

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-43732	Pool Code 96689	Pool Name BRINNINSTOOL; WOLFCAMP WEST
Property Code	Property Name THISTLE UNIT	Well Number 121H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3724.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	23-S	33-E		438	NORTH	764	EAST	LEA

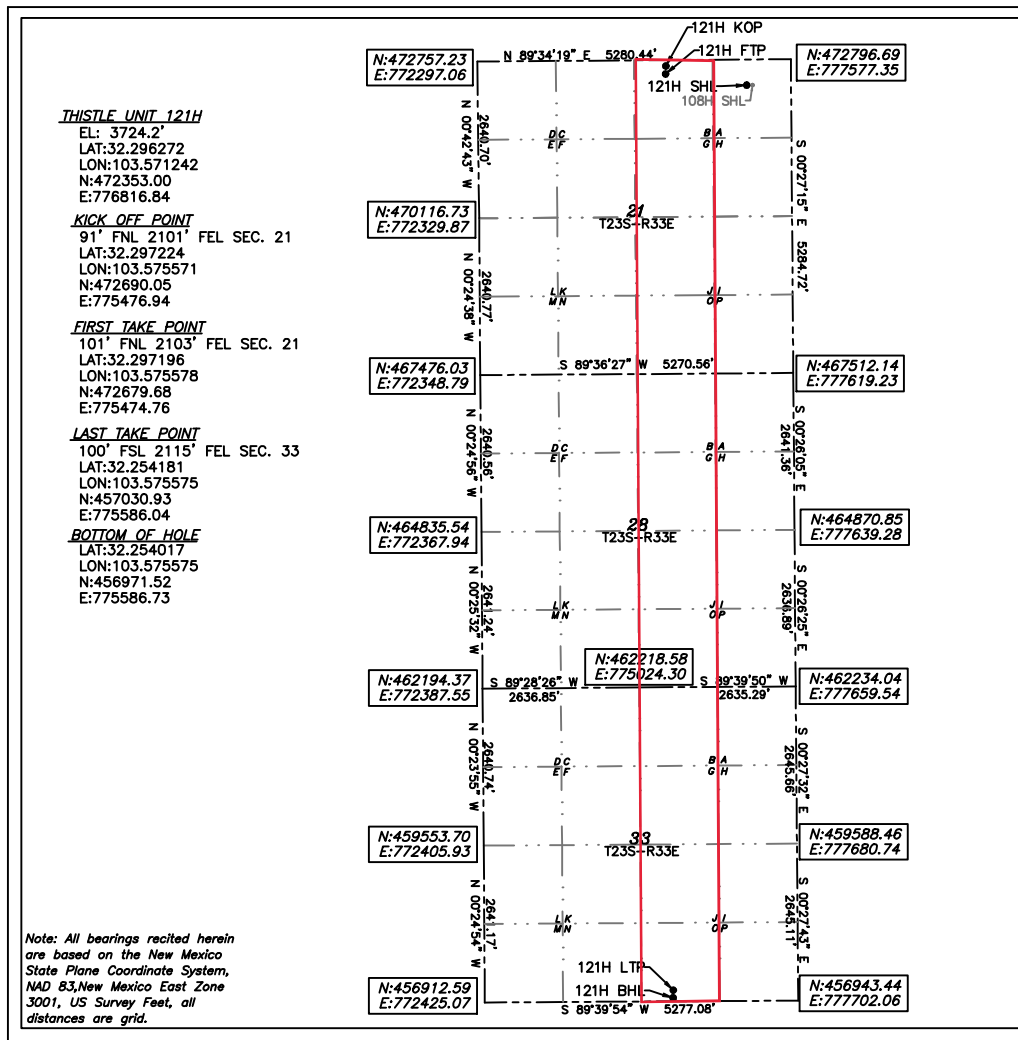
Bottom Hole Location If Different From Surface

SL

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	33	23-S	33-E		40	SOUTH	2115	EAST	LEA

Dedicated Acres 480	Joint or Infill	Consolidation Code	Order No.
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**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 8/25/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

March 24, 2020

Date of Survey

Signature & Seal of Professional Surveyor



08/25/20

Certificate No. 22404 B.L. LAMAN
W.O. # DRAWN BY: CM

Intent ☐ As Drilled ☒API #
30-025-43732

Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: THISTLE UNIT	Well Number 121H
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Kick Off Point (KOP)

UL B	Section 21	Township 23S	Range 33E	Lot	Feet 91	From N/S NORTH	Feet 2101	From E/W EAST	County LEA
Latitude 32.297224					Longitude 103.575571				NAD 83

First Take Point (FTP)

UL B	Section 21	Township 23S	Range 33E	Lot	Feet 101	From N/S NORTH	Feet 2103	From E/W EAST	County LEA
Latitude 32.297196					Longitude 103.575578				NAD 83

Last Take Point (LTP)

UL O	Section 33	Township 23S	Range 33E	Lot	Feet 100	From N/S SOUTH	Feet 2115	From E/W EAST	County LEA
Latitude 32.254181					Longitude 103.575575				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
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Devon Energy

