



Devon Energy

Lea Co., NM (Nad83 - East Zone)

Green Wave 20-17

#17H

OH

Design: OH

End Of Well Report

15 July, 2019

HOBBS OCD
DEC 11 2019
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Wellbenders End Of Well Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #17H
Project:	Lea Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3378.70usft (Cactus 108)
Site:	Green Wave 20-17	MD Reference:	RKB=30' @ 3378.70usft (Cactus 108)
Well:	#17H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Project	Lea Co., NM (Nad83 - East Zone)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Green Wave 20-17		
Site Position:		Northing:	375,465.84 usft
From:	Map	Easting:	803,724.74 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.029409
		Longitude:	-103.486634
		Grid Convergence:	0.449 °

Well		#17H				
Well Position	+N/-S	0.00 usft	Northing:	375,465.84 usft	Latitude:	32.029409
	+E/-W	0.00 usft	Easting:	803,724.74 usft	Longitude:	-103.486634
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,348.70 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/28/2019	6.688	59.871	47,632.21610626

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	359.51

Survey Program		Date 7/15/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
170.00	20,480.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



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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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	0.31	210.06	170.00	-0.40	-0.23	-0.40	170.00	210.06	0.18
263.00	0.44	201.97	263.00	-0.95	-0.49	-0.94	93.00	205.31	0.15
355.00	0.35	255.41	355.00	-1.35	-0.89	-1.34	92.00	225.41	0.40
447.00	0.22	230.45	446.99	-1.53	-1.30	-1.52	92.00	245.82	0.19
539.00	0.18	239.32	538.99	-1.71	-1.56	-1.70	92.00	234.44	0.05
633.00	0.18	298.91	632.99	-1.72	-1.82	-1.70	94.00	269.12	0.19
713.00	0.44	293.73	712.99	-1.53	-2.21	-1.52	80.00	295.23	0.33
873.00	0.62	328.62	872.99	-0.55	-3.22	-0.52	160.00	314.23	0.23
965.00	0.62	322.03	964.98	0.27	-3.79	0.30	92.00	325.32	0.08
1,060.00	1.01	326.60	1,059.97	1.37	-4.57	1.41	95.00	324.86	0.42
1,154.00	2.46	286.52	1,153.93	2.64	-6.96	2.70	94.00	297.90	1.92
1,248.00	2.73	251.72	1,247.84	2.51	-11.02	2.60	94.00	268.19	1.67
1,342.00	4.79	244.16	1,341.63	0.10	-16.67	0.24	94.00	246.90	2.25
1,437.00	4.53	239.59	1,436.32	-3.53	-23.48	-3.33	95.00	241.94	0.48
1,532.00	4.35	243.46	1,531.03	-7.04	-29.94	-6.78	95.00	241.49	0.37
1,627.00	5.67	242.31	1,625.67	-10.83	-37.32	-10.51	95.00	242.81	1.39
1,721.00	7.25	249.61	1,719.07	-15.05	-46.99	-14.65	94.00	246.41	1.89
1,816.00	7.96	252.77	1,813.23	-19.09	-58.89	-18.59	95.00	251.26	0.87
1,911.00	8.00	255.15	1,907.31	-22.73	-71.56	-22.12	95.00	253.96	0.35
2,005.00	9.41	258.05	2,000.23	-26.00	-85.41	-25.27	94.00	256.72	1.57
2,099.00	9.27	257.43	2,092.98	-29.24	-100.31	-28.38	94.00	257.74	0.18
2,194.00	9.36	258.05	2,186.73	-32.51	-115.34	-31.52	95.00	257.74	0.14
2,288.00	9.49	257.69	2,279.46	-35.74	-130.39	-34.62	94.00	257.87	0.15
2,383.00	9.14	257.69	2,373.21	-39.02	-145.41	-37.77	95.00	257.69	0.37
2,478.00	8.97	256.55	2,467.02	-42.35	-159.99	-40.98	95.00	257.13	0.26
2,572.00	8.97	256.11	2,559.87	-45.81	-174.23	-44.32	94.00	256.33	0.07



