



Devon Energy

Lea Co., NM (Nad83 - East Zone)

Flagler 8 Fed Com

#30H

OH

Design: OH

End Of Well Report

23 September, 2019

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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: #30H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #30H
TVD Reference: RKB=30' @ 3496.30usft (Cactus 108)
MD Reference: RKB=30' @ 3496.30usft (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:	Slot Radius:	13.200 in	Grid Convergence:	0.390 °

Well #30H

Well Position	+N/-S	0.00 usft	Northing:	415,038.95 usft	Latitude:	32.138901
	+E/-W	0.00 usft	Easting:	768,062.81 usft	Longitude:	-103.600835
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,466.30 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2019	6.733	59.952	47,668.62350155

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 9/23/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
131.00	14,144.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131.00	0.18	114.01	131.00	-0.08	0.19	-0.08	131.00	114.01	0.14
233.00	0.35	60.57	233.00	0.00	0.61	0.00	102.00	78.12	0.28
322.00	0.22	101.97	322.00	0.10	1.01	0.10	89.00	76.34	0.26
414.00	0.40	85.09	414.00	0.09	1.50	0.08	92.00	91.06	0.22
507.00	0.22	95.90	506.99	0.10	2.00	0.09	93.00	88.92	0.20
599.00	0.35	42.11	598.99	0.29	2.37	0.28	92.00	62.41	0.31
691.00	0.09	29.46	690.99	0.56	2.59	0.55	92.00	39.53	0.29
781.00	0.26	71.12	780.99	0.69	2.82	0.67	90.00	60.76	0.22
873.00	0.40	359.58	872.99	1.08	3.01	1.06	92.00	26.66	0.44
966.00	0.40	7.40	965.99	1.73	3.05	1.71	93.00	3.49	0.06
1,059.00	0.35	317.39	1,058.99	2.26	2.90	2.24	93.00	344.18	0.34
1,090.00	0.31	351.75	1,089.99	2.41	2.83	2.39	31.00	333.50	0.64
1,241.00	0.70	305.08	1,240.98	3.35	2.01	3.33	151.00	318.96	0.36
1,333.00	0.75	283.55	1,332.97	3.81	0.97	3.80	92.00	293.94	0.30
1,425.00	0.92	305.26	1,424.96	4.38	-0.22	4.38	92.00	295.52	0.39
1,517.00	0.75	281.26	1,516.96	4.92	-1.41	4.93	92.00	294.50	0.42
1,608.00	0.75	284.60	1,608.95	5.19	-2.59	5.21	92.00	282.93	0.05
1,799.00	2.24	111.11	1,798.91	4.17	-0.33	4.17	190.00	114.37	1.57
1,988.00	3.69	105.92	1,987.65	1.17	8.97	1.11	189.00	107.88	0.78
2,177.00	6.24	108.47	2,175.93	-3.76	24.56	-3.92	189.00	107.52	1.35
2,366.00	7.87	106.89	2,363.49	-10.77	46.69	-11.08	189.00	107.59	0.87
2,461.00	7.12	104.78	2,457.88	-14.16	58.60	-14.55	95.00	105.89	0.84
2,555.00	7.74	104.78	2,550.89	-17.26	70.36	-17.73	94.00	104.78	0.66
2,650.00	8.62	106.27	2,644.92	-20.89	83.38	-21.44	95.00	105.56	0.95
2,745.00	7.87	105.04	2,738.94	-24.57	96.49	-25.21	95.00	105.68	0.81
2,840.00	8.62	105.84	2,832.96	-28.20	109.62	-28.93	95.00	105.46	0.80



