

Devon Energy

Lea County, NM (NAD83 NME)

Flagler 8 Federal

12H

OH

Survey: SDI Survey #1

HOBBS OCD
MAY 16 2019
RECEIVED

Regulatory Report (Grid North)

26 April, 2019

This survey is correct to the best of my knowledge and is supported by actual field data.

HOUSEYMAN SAUGHOTT

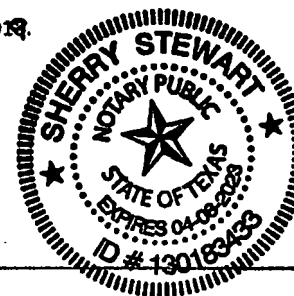
Notarized this date 30th of April, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



Scientific Drilling, Intl
Regulatory Report (Grid North)

Company:	Devon Energy	Local Co-ordinate Reference:	Well 12H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 33' @ 3471.00usft (Nabors X15)
Site:	Flagler 8 Federal	MD Reference:	KB = 33' @ 3471.00usft (Nabors X15)
Well:	12H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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

Site	Flagler 8 Federal		
Site Position:		Northing:	414,857.70 usft
From:	Map	Easting:	770,963.69 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 18.055 N
		Longitude:	103° 35' 29.285 W
		Grid Convergence:	0.39 °

Well	12H		
Well Position	+N/-S	0.00 usft	Northing: 414,858.09 usft
	+E/-W	0.00 usft	Easting: 771,023.67 usft
Position Uncertainty	0.00 usft		Wellhead Elevation: 0.00 usft
			Latitude: 32° 8' 18.054 N
			Longitude: 103° 35' 28.588 W
			Ground Level: 3,438.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	10/10/2018	6.72
			Dip Angle (°) 59.78
			Field Strength (nT) 47,879

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (bearing) 359.37

Survey Program	Date	1/2/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
181.00	17,398.00	SDI Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM

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Design: OH

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MD Reference: KB = 33' @ 3471.00usft (Nabors X15)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181.00	0.23	173.39	181.00	-0.36	-0.36	0.04	0.13	173.39	0.36
272.00	0.35	229.43	272.00	-0.72	-0.72	-0.15	0.32	191.59	0.74
365.00	0.20	230.28	365.00	-1.01	-1.01	-0.49	0.16	205.80	1.12
457.00	0.26	219.84	457.00	-1.27	-1.27	-0.75	0.08	210.35	1.48
551.00	0.72	210.48	550.99	-1.93	-1.95	-1.18	0.50	211.27	2.28
644.00	0.47	173.26	643.99	-2.81	-2.83	-1.43	0.48	206.88	3.17
735.00	0.74	213.02	734.98	-3.67	-3.69	-1.71	0.53	204.85	4.07
826.00	0.74	219.58	825.98	-4.61	-4.64	-2.41	0.09	207.41	5.22
919.00	0.74	211.87	918.97	-5.58	-5.61	-3.10	0.11	208.96	6.41
1,010.00	0.62	208.00	1,009.96	-6.50	-6.55	-3.65	0.14	209.12	7.49
1,103.00	0.66	213.19	1,102.96	-7.39	-7.44	-4.18	0.08	209.31	8.53
1,245.00	0.45	211.71	1,244.95	-8.54	-8.60	-4.92	0.15	209.77	9.90
1,338.00	0.72	219.00	1,337.94	-9.30	-9.36	-5.48	0.30	210.33	10.85
1,430.00	0.60	234.08	1,429.94	-10.02	-10.09	-6.23	0.23	211.68	11.86
1,523.00	0.83	222.40	1,522.93	-10.80	-10.88	-7.08	0.29	213.06	12.98
1,618.00	0.83	239.84	1,617.92	-11.64	-11.73	-8.14	0.26	214.75	14.28
1,712.00	0.68	236.56	1,711.91	-12.28	-12.38	-9.19	0.17	216.59	15.42
1,805.00	0.53	252.01	1,804.91	-12.71	-12.82	-10.06	0.24	218.13	16.29
1,898.00	0.70	269.59	1,897.90	-12.83	-12.95	-11.04	0.27	220.44	17.02
1,992.00	0.61	296.31	1,991.90	-12.60	-12.74	-12.06	0.34	223.44	17.54
2,087.00	0.44	290.32	2,086.89	-12.24	-12.38	-12.86	0.19	226.07	17.85
2,180.00	0.71	305.21	2,179.89	-11.78	-11.93	-13.66	0.33	228.88	18.14
2,274.00	0.54	295.09	2,273.88	-11.24	-11.41	-14.54	0.21	231.89	18.48
2,367.00	0.69	295.90	2,366.88	-10.80	-10.97	-15.44	0.16	234.59	18.94
2,461.00	0.82	316.27	2,460.87	-10.06	-10.24	-16.41	0.31	238.04	19.35
2,556.00	0.80	309.72	2,555.86	-9.13	-9.33	-17.39	0.10	241.80	19.74

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Regulatory Report (Grid North)

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Site: Flagler 8 Federal
Well: 12H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 12H
TVD Reference: KB = 33' @ 3471.00usft (Nabors X15)
MD Reference: KB = 33' @ 3471.00usft (Nabors X15)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)
2,650.00	0.98	307.15	2,649.85	-8.22	-8.42	-18.54	0.20	245.57	20.36
2,744.00	1.01	306.02	2,743.83	-7.23	-7.45	-19.85	0.04	249.43	21.20
2,837.00	1.02	309.36	2,836.82	-6.21	-6.44	-21.15	0.06	253.06	22.11
2,931.00	0.66	354.94	2,930.81	-5.13	-5.37	-21.85	0.78	256.19	22.50
3,025.00	1.73	73.27	3,024.79	-4.20	-4.42	-20.54	1.83	257.84	21.01
3,119.00	3.26	92.39	3,118.70	-3.95	-4.13	-16.51	1.83	255.96	17.02
3,213.00	5.08	94.47	3,212.45	-4.46	-4.56	-9.69	1.94	244.78	10.71
3,306.00	6.31	96.58	3,304.99	-5.46	-5.47	-0.50	1.34	185.27	5.49
3,400.00	8.74	91.39	3,398.17	-6.36	-6.23	11.77	2.68	117.91	13.32
3,493.00	10.84	87.51	3,489.81	-6.33	-6.03	27.57	2.37	102.33	28.22
3,587.00	10.61	86.16	3,582.17	-5.56	-5.06	45.04	0.36	96.41	45.32
3,682.00	10.32	84.80	3,675.59	-4.39	-3.71	62.24	0.40	93.41	62.35
3,776.00	10.07	83.24	3,768.11	-2.84	-1.98	78.78	0.40	91.44	78.81
3,870.00	9.80	82.47	3,860.68	-0.99	0.05	94.95	0.23	89.97	94.95
3,964.00	9.37	80.71	3,953.36	1.13	2.35	110.52	0.65	88.78	110.54
4,058.00	8.70	79.36	4,046.19	3.52	4.89	125.06	0.75	87.76	125.15
4,152.00	8.29	75.77	4,139.16	6.35	7.87	138.61	0.71	86.75	138.84
4,245.00	8.29	72.10	4,231.19	9.91	11.58	151.49	0.57	85.63	151.93
4,338.00	9.83	78.97	4,323.03	13.34	15.16	165.66	2.02	84.77	166.36
4,433.00	11.94	81.34	4,416.32	16.17	18.19	183.34	2.27	84.33	184.24
4,526.00	11.23	80.13	4,507.42	18.97	21.19	201.77	0.81	84.00	202.88
4,621.00	10.60	86.27	4,600.70	20.93	23.35	219.61	1.39	83.93	220.85
4,713.00	10.45	89.67	4,691.16	21.34	23.95	236.39	0.69	84.22	237.60
4,808.00	10.38	91.45	4,784.59	20.99	23.78	253.57	0.35	84.64	254.68
4,902.00	10.92	98.56	4,876.98	19.26	22.24	270.84	1.51	85.31	271.75
4,997.00	10.62	100.82	4,970.30	16.08	19.26	288.33	0.55	86.18	288.98
5,091.00	9.64	98.95	5,062.84	13.06	16.41	304.62	1.10	86.92	305.06

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Local Co-ordinate Reference: Well 12H
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Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)
5,184.00	9.54	97.79	5,154.54	10.63	14.15	319.94	0.23	87.47	320.26
5,278.00	9.39	97.63	5,247.26	8.39	12.08	335.26	0.16	87.94	335.48
5,373.00	9.12	97.96	5,341.02	6.15	10.00	350.40	0.29	88.36	350.54
5,467.00	9.23	98.65	5,433.82	3.82	7.84	365.23	0.17	88.77	365.31
5,561.00	8.75	97.68	5,526.66	1.57	5.75	379.77	0.54	89.13	379.81
5,654.00	8.69	97.31	5,618.59	-0.42	3.91	393.75	0.09	89.43	393.77
5,749.00	8.72	94.49	5,712.50	-2.05	2.43	408.05	0.45	89.66	408.05
5,843.00	8.64	93.71	5,805.42	-3.22	1.42	422.19	0.15	89.81	422.20
5,937.00	8.49	94.37	5,898.37	-4.36	0.43	436.16	0.19	89.94	436.16
6,030.00	8.02	98.08	5,990.41	-5.94	-1.00	449.43	0.76	90.13	449.43
6,124.00	8.00	103.53	6,083.49	-8.54	-3.45	462.28	0.81	90.43	462.29
6,219.00	7.80	103.49	6,177.59	-11.73	-6.50	474.98	0.21	90.78	475.02
6,313.00	7.80	102.99	6,270.72	-14.78	-9.43	487.39	0.07	91.11	487.49
6,407.00	7.69	101.63	6,363.86	-17.62	-12.13	499.77	0.23	91.39	499.92
6,499.00	7.75	100.14	6,455.03	-20.09	-14.46	511.90	0.23	91.62	512.11
6,594.00	7.78	101.41	6,549.16	-22.63	-16.86	524.51	0.18	91.84	524.78
6,687.00	8.11	101.00	6,641.27	-25.26	-19.36	537.12	0.36	92.06	537.47
6,781.00	7.85	101.16	6,734.35	-27.91	-21.87	549.93	0.28	92.28	550.36
6,876.00	7.21	99.99	6,828.54	-30.33	-24.16	562.17	0.69	92.46	562.68
6,970.00	7.68	99.02	6,921.74	-32.48	-26.16	574.18	0.52	92.61	574.77
7,064.00	7.87	97.77	7,014.88	-34.47	-28.02	586.76	0.27	92.73	587.43
7,158.00	7.63	98.64	7,108.02	-36.41	-29.83	599.30	0.28	92.85	600.05
7,252.00	7.21	99.08	7,201.23	-38.41	-31.69	611.30	0.45	92.97	612.12
7,345.00	6.95	100.03	7,293.52	-40.44	-33.60	622.60	0.31	93.09	623.51
7,438.00	6.50	100.17	7,385.88	-42.47	-35.50	633.32	0.48	93.21	634.32
7,533.00	6.58	99.83	7,480.26	-44.46	-37.38	643.98	0.09	93.32	645.06
7,627.00	6.39	99.94	7,573.66	-46.40	-39.21	654.44	0.20	93.43	655.61

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7,722.00	6.11	98.89	7,668.10	-48.20	-40.80	664.64	0.32	93.52	665.90
7,816.00	5.72	97.07	7,761.60	-49.66	-42.25	674.23	0.46	93.59	675.56
7,909.00	5.34	95.09	7,854.17	-50.71	-43.20	683.14	0.46	93.62	684.51
8,003.00	4.96	95.27	7,947.79	-51.57	-43.96	691.55	0.40	93.64	692.94
8,096.00	4.57	95.75	8,040.46	-52.39	-44.71	699.24	0.42	93.66	700.66
8,190.00	4.30	94.73	8,134.18	-53.14	-45.37	706.47	0.30	93.67	707.93
8,283.00	4.08	94.10	8,226.93	-53.73	-45.90	713.25	0.24	93.68	714.72
8,377.00	3.82	92.91	8,320.71	-54.20	-46.29	719.71	0.29	93.68	721.20
8,470.00	3.55	93.52	8,413.52	-54.60	-46.63	725.68	0.29	93.68	727.18
8,563.00	3.47	94.91	8,506.34	-55.08	-47.04	731.36	0.13	93.68	732.87
8,658.00	3.22	95.68	8,601.18	-55.65	-47.55	736.88	0.27	93.69	738.41
8,752.00	2.69	104.67	8,695.06	-56.53	-48.37	741.64	0.75	93.73	743.21
8,845.00	1.95	136.27	8,787.98	-58.26	-50.07	744.84	1.56	93.85	746.52
8,939.00	1.81	140.26	8,881.93	-60.58	-52.37	746.90	0.20	94.01	748.73
9,033.00	1.68	141.73	8,975.89	-62.82	-54.59	748.70	0.15	94.17	750.69
9,127.00	1.56	146.81	9,069.85	-64.99	-56.74	750.25	0.20	94.33	752.40
9,221.00	1.40	148.80	9,163.82	-67.06	-58.80	751.55	0.18	94.47	753.85
9,314.00	1.19	160.86	9,256.80	-68.95	-60.68	752.45	0.37	94.61	754.90
9,408.00	1.05	165.20	9,350.78	-70.71	-62.44	752.99	0.17	94.74	755.58
9,503.00	0.88	187.61	9,445.77	-72.28	-64.00	753.12	0.43	94.86	755.83
9,596.00	0.75	204.71	9,538.76	-73.53	-65.26	752.77	0.29	94.95	755.59
9,690.00	0.93	207.99	9,632.75	-74.76	-66.49	752.16	0.20	95.05	755.09
9,784.00	1.16	209.24	9,726.73	-76.25	-68.00	751.33	0.25	95.17	754.40
9,878.00	1.14	212.19	9,820.71	-77.87	-69.62	750.37	0.07	95.30	753.59
9,973.00	1.07	221.84	9,915.69	-79.31	-71.08	749.27	0.21	95.42	752.64
10,067.00	1.18	220.81	10,009.68	-80.69	-72.47	748.06	0.12	95.53	751.56
10,160.00	1.26	231.31	10,102.66	-82.04	-73.83	746.63	0.25	95.65	750.27