Wellbenders
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Design: OH

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TVD Reference: RKB=30' @ 3378.70usft (Cactus 108)
MD Reference: RKB=30' @ 3378.70usft (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)
2,667.00	8.88	255.50	2,653.72	-49.43	-188.52	-47.81	95.00	255.81	0.14
2,762.00	8.79	255.08	2,747.60	-53.14	-202.63	-51.40	95.00	255.28	0.12
2,856.00	8.53	254.27	2,840.52	-56.88	-216.28	-55.02	94.00	254.67	0.30
2,951.00	8.22	255.67	2,934.51	-60.47	-229.64	-58.50	95.00	254.96	0.39
3,046.00	8.70	251.45	3,028.48	-64.43	-243.03	-62.35	95.00	253.50	0.83
3,141.00	8.70	252.68	3,122.39	-68.86	-256.70	-66.66	95.00	252.06	0.20
3,235.00	9.36	255.50	3,215.22	-72.89	-270.89	-70.57	94.00	254.14	0.85
3,330.00	9.67	254.44	3,308.91	-76.96	-286.06	-74.51	95.00	254.96	0.37
3,425.00	9.32	254.35	3,402.61	-81.18	-301.15	-78.60	95.00	254.40	0.37
3,519.00	8.97	252.95	3,495.42	-85.38	-315.48	-82.68	94.00	253.66	0.44
3,613.00	9.76	257.69	3,588.16	-89.23	-330.28	-86.40	94.00	255.42	1.17
3,707.00	9.85	259.63	3,680.79	-92.37	-345.97	-89.41	94.00	258.66	0.36
3,801.00	9.67	259.80	3,773.43	-95.22	-361.65	-92.12	94.00	259.71	0.19
3,895.00	8.79	260.68	3,866.21	-97.78	-376.50	-94.56	94.00	260.22	0.95
3,989.00	7.60	262.97	3,959.25	-99.71	-389.76	-96.37	94.00	261.74	1.31
4,084.00	8.04	262.53	4,053.37	-101.34	-402.58	-97.89	95.00	262.74	0.47
4,178.00	8.97	256.82	4,146.34	-103.86	-416.24	-100.30	94.00	259.52	1.34
4,272.00	8.35	256.73	4,239.26	-107.10	-430.02	-103.42	94.00	256.78	0.66
4,367.00	10.02	253.12	4,333.04	-111.08	-444.64	-107.28	95.00	254.76	1.86
4,461.00	9.76	251.19	4,425.65	-116.03	-460.01	-112.09	94.00	252.17	0.45
4,556.00	8.79	250.93	4,519.40	-121.00	-474.49	-116.93	95.00	251.07	1.02
4,650.00	8.31	248.55	4,612.36	-125.83	-487.60	-121.65	94.00	249.77	0.63
4,744.00	6.86	246.62	4,705.53	-130.54	-499.08	-126.27	94.00	247.68	1.57
4,839.00	7.74	249.34	4,799.76	-135.05	-510.27	-130.68	95.00	248.06	0.99
4,933.00	8.88	255.67	4,892.78	-139.08	-523.22	-134.60	94.00	252.72	1.55
5,028.00	8.31	248.29	4,986.71	-143.43	-536.71	-138.84	95.00	252.10	1.31
5,123.00	7.56	241.96	5,080.80	-148.91	-548.60	-144.21	95.00	245.27	1.21