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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)
2,935.00	9.45	105.84	2,926.78	-32.27	123.98	-33.10	95.00	105.84	0.87
3,029.00	8.75	102.32	3,019.59	-35.91	138.38	-36.82	94.00	104.15	0.95
3,124.00	9.80	101.70	3,113.35	-39.09	153.36	-40.10	95.00	101.99	1.11
3,220.00	10.99	103.90	3,207.77	-42.94	170.25	-44.07	96.00	102.86	1.31
3,314.00	10.37	101.53	3,300.14	-46.79	187.23	-48.03	94.00	102.75	0.81
3,408.00	11.38	99.24	3,392.46	-49.97	204.68	-51.32	94.00	100.33	1.17
3,503.00	11.47	100.47	3,485.57	-53.19	223.22	-54.67	95.00	99.86	0.27
3,598.00	10.33	101.44	3,578.86	-56.59	240.85	-58.19	95.00	100.93	1.22
3,692.00	9.54	104.34	3,671.45	-60.20	256.66	-61.90	94.00	102.83	0.99
3,787.00	8.62	103.37	3,765.26	-63.79	271.21	-65.59	95.00	103.88	0.98
3,881.00	8.57	101.53	3,858.20	-66.82	284.93	-68.71	94.00	102.45	0.30
3,975.00	8.97	103.64	3,951.10	-69.95	298.91	-71.93	94.00	102.61	0.55
4,070.00	8.62	104.52	4,044.99	-73.48	313.00	-75.55	95.00	104.07	0.39
4,165.00	7.08	103.02	4,139.09	-76.58	325.60	-78.74	95.00	103.84	1.64
4,259.00	6.99	102.14	4,232.38	-79.09	336.84	-81.32	94.00	102.58	0.15
4,354.00	8.18	106.36	4,326.55	-82.21	348.97	-84.52	95.00	104.41	1.38
4,448.00	10.42	108.82	4,419.31	-86.84	363.44	-89.25	94.00	107.74	2.42
4,543.00	9.23	107.24	4,512.92	-91.87	378.85	-94.38	95.00	108.08	1.28
4,637.00	10.29	109.61	4,605.56	-96.92	393.96	-99.53	94.00	108.49	1.21
4,732.00	12.35	112.43	4,698.70	-103.64	411.34	-106.37	95.00	111.15	2.24
4,826.00	11.56	113.22	4,790.66	-111.19	429.29	-114.04	94.00	112.81	0.86
4,921.00	9.71	114.71	4,884.03	-118.30	445.32	-121.25	95.00	113.90	1.97
4,979.00	9.10	113.57	4,941.25	-122.17	453.96	-125.18	58.00	114.16	1.10
5,111.00	7.21	114.54	5,071.91	-129.79	471.07	-132.91	132.00	114.00	1.44
5,205.00	8.62	110.14	5,165.01	-134.67	483.05	-137.87	94.00	112.15	1.63
5,300.00	9.36	106.71	5,258.84	-139.34	497.13	-142.63	95.00	108.35	0.96
5,395.00	9.01	106.01	5,352.63	-143.61	511.68	-147.00	95.00	106.37	0.39



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5,489.00	8.70	106.63	5,445.50	-147.68	525.57	-151.16	94.00	106.31	0.35
5,583.00	8.13	107.24	5,538.49	-151.68	538.73	-155.25	94.00	106.92	0.61
5,678.00	8.13	106.27	5,632.54	-155.55	551.59	-159.21	95.00	106.75	0.14
5,773.00	8.04	105.22	5,726.59	-159.18	564.45	-162.92	95.00	105.75	0.18
5,867.00	8.22	102.93	5,819.65	-162.41	577.34	-166.23	94.00	104.06	0.39
5,962.00	7.34	101.88	5,913.77	-165.18	589.90	-169.09	95.00	102.43	0.94
6,057.00	6.68	102.23	6,008.06	-167.60	601.24	-171.58	95.00	102.05	0.70
6,151.00	6.55	100.91	6,101.44	-169.77	611.85	-173.82	94.00	101.58	0.21
6,246.00	6.42	100.56	6,195.83	-171.77	622.39	-175.89	95.00	100.74	0.14
6,341.00	5.93	99.33	6,290.28	-173.54	632.45	-177.73	95.00	99.97	0.53
6,436.00	4.44	102.58	6,384.89	-175.13	640.88	-179.38	95.00	100.72	1.60
6,531.00	3.43	105.66	6,479.66	-176.70	647.21	-180.99	95.00	103.92	1.09
6,626.00	3.52	106.19	6,574.49	-178.28	652.75	-182.61	95.00	105.93	0.10
6,720.00	2.24	92.04	6,668.37	-179.15	657.35	-183.51	94.00	100.69	1.55
6,815.00	0.84	71.29	6,763.33	-179.00	659.87	-183.37	95.00	86.42	1.56
6,909.00	0.48	310.80	6,857.33	-178.52	660.22	-182.89	94.00	36.55	1.23
7,004.00	0.88	304.20	6,952.32	-177.85	659.32	-182.22	95.00	306.53	0.43
7,099.00	0.88	292.16	7,047.31	-177.16	658.04	-181.52	95.00	298.18	0.19
7,193.00	0.75	295.50	7,141.30	-176.62	656.82	-180.98	94.00	293.70	0.15
7,288.00	1.01	294.71	7,236.29	-176.01	655.49	-180.35	95.00	295.05	0.27
7,382.00	1.23	289.44	7,330.27	-175.33	653.79	-179.66	94.00	291.82	0.26
7,477.00	1.19	298.23	7,425.25	-174.52	651.96	-178.84	95.00	293.76	0.20
7,571.00	0.92	286.38	7,519.23	-173.84	650.38	-178.15	94.00	293.08	0.37
7,666.00	1.05	289.70	7,614.22	-173.34	648.82	-177.64	95.00	288.14	0.15
7,761.00	0.75	291.11	7,709.21	-172.82	647.43	-177.11	95.00	290.29	0.32
7,856.00	1.01	280.83	7,804.20	-172.44	646.02	-176.72	95.00	285.21	0.32
7,950.00	0.75	276.26	7,898.19	-172.22	644.60	-176.49	94.00	278.88	0.29



