

Devon

Mean Green 23-35 Fed Com 3H

H&P 466

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

Casey J. Sorko

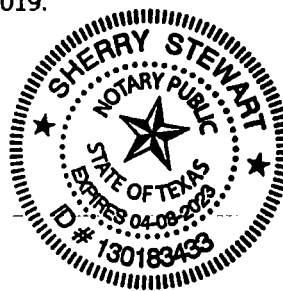
Notarized this data 8th of August, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



Scientific Drilling

The

In Wellbore Placement

Devon Energy

Lea County, NM (NAD83 NME)

Mean Green 23-25 Fed Com

3H

OH

Survey: SDI Surveys #1

Standard Survey Report

31 January, 2019



www.scientificdrilling.com

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 3H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Site:	Mean Green 23-25 Fed Com	MD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Well:	3H	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	Mean Green 23-25 Fed Com				
Site Position:		Northing:	375,205.44 usft	Latitude:	32° 1' 42.017 N
From:	Map	Easting:	819,720.56 usft	Longitude:	103° 26' 6.103 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.48 °

Well	3H					
Well Position	+N-S	0.00 usft	Northing:	375,205.49 usft	Latitude:	32° 1' 42.012 N
	+E-W	0.00 usft	Easting:	819,780.53 usft	Longitude:	103° 26' 5.407 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,193.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	1/2/2019	(°)	(°)	(nT)
			6.65	59.68	47,698

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(bearing)	
	0.00	0.00	0.00	176.97	

Survey Program	Date	1/31/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
139.00	21,671.00	SDI Surveys #1 (OH)	MWD+HDGM	OWSG MWD + HDGM

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139.00	0.23	174.24	139.00	-0.28	0.03	0.28	0.17	0.17	0.00
231.00	0.62	238.17	231.00	-0.72	-0.38	0.70	0.61	0.42	69.49
333.00	0.67	199.97	332.99	-1.58	-1.05	1.52	0.42	0.05	-37.45
425.00	0.65	229.47	424.99	-2.42	-1.63	2.33	0.37	-0.02	32.07
517.00	0.99	212.90	516.98	-3.43	-2.46	3.29	0.45	0.37	-18.01
609.00	0.62	213.99	608.97	-4.51	-3.17	4.33	0.40	-0.40	1.18
701.00	0.63	226.21	700.96	-5.27	-3.81	5.06	0.15	0.01	13.28
793.00	0.77	214.23	792.95	-6.13	-4.52	5.88	0.22	0.15	-13.02
887.00	0.79	211.84	886.95	-7.20	-5.22	6.92	0.04	0.02	-2.54