Lea Co., NM (Nad83 - East Zone)

Thistle Unit

#121H

OH

Design: OH

End Of Well Report

24 March, 2020



Wellbenders

End Of Well Report

Company: Devon Energy Project: Lea Co., NM (Nad83 - East Zone) Site: Thistle Unit Well: #121H Wellbore: OH Design: OH	Local Co-ordinate Reference: Well #121H RKB=30' @ 3754.20usft (Cactus 108) RKB=30' @ 3754.20usft (Cactus 108) Grid Minimum Curvature WBDS_SQL_2
Project Lea Co., NM (Nad83 - East Zone)	
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone	System Datum: Mean Sea Level
Site Thistle Unit	
Site Position: From: Map Position Uncertainty: 0.00 usft	Northings: 472,353.22 usft Eastings: 776,846.84 usft Slot Radius: 13.200 in Latitude: 32.296272 Longitude: -103.571145 Grid Convergence: 0.407 °
Well #121H	
Well Position +N/-S 0.00 usft +E/-W 0.00 usft Position Uncertainty 0.00 usft	Latitude: 32.296272 Longitude: -103.571242 Ground Level: 3,724.20 usft
Wellbore OH	
Magnetics Model Name Sample Date 1/18/2020	Dip Angle (°) 60.095 Field Strength (nT) 47,712.37191422
Design OH	
Audit Notes: Version: 1.0	Phase: ACTUAL Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft) 0.00 +N/-S (usft) 0.00 +E/-W (usft) 0.00 Direction (°) 179.56
Survey Program From (usft) To (usft) Date 3/24/2020	Tool Name MWD+IGRF Description OWSG MWD + IGRF or WMM



Wellbenders

End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Thistle Unit
Well: #121H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: RKB=30' @ 3754.20ustf (Cactus 108)
MD Reference: RKB=30' @ 3754.20ustf (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey										
MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79.00	0.09	277.50	79.00	0.01	-0.06	-0.01	79.00	277.50	0.11	0.11
174.00	0.35	340.08	174.00	0.29	-0.23	-0.29	95.00	328.55	0.34	0.34
267.00	0.57	331.99	267.00	0.97	-0.55	-0.97	93.00	335.07	0.25	0.25
362.00	0.62	328.39	361.99	1.82	-1.04	-1.83	95.00	330.11	0.07	0.07
457.00	0.48	342.80	456.99	2.64	-1.43	-2.65	95.00	334.67	0.21	0.21
552.00	0.48	347.29	551.98	3.41	-1.63	-3.42	95.00	345.05	0.04	0.04
646.00	0.31	350.71	645.98	4.04	-1.76	-4.06	94.00	348.63	0.18	0.18
740.00	0.44	340.34	739.98	4.63	-1.92	-4.65	94.00	344.62	0.16	0.16
835.00	0.44	355.02	834.98	5.34	-2.08	-5.36	95.00	347.68	0.12	0.12
929.00	0.35	5.04	928.97	5.99	-2.08	-6.00	94.00	359.46	0.12	0.12
1,024.00	0.40	13.65	1,023.97	6.60	-1.98	-6.61	95.00	9.63	0.08	0.08
1,119.00	0.31	16.90	1,118.97	7.16	-1.83	-7.18	95.00	15.07	0.10	0.10
1,213.00	0.40	341.57	1,212.97	7.72	-1.86	-7.73	94.00	356.92	0.25	0.25
1,308.00	0.48	342.63	1,307.97	8.41	-2.08	-8.43	95.00	342.15	0.08	0.08
1,388.00	0.44	2.23	1,387.96	9.04	-2.17	-9.06	80.00	352.00	0.20	0.20
1,564.00	0.44	339.73	1,563.96	10.35	-2.38	-10.37	176.00	350.98	0.10	0.10
1,659.00	1.63	289.72	1,658.94	11.15	-3.77	-11.18	95.00	299.72	1.46	1.46
1,754.00	2.99	290.07	1,753.86	12.45	-7.37	-12.51	95.00	289.95	1.43	1.43
1,849.00	4.13	287.61	1,848.68	14.34	-12.96	-14.44	95.00	288.64	1.21	1.21
1,943.00	5.01	282.86	1,942.38	16.28	-20.19	-16.43	94.00	285.01	1.02	1.02
2,038.00	5.67	280.31	2,036.97	18.04	-28.85	-18.26	95.00	281.51	0.74	0.74
2,133.00	6.77	279.43	2,131.41	19.80	-38.99	-20.10	95.00	279.83	1.16	1.16
2,228.00	7.87	279.87	2,225.63	21.83	-50.92	-22.22	95.00	279.67	1.16	1.16
2,323.00	8.97	280.31	2,319.60	24.27	-64.62	-24.77	95.00	280.10	1.16	1.16
2,417.00	9.01	279.79	2,412.45	26.83	-79.08	-27.44	94.00	280.05	0.10	0.10
2,512.00	9.05	279.35	2,506.27	29.31	-93.78	-30.03	95.00	279.57	0.08	0.08



Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
	2,607.00	9.14	279.79	2,600.08	31.81	-108.59	-32.64	95.00	279.57	0.12
	2,702.00	9.05	279.87	2,693.88	34.37	-123.39	-35.32	95.00	279.83	0.10
	2,796.00	8.92	279.35	2,786.73	36.82	-137.86	-37.88	94.00	279.61	0.16
	2,891.00	8.84	279.08	2,880.59	39.17	-152.34	-40.34	95.00	279.22	0.09
	2,986.00	8.88	280.40	2,974.46	41.65	-166.76	-42.93	95.00	279.74	0.22
	3,080.00	8.62	279.52	3,067.36	44.12	-180.84	-45.51	94.00	279.97	0.31
	3,175.00	8.40	279.26	3,161.32	46.42	-194.71	-47.91	95.00	279.39	0.24
	3,269.00	8.09	279.87	3,254.35	48.66	-208.00	-50.25	94.00	279.56	0.34
	3,364.00	7.87	281.19	3,348.43	51.06	-220.97	-52.76	95.00	280.52	0.30
	3,460.00	7.74	282.07	3,443.54	53.69	-233.74	-55.48	96.00	281.63	0.18
	3,555.00	7.34	283.39	3,537.72	56.43	-245.90	-58.32	95.00	282.71	0.46
	3,650.00	6.86	284.97	3,631.99	59.31	-257.28	-61.28	95.00	284.15	0.55
	3,745.00	7.69	286.55	3,726.22	62.58	-268.86	-64.64	95.00	285.80	0.90
	3,839.00	8.70	289.63	3,819.26	66.76	-281.58	-68.92	94.00	288.18	1.17
	3,934.00	7.56	288.05	3,913.30	71.11	-294.29	-73.37	95.00	288.90	1.22
	4,030.00	8.13	284.80	4,008.41	74.80	-306.86	-77.16	96.00	286.37	0.75
	4,124.00	9.19	284.88	4,101.33	78.43	-320.54	-80.89	94.00	284.84	1.13
	4,220.00	8.53	285.41	4,196.19	82.29	-334.81	-84.86	96.00	285.14	0.69
	4,315.00	9.14	285.94	4,290.06	86.23	-348.86	-88.91	95.00	285.68	0.65
	4,410.00	8.53	285.67	4,383.93	90.21	-362.90	-92.99	95.00	285.81	0.64
	4,505.00	7.03	284.36	4,478.05	93.55	-375.32	-96.43	95.00	285.08	1.59
	4,600.00	8.44	286.11	4,572.19	96.93	-387.65	-99.90	95.00	285.31	1.50
	4,695.00	7.16	284.71	4,666.31	100.37	-400.07	-103.44	95.00	285.47	1.36
	4,789.00	7.43	275.13	4,759.55	102.40	-411.79	-105.56	94.00	279.83	1.32
	4,884.00	7.96	273.72	4,853.69	103.37	-424.47	-106.63	95.00	274.40	0.59
	4,979.00	8.79	276.80	4,947.68	104.66	-438.25	-108.02	95.00	275.34	0.99
	5,074.00	10.15	280.49	5,041.38	107.04	-453.68	-110.53	95.00	278.78	1.57



Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
	5,169.00	9.14	279.61	5,135.04	109.83	-469.35	-113.43	95.00	280.07	1.07
	5,263.00	7.74	277.76	5,228.02	111.93	-482.99	-115.63	94.00	278.76	1.52
	5,358.00	9.32	285.23	5,321.97	114.81	-496.75	-118.63	95.00	281.84	2.03
	5,453.00	11.60	288.49	5,415.39	119.86	-513.23	-123.80	95.00	287.04	2.48
	5,548.00	11.43	287.43	5,508.47	125.71	-531.27	-129.79	95.00	287.96	0.29
	5,643.00	11.08	286.73	5,601.65	131.16	-549.00	-135.37	95.00	287.09	0.40
	5,738.00	10.64	285.85	5,694.94	136.18	-566.17	-140.53	95.00	286.30	0.49
	5,833.00	10.59	285.23	5,788.32	140.87	-583.03	-145.35	95.00	285.54	0.13
	5,927.00	10.42	284.97	5,880.74	145.34	-599.58	-149.94	94.00	285.10	0.19
	6,022.00	10.07	283.92	5,974.23	149.55	-615.94	-154.28	95.00	284.45	0.42
	6,117.00	9.27	282.33	6,067.88	153.19	-631.48	-158.03	95.00	283.16	0.89
	6,211.00	8.75	280.75	6,160.72	156.14	-645.90	-161.09	94.00	281.56	0.61
	6,306.00	8.66	279.70	6,254.62	158.69	-660.05	-163.75	95.00	280.23	0.19
	6,402.00	8.35	279.17	6,349.57	161.02	-674.05	-166.19	96.00	279.44	0.33
	6,496.00	7.91	278.91	6,442.62	163.11	-687.18	-168.38	94.00	279.04	0.47
	6,592.00	8.66	280.75	6,537.62	165.48	-700.81	-170.86	96.00	279.87	0.83
	6,687.00	9.89	283.21	6,631.38	168.68	-715.78	-174.17	95.00	282.06	1.36
	6,782.00	9.45	282.86	6,725.03	172.28	-731.32	-177.89	95.00	283.04	0.47
	6,877.00	9.05	282.51	6,818.79	175.63	-746.22	-181.36	95.00	282.69	0.43
	6,971.00	8.48	282.25	6,911.69	178.70	-760.21	-184.54	94.00	282.38	0.61
	7,066.00	8.00	282.25	7,005.71	181.59	-773.52	-187.53	95.00	282.25	0.51
	7,161.00	7.60	282.51	7,099.83	184.36	-786.11	-190.39	95.00	282.38	0.42
	7,256.00	8.40	282.95	7,193.91	187.27	-799.01	-193.40	95.00	282.74	0.84
	7,352.00	9.41	282.95	7,288.75	190.60	-813.49	-196.84	96.00	282.95	1.05
	7,446.00	8.88	281.90	7,381.55	193.82	-828.08	-200.17	94.00	282.44	0.59
	7,541.00	8.40	280.75	7,475.48	196.63	-842.07	-203.09	95.00	281.34	0.54
	7,636.00	8.18	282.33	7,569.48	199.36	-855.49	-205.93	95.00	281.53	0.33



Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)	
7,731.00	7.78	282.51	7,663.56	202.20	-868.37	-208.86	95.00	282.42	0.42	
7,825.00	8.26	287.08	7,756.64	205.56	-881.04	-212.32	94.00	284.86	0.85	
7,920.00	8.97	288.49	7,850.57	209.91	-894.58	-216.78	95.00	287.81	0.78	
8,015.00	8.40	287.34	7,944.48	214.33	-908.23	-221.30	95.00	287.93	0.63	
8,110.00	7.87	285.67	8,038.53	218.16	-921.12	-225.22	95.00	286.53	0.61	
8,205.00	7.65	286.20	8,132.66	221.68	-933.45	-228.84	95.00	285.93	0.24	
8,300.00	7.30	286.73	8,226.85	225.18	-945.30	-232.43	95.00	286.46	0.38	
8,395.00	6.90	285.32	8,321.12	228.42	-956.59	-235.76	95.00	286.04	0.46	
8,490.00	7.25	286.38	8,415.40	231.62	-967.84	-239.05	95.00	285.86	0.39	
8,586.00	7.38	287.17	8,510.62	235.15	-979.54	-242.67	96.00	286.78	0.17	
8,681.00	6.90	285.85	8,604.88	238.51	-990.86	-246.11	95.00	286.53	0.53	
8,776.00	6.33	285.50	8,699.25	241.47	-1,001.40	-249.15	95.00	285.68	0.60	
8,872.00	5.85	284.71	8,794.70	244.12	-1,011.23	-251.88	96.00	285.12	0.51	
8,968.00	6.37	285.41	8,890.16	246.78	-1,021.10	-254.62	96.00	285.07	0.55	
9,062.00	7.12	283.56	8,983.51	249.53	-1,031.79	-257.45	94.00	284.43	0.83	
9,157.00	6.33	282.51	9,077.85	252.05	-1,042.62	-260.05	95.00	283.07	0.84	
9,252.00	5.85	280.58	9,172.32	254.07	-1,052.50	-262.15	95.00	281.58	0.55	
9,347.00	5.32	278.12	9,266.87	255.58	-1,061.62	-263.73	95.00	279.41	0.61	
9,442.00	4.53	273.46	9,361.51	256.43	-1,069.72	-264.64	95.00	275.98	0.93	
9,537.00	5.80	280.84	9,456.13	257.56	-1,078.18	-265.83	95.00	277.60	1.51	
9,632.00	6.15	280.40	9,550.61	259.38	-1,087.90	-267.73	95.00	280.61	0.37	
9,727.00	5.67	287.34	9,645.11	261.70	-1,097.38	-270.12	95.00	283.73	0.91	
9,822.00	5.71	292.71	9,739.64	264.92	-1,106.22	-273.41	95.00	290.03	0.56	
9,916.00	6.46	293.58	9,833.11	268.84	-1,115.38	-277.40	94.00	293.17	0.80	
10,011.00	7.78	292.71	9,927.38	273.46	-1,126.21	-282.10	95.00	293.10	1.39	
10,106.00	9.41	292.53	10,021.30	278.92	-1,139.32	-287.66	95.00	292.61	1.72	
10,201.00	9.14	293.06	10,115.06	284.85	-1,153.44	-293.70	95.00	292.79	0.30	



Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
	10,296.00	7.82	292.44	10,209.02	290.28	-1,166.35	-299.22	95.00	292.77	1.39
	10,391.00	7.82	293.67	10,303.14	295.34	-1,178.25	-304.38	95.00	293.06	0.18
	10,487.00	8.66	293.15	10,398.15	300.80	-1,190.87	-309.94	96.00	293.40	0.88
	10,582.00	8.66	291.56	10,492.06	306.24	-1,204.10	-315.48	95.00	292.36	0.25
	10,677.00	8.70	292.53	10,585.98	311.62	-1,217.39	-320.96	95.00	292.05	0.16
	10,772.00	8.09	293.85	10,679.96	317.08	-1,230.14	-326.52	95.00	293.17	0.67
	10,867.00	8.26	290.07	10,773.99	322.12	-1,242.66	-331.66	95.00	291.94	0.59
	10,963.00	8.26	288.14	10,869.00	326.64	-1,255.69	-336.27	96.00	289.11	0.29
	11,058.00	7.78	282.95	10,963.07	330.20	-1,268.44	-339.93	95.00	285.62	0.91
	11,152.00	6.86	284.62	11,056.30	333.05	-1,280.08	-342.87	94.00	283.73	1.00
	11,247.00	6.02	285.76	11,150.70	335.83	-1,290.36	-345.73	95.00	285.15	0.89
	11,342.00	5.41	283.65	11,245.23	338.24	-1,299.51	-348.21	95.00	284.76	0.68
	11,437.00	4.88	283.65	11,339.85	340.25	-1,307.79	-350.28	95.00	283.65	0.56
	11,532.00	3.52	282.16	11,434.59	341.82	-1,314.56	-351.90	95.00	283.03	1.44
	11,626.00	2.95	271.00	11,528.44	342.47	-1,319.80	-352.59	94.00	277.07	0.90
	11,721.00	2.59	264.58	11,623.33	342.31	-1,324.39	-352.47	95.00	268.00	0.50
	11,816.00	2.37	259.48	11,718.24	341.75	-1,328.45	-351.94	95.00	262.14	0.33
	11,891.00	2.51	260.80	11,793.17	341.20	-1,331.60	-351.42	75.00	260.16	0.20
	11,974.00	2.77	270.03	11,876.08	340.91	-1,335.40	-351.16	83.00	265.64	0.60
	12,006.00	2.81	269.68	11,908.05	340.91	-1,336.96	-351.17	32.00	269.85	0.14
	12,073.00	6.95	198.70	11,974.83	337.05	-1,339.90	-347.33	67.00	217.39	9.84
KOP @ 12073.00' MD 90.25' FNL/2101.32' FEL SEC 21										
	12,101.00	9.54	191.98	12,002.54	333.18	-1,340.93	-343.46	28.00	194.82	9.84
	12,133.60	13.82	188.69	12,034.46	326.68	-1,342.08	-336.98	32.60	190.04	13.29
FTP @ 12133.60' MD 100' FNL/2103.35' FEL SEC 21										
	12,196.00	22.07	185.92	12,093.77	307.62	-1,344.42	-317.94	62.40	187.00	13.29
	12,291.00	29.32	180.73	12,179.33	266.55	-1,346.56	-276.88	95.00	182.98	7.98



Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
	12,387.00	39.87	182.84	12,258.25	212.16	-1,348.39	-222.51	96.00	181.93	11.06
	12,481.00	52.35	178.62	12,323.30	144.58	-1,348.99	-154.94	94.00	180.51	13.66
	12,576.00	61.98	175.37	12,374.76	64.99	-1,344.68	-75.31	95.00	176.91	10.53
	12,671.00	72.04	178.71	12,411.83	-22.23	-1,340.27	11.94	95.00	177.10	11.07
	12,763.00	83.65	181.35	12,431.17	-112.00	-1,340.36	101.71	92.00	180.06	12.93
	12,857.00	88.00	180.91	12,438.01	-205.71	-1,342.21	195.40	94.00	181.13	4.65
	12,953.00	88.18	179.59	12,441.21	-301.66	-1,342.63	291.34	96.00	180.25	1.39
	13,048.00	88.22	179.59	12,444.20	-396.61	-1,341.95	386.29	95.00	179.59	0.04
	13,142.00	89.14	179.33	12,446.36	-490.58	-1,341.06	480.26	94.00	179.46	1.02
	13,237.00	89.89	179.06	12,447.17	-585.56	-1,339.73	575.26	95.00	179.19	0.84
	13,331.00	90.24	179.15	12,447.06	-679.55	-1,338.26	669.25	94.00	179.10	0.38
	13,427.00	90.15	179.15	12,446.73	-775.54	-1,336.84	765.25	96.00	179.15	0.09
	13,521.00	90.15	178.80	12,446.49	-869.53	-1,335.15	859.25	94.00	178.97	0.37
	13,617.00	89.93	178.27	12,446.42	-965.49	-1,332.70	955.23	96.00	178.53	0.60
	13,712.00	89.98	178.27	12,446.50	-1,060.45	-1,329.83	1,050.21	95.00	178.27	0.05
	13,807.00	89.63	177.57	12,446.82	-1,155.39	-1,326.38	1,145.17	95.00	177.92	0.82
	13,902.00	89.10	176.69	12,447.87	-1,250.26	-1,321.63	1,240.07	95.00	177.13	1.08
	13,998.00	90.02	177.66	12,448.61	-1,346.14	-1,316.90	1,335.99	96.00	177.18	1.39
	14,093.00	91.21	178.01	12,447.59	-1,441.06	-1,313.31	1,430.94	95.00	177.83	1.31
	14,189.00	90.68	177.57	12,446.01	-1,536.98	-1,309.61	1,526.88	96.00	177.79	0.72
	14,285.00	90.86	177.39	12,444.72	-1,632.88	-1,305.39	1,622.80	96.00	177.48	0.27
	14,381.00	88.84	178.27	12,444.97	-1,728.80	-1,301.75	1,718.75	96.00	177.83	2.30
	14,476.00	87.47	178.36	12,448.03	-1,823.71	-1,298.96	1,813.68	95.00	178.31	1.45
	14,572.00	87.34	178.71	12,452.37	-1,919.58	-1,296.51	1,909.57	96.00	178.53	0.39
	14,668.00	86.95	178.27	12,457.15	-2,015.43	-1,293.98	2,005.43	96.00	178.49	0.61
	14,763.00	89.05	179.15	12,460.47	-2,110.34	-1,291.84	2,100.36	95.00	178.71	2.40
	14,859.00	88.88	179.68	12,462.20	-2,206.32	-1,290.86	2,196.34	96.00	179.41	0.58



Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
14,955.00	87.91	179.85	12,464.89	-2,302.28	-1,290.47	2,292.30	96.00	179.76	1.03
15,050.00	87.08	179.59	12,469.04	-2,397.18	-1,290.01	2,387.21	95.00	179.72	0.92
15,146.00	86.55	179.68	12,474.38	-2,493.03	-1,289.40	2,483.06	96.00	179.63	0.56
15,242.00	87.69	179.68	12,479.20	-2,588.91	-1,288.86	2,578.94	96.00	179.68	1.19
15,338.00	87.87	179.59	12,482.92	-2,684.84	-1,288.25	2,674.86	96.00	179.63	0.21
15,433.00	87.60	178.71	12,486.67	-2,779.75	-1,286.84	2,769.79	95.00	179.15	0.97
15,528.00	88.88	178.54	12,489.59	-2,874.68	-1,284.56	2,864.73	95.00	178.62	1.36
15,623.00	88.97	178.18	12,491.37	-2,969.62	-1,281.84	2,959.69	95.00	178.36	0.39
15,718.00	89.23	176.51	12,492.87	-3,064.50	-1,277.44	3,054.60	95.00	177.34	1.78
15,813.00	91.25	179.33	12,492.47	-3,159.42	-1,274.00	3,149.55	95.00	177.92	3.65
15,908.00	92.26	179.59	12,489.56	-3,254.37	-1,273.10	3,244.50	95.00	179.46	1.10
16,003.00	92.92	180.82	12,485.27	-3,349.27	-1,273.44	3,339.40	95.00	180.20	1.47
16,097.00	92.22	181.17	12,481.05	-3,443.17	-1,275.07	3,433.27	94.00	181.00	0.83
16,192.00	91.74	182.67	12,477.77	-3,538.05	-1,278.25	3,528.13	95.00	181.92	1.66
16,287.00	91.12	182.31	12,475.40	-3,632.93	-1,282.38	3,622.98	95.00	182.49	0.75
16,382.00	89.67	181.61	12,474.74	-3,727.87	-1,285.63	3,717.89	95.00	181.96	1.69
16,477.00	89.10	180.65	12,475.76	-3,822.85	-1,287.50	3,812.85	95.00	181.13	1.18
16,572.00	87.82	180.73	12,478.32	-3,917.80	-1,288.64	3,907.79	95.00	180.69	1.35
16,666.00	87.91	182.67	12,481.82	-4,011.69	-1,291.43	4,001.66	94.00	181.70	2.06
16,762.00	87.60	181.96	12,485.58	-4,107.54	-1,295.31	4,097.47	96.00	182.32	0.81
16,857.00	86.73	180.91	12,490.28	-4,202.39	-1,297.68	4,192.30	95.00	181.44	1.43
16,951.00	88.18	180.03	12,494.45	-4,296.29	-1,298.45	4,286.19	94.00	180.47	1.80
17,046.00	87.60	179.41	12,497.95	-4,391.22	-1,297.99	4,381.13	95.00	179.72	0.89
17,141.00	89.01	178.80	12,500.76	-4,486.17	-1,296.51	4,476.08	95.00	179.10	1.62
17,236.00	89.93	178.71	12,501.64	-4,581.14	-1,294.44	4,571.07	95.00	178.75	0.97
17,331.00	90.51	179.50	12,501.27	-4,676.13	-1,292.96	4,666.06	95.00	179.10	1.03
17,426.00	90.59	178.89	12,500.36	-4,771.11	-1,291.62	4,761.05	95.00	179.20	0.65



Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
17,510.12	90.44	178.26	12,499.61	-4,855.20	-1,289.53	4,845.16	84.12	178.58	0.77
SEC XING @ 17510.12' MD 0' FNL/2091.90' FEL SEC 28									
17,521.00	90.42	178.18	12,499.52	-4,866.08	-1,289.19	4,856.03	10.88	178.22	0.77
17,616.00	90.55	178.27	12,498.72	-4,961.03	-1,286.25	4,951.01	95.00	178.22	0.17
17,710.00	90.81	177.92	12,497.60	-5,054.97	-1,283.13	5,044.97	94.00	178.10	0.46
17,805.00	90.68	177.39	12,496.37	-5,149.88	-1,279.24	5,139.91	95.00	177.65	0.57
17,918.00	88.84	178.62	12,496.84	-5,262.81	-1,275.31	5,252.86	113.00	178.00	1.96
18,013.00	88.31	178.01	12,499.20	-5,357.73	-1,272.51	5,347.80	95.00	178.32	0.85
18,108.00	88.26	177.57	12,502.05	-5,452.62	-1,268.85	5,442.72	95.00	177.79	0.47
18,203.00	87.78	178.36	12,505.33	-5,547.50	-1,265.48	5,537.62	95.00	177.96	0.97
18,298.00	86.81	175.81	12,509.81	-5,642.27	-1,260.66	5,632.42	95.00	177.09	2.87
18,393.00	88.22	177.83	12,513.93	-5,737.02	-1,255.39	5,727.21	95.00	176.82	2.59
18,487.00	89.23	179.77	12,516.03	-5,830.97	-1,253.43	5,821.18	94.00	178.80	2.33
18,582.00	88.75	179.41	12,517.70	-5,925.96	-1,252.75	5,916.16	95.00	179.59	0.63
18,677.00	87.65	178.71	12,520.68	-6,020.89	-1,251.19	6,011.11	95.00	179.06	1.37
18,772.00	89.01	179.33	12,523.45	-6,115.84	-1,249.56	6,106.06	95.00	179.02	1.57
18,867.00	89.45	178.89	12,524.73	-6,210.82	-1,248.09	6,201.05	95.00	179.11	0.65
18,963.00	87.69	177.31	12,527.12	-6,306.73	-1,244.91	6,296.98	96.00	178.10	2.46
19,058.00	91.03	179.33	12,528.19	-6,401.66	-1,242.12	6,391.94	95.00	178.32	4.11
19,153.00	91.56	180.21	12,526.04	-6,496.64	-1,241.74	6,486.91	95.00	179.77	1.08
19,249.00	90.64	178.89	12,524.20	-6,592.61	-1,240.99	6,582.89	96.00	179.55	1.68
19,344.00	90.15	176.69	12,523.54	-6,687.53	-1,237.33	6,677.83	95.00	177.79	2.37
19,439.00	88.57	174.40	12,524.60	-6,782.23	-1,229.95	6,772.59	95.00	175.55	2.93
19,534.00	89.98	174.49	12,525.80	-6,876.78	-1,220.75	6,867.20	95.00	174.45	1.49
19,629.00	89.98	174.14	12,525.84	-6,971.31	-1,211.34	6,961.80	95.00	174.31	0.37
19,724.00	87.65	175.37	12,527.80	-7,065.88	-1,202.66	7,056.44	95.00	174.75	2.77
19,819.00	89.54	178.18	12,530.13	-7,160.69	-1,197.32	7,151.28	95.00	176.78	3.56



