	-1,705.92	-979.40	470,938.05	777,922.44	32.292361	-103.567697
14,258.00	92.57	180.19	12,543.68	-1,800.84	-978.99	470,843.13	777,922.85	32.292100	-103.567698
14,354.00	91.60	179.05	12,540.19	-1,896.77	-978.35	470,747.20	777,923.49	32.291836	-103.567698
14,449.00	88.66	178.70	12,539.97	-1,991.74	-976.48	470,652.23	777,925.35	32.291575	-103.567695
14,545.00	88.92	177.73	12,542.00	-2,087.67	-973.50	470,556.30	777,928.34	32.291312	-103.567687
14,591.00	88.53	177.38	12,543.02	-2,133.62	-971.53	470,510.35	777,930.30	32.291185	-103.567682
14,687.00	88.88	178.61	12,545.19	-2,229.53	-968.18	470,414.44	777,933.66	32.290922	-103.567673
14,782.00	87.52	178.26	12,548.17	-2,324.45	-965.58	470,319.52	777,936.25	32.290661	-103.567667
14,878.00	88.79	177.73	12,551.27	-2,420.34	-962.23	470,223.63	777,939.61	32.290397	-103.567658
14,973.00	89.32	179.84	12,552.83	-2,515.30	-960.21	470,128.67	777,941.63	32.290136	-103.567654
15,068.00	89.58	180.02	12,553.74	-2,610.29	-960.10	470,033.68	777,941.74	32.289875	-103.567656
15,164.00	92.13	179.67	12,552.31	-2,706.27	-959.84	469,937.70	777,942.00	32.289611	-103.567657
15,259.00	90.95	179.58	12,549.76	-2,801.23	-959.21	469,842.74	777,942.62	32.289350	-103.567657
15,355.00	91.52	179.84	12,547.69	-2,897.21	-958.73	469,746.76	777,943.11	32.289086	-103.567658
15,450.00	89.85	180.02	12,546.55	-2,992.20	-958.61	469,651.77	777,943.22	32.288825	-103.567660
15,545.00	90.02	180.46	12,546.66	-3,087.20	-959.01	469,556.77	777,942.83	32.288564	-103.567663
15,641.00	87.82	180.98	12,548.47	-3,183.17	-960.22	469,460.80	777,941.62	32.288300	-103.567669
15,736.00	86.77	179.75	12,552.95	-3,278.06	-960.82	469,365.91	777,941.02	32.288039	-103.567674
15,832.00	84.92	180.02	12,559.91	-3,373.80	-960.63	469,270.17	777,941.21	32.287776	-103.567675
15,928.00	87.82	179.31	12,565.99	-3,469.60	-960.07	469,174.38	777,941.77	32.287513	-103.567676
16,023.00	88.53	178.96	12,569.01	-3,564.54	-958.63	469,079.44	777,943.20	32.287252	-103.567673
16,119.00	89.10	180.19	12,571.00	-3,660.51	-957.92	468,983.46	777,943.91	32.286988	-103.567673
16,214.00	90.29	179.49	12,571.50	-3,755.51	-957.66	468,888.46	777,944.18	32.286727	-103.567674