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Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
982.00	1.27	229.36	981.93	-8.45	-6.37	8.10	0.60	0.51	18.44
1,070.00	0.72	241.97	1,069.92	-9.34	-7.59	8.93	0.67	-0.63	14.33
1,162.00	0.64	249.32	1,161.91	-9.79	-8.58	9.33	0.13	-0.09	7.99
1,253.00	0.59	238.36	1,252.91	-10.22	-9.46	9.70	0.14	-0.05	-12.04
1,345.00	0.64	231.72	1,344.90	-10.79	-10.27	10.23	0.09	0.05	-7.22
1,437.00	0.66	242.87	1,436.89	-11.35	-11.14	10.74	0.14	0.02	12.12
1,529.00	0.62	253.38	1,528.89	-11.73	-12.09	11.07	0.13	-0.04	11.42
1,621.00	0.72	255.65	1,620.88	-12.01	-13.13	11.30	0.11	0.11	2.47
1,714.00	0.60	250.80	1,713.88	-12.32	-14.15	11.55	0.14	-0.13	-5.22
1,808.00	0.60	234.82	1,807.87	-12.77	-15.02	11.95	0.18	0.00	-17.00
1,902.00	0.55	232.53	1,901.87	-13.32	-15.78	12.47	0.06	-0.05	-2.44
1,996.00	0.62	217.92	1,995.86	-14.00	-16.45	13.11	0.17	0.07	-15.54
2,091.00	0.20	61.67	2,090.86	-14.33	-16.62	13.43	0.85	-0.44	-164.47
2,185.00	0.99	35.20	2,184.85	-13.58	-16.01	12.72	0.87	0.84	-28.16
2,278.00	2.35	18.30	2,277.81	-11.12	-14.95	10.31	1.54	1.46	-18.17
2,373.00	3.63	2.91	2,372.68	-6.26	-14.18	5.51	1.58	1.35	-16.20
2,466.00	4.82	358.56	2,465.43	0.58	-14.13	-1.33	1.32	1.28	-4.68
2,560.00	6.09	356.02	2,559.00	9.50	-14.58	-10.26	1.37	1.35	-2.70
2,655.00	7.48	354.24	2,653.33	20.68	-15.55	-21.48	1.48	1.46	-1.87
2,749.00	8.57	359.34	2,746.41	33.78	-16.24	-34.59	1.38	1.16	5.43
2,844.00	9.37	5.11	2,840.25	48.56	-15.63	-49.32	1.27	0.84	6.07
2,938.00	9.18	6.88	2,933.02	63.62	-14.05	-64.28	0.36	-0.20	1.88
3,032.00	9.07	7.53	3,025.83	78.41	-12.18	-78.95	0.16	-0.12	0.69
3,126.00	9.14	8.64	3,118.65	93.14	-10.09	-93.54	0.20	0.07	1.18
3,221.00	9.05	10.33	3,212.46	107.95	-7.62	-108.20	0.30	-0.09	1.78
3,315.00	9.40	6.01	3,305.24	122.86	-5.49	-122.97	0.83	0.37	-4.60
3,409.00	9.44	6.18	3,397.97	138.15	-3.86	-138.17	0.05	0.04	0.18
3,504.00	9.08	1.80	3,491.74	153.39	-2.78	-153.33	0.83	-0.38	-4.61
3,598.00	9.11	359.56	3,584.55	168.25	-2.61	-168.15	0.38	0.03	-2.38
3,692.00	8.81	359.53	3,677.41	182.89	-2.72	-182.78	0.32	-0.32	-0.03
3,786.00	8.39	358.27	3,770.35	196.94	-2.99	-196.82	0.49	-0.45	-1.34
3,881.00	7.87	357.21	3,864.40	210.36	-3.51	-210.26	0.57	-0.55	-1.12
3,974.00	7.36	355.89	3,956.57	222.67	-4.25	-222.58	0.58	-0.55	-1.42
4,069.00	7.45	359.69	4,050.78	234.89	-4.72	-234.81	0.52	0.09	4.00
4,163.00	8.27	5.71	4,143.90	247.71	-4.08	-247.58	1.24	0.87	6.40
4,257.00	7.83	5.81	4,236.97	260.81	-2.76	-260.59	0.47	-0.47	0.11
4,351.00	7.32	5.53	4,330.15	273.14	-1.53	-272.84	0.54	-0.54	-0.30
4,445.00	7.63	3.85	4,423.35	285.33	-0.54	-284.96	0.40	0.33	-1.79
4,540.00	7.29	4.78	4,517.55	297.63	0.39	-297.19	0.38	-0.36	0.98
4,634.00	7.55	6.59	4,610.76	309.71	1.59	-309.19	0.37	0.28	1.93
4,728.00	7.68	5.76	4,703.93	322.09	2.93	-321.48	0.18	0.14	-0.88
4,823.00	6.96	7.54	4,798.16	334.11	4.33	-333.42	0.79	-0.76	1.87
4,917.00	7.32	8.06	4,891.43	345.69	5.91	-344.89	0.39	0.38	0.55
5,011.00	7.74	7.77	4,984.62	357.89	7.61	-356.99	0.45	0.45	-0.31

