



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **08/28/19** thru **09/08/19** conduct or supervise the taking of a **MWD Survey** from a depth of **166'** to a depth of **14,463'**; 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 **Flagler 8 Fed Com #36H** API No. **30-025-44998** 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



Devon Energy

Lea Co., NM (Nad83 - East Zone)

Flagler 8 Fed Com

#36H

OH

Design: OH

End Of Well Report

11 September, 2019

**HOBBS OCD
FEB 19 2020
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Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Flagler 8 Fed Com
Well: #36H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #36H
TVD Reference: RKB=30' @ 3496.60usft (Cactus 108)
MD Reference: RKB=30' @ 3496.60usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 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 Flagler 8 Fed Com

Site Position:	Northing:	415,038.57 usft	Latitude:	32.138901
From: Map	Easting:	768,002.82 usft	Longitude:	-103.601029
Position Uncertainty: 0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.390 °

Well #36H

Well Position	+N/-S	0.00 usft	Northing:	415,038.76 usft	Latitude:	32.138901
	+E/-W	0.00 usft	Easting:	768,042.86 usft	Longitude:	-103.600900
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,466.60 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/29/2019	6.722	59.951	47,658.21336187

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	359.62	

Survey Program Date 9/11/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
166.00	14,463.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	0.84	319.32	165.99	0.92	-0.79	0.93	166.00	319.32	0.51
266.00	0.79	322.93	265.98	2.03	-1.69	2.04	100.00	321.07	0.07
358.00	0.62	316.16	357.98	2.89	-2.41	2.91	92.00	319.95	0.21
450.00	0.70	320.64	449.97	3.69	-3.11	3.71	92.00	318.54	0.10
543.00	0.75	322.31	542.96	4.61	-3.85	4.63	93.00	321.50	0.06
635.00	0.66	317.12	634.96	5.47	-4.58	5.50	92.00	319.88	0.12
727.00	0.53	334.97	726.95	6.25	-5.12	6.28	92.00	325.06	0.24
819.00	0.57	334.61	818.95	7.05	-5.49	7.08	92.00	334.78	0.04
911.00	0.57	326.00	910.94	7.84	-5.94	7.88	92.00	330.30	0.09
1,005.00	0.57	323.10	1,004.94	8.60	-6.49	8.64	94.00	324.55	0.03
1,055.00	0.44	312.29	1,054.94	8.93	-6.78	8.97	50.00	318.39	0.32
1,245.00	0.35	317.56	1,244.93	9.85	-7.71	9.90	190.00	314.62	0.05
1,337.00	0.48	316.16	1,336.93	10.33	-8.17	10.39	92.00	316.75	0.14
1,429.00	0.48	275.46	1,428.93	10.65	-8.82	10.71	92.00	295.81	0.36
1,521.00	0.48	272.39	1,520.92	10.70	-9.59	10.76	92.00	273.93	0.03
1,613.00	0.31	286.54	1,612.92	10.79	-10.21	10.85	92.00	277.94	0.21
1,803.00	1.19	140.46	1,802.91	9.41	-9.45	9.47	190.00	150.97	0.77
1,897.00	2.02	142.31	1,896.87	7.35	-7.81	7.40	94.00	141.62	0.88
1,992.00	2.81	140.02	1,991.79	4.24	-5.29	4.27	95.00	140.98	0.84
2,086.00	3.38	141.78	2,085.65	0.30	-2.10	0.31	94.00	140.98	0.61
2,181.00	3.34	142.31	2,180.49	-4.09	1.33	-4.10	95.00	142.04	0.05
2,275.00	3.38	160.50	2,274.33	-8.87	3.93	-8.90	94.00	151.46	1.13
2,370.00	3.25	167.18	2,369.17	-14.14	5.46	-14.17	95.00	163.77	0.43
2,464.00	3.21	161.21	2,463.02	-19.23	6.90	-19.27	94.00	164.21	0.36
2,559.00	2.99	160.33	2,557.88	-24.08	8.59	-24.14	95.00	160.79	0.24
2,653.00	3.38	162.00	2,651.73	-29.02	10.27	-29.09	94.00	161.22	0.43