End Of Well Report

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Wellbenders

End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20ustf (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	CL (ustf)	CL Azi (°)	DLeg (°/100ft)
22,501.00	90.51	177.39	12,596.37	-9,836.37	-1,254.84	9,826.44	95.00	177.57	0.41
22,596.00	90.55	177.48	12,595.49	-9,931.27	-1,250.59	9,921.37	95.00	177.43	0.10
22,691.00	90.68	177.13	12,594.47	-10,026.16	-1,246.12	10,016.29	95.00	177.31	0.39
22,786.00	90.73	176.95	12,593.31	-10,121.03	-1,241.22	10,111.19	95.00	177.04	0.20
22,796.17	90.74	176.95	12,593.18	-10,131.18	-1,240.68	10,121.35	10.17	176.95	0.08
SEC XING @ 22796.17' MD 0' FNL/2083.45' FEL SEC 33									
22,881.00	90.81	176.95	12,592.03	-10,215.88	-1,236.16	10,206.09	84.83	176.95	0.08
22,976.00	91.03	176.87	12,590.50	-10,310.73	-1,231.04	10,300.97	95.00	176.91	0.25
23,072.00	90.15	179.41	12,589.52	-10,406.67	-1,227.93	10,396.93	96.00	178.14	2.80
23,167.00	89.67	179.50	12,589.66	-10,501.66	-1,227.02	10,491.93	95.00	179.45	0.51
23,262.00	89.67	179.15	12,590.21	-10,596.65	-1,225.90	10,586.93	95.00	179.32	0.37
23,357.00	89.58	178.98	12,590.83	-10,691.64	-1,224.35	10,681.92	95.00	179.07	0.20
23,453.00	89.58	179.15	12,591.54	-10,787.62	-1,222.79	10,777.92	96.00	179.06	0.18
23,548.00	89.49	178.98	12,592.31	-10,882.61	-1,221.24	10,872.91	95.00	179.07	0.20
23,643.00	88.92	178.80	12,593.63	-10,977.58	-1,219.40	10,967.89	95.00	178.89	0.63
23,738.00	88.57	178.54	12,595.71	-11,072.53	-1,217.19	11,062.86	95.00	178.67	0.46
23,833.00	90.02	179.06	12,596.88	-11,167.50	-1,215.20	11,157.84	95.00	178.80	1.62
23,927.00	90.02	179.41	12,596.84	-11,261.49	-1,213.95	11,251.84	94.00	179.24	0.37
24,022.00	89.63	178.98	12,597.13	-11,356.48	-1,212.61	11,346.84	95.00	179.20	0.61
24,117.00	89.54	178.98	12,597.82	-11,451.46	-1,210.92	11,441.83	95.00	178.98	0.09
24,212.00	89.14	178.27	12,598.92	-11,546.43	-1,208.64	11,536.81	95.00	178.63	0.86
24,307.00	90.33	180.21	12,599.35	-11,641.41	-1,207.38	11,631.80	95.00	179.24	2.40
24,402.00	90.29	179.94	12,598.84	-11,736.41	-1,207.51	11,726.79	95.00	180.07	0.29
24,497.00	89.80	179.68	12,598.77	-11,831.41	-1,207.19	11,821.79	95.00	179.81	0.58
24,592.00	90.02	179.33	12,598.92	-11,926.41	-1,206.37	11,916.79	95.00	179.50	0.44
24,687.00	90.02	179.24	12,598.88	-12,021.40	-1,205.19	12,011.79	95.00	179.28	0.09
24,781.00	89.93	178.80	12,598.92	-12,115.39	-1,203.58	12,105.79	94.00	179.02	0.48



End Of Well Report

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Wellbenders
End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #121H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3754.20usft (Cactus 108)
Site:	Thistle Unit	MD Reference:	RKB=30' @ 3754.20usft (Cactus 108)
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
27,439.00	89.45	180.12	12,603.68	-14,772.54	-1,231.12	14,762.65	95.00	179.85	0.57
27,534.00	89.63	179.94	12,604.44	-14,867.53	-1,231.17	14,857.64	95.00	180.03	0.27
27,629.00	89.36	180.03	12,605.28	-14,962.53	-1,231.15	14,952.64	95.00	179.98	0.30
27,724.00	89.49	180.21	12,606.23	-15,057.53	-1,231.35	15,047.63	95.00	180.12	0.23
27,818.00	89.23	180.12	12,607.28	-15,151.52	-1,231.62	15,141.61	94.00	180.17	0.29
27,913.00	89.01	179.68	12,608.74	-15,246.51	-1,231.45	15,236.60	95.00	179.90	0.52
27,988.58	88.84	179.34	12,610.15	-15,322.07	-1,230.80	15,312.17	75.58	179.51	0.51
LTP @ 27988.58' MD 100' FSL/2115.20' FEL SEC 33									
27,990.00	88.84	179.33	12,610.18	-15,323.49	-1,230.78	15,313.59	1.42	179.33	0.51
28,048.00	88.84	179.33	12,611.36	-15,381.48	-1,230.11	15,371.58	58.00	179.33	0.00
BHL @ 28048.00' MD 40.57' FSL/2115.02' FEL SEC 33									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
12,073.00	11,974.83	337.05	-1,339.90	KOP @ 12073.00' MD 90.25' FNL/2101.32' FEL SEC 21
12,133.60	12,034.46	326.68	-1,342.08	FTP @ 12133.60' MD 100' FNL/2103.35' FEL SEC 21
17,510.12	12,499.61	-4,855.20	-1,289.53	SEC XING @ 17510.12' MD 0' FNL/2091.90' FEL SEC 28
22,796.17	12,593.18	-10,131.18	-1,240.68	SEC XING @ 22796.17' MD 0' FNL/2083.45' FEL SEC 33
27,988.58	12,610.15	-15,322.07	-1,230.80	LTP @ 27988.58' MD 100' FSL/2115.20' FEL SEC 33
28,048.00	12,611.36	-15,381.48	-1,230.11	BHL @ 28048.00' MD 40.57' FSL/2115.02' FEL SEC 33

Checked By: _____

Approved By: _____

Date: _____



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **02/12/20** thru **03/23/20** conduct or supervise the taking of a **MWD Survey** from a depth of **79'** to a depth of **28048'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Thistle Unit #121H** API No. **30-025-43732** in **Lea County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright