

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 30-025-48097	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 182H

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	1380	West	Lea

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
N	34	23S	33E		39	South	2247	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				

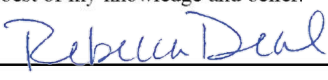
III. Oil and Gas Transporters

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 1/19/21	²² Ready Date 7/14/21	²³ TD 27,956'	²⁴ PBDT 27,893'	²⁵ Perforations 12700 - 27832	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	1484'	1264 sx CIC; Circ 279 sx		
9-7/8"	8-5/8"	11,864'	700 sx CIC; Circ 686 sx		
7-7/8"	6" & 5-1/2"	27,941'	2230 sx CIH; Circ 155 sx		
	Tubing:	0			

V. Well Test Data

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 907 psi
³⁷ Choke Size	³⁸ Oil 4399 bbl	³⁹ Water 4175 bbl	⁴⁰ Gas 8140 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: NMOCD		
E-mail Address: Rebecca.Deal@dvn.com			Approval Date: 10/6/2021		
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
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District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48097	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 182H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3710.8

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	1380	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
N	34	23 S	33 E		39	SOUTH	2447	WEST	LEA

¹² Dedicated Acres 480	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.

	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>Rebecca Deal</i> 8/12/2021 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 <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: FILED IN GROUND BOOK NO. PLS 12797 SURVEY NO. 8630B
	AS-DILLED KOP 127' FNL, 2168' FWL LAT. = 32.2971178°N LONG. = 103.5617453°W NMSP EAST (FT) N = 472861.82 E = 779749.19 AS-DILLED FIRST TAKE POINT 607' FNL, 2213' FWL LAT. = 32.2957992°N LONG. = 103.5615979°W NMSP EAST (FT) N = 472202.44 E = 779798.18 W/4 CORNER SEC. 27 LAT. = 32.2756899°N LONG. = 103.5687542°W NMSP EAST (FT) N = 464870.84 E = 777639.03 SW CORNER SEC. 34 LAT. = 32.2684420°N LONG. = 103.5687493°W NMSP EAST (FT) N = 462234.08 E = 777659.34 W/4 CORNER SEC. 34 LAT. = 32.2611700°N LONG. = 103.5687420°W NMSP EAST (FT) N = 459888.56 E = 777680.44 SW CORNER SEC. 34 LAT. = 32.2539033°N LONG. = 103.5687408°W NMSP EAST (FT) N = 456945.13 E = 777699.63 THISTLE UNIT 182H ELEV. = 3710.8' LAT. = 32.2970303°N (NAD83) LONG. = 103.5642941°W NMSP EAST (FT) N = 472644.31 E = 778961.83 S/4 CORNER SEC. 22 LAT. = 32.2829394°N LONG. = 103.5602131°W NMSP EAST (FT) N = 467527.14 E = 780259.81 NE CORNER SEC. 22 LAT. = 32.2974530°N LONG. = 103.5516745°W NMSP EAST (FT) N = 472861.82 E = 782860.12 E/4 CORNER SEC. 22 LAT. = 32.2901991°N LONG. = 103.5516779°W NMSP EAST (FT) N = 470187.30 E = 782878.31 SE CORNER SEC. 22 LAT. = 32.2829270°N LONG. = 103.5516698°W NMSP EAST (FT) N = 467541.76 E = 782900.10 E/4 CORNER SEC. 27 LAT. = 32.2757053°N LONG. = 103.5516694°W NMSP EAST (FT) N = 464914.49 E = 782919.36 SE CORNER SEC. 27 LAT. = 32.2684152°N LONG. = 103.5516675°W NMSP EAST (FT) N = 462262.37 E = 782939.28 SE CORNER SEC. 34 LAT. = 32.2538795°N LONG. = 103.5516653°W NMSP EAST (FT) N = 456974.34 E = 782978.47

Intent ☐ As Drilled ☒

API # 30-025-48097		
Operator Name: DEVON ENERGY PRODUCTION CO., L.P.	Property Name: THISTLE UNIT	Well Number 182H

Kick Off Point (KOP)

UL C	Section 22	Township 23S	Range 33E	Lot	Feet 127	From N/S NORTH	Feet 2168	From E/W WEST	County LEA
Latitude 32.2971178					Longitude 103.5617453				NAD 83

First Take Point (FTP)

UL C	Section 22	Township 23S	Range 33E	Lot	Feet 607	From N/S NORTH	Feet 2213	From E/W WEST	County LEA
Latitude 32.2957992					Longitude 103.5615979				NAD 83

Last Take Point (LTP)

UL N	Section 34	Township 23S	Range 33E	Lot	Feet 163	From N/S SOUTH	Feet 2454	From E/W WEST	County LEA
Latitude 32.2543408					Longitude 103.5608054				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 182H

OH

Design: OH

Survey Report - Geographic

21 April, 2021





Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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 182H				
Well Position	+N/-S	0.00 usft	Northing:	472,644.31 usft	Latitude:	32.297030
	+E/-W	0.00 usft	Easting:	778,961.83 usft	Longitude:	-103.564294
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,710.80 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/8/2020	6.58	60.08	47,622.26954356

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	4/21/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
106.00	1,335.00	Survey #1 (OH)	MWD	OWSG MWD - Standard	
1,528.00	27,900.00	Survey #2 - MWD (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard	
27,956.00	27,956.00	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	472,644.31	778,961.83	32.297030	-103.564294	
SHL (Thistle Unit 182H)										
106.00	0.62	237.59	106.00	-0.31	-0.48	472,644.00	778,961.34	32.297030	-103.564296	
200.00	0.88	236.18	199.99	-0.98	-1.51	472,643.33	778,960.31	32.297028	-103.564299	
295.00	0.84	246.02	294.98	-1.67	-2.76	472,642.64	778,959.07	32.297026	-103.564303	
390.00	0.84	246.29	389.97	-2.23	-4.03	472,642.08	778,957.80	32.297024	-103.564307	
484.00	0.79	247.25	483.96	-2.76	-5.26	472,641.55	778,956.57	32.297023	-103.564311	
579.00	0.66	242.68	578.95	-3.27	-6.35	472,641.04	778,955.48	32.297022	-103.564315	
674.00	0.53	237.67	673.95	-3.75	-7.21	472,640.56	778,954.62	32.297020	-103.564318	
768.00	0.48	249.89	767.94	-4.12	-7.94	472,640.19	778,953.88	32.297019	-103.564320	