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8,045.00	0.53	276.34	7,993.18	-172.10	643.54	-176.36	95.00	276.29	0.23
8,140.00	0.79	240.22	8,088.17	-172.38	642.54	-176.63	95.00	254.61	0.50
8,234.00	1.01	220.62	8,182.16	-173.33	641.44	-177.58	94.00	229.21	0.40
8,329.00	1.01	219.04	8,277.15	-174.81	640.36	-178.86	95.00	219.83	0.03
8,424.00	1.14	207.79	8,372.13	-176.10	639.40	-180.34	95.00	213.07	0.26
8,518.00	1.23	212.18	8,466.11	-177.78	638.42	-182.01	94.00	210.07	0.14
8,613.00	1.41	201.20	8,561.09	-179.73	637.46	-183.96	95.00	206.31	0.33
8,740.00	2.02	208.67	8,688.03	-183.15	635.82	-187.37	127.00	205.60	0.51
8,804.00	1.23	217.54	8,752.00	-184.69	634.86	-188.89	64.00	212.03	1.29
KOP @ 8804.00' MD 192.20' FSL 1262.60' FWL									
8,898.00	12.40	349.91	8,845.31	-175.51	632.46	-179.70	94.00	345.38	14.11
8,992.00	21.05	351.93	8,935.25	-148.81	628.32	-152.97	94.00	351.17	9.22
9,087.00	33.27	350.00	9,019.62	-106.09	621.37	-110.21	95.00	350.76	12.89
9,182.00	38.95	351.40	9,096.34	-50.86	612.37	-54.92	95.00	350.75	6.04
9,276.00	45.05	354.57	9,166.17	11.54	604.80	7.52	94.00	353.08	6.87
9,371.00	52.44	355.97	9,228.77	82.66	598.96	78.69	95.00	355.31	7.86
9,446.20	60.00	357.84	9,270.55	145.03	595.64	141.07	75.20	356.95	10.26
FTP @ 9446.20' MD 621.67' FSL 1216.20' FWL									
9,465.00	61.89	358.26	9,279.68	161.45	595.08	157.50	18.80	358.05	10.26
9,560.00	69.23	359.05	9,318.96	247.86	593.07	243.92	95.00	358.67	7.76
9,655.00	83.30	359.75	9,341.46	339.90	592.12	335.97	95.00	359.41	14.83
9,778.00	88.92	3.44	9,349.81	462.50	595.55	458.54	123.00	1.60	5.46
9,872.00	88.70	2.48	9,351.76	556.35	600.40	552.36	94.00	2.96	1.05
9,967.00	89.45	2.48	9,353.29	651.25	604.51	647.23	95.00	2.48	0.79
10,062.00	89.01	3.00	9,354.57	746.13	609.05	742.08	95.00	2.74	0.72
10,156.00	89.23	2.04	9,356.01	840.03	613.18	835.94	94.00	2.52	1.05
10,251.00	88.44	1.51	9,357.95	934.96	616.13	930.86	95.00	1.78	1.00