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
2,748.00	3.52	164.11	2,746.56	-34.49	11.93	-34.57	95.00	163.08	0.20
2,844.00	3.16	161.65	2,842.40	-39.84	13.57	-39.93	96.00	162.95	0.40
2,939.00	3.08	164.63	2,937.26	-44.78	15.08	-44.88	95.00	163.12	0.19
3,033.00	3.03	158.57	3,031.13	-49.53	16.65	-49.64	94.00	161.62	0.35
3,128.00	2.68	156.20	3,126.01	-53.90	18.47	-54.02	95.00	157.46	0.39
3,223.00	3.65	151.54	3,220.86	-58.59	20.80	-58.73	95.00	153.51	1.06
3,318.00	4.18	152.68	3,315.64	-64.33	23.83	-64.48	95.00	152.15	0.56
3,412.00	3.82	155.41	3,409.41	-70.22	26.71	-70.39	94.00	153.98	0.43
3,507.00	4.04	162.79	3,504.19	-76.29	29.02	-76.48	95.00	159.20	0.58
3,601.00	4.13	169.03	3,597.95	-82.78	30.64	-82.98	94.00	165.94	0.48
3,696.00	3.43	174.21	3,692.74	-88.96	31.58	-89.17	95.00	171.38	0.82
3,791.00	2.90	171.49	3,787.60	-94.17	32.22	-94.38	95.00	172.96	0.58
3,884.00	2.86	156.28	3,880.48	-98.62	33.50	-98.84	93.00	163.94	0.82
3,979.00	2.42	163.40	3,975.38	-102.71	35.03	-102.94	95.00	159.54	0.58
4,074.00	2.68	153.21	4,070.29	-106.62	36.60	-106.86	95.00	158.04	0.55
4,168.00	3.12	152.68	4,164.17	-110.85	38.77	-111.10	94.00	152.92	0.47
4,263.00	2.64	146.79	4,259.05	-114.98	41.15	-115.25	95.00	149.98	0.59
4,358.00	3.96	158.75	4,353.89	-119.87	43.54	-120.15	95.00	153.97	1.56
4,452.00	4.31	165.43	4,447.64	-126.31	45.60	-126.61	94.00	162.23	0.63
4,546.00	4.00	158.92	4,541.40	-132.79	47.67	-133.10	94.00	162.30	0.60
4,641.00	4.44	170.08	4,636.14	-139.50	49.50	-139.83	95.00	164.79	0.98
4,736.00	4.75	176.41	4,730.84	-147.05	50.38	-147.38	95.00	173.35	0.63
4,830.00	2.86	189.81	4,824.63	-153.14	49.83	-153.47	94.00	185.10	2.55
4,955.00	2.02	202.95	4,949.51	-158.11	47.93	-158.42	125.00	200.99	0.68
5,111.00	2.15	212.71	5,105.41	-163.10	45.27	-163.40	158.00	207.98	0.24
5,205.00	2.20	213.94	5,199.34	-166.08	43.31	-166.37	94.00	213.33	0.07
5,300.00	2.20	210.89	5,294.27	-169.16	41.36	-169.44	95.00	212.31	0.13