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,310.00	90.90	179.49	12,570.51	-3,851.50	-956.80	468,792.47	777,945.03	32.286463	-103.567674
16,405.00	90.46	180.37	12,569.38	-3,946.49	-956.69	468,697.48	777,945.15	32.286202	-103.567676
16,500.00	89.45	180.81	12,569.45	-4,041.48	-957.67	468,602.49	777,944.17	32.285941	-103.567681
16,596.00	89.10	180.63	12,570.67	-4,137.47	-958.87	468,506.50	777,942.97	32.285677	-103.567687
16,691.00	89.76	180.72	12,571.61	-4,232.45	-959.99	468,411.52	777,941.85	32.285416	-103.567693
16,787.00	90.55	180.81	12,571.35	-4,328.45	-961.27	468,315.53	777,940.57	32.285152	-103.567699
16,882.00	87.96	181.51	12,572.59	-4,423.41	-963.19	468,220.56	777,938.64	32.284891	-103.567708
16,977.00	89.10	181.51	12,575.03	-4,518.34	-965.70	468,125.63	777,936.14	32.284630	-103.567718
17,072.00	86.46	180.28	12,578.71	-4,613.25	-967.18	468,030.72	777,934.66	32.284370	-103.567725
17,168.00	86.33	180.54	12,584.74	-4,709.06	-967.87	467,934.91	777,933.97	32.284106	-103.567729
17,263.00	85.85	180.37	12,591.22	-4,803.83	-968.62	467,840.14	777,933.22	32.283846	-103.567734
17,358.00	85.27	179.84	12,598.58	-4,898.55	-968.79	467,745.42	777,933.04	32.283585	-103.567737
17,454.00	86.24	179.31	12,605.68	-4,994.28	-968.08	467,649.69	777,933.75	32.283322	-103.567737
17,549.00	85.80	176.68	12,612.28	-5,088.98	-964.77	467,554.99	777,937.07	32.283062	-103.567728
17,589.99	87.02	177.06	12,614.84	-5,129.83	-962.53	467,514.14	777,939.30	32.282950	-103.567722
S22/27 Crossing									
17,644.00	88.62	177.56	12,616.90	-5,183.74	-960.00	467,460.23	777,941.84	32.282801	-103.567715
17,740.00	88.75	177.73	12,619.10	-5,279.63	-956.06	467,364.34	777,945.78	32.282538	-103.567704
17,836.00	88.66	177.91	12,621.27	-5,375.54	-952.41	467,268.43	777,949.43	32.282274	-103.567695
17,931.00	89.63	178.79	12,622.69	-5,470.49	-949.67	467,173.48	777,952.17	32.282013	-103.567688
18,026.00	89.93	180.02	12,623.06	-5,565.48	-948.69	467,078.49	777,953.15	32.281752	-103.567687
18,122.00	88.79	179.49	12,624.13	-5,661.47	-948.28	466,982.50	777,953.56	32.281488	-103.567688
18,217.00	89.27	179.75	12,625.74	-5,756.46	-947.65	466,887.51	777,954.19	32.281227	-103.567688
18,310.51	90.39	180.35	12,626.01	-5,849.96	-947.73	466,794.01	777,954.11	32.280970	-103.567691
5850' VS TGT (Thistle Unit 180H)									
18,313.00	90.42	180.37	12,626.00	-5,852.45	-947.75	466,791.52	777,954.09	32.280963	-103.567691
18,409.00	91.12	180.98	12,624.71	-5,948.44	-948.88	466,695.53	777,952.96	32.280699	-103.567697
18,504.00	89.98	181.60	12,623.79	-6,043.41	-951.02	466,600.56	777,950.82	32.280438	-103.567706
18,600.00	90.37	181.86	12,623.50	-6,139.36	-953.91	466,504.61	777,947.92	32.280175	-103.567717
18,695.00	90.64	181.25	12,622.66	-6,234.32	-956.49	466,409.65	777,945.35	32.279914	-103.567728
18,791.00	87.34	179.93	12,624.35	-6,330.29	-957.48	466,313.68	777,944.36	32.279650	-103.567733
18,886.00	87.03	179.84	12,629.02	-6,425.17	-957.29	466,218.80	777,944.55	32.279389	-103.567735
18,982.00	87.47	178.88	12,633.63	-6,521.05	-956.22	466,122.92	777,945.62	32.279125	-103.567734
19,077.00	89.05	177.91	12,636.51	-6,615.97	-953.56	466,028.00	777,948.28	32.278865	-103.567727
19,172.00	89.89	177.21	12,637.39	-6,710.88	-949.51	465,933.09	777,952.32	32.278604	-103.567716
19,268.00	90.11	178.96	12,637.39	-6,806.82	-946.31	465,837.15	777,955.53	32.278340	-103.567708
19,363.00	89.19	179.40	12,637.97	-6,901.81	-944.95	465,742.16	777,956.89	32.278079	-103.567706
19,458.00	88.48	178.26	12,639.90	-6,996.77	-943.01	465,647.20	777,958.83	32.277818	-103.567702
19,554.00	89.54	180.46	12,641.56	-7,092.74	-941.94	465,551.23	777,959.90	32.277554	-103.567701
19,649.00	89.27	180.46	12,642.55	-7,187.73	-942.70	465,456.24	777,959.14	32.277293	-103.567705
19,744.00	89.54	180.81	12,643.53	-7,282.72	-943.75	465,361.25	777,958.09	32.277032	-103.567711
19,839.00	90.33	179.93	12,643.64	-7,377.72	-944.36	465,266.26	777,957.47	32.276771	-103.567715
19,935.00	91.78	179.49	12,641.87	-7,473.70	-943.88	465,170.28	777,957.96	32.276507	-103.567716
20,030.00	92.04	179.58	12,638.71	-7,568.64	-943.11	465,075.33	777,958.73	32.276246	-103.567715
20,126.00	92.35	179.67	12,635.03	-7,664.57	-942.48	464,979.40	777,959.36	32.275982	-103.567716
20,221.00	90.59	179.84	12,632.59	-7,759.53	-942.07	464,884.44	777,959.76	32.275721	-103.567716
20,317.00	90.73	178.35	12,631.49	-7,855.51	-940.56	464,788.46	777,961.28	32.275457	-103.567714
20,412.00	91.96	179.49	12,629.26	-7,950.46	-938.77	464,693.51	777,963.07	32.275196	-103.567710
20,507.00	92.66	179.67	12,625.43	-8,045.38	-938.07	464,598.59	777,963.77	32.274935	-103.567710
20,603.00	92.48	180.28	12,621.12	-8,141.29	-938.03	464,502.68	777,963.81	32.274672	-103.567712
20,698.00	91.74	180.90	12,617.63	-8,236.22	-939.01	464,407.76	777,962.83	32.274411	-103.567718
20,794.00	91.78	179.14	12,614.68	-8,332.17	-939.04	464,311.80	777,962.80	32.274147	-103.567720
20,889.00	91.82	178.96	12,611.69	-8,427.11	-937.47	464,216.86	777,964.37	32.273886	-103.567717
20,984.00	87.82	175.54	12,611.99	-8,521.96	-932.91	464,122.01	777,968.93	32.273625	-103.567704
21,079.00	89.58	174.92	12,614.15	-8,616.61	-925.01	464,027.37	777,976.82	32.273365	-103.567681