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10,345.00	89.19	1.51	9,359.89	1,028.91	618.60	1,024.79	94.00	1.51	0.80
10,440.00	88.48	359.66	9,361.82	1,123.88	619.57	1,119.75	95.00	0.59	2.09
10,535.00	89.10	358.78	9,363.83	1,218.85	618.28	1,214.72	95.00	359.22	1.13
10,630.00	90.15	359.22	9,364.45	1,313.83	616.62	1,309.71	95.00	359.00	1.20
10,725.00	91.87	359.66	9,362.77	1,408.81	615.69	1,404.69	95.00	359.44	1.87
10,818.00	89.89	0.45	9,361.35	1,501.79	615.78	1,497.68	93.00	0.06	2.29
10,913.00	90.55	0.19	9,360.98	1,596.79	616.31	1,592.67	95.00	0.32	0.75
11,008.00	90.24	0.10	9,360.33	1,691.79	616.55	1,687.66	95.00	0.14	0.34
11,103.00	89.45	1.86	9,360.58	1,786.77	618.18	1,782.63	95.00	0.98	2.03
11,197.00	90.07	1.51	9,360.98	1,880.73	620.94	1,876.57	94.00	1.68	0.76
11,291.00	88.40	359.93	9,362.23	1,974.70	622.12	1,970.53	94.00	0.72	2.45
11,386.00	88.44	359.49	9,364.85	2,069.67	621.64	2,065.50	95.00	359.71	0.46
11,480.00	89.27	359.75	9,366.73	2,163.64	621.02	2,159.48	94.00	359.62	0.93
11,574.00	90.37	0.28	9,367.03	2,257.64	621.04	2,253.47	94.00	0.02	1.30
11,669.00	88.40	358.26	9,368.04	2,352.62	619.83	2,348.46	95.00	359.27	2.97
11,764.00	88.09	358.17	9,370.95	2,447.53	618.88	2,443.38	95.00	358.22	0.34
11,859.00	89.41	359.14	9,373.03	2,542.48	614.65	2,538.34	95.00	358.66	1.72
11,954.00	89.32	358.61	9,374.08	2,637.45	612.78	2,633.33	95.00	358.88	0.57
12,048.00	90.81	359.40	9,373.97	2,731.43	611.15	2,727.32	94.00	359.00	1.79
12,143.00	91.82	359.22	9,371.79	2,826.40	610.01	2,822.29	95.00	359.31	1.08
12,237.00	91.38	359.93	9,369.17	2,920.36	609.31	2,916.26	94.00	359.58	0.89
12,332.00	90.81	0.01	9,367.35	3,015.34	609.28	3,011.24	95.00	359.97	0.61
12,426.00	88.66	359.14	9,367.79	3,109.33	608.56	3,105.23	94.00	359.58	2.47
12,521.00	88.48	359.75	9,370.16	3,204.30	607.64	3,200.20	95.00	359.44	0.67
12,616.00	89.49	0.45	9,371.84	3,299.28	607.81	3,295.18	95.00	0.10	1.29
12,710.00	90.51	0.01	9,371.84	3,393.28	608.19	3,389.17	94.00	0.23	1.18
12,805.00	91.21	0.63	9,370.42	3,488.27	608.72	3,484.15	95.00	0.32	0.98