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5,217.00	8.66	252.33	5,173.87	-153.96	-560.80	-149.16	94.00	247.50	1.94
5,312.00	7.87	251.89	5,267.88	-158.16	-573.80	-153.24	95.00	252.12	0.83
5,406.00	6.95	250.66	5,361.09	-162.04	-585.28	-157.03	94.00	251.31	0.99
5,501.00	6.95	246.80	5,455.40	-166.21	-595.99	-161.11	95.00	248.73	0.49
5,595.00	6.99	248.82	5,548.70	-170.52	-606.55	-165.32	94.00	247.81	0.26
5,690.00	6.64	247.94	5,643.03	-174.67	-617.03	-169.38	95.00	248.39	0.38
5,785.00	6.07	248.99	5,737.45	-178.53	-626.81	-173.16	95.00	248.44	0.61
5,880.00	4.66	259.63	5,832.03	-181.03	-635.29	-175.59	95.00	253.61	1.81
5,974.00	3.96	289.86	5,925.77	-180.61	-642.10	-175.11	94.00	273.49	2.49
6,069.00	3.69	292.67	6,020.56	-178.32	-648.01	-172.77	95.00	291.22	0.35
6,163.00	2.20	315.88	6,114.44	-175.86	-652.06	-170.27	94.00	301.30	2.00
6,258.00	2.02	326.51	6,209.38	-173.15	-654.25	-167.55	95.00	320.97	0.45
6,353.00	1.89	326.16	6,304.32	-170.45	-656.05	-164.84	95.00	326.34	0.14
6,447.00	1.58	324.75	6,398.28	-168.11	-657.66	-162.48	94.00	325.52	0.33
6,542.00	1.63	317.37	6,493.24	-166.04	-659.33	-160.40	95.00	321.00	0.22
6,637.00	0.92	0.44	6,588.22	-164.29	-660.24	-158.64	95.00	332.64	1.21
6,731.00	0.97	23.20	6,682.21	-162.80	-659.92	-157.15	94.00	12.13	0.40
6,826.00	0.97	25.57	6,777.19	-161.34	-659.26	-155.89	95.00	24.38	0.04
6,920.00	1.05	19.51	6,871.18	-159.81	-658.62	-154.17	94.00	22.42	0.14
7,015.00	1.10	22.85	6,966.16	-158.15	-657.98	-152.51	95.00	21.22	0.08
7,110.00	1.10	22.41	7,061.14	-156.46	-657.28	-150.84	95.00	22.63	0.01
7,205.00	1.27	22.24	7,156.12	-154.65	-656.53	-149.03	95.00	22.32	0.18
7,300.00	1.23	19.86	7,251.10	-152.71	-655.79	-147.10	95.00	21.07	0.07
7,395.00	1.41	11.95	7,346.07	-150.61	-655.20	-145.00	95.00	15.63	0.27
7,489.00	1.19	352.53	7,440.05	-148.51	-655.09	-142.90	94.00	3.07	0.52
7,584.00	1.01	346.38	7,535.03	-146.72	-655.41	-141.11	95.00	349.71	0.23
7,679.00	0.79	352.70	7,630.02	-145.26	-655.69	-139.64	95.00	349.15	0.25



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7,773.00	0.66	331.87	7,724.01	-144.14	-656.03	-138.52	94.00	343.23	0.31
7,868.00	0.40	313.33	7,819.01	-143.43	-656.53	-137.81	95.00	324.89	0.32
7,963.00	0.35	310.87	7,914.01	-143.01	-656.99	-137.38	95.00	312.18	0.06
8,057.00	0.35	237.13	8,008.01	-142.98	-657.45	-137.35	94.00	274.00	0.45
8,152.00	0.57	230.62	8,103.00	-143.43	-658.06	-137.80	95.00	233.10	0.24
8,247.00	0.84	225.79	8,198.00	-144.22	-658.92	-138.58	95.00	227.74	0.29
8,342.00	1.10	221.04	8,292.98	-145.39	-660.02	-139.74	95.00	223.10	0.29
8,437.00	1.27	220.78	8,387.96	-146.88	-661.30	-141.22	95.00	220.90	0.18
8,532.00	1.27	219.02	8,482.94	-148.49	-662.66	-142.82	95.00	219.90	0.04
8,628.00	1.23	207.86	8,576.92	-150.19	-663.78	-144.51	94.00	213.53	0.26
8,721.00	1.23	202.67	8,671.89	-152.04	-664.65	-146.35	95.00	205.26	0.12
8,816.00	1.27	208.56	8,766.87	-153.90	-665.55	-148.20	95.00	205.66	0.14
8,911.00	1.23	207.68	8,861.85	-155.73	-666.53	-150.02	95.00	208.13	0.05
9,005.00	1.41	204.70	8,955.82	-157.67	-667.48	-151.96	94.00	206.09	0.20
9,100.00	1.32	206.63	9,050.80	-159.71	-668.46	-153.99	95.00	205.63	0.11
9,194.00	1.32	208.74	9,144.77	-161.63	-669.46	-155.90	94.00	207.69	0.05
9,289.00	1.27	215.42	9,239.75	-163.45	-670.60	-157.71	95.00	212.02	0.17
9,383.00	1.36	220.34	9,333.72	-165.15	-671.92	-159.39	94.00	217.96	0.15
9,478.00	1.41	220.87	9,428.70	-166.89	-673.42	-161.12	95.00	220.61	0.05
9,573.00	1.54	225.44	9,523.66	-168.67	-675.09	-162.89	95.00	223.26	0.18
9,667.00	0.53	202.41	9,617.65	-169.96	-676.16	-164.17	94.00	219.60	1.14
9,761.00	0.66	151.26	9,711.64	-170.83	-676.06	-165.05	94.00	173.84	0.56
9,856.00	0.57	177.36	9,806.64	-171.79	-675.78	-166.00	95.00	163.34	0.31
9,950.00	0.31	191.86	9,900.64	-172.50	-675.81	-166.72	94.00	182.46	0.30
10,045.00	0.53	177.45	9,995.63	-173.19	-675.84	-167.41	95.00	182.76	0.26
10,140.00	0.75	178.59	10,090.63	-174.25	-675.81	-168.47	95.00	178.12	0.23
10,234.00	1.01	184.74	10,184.62	-175.69	-675.86	-169.91	94.00	182.12	0.29