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10,254.00	1.41	231.21	10,196.63	-83.39	-75.20	744.92	0.16	95.76	748.71
10,348.00	1.30	233.15	10,290.60	-84.73	-76.57	743.17	0.13	95.88	747.10
10,442.00	1.10	235.84	10,384.58	-85.86	-77.71	741.57	0.22	95.98	745.63
10,536.00	1.14	251.11	10,478.56	-86.65	-78.52	739.94	0.32	96.06	744.09
10,630.00	0.91	257.74	10,572.55	-87.10	-78.98	738.32	0.27	96.11	742.54
10,724.00	1.23	273.47	10,666.53	-87.17	-79.08	736.59	0.46	96.13	740.82
10,818.00	1.30	282.40	10,760.51	-86.86	-78.79	734.54	0.22	96.12	738.75
10,912.00	1.38	281.45	10,854.48	-86.38	-78.34	732.39	0.09	96.11	736.57
11,006.00	1.76	290.69	10,948.45	-85.62	-77.60	729.93	0.48	96.07	734.04
11,100.00	1.90	289.72	11,042.40	-84.56	-76.56	727.11	0.15	96.01	731.13
11,194.00	1.69	288.30	11,136.36	-83.56	-75.60	724.33	0.23	95.96	728.26
11,289.00	1.41	279.53	11,231.32	-82.90	-74.97	721.85	0.39	95.93	725.73
11,383.00	1.38	270.98	11,325.29	-82.67	-74.76	719.57	0.22	95.93	723.45
11,477.00	1.59	269.95	11,419.26	-82.62	-74.74	717.14	0.23	95.95	721.02
11,571.00	1.38	266.12	11,513.23	-82.67	-74.82	714.70	0.25	95.98	718.61
11,665.00	0.99	291.49	11,607.21	-82.43	-74.60	712.82	0.69	95.97	716.71
11,760.00	1.02	287.04	11,702.20	-81.87	-74.05	711.25	0.09	95.94	715.09
11,834.00	1.51	305.63	11,776.18	-81.09	-73.29	709.82	0.86	95.89	713.60
11,908.00	1.51	302.21	11,851.15	-79.97	-72.19	708.19	0.12	95.82	711.86
11,987.00	3.61	345.48	11,929.08	-77.03	-69.26	706.70	3.48	95.60	710.09
12,082.00	14.72	4.17	12,022.73	-62.05	-54.28	706.83	11.96	94.39	708.91
12,176.00	29.87	0.31	12,109.45	-26.53	-18.75	707.83	16.18	91.52	708.08
12,271.00	43.87	2.21	12,185.27	30.28	38.08	709.23	14.78	86.93	710.26
12,364.00	49.22	0.20	12,249.21	97.73	105.55	710.60	5.96	81.55	718.40
12,459.00	56.09	2.11	12,306.81	173.16	181.01	712.18	7.41	75.74	734.82
12,554.00	61.40	1.29	12,356.08	254.28	262.15	714.57	5.64	69.85	761.14
12,648.00	67.68	2.33	12,396.47	339.03	346.94	717.27	6.75	64.19	796.77

Scientific Drilling, Intl
Regulatory Report (Grid North)