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,175.00	88.18	176.77	12,616.02	-8,712.33	-918.06	463,931.64	777,983.78	32.273102	-103.567661
21,270.00	92.97	178.61	12,615.07	-8,807.21	-914.23	463,836.76	777,987.61	32.272841	-103.567651
21,365.00	93.89	178.96	12,609.39	-8,902.02	-912.22	463,741.95	777,989.62	32.272580	-103.567646
21,461.00	93.89	179.31	12,602.87	-8,997.79	-910.77	463,646.18	777,991.06	32.272317	-103.567644
21,556.00	92.79	180.46	12,597.34	-9,092.62	-910.58	463,551.35	777,991.25	32.272056	-103.567645
21,652.00	88.88	180.19	12,595.94	-9,188.59	-911.13	463,455.38	777,990.71	32.271792	-103.567649
21,747.00	88.97	180.02	12,597.72	-9,283.58	-911.30	463,360.39	777,990.53	32.271531	-103.567652
21,842.00	89.80	179.58	12,598.74	-9,378.57	-910.97	463,265.40	777,990.87	32.271270	-103.567653
21,938.00	90.42	178.52	12,598.56	-9,474.56	-909.38	463,169.42	777,992.46	32.271006	-103.567650
22,033.00	89.98	177.21	12,598.23	-9,569.49	-905.84	463,074.48	777,996.00	32.270745	-103.567641
22,129.00	89.45	177.12	12,598.70	-9,665.37	-901.09	462,978.60	778,000.74	32.270482	-103.567628
22,224.00	89.58	176.41	12,599.51	-9,760.21	-895.73	462,883.76	778,006.11	32.270221	-103.567613
22,319.00	90.20	178.70	12,599.69	-9,855.12	-891.68	462,788.85	778,010.16	32.269960	-103.567602
22,415.00	90.07	178.00	12,599.46	-9,951.08	-888.92	462,692.89	778,012.92	32.269696	-103.567595
22,511.00	89.67	178.96	12,599.68	-10,047.04	-886.37	462,596.93	778,015.47	32.269432	-103.567589
22,606.00	90.81	181.07	12,599.28	-10,142.03	-886.39	462,501.94	778,015.44	32.269171	-103.567591
22,702.00	89.27	179.23	12,599.22	-10,238.03	-886.64	462,405.94	778,015.19	32.268907	-103.567594
22,797.00	91.30	179.49	12,598.74	-10,333.02	-885.58	462,310.96	778,016.25	32.268646	-103.567593
22,871.99	91.88	179.69	12,596.67	-10,407.97	-885.05	462,236.00	778,016.79	32.268440	-103.567593
S27/34 Crossing									
22,893.00	92.04	179.75	12,595.95	-10,428.97	-884.95	462,215.00	778,016.89	32.268383	-103.567593
22,988.00	90.73	181.78	12,593.65	-10,523.93	-886.22	462,120.04	778,015.62	32.268122	-103.567600
23,084.00	91.08	181.86	12,592.13	-10,619.87	-889.26	462,024.10	778,012.57	32.267858	-103.567612
23,177.00	90.73	183.01	12,590.67	-10,712.77	-893.22	461,931.20	778,008.62	32.267603	-103.567627
23,272.00	89.36	182.65	12,590.59	-10,807.65	-897.91	461,836.32	778,003.93	32.267342	-103.567644
23,368.00	87.82	184.85	12,592.95	-10,903.41	-904.18	461,740.56	777,997.66	32.267079	-103.567666
23,463.00	86.95	183.80	12,597.29	-10,998.04	-911.34	461,645.93	777,990.50	32.266819	-103.567692
23,559.00	86.86	180.46	12,602.47	-11,093.82	-914.90	461,550.15	777,986.94	32.266556	-103.567705