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10,329.00	1.36	202.59	10,279.60	-177.57	-676.36	-171.78	95.00	194.99	0.53
10,423.00	1.76	206.28	10,373.56	-179.89	-677.43	-174.09	94.00	204.67	0.44
10,517.00	1.93	205.84	10,467.51	-182.61	-678.76	-176.80	94.00	206.05	0.18
10,612.00	2.02	205.66	10,562.46	-185.56	-680.18	-179.74	95.00	205.75	0.09
10,707.00	1.89	211.02	10,657.40	-188.41	-681.72	-182.58	95.00	208.25	0.24
10,802.00	1.85	242.66	10,752.35	-190.46	-683.88	-184.60	95.00	226.67	1.07
10,896.00	3.47	280.11	10,846.25	-190.66	-688.03	-184.77	94.00	267.27	2.44
10,991.00	4.18	285.73	10,941.04	-189.21	-694.20	-183.27	95.00	283.18	0.84
11,085.00	3.25	291.09	11,034.84	-187.33	-699.98	-181.33	94.00	288.07	1.06
11,180.00	2.20	296.01	11,129.74	-185.56	-704.13	-179.53	95.00	293.08	1.13
11,274.00	1.27	339.08	11,223.70	-183.79	-706.13	-177.75	94.00	311.51	1.64
11,369.00	0.92	341.45	11,318.68	-182.09	-706.74	-176.04	95.00	340.08	0.37
11,464.00	1.63	316.93	11,413.65	-180.38	-707.91	-174.32	95.00	325.73	0.93
11,558.00	1.23	256.55	11,507.63	-179.63	-709.80	-173.56	94.00	291.39	1.57
11,653.00	1.85	239.76	11,602.60	-180.64	-712.12	-174.55	95.00	246.45	0.80
11,748.00	1.27	224.21	11,697.56	-182.17	-714.18	-176.06	95.00	233.44	0.75
11,842.00	1.80	231.77	11,791.53	-183.83	-716.07	-177.70	94.00	228.64	0.60
11,937.00	0.57	290.83	11,886.51	-184.59	-717.68	-178.44	95.00	244.92	1.67
12,022.00	1.19	307.62	11,971.50	-183.90	-718.77	-177.74	85.00	302.20	0.78
12,112.00	1.45	295.57	12,061.47	-182.84	-720.54	-176.67	90.00	301.00	0.42
12,206.00	1.93	358.77	12,155.44	-180.74	-721.65	-174.56	94.00	332.16	1.93
KOP @ 12206.00' MD 2646.96' FNL & 1739.01' FEL									
12,300.00	9.93	354.37	12,248.86	-171.08	-722.48	-164.89	94.00	355.09	8.52
12,395.00	20.84	354.73	12,340.32	-146.02	-724.84	-139.82	95.00	354.61	11.48
12,490.00	29.85	358.07	12,426.09	-105.48	-727.19	-99.26	95.00	356.68	9.60
12,585.00	38.46	0.61	12,504.63	-52.21	-727.68	-45.98	95.00	359.48	9.18
12,679.00	46.68	2.99	12,573.81	11.29	-725.58	17.49	94.00	1.89	8.91