Company: Devon Energy
Project: Lea County, NM (NAD83 NME)
Site: Flagler 8 Federal
Well: 12H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 12H
TVD Reference: KB = 33' @ 3471.00usft (Nabors X15)
MD Reference: KB = 33' @ 3471.00usft (Nabors X15)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)
12,743.00	73.72	2.15	12,427.85	428.54	436.49	720.77	6.36	58.80	842.63
12,791.06	74.24	1.76	12,441.12	474.68	482.66	722.34	1.33	56.25	868.76
LP[F812H]									
12,837.00	74.73	1.38	12,453.41	518.91	526.90	723.56	1.33	53.94	895.07
12,932.00	76.10	0.29	12,477.33	610.82	618.83	724.89	1.82	49.51	953.11
13,026.00	85.97	0.38	12,491.96	703.54	711.56	725.44	10.50	45.55	1,016.16
13,121.00	91.01	359.69	12,494.46	798.47	806.50	725.49	5.35	41.97	1,084.80
13,214.00	89.53	357.78	12,494.03	891.46	899.47	723.44	2.60	38.81	1,154.30
13,308.00	91.07	359.80	12,493.53	985.45	993.44	721.46	2.70	35.99	1,227.77
13,403.00	91.71	359.83	12,491.23	1,080.41	1,088.41	721.15	0.67	33.53	1,305.64
13,498.00	93.12	0.97	12,487.23	1,175.31	1,183.32	721.81	1.91	31.38	1,386.09
13,592.00	90.13	0.08	12,484.56	1,269.24	1,277.27	722.67	3.32	29.50	1,467.54
13,687.00	90.47	359.69	12,484.06	1,364.24	1,372.26	722.48	0.54	27.77	1,550.83
13,781.00	89.46	3.18	12,484.12	1,458.16	1,466.22	724.83	3.87	26.31	1,635.60
13,875.00	91.04	7.27	12,483.71	1,551.65	1,559.80	733.39	4.66	25.18	1,723.62
13,970.00	90.77	6.11	12,482.21	1,645.86	1,654.14	744.46	1.25	24.23	1,813.95
14,064.00	90.90	5.79	12,480.84	1,739.23	1,747.63	754.20	0.37	23.34	1,903.42
14,158.00	90.47	5.62	12,479.72	1,832.65	1,841.15	763.54	0.49	22.52	1,993.20
14,253.00	88.52	1.63	12,480.55	1,927.36	1,935.94	769.55	4.67	21.68	2,083.28
14,347.00	88.36	1.17	12,483.11	2,021.26	2,029.87	771.85	0.52	20.82	2,171.67
14,442.00	88.02	1.17	12,486.11	2,116.17	2,124.81	773.78	0.36	20.01	2,261.31
14,536.00	86.58	0.05	12,490.54	2,210.04	2,218.69	774.78	1.94	19.25	2,350.08
14,630.00	87.21	356.28	12,495.64	2,303.86	2,312.49	771.78	4.06	18.46	2,437.88
14,724.00	92.38	354.78	12,495.97	2,397.62	2,406.17	764.45	5.73	17.63	2,524.69
14,819.00	93.06	354.57	12,491.46	2,492.19	2,500.65	755.65	0.75	16.81	2,612.33
14,914.00	95.07	355.07	12,484.73	2,586.65	2,595.02	747.09	2.18	16.06	2,700.42
15,008.00	93.62	355.32	12,477.61	2,680.13	2,688.42	739.24	1.57	15.37	2,788.20

Scientific Drilling, Intl
Regulatory Report (Grid North)