23,654.00	87.12	180.63	12,607.46	-11,188.68	-915.80	461,455.29	777,986.03	32.266295	-103.567711
23,749.00	88.84	180.90	12,610.81	-11,283.61	-917.07	461,360.36	777,984.77	32.266034	-103.567717
23,845.00	88.84	180.46	12,612.75	-11,379.58	-918.21	461,264.39	777,983.63	32.265770	-103.567723
23,940.00	90.20	180.19	12,613.55	-11,474.58	-918.75	461,169.39	777,983.09	32.265509	-103.567727
24,035.00	91.21	179.93	12,612.38	-11,569.57	-918.85	461,074.40	777,982.99	32.265248	-103.567729
24,131.00	90.55	178.79	12,610.91	-11,665.55	-917.78	460,978.42	777,984.06	32.264984	-103.567728
24,226.00	91.16	178.52	12,609.49	-11,760.51	-915.55	460,883.46	777,986.29	32.264723	-103.567723
24,322.00	91.08	178.61	12,607.61	-11,856.46	-913.14	460,787.51	777,988.70	32.264459	-103.567717
24,417.00	89.41	176.85	12,607.21	-11,951.38	-909.38	460,692.59	777,992.46	32.264199	-103.567707
24,512.00	90.59	175.62	12,607.21	-12,046.17	-903.14	460,597.80	777,998.70	32.263938	-103.567689
24,607.00	90.51	175.36	12,606.29	-12,140.87	-895.67	460,503.10	778,006.17	32.263677	-103.567667
24,703.00	91.87	179.84	12,604.30	-12,236.74	-891.65	460,407.23	778,010.18	32.263414	-103.567657
24,798.00	92.26	179.49	12,600.88	-12,331.68	-891.10	460,312.29	778,010.74	32.263153	-103.567657
24,894.00	92.18	179.05	12,597.16	-12,427.60	-889.88	460,216.37	778,011.96	32.262889	-103.567655
24,990.00	92.22	178.79	12,593.47	-12,523.51	-888.07	460,120.46	778,013.77	32.262626	-103.567652
25,085.00	92.18	178.17	12,589.82	-12,618.41	-885.55	460,025.56	778,016.29	32.262365	-103.567646
25,181.00	91.25	178.35	12,586.95	-12,714.32	-882.64	459,929.65	778,019.20	32.262101	-103.567639
25,276.00	90.55	178.79	12,585.46	-12,809.28	-880.27	459,834.69	778,021.57	32.261840	-103.567633
25,371.00	90.15	178.96	12,584.88	-12,904.26	-878.40	459,739.71	778,023.44	32.261579	-103.567629
25,467.00	88.88	179.67	12,585.69	-13,000.24	-877.25	459,643.73	778,024.58	32.261315	-103.567628
25,562.00	88.66	179.40	12,587.73	-13,095.22	-876.48	459,548.75	778,025.36	32.261054	-103.567627
25,658.00	88.44	178.26	12,590.16	-13,191.17	-874.52	459,452.81	778,027.32	32.260790	-103.567623
25,754.00	88.66	179.31	12,592.59	-13,287.11	-872.49	459,356.86	778,029.35	32.260526	-103.567619
25,849.00	87.82	178.79	12,595.51	-13,382.05	-870.91	459,261.92	778,030.92	32.260265	-103.567616
25,944.00	88.09	179.40	12,598.90	-13,476.98	-869.41	459,166.99	778,032.42	32.260004	-103.567613
26,040.00	89.67	179.05	12,600.77	-13,572.95	-868.12	459,071.02	778,033.72	32.259741	-103.567611
26,135.00	90.24	179.75	12,600.85	-13,667.94	-867.12	458,976.03	778,034.72	32.259479	-103.567610