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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
863.00	0.26	236.00	862.94	-4.38	-8.49	472,639.93	778,953.33	32.297019	-103.564322
956.00	0.22	254.02	955.94	-4.54	-8.84	472,639.77	778,952.99	32.297018	-103.564323
1,051.00	0.09	231.43	1,050.94	-4.64	-9.08	472,639.67	778,952.75	32.297018	-103.564324
1,146.00	0.18	29.11	1,145.94	-4.56	-9.06	472,639.75	778,952.77	32.297018	-103.564324
1,240.00	0.31	50.29	1,239.94	-4.27	-8.79	472,640.04	778,953.03	32.297019	-103.564323
1,335.00	0.35	31.04	1,334.94	-3.85	-8.45	472,640.46	778,953.38	32.297020	-103.564322
1,528.00	0.04	326.44	1,527.94	-3.29	-8.18	472,641.02	778,953.65	32.297021	-103.564321
1,560.00	0.13	232.66	1,559.94	-3.30	-8.21	472,641.01	778,953.61	32.297021	-103.564321
1,656.00	1.76	77.36	1,655.92	-3.05	-6.86	472,641.26	778,954.97	32.297022	-103.564317
1,751.00	3.08	77.45	1,750.84	-2.17	-2.95	472,642.14	778,958.88	32.297024	-103.564304
1,847.00	4.26	75.96	1,846.64	-0.75	3.03	472,643.56	778,964.86	32.297028	-103.564285
1,942.00	5.54	76.92	1,941.29	1.15	10.92	472,645.46	778,972.75	32.297033	-103.564259
2,037.00	6.99	78.33	2,035.72	3.35	21.05	472,647.66	778,982.88	32.297039	-103.564226
2,132.00	7.78	79.65	2,129.93	5.68	33.03	472,649.99	778,994.86	32.297045	-103.564187
2,227.00	7.78	80.70	2,224.05	7.87	45.71	472,652.18	779,007.53	32.297051	-103.564146
2,322.00	7.74	81.76	2,318.18	9.83	58.38	472,654.14	779,020.21	32.297056	-103.564105
2,418.00	7.96	82.11	2,413.28	11.67	71.36	472,655.98	779,033.19	32.297061	-103.564063
2,513.00	7.82	82.99	2,507.39	13.36	84.29	472,657.67	779,046.12	32.297065	-103.564021
2,609.00	7.96	82.72	2,602.48	15.00	97.37	472,659.31	779,059.20	32.297070	-103.563979
2,704.00	7.87	82.55	2,696.57	16.67	110.34	472,660.98	779,072.17	32.297074	-103.563937
2,799.00	7.82	82.99	2,790.68	18.31	123.21	472,662.62	779,085.03	32.297078	-103.563895
2,894.00	7.74	82.55	2,884.81	19.92	135.97	472,664.24	779,097.79	32.297082	-103.563854
2,989.00	7.74	82.28	2,978.94	21.61	148.65	472,665.92	779,110.48	32.297087	-103.563813
3,084.00	8.04	82.46	3,073.04	23.34	161.57	472,667.65	779,123.40	32.297091	-103.563771
3,180.00	8.13	81.76	3,168.09	25.20	174.95	472,669.51	779,136.77	32.297096	-103.563728
3,275.00	8.35	81.23	3,262.11	27.21	188.41	472,671.52	779,150.24	32.297101	-103.563684
3,371.00	8.44	79.73	3,357.08	29.53	202.23	472,673.84	779,164.06	32.297108	-103.563639
3,466.00	8.57	79.47	3,451.03	32.07	216.05	472,676.38	779,177.88	32.297114	-103.563594
3,561.00	8.75	78.33	3,544.95	34.82	230.09	472,679.13	779,191.92	32.297122	-103.563549
3,656.00	8.97	76.75	3,638.82	37.98	244.37	472,682.29	779,206.20	32.297130	-103.563503
3,752.00	8.70	81.32	3,733.68	40.79	258.84	472,685.10	779,220.66	32.297137	-103.563456
3,847.00	8.70	79.65	3,827.59	43.17	273.01	472,687.48	779,234.83	32.297144	-103.563410
3,942.00	7.43	82.11	3,921.65	45.30	286.16	472,689.61	779,247.99	32.297149	-103.563367
4,037.00	6.77	83.51	4,015.92	46.78	297.81	472,691.09	779,259.63	32.297153	-103.563330
4,132.00	6.55	83.78	4,110.28	48.00	308.76	472,692.31	779,270.59	32.297156	-103.563294
4,227.00	6.11	85.54	4,204.70	48.98	319.18	472,693.29	779,281.01	32.297159	-103.563260
4,323.00	5.89	87.38	4,300.17	49.60	329.20	472,693.91	779,291.03	32.297160	-103.563228
4,418.00	6.55	96.70	4,394.61	49.19	339.45	472,693.50	779,301.28	32.297159	-103.563195
4,513.00	8.31	101.36	4,488.81	47.21	351.56	472,691.52	779,313.39	32.297153	-103.563156
4,609.00	7.34	100.48	4,583.92	44.73	364.39	472,689.04	779,326.22	32.297146	-103.563114
4,704.00	7.03	103.38	4,678.17	42.28	376.02	472,686.59	779,337.84	32.297139	-103.563077
4,800.00	7.47	101.62	4,773.40	39.66	387.85	472,683.97	779,349.67	32.297132	-103.563038
4,895.00	7.60	98.28	4,867.58	37.51	400.11	472,681.82	779,361.94	32.297126	-103.562999
4,991.00	8.79	98.63	4,962.60	35.50	413.65	472,679.81	779,375.47	32.297120	-103.562955
5,086.00	6.81	94.68	5,056.72	33.95	426.44	472,678.26	779,388.26	32.297115	-103.562914
5,182.00	5.32	85.97	5,152.18	33.80	436.55	472,678.11	779,398.38	32.297115	-103.562881
5,277.00	4.75	82.46	5,246.82	34.62	444.84	472,678.93	779,406.67	32.297117	-103.562854
5,373.00	4.53	80.35	5,342.50	35.78	452.52	472,680.09	779,414.35	32.297120	-103.562829
5,469.00	4.44	79.12	5,438.21	37.12	459.91	472,681.43	779,421.73	32.297123	-103.562805
5,565.00	4.75	71.30	5,533.90	39.09	467.32	472,683.40	779,429.15	32.297129	-103.562781
5,660.00	5.10	65.58	5,628.55	42.10	474.89	472,686.41	779,436.72	32.297137	-103.562757
5,756.00	5.49	67.61	5,724.14	45.61	483.02	472,689.92	779,444.85	32.297146	-103.562730
5,850.00	6.42	64.97	5,817.63	49.55	491.94	472,693.86	779,453.77	32.297157	-103.562701
5,946.00	7.12	65.58	5,912.96	54.28	502.22	472,698.59	779,464.05	32.297170	-103.562668
6,041.00	7.56	71.21	6,007.18	58.73	513.50	472,703.04	779,475.33	32.297182	-103.562631