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Project: Lea Co., NM (Nad83 - East Zone)
Site: Flagler 8 Fed Com
Well: #30H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #30H
TVD Reference: RKB=30' @ 3496.30usft (Cactus 108)
MD Reference: RKB=30' @ 3496.30usft (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)
12,900.00	92.26	1.25	9,367.54	3,583.21	610.27	3,579.08	95.00	0.94	1.28
12,995.00	91.38	1.16	9,364.52	3,678.14	612.27	3,674.00	95.00	1.20	0.93
13,089.00	91.34	1.25	9,362.29	3,772.09	614.25	3,767.93	94.00	1.21	0.10
13,183.00	89.85	0.45	9,361.31	3,868.07	615.64	3,861.90	94.00	0.85	1.80
13,278.00	90.37	359.75	9,361.13	3,961.07	615.81	3,956.90	95.00	0.10	0.92
13,372.00	88.35	359.49	9,362.18	4,055.06	615.18	4,050.89	94.00	359.62	2.17
13,467.00	88.31	359.22	9,364.95	4,150.01	614.11	4,145.85	95.00	359.36	0.29
13,562.00	88.97	359.66	9,367.21	4,244.98	613.19	4,240.82	95.00	359.44	0.83
13,656.00	89.23	359.58	9,368.68	4,338.97	612.56	4,334.81	94.00	359.62	0.29
13,751.00	90.46	359.05	9,368.94	4,433.96	611.43	4,429.80	95.00	359.31	1.41
13,845.00	90.46	359.14	9,368.18	4,527.94	609.94	4,523.80	94.00	359.10	0.10
13,940.00	90.90	358.78	9,367.06	4,622.92	608.22	4,618.78	95.00	358.96	0.60
14,036.00	91.47	358.43	9,365.07	4,718.87	605.88	4,714.75	96.00	358.61	0.70
14,079.00	90.95	357.99	9,364.16	4,761.84	604.54	4,757.72	43.00	358.21	1.58
14,120.92	90.95	357.99	9,363.47	4,803.73	603.07	4,799.62	41.92	357.99	0.00
LTP @ 14120.92' MD 100' FNL 1255.20' FWL									
14,144.00	90.95	357.99	9,363.09	4,826.79	602.26	4,822.69	23.08	357.99	0.00
BHL @ 14144.00' MD 76.52' FNL 1254.40' FWL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,804.00	8,752.00	-184.69	634.86	KOP @ 8804.00' MD 192.20' FSL 1252.50' FWL
9,446.20	9,270.55	145.03	595.64	FTP @ 9446.20' MD 521.57' FSL 1215.20' FWL
14,120.92	9,363.47	4,803.73	603.07	LTP @ 14120.92' MD 100' FNL 1255.20' FWL
14,144.00	9,363.09	4,826.79	602.26	BHL @ 14144.00' MD 76.52' FNL 1254.40' FWL



Wellbenders
End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Flagler 8 Fed Com
Well: #30H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #30H
TVD Reference: RKB=30' @ 3496.30usft (Cactus 108)
MD Reference: RKB=30' @ 3496.30usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Checked By: _____	Approved By: _____	Date: _____
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I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **09/10/19** thru **09/20/19** conduct or supervise the taking of a **MWD Survey** from a depth of **131'** to a depth of **14,144'**; 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 #30H** API No. **30-025-44996** 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

13901 Hwy 105 W., Conroe, Texas
77304
PH 936-539-9602



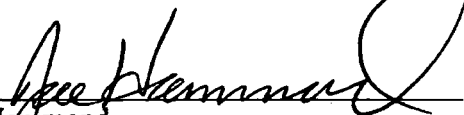
Devon Energy Production Company LP
333 West Sheridan Avenue
Oklahoma City, OK 73102

405 235 3611 Phone
www.devonenergy.com

Certificate of Ownership

I have reviewed the ownership of the oil and gas leasehold for Federal Oil & Gas Lease Numbers NMNM 97151 and NMNM 97904 covering all of Section 8-T25S-R33E, Lea County, New Mexico, for purposes of identifying an "area of uniform ownership" as set forth in NMAC 19.15.16.15B(8) and C(7). As of this date below, the ownership in the above described lease and lands is uniform as to the mineral estate in the objective formation as provided in 19.15.16.15B(8) and C(7) NMAC.

Devon Energy Production Company, L.P.



Joe Hammond
Land Advisor
January 30, 2020

AREA OF COMMON OWNERSHIP

Section 8: All
Township 25 South, Range 33 East
Lea County, New Mexico
Pool Name: Red Hills; Upper Bone Springs Shale (97900)

-  Area of Common Ownership
-  Standard Horizontal Spacing Unit