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Survey

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5,395.00	2.02	208.93	5,389.21	-172.20	39.62	-172.46	95.00	209.85	0.20
5,489.00	0.62	238.99	5,483.18	-173.91	38.39	-174.16	94.00	215.86	1.61
5,583.00	0.48	295.68	5,577.18	-174.00	37.60	-174.25	94.00	263.41	0.57
5,678.00	0.35	300.34	5,672.18	-173.68	36.99	-173.92	95.00	297.64	0.14
5,773.00	0.26	252.00	5,767.18	-173.60	36.53	-173.84	95.00	279.96	0.28
5,867.00	0.35	262.28	5,861.17	-173.71	36.04	-173.94	94.00	257.90	0.11
5,962.00	0.40	264.92	5,956.17	-173.78	35.43	-174.01	95.00	263.69	0.06
6,057.00	0.48	273.00	6,051.17	-173.78	34.70	-174.01	95.00	269.33	0.11
6,151.00	0.48	290.23	6,145.17	-173.63	33.94	-173.85	94.00	281.61	0.15
6,246.00	0.35	297.88	6,240.16	-173.35	33.31	-173.57	95.00	293.46	0.15
6,341.00	0.40	283.90	6,335.16	-173.14	32.73	-173.35	95.00	290.42	0.11
6,435.00	0.40	275.82	6,429.16	-173.03	32.08	-173.24	94.00	279.86	0.06
6,530.00	0.53	266.59	6,524.16	-173.02	31.31	-173.22	95.00	270.56	0.16
6,625.00	0.40	275.02	6,619.15	-173.02	30.55	-173.22	95.00	270.21	0.15
6,720.00	0.40	286.01	6,714.15	-172.90	29.90	-173.09	95.00	280.52	0.08
6,815.00	0.57	275.73	6,809.15	-172.76	29.11	-172.95	95.00	279.97	0.20
6,909.00	0.53	263.51	6,903.14	-172.76	28.21	-172.94	94.00	269.84	0.13
7,004.00	0.62	277.40	6,998.14	-172.74	27.26	-172.92	95.00	271.00	0.17
7,098.00	0.53	269.75	7,092.13	-172.68	26.32	-172.85	94.00	273.87	0.13
7,193.00	0.48	281.70	7,187.13	-172.60	25.50	-172.77	95.00	275.43	0.12
7,287.00	0.57	269.22	7,281.13	-172.53	24.64	-172.69	94.00	274.92	0.15
7,382.00	0.70	252.96	7,376.12	-172.70	23.62	-172.86	95.00	260.25	0.23
7,477.00	0.75	260.96	7,471.11	-172.97	22.45	-173.12	95.00	257.10	0.12
7,571.00	0.79	244.26	7,565.10	-173.35	21.26	-173.49	94.00	252.39	0.24
7,666.00	0.70	226.60	7,660.10	-174.03	20.24	-174.16	95.00	235.97	0.26
7,761.00	1.01	232.57	7,755.09	-174.94	19.16	-175.06	95.00	230.13	0.34
7,856.00	0.79	233.10	7,850.07	-175.84	17.97	-175.96	95.00	232.80	0.23



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7,950.00	0.79	238.79	7,944.07	-176.59	16.91	-176.69	94.00	234.94	0.05
8,045.00	0.88	224.75	8,039.05	-177.46	15.85	-177.56	95.00	230.44	0.21
8,140.00	0.97	226.33	8,134.04	-178.54	14.75	-178.63	95.00	225.58	0.10
8,234.00	1.14	234.51	8,228.03	-179.63	13.41	-179.71	94.00	230.75	0.24
8,329.00	0.13	295.68	8,323.02	-180.13	12.55	-180.21	95.00	239.92	1.14
8,424.00	0.22	125.35	8,418.02	-180.19	12.60	-180.27	95.00	138.72	0.37
8,518.00	0.53	123.59	8,512.02	-180.53	13.11	-180.62	94.00	124.11	0.33
8,613.00	0.53	128.42	8,607.01	-181.05	13.82	-181.14	95.00	126.00	0.05
8,708.00	0.70	148.37	8,702.01	-181.82	14.47	-181.91	95.00	139.79	0.29
8,802.00	0.62	164.90	8,796.00	-182.80	14.90	-182.89	94.00	156.13	0.22
8,896.00	0.79	174.30	8,889.99	-183.93	15.10	-184.03	94.00	170.17	0.22
8,991.00	0.84	188.63	8,984.99	-185.27	15.06	-185.37	95.00	181.69	0.22
9,117.00	4.00	359.31	9,110.90	-181.79	14.87	-181.89	126.00	356.85	3.83
KOP @ 9117.00' MD 197.95' FSL 613.61' FWL									
9,211.00	10.46	349.64	9,204.11	-170.11	13.29	-170.19	94.00	352.32	6.97
9,308.00	17.67	353.60	9,296.20	-147.26	10.13	-147.33	95.00	352.12	7.65
9,401.00	25.14	349.64	9,384.59	-113.04	4.89	-113.07	95.00	351.29	8.00
9,432.00	28.40	350.52	9,412.26	-99.28	2.49	-99.30	31.00	350.10	10.59
9,465.00	31.12	351.05	9,440.91	-83.11	-0.13	-83.11	33.00	350.80	8.28
9,560.00	41.01	351.23	9,517.61	-27.92	-8.73	-27.86	95.00	351.15	10.41
9,655.00	53.45	350.96	9,581.99	40.84	-19.52	40.97	95.00	351.08	13.10
9,749.00	64.26	352.98	9,630.54	120.39	-30.66	120.59	94.00	352.03	11.65
9,844.00	78.11	352.10	9,661.10	209.33	-42.33	209.60	95.00	352.52	14.61
9,885.00	84.92	351.40	9,667.15	249.43	-48.15	249.75	41.00	351.75	16.70
9,967.00	94.15	351.14	9,667.81	330.39	-60.58	330.79	82.00	351.27	11.26
10,062.00	94.51	351.05	9,660.64	423.98	-75.25	424.47	95.00	351.10	0.39
10,156.00	96.26	351.49	9,651.82	516.48	-89.45	517.06	94.00	351.27	1.92