Wellbenders
End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Green Wave 20-17
Well: #17H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #17H
TVD Reference: RKB=30' @ 3378.70usft (Cactus 108)
MD Reference: RKB=30' @ 3378.70usft (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)
12,773.00	53.71	2.28	12,633.94	83.38	-722.28	89.55	94.00	2.62	7.50
12,868.00	59.69	1.58	12,686.08	162.70	-719.63	168.85	95.00	1.92	6.32
12,962.00	65.10	2.72	12,729.62	245.91	-716.48	252.02	94.00	2.16	5.85
13,057.00	73.98	2.11	12,762.80	334.74	-712.75	340.83	95.00	2.41	9.37
13,152.00	82.24	2.99	12,782.35	427.53	-708.61	433.58	95.00	2.56	8.74
13,246.00	92.31	4.57	12,786.82	521.10	-702.42	527.09	94.00	3.78	10.84
13,341.00	89.01	4.92	12,785.72	615.75	-694.56	621.67	95.00	4.75	3.49
13,464.00	90.07	5.71	12,786.71	738.22	-683.17	744.03	123.00	5.32	1.07
13,559.00	91.82	5.01	12,785.14	832.78	-674.30	838.52	95.00	5.36	1.98
13,654.00	90.20	5.01	12,783.47	927.40	-666.00	933.07	95.00	5.01	1.71
13,748.00	87.82	3.25	12,785.09	1,021.14	-659.23	1,026.74	94.00	4.13	3.15
13,843.00	87.43	1.93	12,789.03	1,115.95	-654.94	1,121.51	95.00	2.59	1.45
13,938.00	87.65	0.09	12,793.11	1,210.85	-653.27	1,216.39	95.00	1.01	1.95
14,033.00	87.43	0.09	12,797.18	1,305.76	-653.12	1,311.30	95.00	0.09	0.23
14,128.00	89.05	0.17	12,800.10	1,400.71	-652.91	1,406.24	95.00	0.13	1.71
14,222.00	90.15	359.12	12,800.76	1,494.71	-653.49	1,500.24	94.00	359.64	1.62
14,317.00	89.89	358.94	12,800.72	1,589.69	-655.10	1,595.24	95.00	359.03	0.33
14,412.00	90.64	359.47	12,800.29	1,684.68	-656.42	1,690.23	95.00	359.20	0.97
14,507.00	91.08	0.09	12,798.86	1,779.67	-656.78	1,785.22	95.00	359.78	0.80
14,602.00	91.25	0.26	12,796.93	1,874.65	-656.49	1,880.19	95.00	0.17	0.25
14,697.00	91.74	1.23	12,794.45	1,969.61	-655.26	1,975.14	95.00	0.74	1.14
14,792.00	89.32	0.26	12,793.57	2,064.59	-654.02	2,070.10	95.00	0.74	2.74
14,886.00	89.01	0.17	12,794.94	2,158.58	-653.67	2,164.09	94.00	0.22	0.34
14,981.00	88.79	0.70	12,796.76	2,253.55	-652.95	2,259.06	95.00	0.43	0.60
15,075.00	88.88	0.88	12,798.68	2,347.53	-651.65	2,353.01	94.00	0.79	0.21
15,169.00	88.75	1.23	12,800.62	2,441.49	-649.92	2,446.96	94.00	1.05	0.40