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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
6,136.00	7.30	75.96	6,101.39	62.20	525.27	472,706.51	779,487.10	32.297191	-103.562593
6,232.00	7.43	78.15	6,196.59	64.96	537.26	472,709.27	779,499.09	32.297198	-103.562554
6,328.00	7.78	81.58	6,291.75	67.18	549.77	472,711.49	779,511.59	32.297204	-103.562514
6,423.00	7.74	79.56	6,385.88	69.28	562.42	472,713.59	779,524.25	32.297210	-103.562473
6,519.00	7.87	77.98	6,480.99	71.82	575.20	472,716.13	779,537.03	32.297216	-103.562431
6,614.00	8.22	73.76	6,575.06	75.08	588.09	472,719.39	779,549.91	32.297225	-103.562390
6,709.00	8.70	69.98	6,669.02	79.44	601.36	472,723.75	779,563.18	32.297237	-103.562346
6,805.00	8.48	73.05	6,763.95	83.99	614.95	472,728.30	779,576.78	32.297249	-103.562302
6,900.00	8.22	77.27	6,857.94	87.52	628.27	472,731.84	779,590.10	32.297259	-103.562259
6,995.00	7.12	84.74	6,952.09	89.56	640.76	472,733.87	779,602.59	32.297264	-103.562219
7,090.00	6.46	85.62	7,046.43	90.51	651.95	472,734.82	779,613.78	32.297266	-103.562182
7,186.00	5.93	86.24	7,141.86	91.25	662.29	472,735.56	779,624.11	32.297268	-103.562149
7,282.00	6.59	81.58	7,237.29	92.38	672.69	472,736.69	779,634.51	32.297271	-103.562115
7,377.00	7.69	77.98	7,331.55	94.50	684.29	472,738.81	779,646.12	32.297277	-103.562078
7,473.00	7.60	78.15	7,426.70	97.14	696.79	472,741.45	779,658.62	32.297284	-103.562037
7,568.00	7.60	77.63	7,520.87	99.78	709.07	472,744.09	779,670.90	32.297291	-103.561997
7,664.00	7.60	78.42	7,616.02	102.41	721.49	472,746.72	779,683.32	32.297298	-103.561957
7,759.00	7.56	80.79	7,710.19	104.67	733.82	472,748.98	779,695.65	32.297304	-103.561917
7,855.00	6.46	82.37	7,805.47	106.40	745.40	472,750.71	779,707.23	32.297308	-103.561880
7,950.00	6.07	84.48	7,899.91	107.59	755.70	472,751.90	779,717.53	32.297311	-103.561846
8,045.00	5.71	87.38	7,994.41	108.29	765.42	472,752.60	779,727.25	32.297313	-103.561815
8,141.00	5.45	91.16	8,089.95	108.42	774.75	472,752.73	779,736.58	32.297313	-103.561785
8,236.00	4.92	94.50	8,184.56	108.01	783.32	472,752.32	779,745.15	32.297312	-103.561757
8,332.00	4.62	97.40	8,280.23	107.19	791.26	472,751.50	779,753.09	32.297309	-103.561731
8,427.00	4.09	98.89	8,374.96	106.17	798.40	472,750.48	779,760.23	32.297306	-103.561708
8,523.00	2.64	104.96	8,470.79	105.07	803.92	472,749.38	779,765.75	32.297303	-103.561690
8,617.00	1.45	99.16	8,564.73	104.32	807.19	472,748.63	779,769.01	32.297301	-103.561680
8,713.00	1.05	100.74	8,660.70	103.97	809.25	472,748.28	779,771.08	32.297300	-103.561673
8,808.00	0.44	29.11	8,755.70	104.12	810.28	472,748.43	779,772.11	32.297301	-103.561670
8,904.00	0.31	33.59	8,851.69	104.66	810.60	472,748.97	779,772.43	32.297302	-103.561669
8,999.00	0.40	297.18	8,946.69	105.03	810.45	472,749.34	779,772.28	32.297303	-103.561669
9,095.00	0.62	255.96	9,042.69	105.05	809.65	472,749.36	779,771.48	32.297303	-103.561672
9,190.00	0.57	263.78	9,137.68	104.88	808.68	472,749.19	779,770.51	32.297303	-103.561675
9,286.00	0.84	242.33	9,233.68	104.50	807.58	472,748.81	779,769.41	32.297302	-103.561679
9,381.00	1.14	243.83	9,328.66	103.76	806.12	472,748.07	779,767.95	32.297300	-103.561683
9,477.00	0.92	237.23	9,424.65	102.92	804.61	472,747.23	779,766.44	32.297297	-103.561688
9,572.00	1.23	230.47	9,519.63	101.86	803.19	472,746.17	779,765.01	32.297294	-103.561693
9,668.00	1.49	235.56	9,615.60	100.50	801.36	472,744.81	779,763.19	32.297291	-103.561699
9,763.00	1.01	236.71	9,710.58	99.34	799.64	472,743.65	779,761.47	32.297288	-103.561704
9,859.00	0.92	224.23	9,806.57	98.32	798.40	472,742.63	779,760.23	32.297285	-103.561708
9,954.00	1.10	193.64	9,901.55	96.89	797.65	472,741.20	779,759.48	32.297281	-103.561711
10,050.00	1.27	182.57	9,997.53	94.93	797.39	472,739.24	779,759.21	32.297276	-103.561712
10,145.00	1.32	198.21	10,092.51	92.84	797.00	472,737.15	779,758.82	32.297270	-103.561713
10,241.00	1.67	209.20	10,188.48	90.57	795.97	472,734.88	779,757.80	32.297264	-103.561716
10,330.00	1.76	202.69	10,277.44	88.18	794.81	472,732.49	779,756.64	32.297257	-103.561720
10,431.00	1.76	200.50	10,378.39	85.29	793.67	472,729.60	779,755.50	32.297249	-103.561724
10,527.00	1.71	212.45	10,474.34	82.70	792.38	472,727.01	779,754.21	32.297242	-103.561728
10,622.00	1.71	218.16	10,569.30	80.39	790.75	472,724.70	779,752.57	32.297236	-103.561734
10,718.00	1.54	217.99	10,665.26	78.25	789.07	472,722.56	779,750.90	32.297230	-103.561739
10,813.00	1.76	215.17	10,760.22	76.05	787.44	472,720.36	779,749.27	32.297224	-103.561744
10,909.00	1.93	204.01	10,856.17	73.37	785.93	472,717.68	779,747.76	32.297217	-103.561749
11,005.00	1.93	207.62	10,952.12	70.46	784.53	472,714.77	779,746.36	32.297209	-103.561754
11,100.00	1.80	214.82	11,047.07	67.82	782.93	472,712.13	779,744.76	32.297201	-103.561759
11,195.00	1.93	211.83	11,142.02	65.23	781.24	472,709.54	779,743.07	32.297194	-103.561765
11,291.00	2.37	201.90	11,237.95	62.02	779.65	472,706.33	779,741.47	32.297185	-103.561770