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10,251.00	97.01	351.58	9,640.84	609.81	-103.34	610.48	95.00	351.53	0.80
10,346.00	96.97	351.23	9,629.28	703.05	-117.43	703.81	95.00	351.40	0.37
10,440.00	97.71	351.49	9,617.27	795.22	-131.44	796.07	94.00	351.36	0.83
10,535.00	94.81	350.70	9,606.91	888.50	-146.06	889.45	95.00	351.09	3.16
10,630.00	92.75	351.67	9,600.85	982.17	-160.58	983.21	95.00	351.19	2.40
10,725.00	91.12	351.58	9,597.44	1,076.10	-174.41	1,077.23	95.00	351.62	1.72
10,819.00	90.99	352.02	9,595.71	1,169.12	-187.81	1,170.34	94.00	351.80	0.49
10,913.00	91.60	354.04	9,593.59	1,262.40	-199.22	1,263.69	94.00	353.03	2.24
11,008.00	91.74	355.01	9,590.82	1,356.93	-208.28	1,358.28	95.00	354.52	1.03
11,103.00	91.65	355.36	9,588.01	1,451.55	-216.25	1,452.95	95.00	355.19	0.38
11,197.00	91.08	356.50	9,585.77	1,545.28	-222.92	1,546.73	94.00	355.93	1.36
11,291.00	90.51	358.87	9,584.47	1,639.19	-226.71	1,640.66	94.00	357.69	2.59
11,386.00	90.42	359.49	9,583.70	1,734.18	-228.07	1,735.65	95.00	359.18	0.66
11,480.00	90.77	358.61	9,582.72	1,828.16	-229.63	1,829.64	94.00	359.05	1.01
11,574.00	91.25	358.70	9,581.06	1,922.12	-231.84	1,923.61	94.00	358.65	0.52
11,669.00	90.07	359.66	9,579.97	2,017.10	-233.20	2,018.60	95.00	359.18	1.60
11,764.00	89.58	0.01	9,580.26	2,112.10	-233.47	2,113.60	95.00	359.83	0.63
11,859.00	89.98	0.10	9,580.62	2,207.10	-233.38	2,208.59	95.00	0.06	0.43
11,954.00	90.02	0.10	9,580.62	2,302.10	-233.21	2,303.59	95.00	0.10	0.04
12,048.00	90.33	0.37	9,580.34	2,396.09	-232.83	2,397.59	94.00	0.23	0.44
12,143.00	91.25	0.10	9,579.03	2,491.08	-232.44	2,492.57	95.00	0.24	1.01
12,237.00	88.88	0.37	9,578.92	2,585.08	-232.05	2,586.56	94.00	0.24	2.54
12,332.00	89.54	0.63	9,580.23	2,680.06	-231.22	2,681.54	95.00	0.50	0.75
12,426.00	89.14	0.89	9,581.31	2,774.05	-229.98	2,775.51	94.00	0.76	0.51
12,521.00	89.10	0.98	9,582.77	2,869.02	-228.43	2,870.48	95.00	0.93	0.10
12,616.00	88.75	0.89	9,584.55	2,963.99	-226.88	2,965.43	95.00	0.94	0.38
12,710.00	90.15	0.01	9,585.46	3,057.98	-226.14	3,059.42	94.00	0.45	1.76



Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Flagler 8 Fed Com
Well: #36H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #36H
TVD Reference: RKB=30' @ 3496.60usft (Cactus 108)
MD Reference: RKB=30' @ 3496.60usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
12,805.00	89.98	358.70	9,585.35	3,152.98	-227.21	3,154.41	95.00	359.35	1.39
12,900.00	92.20	359.66	9,583.54	3,247.94	-228.57	3,249.39	95.00	359.18	2.55
12,995.00	93.63	0.37	9,578.71	3,342.82	-228.54	3,344.26	95.00	0.01	1.68
13,089.00	91.56	359.49	9,574.45	3,436.71	-228.66	3,438.15	94.00	359.93	2.39
13,183.00	91.25	359.66	9,572.15	3,530.68	-229.36	3,532.13	94.00	359.58	0.38
13,278.00	91.47	359.84	9,569.89	3,625.65	-229.77	3,627.10	95.00	359.75	0.30
13,372.00	91.38	359.66	9,567.56	3,719.62	-230.18	3,721.07	94.00	359.75	0.21
13,467.00	92.00	359.75	9,564.76	3,814.58	-230.67	3,816.03	95.00	359.70	0.66
13,562.00	89.54	358.78	9,563.48	3,909.56	-231.89	3,911.01	95.00	359.26	2.78
13,656.00	89.27	358.61	9,564.45	4,003.53	-234.03	4,004.99	94.00	358.70	0.34
13,751.00	88.88	358.52	9,565.99	4,098.48	-236.41	4,099.96	95.00	358.57	0.42
13,845.00	87.74	358.78	9,568.76	4,192.42	-238.62	4,193.91	94.00	358.65	1.24
13,941.00	88.31	358.78	9,572.07	4,288.34	-240.66	4,289.84	96.00	358.78	0.59
14,036.00	88.48	358.96	9,574.73	4,383.28	-242.54	4,384.79	95.00	358.87	0.26
14,130.00	88.92	0.10	9,576.86	4,477.25	-243.31	4,478.77	94.00	359.53	1.30
14,225.00	89.80	0.37	9,577.92	4,572.24	-242.92	4,573.75	95.00	0.24	0.97
14,319.00	90.42	0.89	9,577.74	4,666.24	-241.88	4,667.74	94.00	0.63	0.86
14,397.00	91.25	0.89	9,576.61	4,744.22	-240.67	4,745.71	78.00	0.89	1.06
14,451.40	91.25	0.89	9,575.42	4,798.60	-239.83	4,800.08	54.40	0.89	0.00
100' Perf Crossing @ 14451.40' MD 100' FNL 392.30' FWL									
14,463.00	91.25	0.89	9,575.17	4,810.20	-239.65	4,811.68	11.60	0.89	0.00
BHL @ 14463.00' MD 88.17' FNL 392.45' FWL									



Wellbenders End Of Well Report

Company: Devon Energy
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Site: Flagler 8 Fed Com
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Wellbore: OH
Design: OH

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TVD Reference: RKB=30' @ 3496.60usft (Cactus 108)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,117.00	9,110.90	-181.79	14.87	KOP @ 9117.00' MD 197.95' FSL 613.61' FWL
14,451.40	9,575.42	4,798.60	-239.83	100' Perf Crossing @ 14451.40' MD 100' FNL 392.30' FWL
14,463.00	9,575.17	4,810.20	-239.65	BHL @ 14463.00' MD 88.17' FNL 392.45' FWL

Checked By: _____ Approved By: _____ Date: _____