Wellbenders End Of Well Report

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Wellbore: OH
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TVD Reference: RKB=30' @ 3378.70usft (Cactus 108)
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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)
15,193.88	89.17	1.00	12,801.07	2,466.36	-649.44	2,471.82	24.88	1.11	1.94
Section Crossing @ 15193.88' MD 0' FNL & 1644.43' FEL									
15,264.00	90.37	0.35	12,801.35	2,536.47	-648.61	2,541.93	70.12	0.67	1.94
15,359.00	90.37	1.14	12,800.74	2,631.46	-647.38	2,636.90	95.00	0.75	0.83
15,454.00	90.64	1.67	12,799.90	2,726.43	-645.05	2,731.85	95.00	1.40	0.63
15,549.00	91.52	2.46	12,798.11	2,821.35	-641.62	2,826.73	95.00	2.06	1.24
15,644.00	89.49	359.91	12,797.27	2,916.31	-639.66	2,921.68	95.00	1.18	3.43
15,738.00	88.75	0.00	12,798.71	3,010.30	-639.73	3,015.66	94.00	359.95	0.79
15,833.00	89.54	357.71	12,800.13	3,105.27	-641.63	3,110.64	95.00	358.85	2.55
15,927.00	89.67	356.75	12,800.78	3,199.15	-646.17	3,204.56	94.00	357.23	1.03
16,021.00	90.77	356.04	12,800.42	3,292.96	-652.08	3,298.42	94.00	356.40	1.39
16,116.00	89.63	355.43	12,800.09	3,387.70	-659.15	3,393.21	95.00	355.73	1.36
16,211.00	91.12	356.40	12,799.47	3,482.45	-665.92	3,488.02	95.00	355.91	1.87
16,301.00	87.38	356.40	12,800.64	3,572.25	-671.57	3,577.86	90.00	356.40	4.16
16,396.00	91.34	358.50	12,801.70	3,667.13	-675.79	3,672.77	95.00	357.45	4.72
16,490.00	90.64	358.24	12,800.08	3,761.07	-678.46	3,766.74	94.00	358.37	0.79
16,584.00	90.24	357.89	12,799.36	3,855.02	-681.64	3,860.70	94.00	358.06	0.57
16,679.00	90.77	357.80	12,798.52	3,949.94	-685.21	3,955.66	95.00	357.85	0.57
16,773.00	89.76	357.10	12,798.09	4,043.85	-689.39	4,049.60	94.00	357.45	1.31
16,867.00	90.68	357.54	12,797.73	4,137.74	-693.79	4,143.53	94.00	357.32	1.08
16,962.00	90.07	356.66	12,797.10	4,232.62	-698.59	4,238.44	95.00	357.10	1.13
17,057.00	89.93	355.34	12,797.10	4,327.39	-705.22	4,333.26	95.00	356.00	1.40
17,151.00	91.65	356.40	12,795.81	4,421.13	-711.99	4,427.05	94.00	355.87	2.15
17,246.00	92.66	357.36	12,792.23	4,515.92	-717.16	4,521.88	95.00	356.88	1.47
17,341.00	92.22	357.54	12,788.19	4,610.74	-721.38	4,616.74	95.00	357.45	0.50
17,435.00	92.13	358.77	12,784.62	4,704.62	-724.40	4,710.64	94.00	358.16	1.31
17,530.00	91.43	359.91	12,781.67	4,799.56	-725.50	4,805.59	95.00	359.34	1.41