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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
11,387.00	2.42	192.50	11,333.87	58.20	778.47	472,702.51	779,740.29	32.297175	-103.561774
11,482.00	2.15	162.88	11,428.80	54.54	778.56	472,698.85	779,740.38	32.297165	-103.561774
11,577.00	2.42	141.70	11,523.72	51.26	780.32	472,695.57	779,742.15	32.297156	-103.561768
11,673.00	2.73	156.02	11,619.63	47.58	782.51	472,691.89	779,744.34	32.297146	-103.561761
11,768.00	3.16	155.50	11,714.50	43.13	784.52	472,687.44	779,746.34	32.297133	-103.561755
11,815.00	3.25	152.51	11,761.43	40.77	785.67	472,685.08	779,747.49	32.297127	-103.561751
11,875.00	3.56	148.20	11,821.32	37.68	787.43	472,681.99	779,749.26	32.297118	-103.561745
KOP									
11,970.00	6.07	154.62	11,915.98	30.63	791.14	472,674.94	779,752.97	32.297099	-103.561733
12,066.00	16.44	162.53	12,010.01	13.04	797.41	472,657.35	779,759.24	32.297050	-103.561714
12,161.00	29.58	166.48	12,097.26	-22.74	806.97	472,621.57	779,768.80	32.296952	-103.561683
12,256.00	40.00	168.42	12,175.18	-75.60	818.62	472,568.71	779,780.44	32.296806	-103.561647
12,352.00	46.33	173.34	12,245.18	-140.39	828.85	472,503.92	779,790.68	32.296628	-103.561615
12,447.00	52.62	180.46	12,306.93	-212.39	832.54	472,431.92	779,794.37	32.296430	-103.561605
12,543.00	62.24	177.38	12,358.55	-293.17	834.18	472,351.15	779,796.00	32.296208	-103.561602
12,638.00	73.71	177.91	12,394.12	-381.01	837.77	472,263.30	779,799.60	32.295967	-103.561592
12,642.87	74.38	178.25	12,395.46	-385.70	837.93	472,258.62	779,799.76	32.295954	-103.561592
LP (Thistle Unit 182H)									
12,733.00	86.81	184.32	12,410.17	-474.37	835.85	472,169.94	779,797.68	32.295710	-103.561601
12,829.00	87.69	182.13	12,414.78	-570.10	830.46	472,074.21	779,792.29	32.295447	-103.561620
12,925.00	86.68	181.25	12,419.50	-665.94	827.63	471,978.37	779,789.46	32.295184	-103.561632
13,020.00	87.60	179.67	12,424.24	-760.81	826.87	471,883.50	779,788.70	32.294923	-103.561636
13,116.00	88.53	179.58	12,427.48	-856.75	827.50	471,787.56	779,789.33	32.294659	-103.561636
13,210.00	89.80	179.75	12,428.85	-950.74	828.05	471,693.57	779,789.88	32.294401	-103.561637
13,306.00	90.02	179.23	12,429.00	-1,046.74	828.90	471,597.57	779,790.73	32.294137	-103.561636
13,401.00	89.98	179.31	12,429.00	-1,141.73	830.11	471,502.58	779,791.94	32.293876	-103.561635
13,495.00	89.36	179.23	12,429.54	-1,235.72	831.31	471,408.59	779,793.14	32.293617	-103.561633
13,591.00	89.45	179.14	12,430.54	-1,331.70	832.68	471,312.61	779,794.50	32.293354	-103.561631
13,686.00	89.23	178.61	12,431.63	-1,426.68	834.54	471,217.63	779,796.37	32.293092	-103.561627
13,731.00	89.32	178.08	12,432.20	-1,471.66	835.84	471,172.65	779,797.67	32.292969	-103.561624
13,826.00	89.32	178.26	12,433.33	-1,566.60	838.87	471,077.71	779,800.70	32.292708	-103.561616
13,921.00	88.79	179.93	12,434.89	-1,661.57	840.37	470,982.74	779,802.20	32.292447	-103.561614
14,016.00	88.70	179.67	12,436.98	-1,756.55	840.71	470,887.76	779,802.53	32.292186	-103.561615
14,112.00	89.05	180.02	12,438.86	-1,852.53	840.97	470,791.78	779,802.79	32.291922	-103.561616
14,207.00	89.19	179.67	12,440.32	-1,947.52	841.22	470,696.79	779,803.05	32.291661	-103.561617
14,303.00	89.71	179.67	12,441.24	-2,043.51	841.78	470,600.80	779,803.60	32.291397	-103.561618
14,398.00	90.77	179.67	12,440.84	-2,138.51	842.32	470,505.80	779,804.15	32.291136	-103.561618
14,494.00	88.35	180.72	12,441.58	-2,234.50	842.00	470,409.81	779,803.82	32.290872	-103.561622
14,589.00	86.95	180.63	12,445.48	-2,329.41	840.88	470,314.90	779,802.71	32.290611	-103.561627
14,685.00	87.43	180.63	12,450.18	-2,425.29	839.82	470,219.02	779,801.65	32.290348	-103.561633
14,781.00	87.87	179.93	12,454.12	-2,521.20	839.36	470,123.11	779,801.18	32.290084	-103.561637
14,876.00	86.90	179.31	12,458.45	-2,616.10	839.98	470,028.21	779,801.81	32.289823	-103.561637
14,971.00	87.03	178.96	12,463.48	-2,710.96	841.42	469,933.35	779,803.24	32.289562	-103.561635
15,067.00	87.69	178.79	12,467.90	-2,806.84	843.30	469,837.47	779,805.13	32.289299	-103.561631
15,163.00	86.59	178.00	12,472.69	-2,902.68	845.98	469,741.63	779,807.81	32.289035	-103.561624
15,258.00	88.70	178.17	12,476.60	-2,997.54	849.16	469,646.77	779,810.98	32.288774	-103.561616
15,354.00	88.75	178.52	12,478.73	-3,093.47	851.93	469,550.84	779,813.76	32.288511	-103.561609
15,449.00	88.40	178.70	12,481.10	-3,188.42	854.23	469,455.89	779,816.06	32.288250	-103.561604
15,544.00	87.56	179.14	12,484.44	-3,283.34	856.02	469,360.97	779,817.85	32.287989	-103.561601
15,639.00	89.76	180.81	12,486.67	-3,378.30	856.06	469,266.01	779,817.89	32.287728	-103.561603
15,735.00	89.54	180.98	12,487.25	-3,474.29	854.56	469,170.02	779,816.39	32.287464	-103.561610
15,830.00	89.76	181.25	12,487.83	-3,569.27	852.71	469,075.04	779,814.54	32.287203	-103.561618
15,926.00	89.67	180.98	12,488.31	-3,665.25	850.85	468,979.06	779,812.67	32.286939	-103.561626
16,022.00	87.96	180.81	12,490.30	-3,761.22	849.35	468,883.09	779,811.17	32.286675	-103.561633
16,117.00	86.86	180.98	12,494.59	-3,856.11	847.86	468,788.20	779,809.69	32.286415	-103.561640