Company: Devon Energy
Project: Lea County, NM (NAD83 NME)
Site: Flagler 8 Federal
Well: 12H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 12H
TVD Reference: KB = 33' @ 3471.00usft (Nabors X15)
MD Reference: KB = 33' @ 3471.00usft (Nabors X15)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)
15,102.00	91.54	356.07	12,473.38	2,773.83	2,782.05	732.19	2.35	14.75	2,876.79
15,197.00	92.01	356.97	12,470.43	2,868.67	2,876.83	726.43	1.07	14.17	2,967.13
15,292.00	89.87	359.33	12,468.88	2,963.62	2,971.76	723.36	3.35	13.68	3,058.53
15,387.00	92.79	2.86	12,466.67	3,058.53	3,066.69	725.18	4.82	13.30	3,151.26
15,482.00	85.56	0.41	12,468.04	3,153.37	3,161.57	727.89	8.03	12.97	3,244.28
15,577.00	86.54	0.37	12,474.58	3,248.13	3,256.34	728.53	1.03	12.61	3,336.84
15,670.00	88.66	359.57	12,478.48	3,341.04	3,349.25	728.48	2.44	12.27	3,427.56
15,765.00	90.90	359.29	12,478.84	3,436.03	3,444.24	727.54	2.38	11.93	3,520.24
15,860.00	92.38	359.61	12,476.12	3,530.99	3,539.19	726.63	1.59	11.60	3,613.02
15,954.00	89.46	1.07	12,474.61	3,624.95	3,633.17	727.18	3.47	11.32	3,705.23
16,048.00	92.35	1.68	12,473.13	3,718.87	3,727.12	729.44	3.14	11.07	3,797.83
16,142.00	89.56	1.34	12,471.56	3,812.78	3,821.06	731.92	2.99	10.84	3,890.53
16,236.00	89.40	359.79	12,472.41	3,906.76	3,915.05	732.84	1.66	10.60	3,983.05
16,330.00	87.31	359.44	12,475.11	4,000.71	4,009.01	732.21	2.25	10.35	4,075.32
16,425.00	88.99	1.84	12,478.18	4,095.63	4,103.94	733.27	3.08	10.13	4,168.93
16,519.00	88.66	2.65	12,480.11	4,189.49	4,197.85	736.95	0.93	9.96	4,262.04
16,613.00	90.13	2.23	12,481.10	4,283.35	4,291.75	740.96	1.63	9.80	4,355.25
16,707.00	90.94	1.11	12,480.22	4,377.27	4,385.71	743.70	1.47	9.62	4,448.32
16,802.00	90.70	2.14	12,478.86	4,472.18	4,480.66	746.39	1.11	9.46	4,542.40
16,896.00	89.83	359.64	12,478.43	4,566.14	4,574.64	747.85	2.82	9.28	4,635.36
16,990.00	90.60	359.90	12,478.08	4,660.13	4,668.64	747.47	0.86	9.10	4,728.09
17,085.00	90.13	359.77	12,477.47	4,755.13	4,763.63	747.20	0.51	8.91	4,821.88
17,179.00	86.68	356.94	12,480.09	4,849.05	4,857.53	744.50	4.75	8.71	4,914.26
17,274.00	90.13	353.40	12,482.73	4,943.73	4,952.13	736.51	5.20	8.46	5,006.60
17,337.00	91.58	352.74	12,481.79	5,006.34	5,014.66	728.91	2.53	8.27	5,067.36

FINAL MWD Survey (17337.00' MD)

Scientific Drilling, Intl
Regulatory Report (Grid North)

Company: Devon Energy
Project: Lea County, NM (NAD83 NME)
Site: Flagler 8 Federal
Well: 12H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 12H
TVD Reference: KB = 33' @ 3471.00usft (Nabors X15)
MD Reference: KB = 33' @ 3471.00usft (Nabors X15)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Closure Azimuth (bearing)	Closure Distance (usft)
17,398.00	91.58	352.74	12,480.11	5,066.91	5,075.15	721.20	0.00	8.09	5,126.14
FINAL Proj. to Bit (17398.00' MD) - BHL.PLAT[F8\12H]									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,337.00	12,481.79	5,014.66	728.91	FINAL MWD Survey (17337.00' MD)
17,398.00	12,480.11	5,075.15	721.20	FINAL Proj. to Bit (17398.00' MD)

Checked By: _____ Approved By: _____ Date: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**HOBBS OCD**FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

MAY 16 2019

SUBMIT IN TRIPLICATE - Other instructions on page 2**RECEIVED**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM97151
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY Contact: REBECCA DEAL Email: Rebecca.Deal@devn.com		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-228-8429	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 8 T25S R33E Mer NMP SWSE 180FSL 1710FEL		8. Well Name and No. FLAGLER 8 FEDERAL 12H
		9. API Well No. 30-025-45163
		10. Field and Pool or Exploratory Area WC-025 G-09 S253309A; UWC
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Hydraulic Fracture
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Completions Ops Summary

02/07/19 - 4/17/19: MIRU WL & PT. TIH & ran CBL, found TOC @ 7339'. PT lines 5000 PSI in 1000 PSI increments 15 mins. TIH w/pump through frac plug and guns. Perf Wolfcamp, 12,932'-17,260'. Frac totals 10,973,055# prop, 0 gal acid. ND frac, MIRU PU, NU BOP, DO plugs & CO to PBTD 17,321'. CHC, FWB, ND BOP. No tubing set. TOP.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #465467 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION COMPANY, sent to the Hobbs	
Name (Printed/Typed) REBECCA DEAL	Title REGULATORY COMPLIANCE PROFESSI
Signature (Electronic Submission)	Date 05/15/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****