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
26,231.00	90.20	179.75	12,600.48	-13,763.94	-866.70	458,880.03	778,035.14	32.259216	-103.567611
26,326.00	89.01	179.31	12,601.13	-13,858.93	-865.92	458,785.04	778,035.91	32.258954	-103.567611
26,422.00	90.68	180.19	12,601.39	-13,954.93	-865.50	458,689.04	778,036.33	32.258691	-103.567612
26,517.00	90.81	179.84	12,600.16	-14,049.92	-865.53	458,594.05	778,036.31	32.258430	-103.567614
26,613.00	91.16	179.93	12,598.51	-14,145.91	-865.34	458,498.06	778,036.50	32.258166	-103.567616
26,708.00	90.86	179.31	12,596.83	-14,240.89	-864.71	458,403.08	778,037.13	32.257905	-103.567616
26,803.00	90.77	179.49	12,595.48	-14,335.87	-863.71	458,308.10	778,038.13	32.257643	-103.567615
26,899.00	90.33	179.23	12,594.56	-14,431.86	-862.64	458,212.11	778,039.20	32.257380	-103.567613
26,994.00	89.23	178.52	12,594.93	-14,526.84	-860.77	458,117.13	778,041.06	32.257119	-103.567610
27,090.00	90.29	178.17	12,595.33	-14,622.80	-858.00	458,021.17	778,043.84	32.256855	-103.567603
27,185.00	90.02	177.64	12,595.07	-14,717.74	-854.53	457,926.24	778,047.31	32.256594	-103.567594
27,281.00	89.19	178.35	12,595.73	-14,813.67	-851.17	457,830.30	778,050.67	32.256330	-103.567585
27,376.00	88.44	177.82	12,597.70	-14,908.60	-848.00	457,735.37	778,053.84	32.256069	-103.567577
27,472.00	89.10	177.64	12,599.76	-15,004.50	-844.19	457,639.47	778,057.64	32.255805	-103.567567
27,567.00	88.48	177.56	12,601.76	-15,099.40	-840.22	457,544.58	778,061.62	32.255544	-103.567556
27,663.00	88.40	177.29	12,604.38	-15,195.26	-835.91	457,448.71	778,065.93	32.255281	-103.567545
27,758.00	87.52	177.03	12,607.76	-15,290.08	-831.20	457,353.89	778,070.64	32.255020	-103.567532
27,853.00	87.08	177.12	12,612.23	-15,384.86	-826.36	457,259.12	778,075.48	32.254759	-103.567518
27,948.00	88.09	176.94	12,616.24	-15,479.64	-821.44	457,164.33	778,080.40	32.254499	-103.567504
28,044.00	89.41	177.43	12,618.33	-15,575.50	-816.73	457,068.47	778,085.11	32.254235	-103.567491
28,076.00	89.01	177.38	12,618.77	-15,607.47	-815.28	457,036.51	778,086.56	32.254147	-103.567487
28,133.00	89.01	177.38	12,619.76	-15,664.40	-812.67	456,979.57	778,089.16	32.253991	-103.567480
BHL - PBHL (Thistle Unit 180H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP (Thistle Unit 180H)	0.00	0.00	12,526.00	-354.29	-987.47	472,289.68	777,914.37	32.296076	-103.567692
- hit/miss target									
- Shape									
- actual wellpath misses target center by 7.63usft at 12811.84usft MD (12519.46 TVD, -356.04 N, -983.96 E)									
- Point									
PBHL (Thistle Unit 180H)	0.00	0.00	12,605.00	-15,677.02	-872.40	456,966.95	778,029.44	32.253957	-103.567674
- actual wellpath misses target center by 62.80usft at 28133.00usft MD (12619.76 TVD, -15664.40 N, -812.67 E)									
- Point									
5850' VS TGT (Thistle U)	0.00	0.00	12,613.50	-5,850.00	-946.00	466,793.97	777,955.84	32.280970	-103.567685
- actual wellpath misses target center by 12.63usft at 18310.62usft MD (12626.01 TVD, -5850.08 N, -947.73 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
12,117.00	12,031.81	71.34	-975.51	KOP	
12,829.00	12,522.10	-372.98	-984.25	LP	
17,589.99	12,614.84	-5,129.83	-962.53	S22/27 Crossing	
22,871.99	12,596.67	-10,407.97	-885.05	S27/34 Crossing	
28,133.00	12,619.76	-15,664.40	-812.67	BHL	

**Total Directional Services**
Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 180H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.5'+30' @ 3740.50usft
Well:	Thistle Unit 180H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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.	30-025-48098
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	Thistle Unit
8. Well Number	180H
9. OGRID Number	6137
10. Pool name or Wildcat	WC-025 G-09 S243310P; UPPER WOLFCAMP

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>C</u> : <u>160</u> feet from the <u>North</u> line and <u>1320</u> feet from the <u>West</u> line Section <u>22</u> Township <u>23S</u> Range <u>33E</u> NMPM County <u>Lea</u> 11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL: 3643.3'	
---	--

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.

5/18/21-7/14/21: MIRU WL & PT. TIH & ran CBL, found ETOC @ 709'. TIH w/pump through frac plug and guns.
 Perf Wolfcamp, 12,829'-28,003'. Frac totals 37,887,705# proppant, 55 bbl acid.
 ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 28,063'. CHC, FWB, ND BOP. Tubing to be ran at later date. TOP.

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

SIGNATURE Rebecca Deal TITLE Regulatory Analyst DATE 8/17/2021

Type or print name Rebecca Deal E-mail address: Rebecca.Deal@dmn.com PHONE: 405-228-8429
For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Engineer DATE 8/30/2021
 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. 30-025-48098								
		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 Thistle Unit 6. Well Number: 180H				
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 WC-025 G-09 S243310P; UPPER WOLFCA				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	22	23S	33E		160	North	1320	West	Lea
BH:	M	34	23S	33E		35	South	390	West	Lea
13. Date Spudded 1/17/21	14. Date T.D. Reached 5/11/21	15. Date Rig Released 5/15/21		16. Date Completed (Ready to Produce) 7/14/21		17. Elevations (DF and RKB, RT, GR, etc.) 3643.3' GL				
18. Total Measured Depth of Well 28,133' MD, 12,620' TVD			19. Plug Back Measured Depth 28,063'		20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run CBL			
22. Producing Interval(s), of this completion - Top, Bottom, Name 12829-28003, UPPER WOLFCA										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8"		54.5		1472'		17-1/2"		1120 sx C/C; circ 61 sx		
8-5/8"		32		12,047'		9-7/8"		700 sx C/C; circ 0		TOC @ 1300'
								SQUEEZE - 200 sx C/C; circ 0		
6" & 5-1/2"		24.5 & 20		28,115'		7-7/8"		2230 sx C/H; circ 282 sx		TOC @ 6911'
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 12829 - 28003, total 2254 holes					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 12829-28003 Acidize and frac in 76 stages. See detailed summary attached.					
28. PRODUCTION										
Date First Production 7/14/21		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 8/4/21	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 4020	Gas - MCF 7418	Water - Bbl. 4729	Gas - Oil Ratio 1845			
Flow Tubing Press. psi	Casing Pressure 842 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, Logs										
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	Rebecca Deal	Title	Regulatory Analyst	Date	8/17/2021	
E-mail Address	Rebecca.Deal@dmr.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

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 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 42408

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 42408
	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.

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 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

CONDITIONS

Action 42408

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 42408
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	SUBMIT LOGS.	8/30/2021