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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
16,213.00	89.32	180.63	12,497.79	-3,952.04	846.52	468,692.28	779,808.34	32.286151	-103.561647
16,308.00	88.97	180.72	12,499.21	-4,047.02	845.40	468,597.29	779,807.23	32.285890	-103.561653
16,403.00	87.82	180.54	12,501.87	-4,141.97	844.35	468,502.34	779,806.18	32.285629	-103.561658
16,499.00	90.37	181.51	12,503.38	-4,237.94	842.64	468,406.37	779,804.46	32.285365	-103.561666
16,594.00	90.55	180.02	12,502.62	-4,332.92	841.37	468,311.39	779,803.20	32.285104	-103.561673
16,690.00	90.68	181.51	12,501.59	-4,428.91	840.09	468,215.40	779,801.91	32.284840	-103.561679
16,785.00	88.62	181.51	12,502.17	-4,523.87	837.58	468,120.44	779,799.41	32.284579	-103.561689
16,880.00	87.12	181.51	12,505.70	-4,618.76	835.08	468,025.55	779,796.91	32.284319	-103.561700
16,976.00	86.51	180.72	12,511.03	-4,714.60	833.22	467,929.71	779,795.04	32.284055	-103.561708
17,071.00	86.55	180.63	12,516.78	-4,809.42	832.10	467,834.89	779,793.93	32.283795	-103.561714
17,166.00	86.24	180.81	12,522.76	-4,904.22	830.91	467,740.09	779,792.74	32.283534	-103.561720
17,262.00	86.02	181.69	12,529.24	-4,999.98	828.82	467,644.33	779,790.65	32.283271	-103.561729
17,263.26	86.04	181.69	12,529.32	-5,001.23	828.78	467,643.08	779,790.61	32.283267	-103.561729
5000' VS TGT (Thistle Unit 182H)									
17,357.00	87.87	181.86	12,534.30	-5,094.79	825.88	467,549.52	779,787.71	32.283010	-103.561740
17,382.09	87.75	181.91	12,535.26	-5,119.85	825.06	467,524.46	779,786.88	32.282942	-103.561744
S22/24 Crossing									
17,452.00	87.43	182.04	12,538.20	-5,189.66	822.65	467,454.65	779,784.48	32.282750	-103.561753
17,547.00	89.63	180.90	12,540.63	-5,284.59	820.21	467,359.72	779,782.04	32.282489	-103.561763
17,643.00	87.56	179.40	12,542.99	-5,380.55	819.96	467,263.76	779,781.79	32.282225	-103.561766
17,739.00	87.52	179.58	12,547.11	-5,476.46	820.82	467,167.85	779,782.64	32.281961	-103.561766
17,834.00	86.95	180.02	12,551.69	-5,571.35	821.15	467,072.96	779,782.98	32.281701	-103.561767
17,930.00	88.40	178.52	12,555.58	-5,667.25	822.37	466,977.06	779,784.20	32.281437	-103.561765
18,025.00	89.05	178.88	12,557.70	-5,762.21	824.53	466,882.10	779,786.35	32.281176	-103.561760
18,121.00	89.01	177.82	12,559.32	-5,858.15	827.29	466,786.16	779,789.12	32.280912	-103.561754
18,216.00	88.66	176.24	12,561.25	-5,953.00	832.21	466,691.31	779,794.04	32.280651	-103.561740
18,312.00	88.75	174.66	12,563.42	-6,048.67	839.82	466,595.64	779,801.65	32.280388	-103.561717
18,407.00	88.48	173.43	12,565.72	-6,143.13	849.68	466,501.18	779,811.50	32.280128	-103.561688
18,503.00	89.32	171.32	12,567.56	-6,238.26	862.41	466,406.05	779,824.24	32.279867	-103.561649
18,598.00	90.02	170.00	12,568.11	-6,331.99	877.83	466,312.32	779,839.66	32.279609	-103.561601
18,694.00	90.42	168.50	12,567.74	-6,426.30	895.73	466,218.01	779,857.56	32.279349	-103.561545
18,790.00	89.98	166.92	12,567.41	-6,520.10	916.17	466,124.21	779,878.00	32.279091	-103.561481
18,885.00	89.54	163.23	12,567.81	-6,611.88	940.63	466,032.43	779,902.46	32.278838	-103.561404
18,980.00	89.89	162.79	12,568.28	-6,702.73	968.39	465,941.58	779,930.22	32.278588	-103.561317
19,075.00	90.07	162.09	12,568.31	-6,793.30	997.05	465,851.01	779,958.88	32.278338	-103.561226
19,171.00	90.20	164.02	12,568.08	-6,885.13	1,025.03	465,759.18	779,986.86	32.278085	-103.561138
19,267.00	89.32	164.99	12,568.49	-6,977.64	1,050.68	465,666.67	780,012.50	32.277831	-103.561057
19,362.00	89.14	166.48	12,569.76	-7,069.70	1,074.08	465,574.61	780,035.91	32.277577	-103.560983
19,457.00	88.26	167.89	12,571.92	-7,162.31	1,095.15	465,482.01	780,056.97	32.277322	-103.560917
19,552.00	88.09	168.59	12,574.94	-7,255.26	1,114.50	465,389.05	780,076.33	32.277066	-103.560857
19,647.00	88.66	169.91	12,577.64	-7,348.56	1,132.21	465,295.75	780,094.04	32.276810	-103.560802
19,743.00	90.51	171.58	12,578.33	-7,443.30	1,147.65	465,201.01	780,109.48	32.276549	-103.560754
19,838.00	90.73	173.16	12,577.31	-7,537.45	1,160.26	465,106.86	780,122.09	32.276290	-103.560715
19,933.00	90.33	175.36	12,576.43	-7,631.96	1,169.76	465,012.35	780,131.59	32.276030	-103.560687
20,029.00	90.02	175.54	12,576.13	-7,727.66	1,177.38	464,916.65	780,139.21	32.275767	-103.560664
20,125.00	90.07	176.77	12,576.06	-7,823.44	1,183.82	464,820.87	780,145.64	32.275503	-103.560646
20,220.00	90.11	176.85	12,575.91	-7,918.29	1,189.10	464,726.02	780,150.93	32.275242	-103.560631
20,316.00	90.02	178.96	12,575.80	-8,014.22	1,192.61	464,630.09	780,154.44	32.274979	-103.560622
20,411.00	90.73	178.96	12,575.18	-8,109.20	1,194.34	464,535.11	780,156.16	32.274718	-103.560618
20,506.00	90.81	179.67	12,573.90	-8,204.19	1,195.47	464,440.12	780,157.30	32.274456	-103.560617
20,601.00	91.16	179.93	12,572.27	-8,299.17	1,195.80	464,345.14	780,157.63	32.274195	-103.560618
20,697.00	90.68	181.25	12,570.73	-8,395.15	1,194.81	464,249.16	780,156.64	32.273932	-103.560624
20,792.00	92.13	179.75	12,568.40	-8,490.12	1,193.98	464,154.19	780,155.81	32.273671	-103.560628
20,887.00	90.99	178.44	12,565.81	-8,585.07	1,195.48	464,059.25	780,157.31	32.273410	-103.560626
20,983.00	91.43	178.61	12,563.78	-8,681.01	1,197.96	463,963.30	780,159.78	32.273146	-103.560620