Wellbenders End Of Well Report

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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)
17,625.00	89.67	0.88	12,780.76	4,894.55	-724.84	4,900.57	95.00	0.40	2.12
17,719.00	89.27	1.05	12,781.63	4,988.53	-723.26	4,994.54	94.00	0.96	0.46
17,814.00	90.11	1.14	12,782.14	5,083.52	-721.44	5,089.50	95.00	1.10	0.89
17,908.00	90.07	0.26	12,782.00	5,177.51	-720.30	5,183.48	94.00	0.70	0.94
18,003.00	90.42	0.70	12,781.59	5,272.50	-719.50	5,278.46	95.00	0.48	0.59
18,098.00	89.98	0.26	12,781.26	5,367.50	-718.70	5,373.45	95.00	0.48	0.66
18,193.00	90.11	0.35	12,781.18	5,462.50	-718.20	5,468.44	95.00	0.30	0.17
18,287.00	88.97	0.70	12,781.94	5,556.49	-717.34	5,562.42	94.00	0.52	1.27
18,381.00	89.23	0.88	12,783.41	5,650.47	-716.04	5,656.38	94.00	0.79	0.34
18,476.00	88.97	0.88	12,784.91	5,745.44	-714.58	5,751.35	95.00	0.88	0.27
18,571.00	88.66	0.70	12,786.87	5,840.42	-713.27	5,846.30	95.00	0.79	0.38
18,665.00	89.36	0.97	12,788.50	5,934.39	-711.90	5,940.26	94.00	0.84	0.80
18,760.00	89.80	1.05	12,789.19	6,029.37	-710.23	6,035.23	95.00	1.01	0.47
18,854.00	89.71	1.14	12,789.59	6,123.35	-708.43	6,129.19	94.00	1.09	0.14
18,949.00	89.89	1.67	12,789.93	6,218.33	-706.10	6,224.14	95.00	1.41	0.59
19,043.00	89.41	1.58	12,790.50	6,312.29	-703.44	6,318.07	94.00	1.63	0.52
19,137.00	89.67	2.55	12,791.25	6,406.22	-700.05	6,411.97	94.00	2.07	1.07
19,232.00	88.79	2.20	12,792.53	6,501.13	-696.11	6,506.84	95.00	2.38	1.00
19,327.00	88.18	2.81	12,795.04	6,596.00	-691.96	6,601.68	95.00	2.50	0.91
19,421.00	88.00	2.99	12,798.18	6,689.83	-687.21	6,695.46	94.00	2.90	0.27
19,516.00	91.08	2.64	12,798.94	6,784.70	-682.55	6,790.29	95.00	2.81	3.26
19,610.00	91.21	2.72	12,797.06	6,878.58	-678.15	6,884.13	94.00	2.68	0.16
19,705.00	90.20	2.37	12,795.89	6,973.48	-673.93	6,978.99	95.00	2.54	1.13
19,799.00	88.26	0.70	12,797.15	7,067.43	-671.42	7,072.91	94.00	1.54	2.72
19,894.00	87.91	1.05	12,800.33	7,162.36	-669.97	7,167.83	95.00	0.87	0.52
19,988.00	89.85	0.44	12,802.17	7,256.33	-668.74	7,261.79	94.00	0.74	2.16
20,083.00	89.36	0.35	12,802.82	7,351.33	-668.09	7,356.77	95.00	0.40	0.52



Wellbenders End Of Well Report

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Site: Green Wave 20-17
Well: #17H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #17H
TVD Reference: RKB=30' @ 3378.70usft (Cactus 108)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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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)
20,178.00	90.55	0.26	12,802.90	7,446.33	-667.58	7,451.76	95.00	0.30	1.26
20,272.00	90.07	1.58	12,802.39	7,540.31	-666.07	7,545.73	94.00	0.92	1.49
20,366.00	89.85	2.64	12,802.45	7,634.24	-662.61	7,639.83	94.00	2.11	1.15
20,370.82	89.84	2.65	12,802.47	7,639.06	-662.39	7,644.44	4.82	2.65	0.27
100' HL Crossing @ 20370.82' MD 100' FNL & 1612.40 FEL									
20,401.00	89.80	2.72	12,802.56	7,669.21	-660.98	7,674.58	30.18	2.69	0.27
20,460.00	89.80	2.72	12,802.77	7,728.14	-658.18	7,733.49	59.00	2.72	0.00
BHL @ 20460.00' MD 11.33' FNL & 1607.41' FEL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,206.00	12,155.44	-180.74	-721.65	KOP @ 12206.00' MD 2646.96' FNL & 1739.01' FEL
15,193.88	12,801.07	2,466.36	-649.44	Section Crossing @ 15193.88' MD 0' FNL & 1644.43' FEL
20,370.82	12,802.47	7,639.06	-662.39	100' HL Crossing @ 20370.82' MD 100' FNL & 1612.40 FEL
20,460.00	12,802.77	7,728.14	-658.18	BHL @ 20460.00' MD 11.33' FNL & 1607.41' FEL

Checked By: _____ Approved By: _____ Date: _____