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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
21,078.00	92.35	178.61	12,560.65	-8,775.93	1,200.26	463,868.38	780,162.09	32.272885	-103.560615
21,173.00	89.58	178.88	12,559.05	-8,870.89	1,202.34	463,773.42	780,164.17	32.272624	-103.560610
21,269.00	88.66	179.23	12,560.53	-8,966.86	1,203.92	463,677.45	780,165.75	32.272360	-103.560607
21,364.00	89.19	178.79	12,562.31	-9,061.83	1,205.56	463,582.48	780,167.39	32.272099	-103.560604
21,459.00	88.88	178.08	12,563.91	-9,156.78	1,208.16	463,487.53	780,169.98	32.271838	-103.560598
21,555.00	89.10	178.61	12,565.60	-9,252.72	1,210.93	463,391.59	780,172.76	32.271574	-103.560591
21,650.00	90.95	179.05	12,565.56	-9,347.70	1,212.87	463,296.61	780,174.70	32.271313	-103.560587
21,745.00	91.34	179.23	12,563.66	-9,442.67	1,214.29	463,201.64	780,176.12	32.271052	-103.560585
21,841.00	90.81	179.93	12,561.86	-9,538.65	1,215.00	463,105.66	780,176.83	32.270788	-103.560585
21,936.00	90.86	181.16	12,560.47	-9,633.63	1,214.09	463,010.68	780,175.92	32.270527	-103.560590
22,032.00	91.12	180.46	12,558.82	-9,729.61	1,212.74	462,914.70	780,174.57	32.270263	-103.560597
22,127.00	89.27	179.58	12,558.49	-9,824.60	1,212.70	462,819.71	780,174.53	32.270002	-103.560599
22,223.00	89.67	179.84	12,559.38	-9,920.60	1,213.19	462,723.71	780,175.02	32.269738	-103.560600
22,318.00	89.76	179.75	12,559.85	-10,015.60	1,213.53	462,628.72	780,175.36	32.269477	-103.560601
22,414.00	88.40	178.17	12,561.39	-10,111.56	1,215.27	462,532.75	780,177.10	32.269213	-103.560597
22,509.00	91.87	180.37	12,561.17	-10,206.53	1,216.48	462,437.78	780,178.31	32.268952	-103.560596
22,605.00	90.24	179.05	12,559.40	-10,302.51	1,216.97	462,341.80	780,178.80	32.268689	-103.560596
22,699.23	89.98	178.45	12,559.22	-10,396.72	1,219.02	462,247.59	780,180.85	32.268430	-103.560592
S24/34 Crossing									
22,701.00	89.98	178.44	12,559.22	-10,398.49	1,219.07	462,245.82	780,180.90	32.268425	-103.560592
22,796.00	90.07	177.91	12,559.18	-10,493.44	1,222.10	462,150.87	780,183.92	32.268164	-103.560584
22,892.00	90.95	179.05	12,558.32	-10,589.40	1,224.64	462,054.91	780,186.47	32.267900	-103.560578
22,987.00	90.55	178.26	12,557.08	-10,684.36	1,226.87	461,959.95	780,188.70	32.267639	-103.560573
23,082.00	89.93	179.67	12,556.68	-10,779.34	1,228.59	461,864.97	780,190.42	32.267378	-103.560570
23,178.00	89.67	180.46	12,557.02	-10,875.34	1,228.48	461,768.97	780,190.31	32.267114	-103.560572
23,273.00	91.43	180.54	12,556.10	-10,970.33	1,227.65	461,673.98	780,189.48	32.266853	-103.560577
23,369.00	91.96	180.81	12,553.27	-11,066.28	1,226.52	461,578.03	780,188.35	32.266589	-103.560583
23,464.00	89.14	180.11	12,552.35	-11,161.26	1,225.76	461,483.05	780,187.59	32.266328	-103.560588
23,560.00	90.20	181.51	12,552.91	-11,257.25	1,224.40	461,387.06	780,186.23	32.266064	-103.560595
23,655.00	88.40	181.16	12,554.07	-11,352.21	1,222.19	461,292.10	780,184.02	32.265803	-103.560604
23,750.00	88.04	180.90	12,557.02	-11,447.15	1,220.48	461,197.16	780,182.31	32.265542	-103.560612
23,846.00	88.70	180.90	12,559.75	-11,543.10	1,218.97	461,101.21	780,180.80	32.265279	-103.560619
23,941.00	88.70	180.28	12,561.90	-11,638.07	1,218.00	461,006.24	780,179.82	32.265018	-103.560624
24,036.00	90.77	180.54	12,562.34	-11,733.06	1,217.32	460,911.25	780,179.14	32.264756	-103.560629
24,132.00	92.00	179.05	12,560.02	-11,829.03	1,217.66	460,815.28	780,179.49	32.264493	-103.560630
24,227.00	88.62	178.61	12,559.51	-11,923.99	1,219.60	460,720.32	780,181.43	32.264232	-103.560626
24,323.00	91.47	180.11	12,559.43	-12,019.97	1,220.67	460,624.34	780,182.50	32.263968	-103.560624
24,418.00	89.36	179.93	12,558.75	-12,114.97	1,220.64	460,529.34	780,182.46	32.263707	-103.560627
24,513.00	89.98	179.14	12,559.29	-12,209.96	1,221.41	460,434.35	780,183.24	32.263446	-103.560626
24,608.00	86.99	176.94	12,561.80	-12,304.85	1,224.65	460,339.46	780,186.48	32.263185	-103.560618
24,704.00	92.00	178.52	12,562.65	-12,400.74	1,228.45	460,243.57	780,190.28	32.262921	-103.560608
24,799.00	91.82	177.82	12,559.48	-12,495.64	1,231.49	460,148.67	780,193.31	32.262660	-103.560600
24,895.00	91.87	176.94	12,556.39	-12,591.49	1,235.87	460,052.82	780,197.70	32.262397	-103.560588
24,991.00	90.15	176.85	12,554.70	-12,687.33	1,241.07	459,956.98	780,202.90	32.262133	-103.560574
25,086.00	88.57	177.38	12,555.76	-12,782.20	1,245.85	459,862.11	780,207.68	32.261872	-103.560561
25,182.00	87.03	176.94	12,559.45	-12,878.01	1,250.61	459,766.30	780,212.43	32.261609	-103.560547
25,277.00	87.91	178.70	12,563.64	-12,972.84	1,254.22	459,671.47	780,216.04	32.261348	-103.560538
25,372.00	89.58	178.52	12,565.72	-13,067.79	1,256.52	459,576.52	780,218.35	32.261087	-103.560533
25,468.00	88.04	180.90	12,567.72	-13,163.76	1,257.01	459,480.55	780,218.83	32.260823	-103.560533
25,563.00	89.05	181.25	12,570.13	-13,258.71	1,255.22	459,385.60	780,217.05	32.260562	-103.560541
25,649.00	87.25	180.98	12,572.90	-13,344.64	1,253.55	459,299.67	780,215.38	32.260326	-103.560549
25,745.00	90.64	181.86	12,574.67	-13,440.58	1,251.17	459,203.73	780,213.00	32.260062	-103.560559
25,840.00	90.64	181.42	12,573.61	-13,535.54	1,248.45	459,108.77	780,210.28	32.259801	-103.560570
25,935.00	90.46	181.07	12,572.70	-13,630.51	1,246.39	459,013.80	780,208.22	32.259540	-103.560579
26,031.00	90.15	181.78	12,572.19	-13,726.48	1,244.00	458,917.83	780,205.83	32.259277	-103.560589



Total Directional Services

Survey Report - Geographic



Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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
26,126.00	93.63	182.13	12,569.05	-13,821.36	1,240.76	458,822.95	780,202.59	32.259016	-103.560601
26,222.00	92.97	182.48	12,563.53	-13,917.12	1,236.91	458,727.19	780,198.74	32.258753	-103.560616
26,317.00	92.53	182.83	12,558.97	-14,011.91	1,232.51	458,632.40	780,194.34	32.258492	-103.560632
26,413.00	92.44	183.80	12,554.81	-14,107.66	1,226.97	458,536.65	780,188.80	32.258229	-103.560653
26,508.00	92.09	183.88	12,551.05	-14,202.37	1,220.61	458,441.94	780,182.44	32.257969	-103.560675
26,604.00	91.47	182.30	12,548.07	-14,298.18	1,215.44	458,346.13	780,177.27	32.257706	-103.560694
26,699.00	90.59	181.42	12,546.36	-14,393.11	1,212.36	458,251.20	780,174.18	32.257445	-103.560706
26,795.00	89.76	181.07	12,546.07	-14,489.09	1,210.27	458,155.22	780,172.10	32.257181	-103.560715
26,890.00	90.07	181.07	12,546.21	-14,584.07	1,208.50	458,060.24	780,170.32	32.256920	-103.560723
26,986.00	90.29	180.81	12,545.91	-14,680.06	1,206.92	457,964.25	780,168.75	32.256656	-103.560731
27,081.00	89.32	180.63	12,546.23	-14,775.05	1,205.73	457,869.26	780,167.55	32.256395	-103.560737
27,177.00	88.18	180.90	12,548.33	-14,871.02	1,204.45	457,773.30	780,166.27	32.256132	-103.560743
27,272.00	87.60	179.49	12,551.83	-14,965.95	1,204.12	457,678.36	780,165.95	32.255871	-103.560746
27,368.00	87.74	181.07	12,555.73	-15,061.86	1,203.65	457,582.45	780,165.48	32.255607	-103.560750
27,463.00	89.01	181.34	12,558.42	-15,156.80	1,201.66	457,487.51	780,163.48	32.255346	-103.560759
27,559.00	90.46	181.86	12,558.87	-15,252.76	1,198.98	457,391.55	780,160.80	32.255082	-103.560770
27,654.00	90.37	181.60	12,558.18	-15,347.72	1,196.11	457,296.60	780,157.94	32.254821	-103.560781
27,749.00	89.89	181.86	12,557.96	-15,442.67	1,193.24	457,201.64	780,155.07	32.254561	-103.560793
27,845.00	90.20	182.57	12,557.89	-15,538.60	1,189.53	457,105.71	780,151.36	32.254297	-103.560807
27,900.00	89.45	182.48	12,558.06	-15,593.54	1,187.11	457,050.77	780,148.93	32.254146	-103.560816
27,956.00	89.45	182.48	12,558.59	-15,649.49	1,184.68	456,994.82	780,146.51	32.253992	-103.560825
BHL - PBHL (Thistle Unit 182H)									

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 182H)	0.00	0.00	12,406.00	-383.16	801.68	472,261.15	779,763.51	32.295961	-103.561709
- hit/miss target									
- Shape									
- actual wellpath misses target center by 37.83usft at 12642.17usft MD (12395.27 TVD, -385.02 N, 837.91 E)									
- Point									
5000' VS TGT (Thistle U	0.00	0.00	12,557.30	-5,000.00	837.32	467,644.31	779,799.15	32.283271	-103.561701
- hit/miss target									
- Shape									
- actual wellpath misses target center by 29.28usft at 17263.25usft MD (12529.32 TVD, -5001.23 N, 828.78 E)									
- Point									
PBHL (Thistle Unit 182H	0.00	0.01	12,560.82	-15,667.12	1,248.36	456,977.19	780,210.19	32.253943	-103.560620
- hit/miss target									
- Shape									
- actual wellpath misses target center by 66.11usft at 27956.00usft MD (12558.59 TVD, -15649.49 N, 1184.68 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,875.00	11,821.32	37.68	787.43	KOP	
17,382.09	12,535.26	-5,119.85	825.06	S22/24 Crossing	
22,699.23	12,559.22	-10,396.72	1,219.02	S24/34 Crossing	
27,956.00	12,558.59	-15,649.49	1,184.68	BHL	

**Total Directional Services**
Survey Report - Geographic

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 182H
Project:	Lea County, NM (NAD83)	TVD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Site:	Sec 22-T23S-R33E (Thistle)	MD Reference:	Cactus 129: 3710.8'+30' @ 3740.80usft
Well:	Thistle Unit 182H	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.	30-025-48097
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	182H
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>1380</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: 3710.8'	
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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 ☒	
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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.

5/19/21-7/14/21: MIRU WL & PT. TIH & ran CBL, found ETOC @ 374'. TIH w/pump through frac plug and guns.
 Perf Wolfcamp, 12,700'-27,832'. Frac totals 37,851,207# proppant, 25 bbl acid.
 ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 27,893'. 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 10/4/2021
 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. 30-025-48097								
		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: 182H				
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 WOLFCAMP				
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	1380	West	Lea
BH:	N	34	23S	33E		39	South	2247	West	Lea
13. Date Spudded 1/19/21	14. Date T.D. Reached 1/0/00	15. Date Rig Released 4/16/21		16. Date Completed (Ready to Produce) 7/14/21		17. Elevations (DF and RKB, RT, GR, etc.) 3710.8' GL				
18. Total Measured Depth of Well 27,956' MD, 12,559' TVD		19. Plug Back Measured Depth 27,893'		20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run CBL				
22. Producing Interval(s), of this completion - Top, Bottom, Name 12700-27832, UPPER WOLFCAMP										
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	1484'	17-1/2"	1264 sx C/C; circ 279 sx						
8-5/8"	32	11,864'	9-7/8"	700 sx C/C; circ 686 sx	TOC @ 1300'					
6" & 5-1/2"	24.5 & 20	27,941'	7-7/8"	2230 sx C/H; circ 155 sx	TOC @ 6686'					
24. LINER RECORD				25. TUBING RECORD						
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 12700 - 27832, total 2254 holes				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 12700-27832 Acidize and frac in 76 stages. See detailed summary attached.						
28. PRODUCTION										
Date First Production 7/14/21		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing			Well Status (<i>Prod. or Shut-in</i>) Producing					
Date of Test 8/4/21	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 4399	Gas - MCF 8140	Water - Bbl. 4175	Gas - Oil Ratio 1850			
Flow Tubing Press. psi	Casing Pressure 907 psi	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) 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			
E-mail Address	Rebecca.Deal@dmr.com			Date	8/17/2021					

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/A	to.....	N/A	No. 3, from.....	N/A	to.....	N/A
No. 2, from.....	N/A	to.....	N/A	No. 4, from.....	N/A	to.....	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 42436

ACKNOWLEDGMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 42436
	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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CONDITIONS

Action 42436

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CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	10/6/2021