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Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,105.00	7.24	8.92	5,077.82	370.01	9.38	-369.00	0.56	-0.53	1.22
5,200.00	6.64	7.66	5,172.12	381.37	11.04	-380.25	0.65	-0.63	-1.33
5,292.00	5.83	8.20	5,263.58	391.27	12.42	-390.06	0.88	-0.88	0.59
5,383.00	5.17	11.54	5,354.16	399.86	13.90	-398.56	0.81	-0.73	3.67
5,478.00	6.43	10.05	5,448.67	409.29	15.68	-407.89	1.34	1.33	-1.57
5,572.00	8.20	6.24	5,541.90	421.14	17.33	-419.63	1.95	1.88	-4.05
5,666.00	8.58	2.91	5,634.90	434.80	18.41	-433.22	0.66	0.40	-3.54
5,760.00	8.39	0.89	5,727.87	448.66	18.88	-447.04	0.38	-0.20	-2.15
5,854.00	8.00	358.86	5,820.91	462.06	18.85	-460.42	0.52	-0.41	-2.16
5,948.00	7.95	356.30	5,914.00	475.09	18.30	-473.46	0.38	-0.05	-2.72
6,043.00	8.79	355.41	6,007.99	488.88	17.30	-487.28	0.89	0.88	-0.94
6,137.00	9.03	353.54	6,100.85	503.37	15.89	-501.82	0.40	0.26	-1.99
6,231.00	8.62	351.97	6,193.74	517.67	14.08	-516.21	0.51	-0.44	-1.67
6,325.00	7.48	350.61	6,286.81	530.69	12.10	-529.30	1.23	-1.21	-1.45
6,420.00	6.87	355.50	6,381.07	542.45	10.64	-541.13	0.91	-0.64	5.15
6,514.00	7.57	357.74	6,474.32	554.24	9.96	-552.94	0.80	0.74	2.38
6,609.00	8.39	355.80	6,568.40	567.41	9.20	-566.13	0.91	0.86	-2.04
6,703.00	8.46	354.72	6,661.39	581.13	8.06	-579.89	0.18	0.07	-1.15
6,797.00	8.45	353.82	6,754.36	594.88	6.68	-593.70	0.14	-0.01	-0.96
6,891.00	8.53	352.97	6,847.33	608.67	5.09	-607.55	0.16	0.09	-0.90
6,986.00	8.55	351.90	6,941.28	622.65	3.23	-621.61	0.17	0.02	-1.13
7,080.00	8.37	350.28	7,034.26	636.31	1.09	-635.37	0.32	-0.19	-1.72
7,175.00	8.01	348.59	7,128.29	649.62	-1.39	-648.78	0.46	-0.38	-1.78
7,269.00	7.48	346.87	7,221.43	662.00	-4.07	-661.29	0.62	-0.56	-1.83
7,363.00	7.02	352.12	7,314.68	673.64	-6.25	-673.03	0.86	-0.49	5.59
7,457.00	7.13	353.90	7,407.97	685.14	-7.66	-684.58	0.26	0.12	1.89
7,552.00	6.69	3.71	7,502.28	696.52	-7.93	-695.97	1.32	-0.46	10.33
7,646.00	5.90	5.24	7,595.71	706.80	-7.13	-706.18	0.86	-0.84	1.63
7,740.00	5.00	4.13	7,689.29	715.69	-6.39	-715.03	0.96	-0.96	-1.18
7,834.00	3.36	9.91	7,783.03	722.49	-5.62	-721.78	1.80	-1.74	6.15
7,928.00	2.91	7.02	7,876.89	727.57	-4.86	-726.81	0.51	-0.48	-3.07
8,022.00	1.85	355.35	7,970.81	731.45	-4.69	-730.68	1.23	-1.13	-12.41
8,117.00	1.25	355.48	8,065.77	734.02	-4.90	-733.25	0.63	-0.63	0.14
8,211.00	1.14	18.73	8,159.75	735.92	-4.68	-735.14	0.52	-0.12	24.73
8,305.00	0.78	27.74	8,253.74	737.38	-4.08	-736.56	0.41	-0.38	9.59
8,399.00	0.77	49.95	8,347.73	738.35	-3.30	-737.49	0.32	-0.01	23.63
8,494.00	0.89	63.96	8,442.72	739.08	-2.15	-738.16	0.25	0.13	14.75
8,588.00	0.69	86.42	8,536.71	739.44	-0.92	-738.45	0.39	-0.21	23.89
8,683.00	0.98	102.97	8,631.70	739.29	0.44	-738.24	0.39	0.31	17.42
8,777.00	1.26	126.77	8,725.69	738.49	2.05	-737.35	0.57	0.30	25.32
8,870.00	1.44	141.57	8,818.66	736.97	3.59	-735.74	0.42	0.19	15.91
8,965.00	1.67	153.30	8,913.63	734.79	4.96	-733.50	0.41	0.24	12.35
9,059.00	1.80	155.63	9,007.58	732.23	6.18	-730.87	0.16	0.14	2.48

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Survey Report

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9,153.00	1.50	136.56	9,101.54	729.99	7.64	-728.56	0.66	-0.32	-20.29
9,247.00	1.68	149.53	9,195.51	727.91	9.18	-726.40	0.43	0.19	13.80
9,342.00	1.98	161.76	9,290.46	725.15	10.40	-723.58	0.52	0.32	12.87
9,436.00	2.01	169.21	9,384.40	721.99	11.22	-720.38	0.28	0.03	7.93
9,531.00	2.00	176.50	9,479.35	718.69	11.63	-717.07	0.27	-0.01	7.67
9,625.00	1.82	186.92	9,573.29	715.58	11.55	-713.96	0.42	-0.19	11.09
9,719.00	1.42	190.19	9,667.26	712.95	11.17	-711.36	0.44	-0.43	3.48
9,814.00	2.30	167.38	9,762.21	709.93	11.38	-708.33	1.19	0.93	-24.01
9,908.00	3.05	170.06	9,856.10	705.62	12.22	-703.99	0.81	0.80	2.85
10,003.00	3.36	171.83	9,950.95	700.38	13.05	-698.71	0.34	0.33	1.86
10,097.00	3.87	169.47	10,044.77	694.53	14.02	-692.82	0.57	0.54	-2.51
10,191.00	3.57	162.61	10,138.57	688.62	15.48	-686.84	0.57	-0.32	-7.30
10,286.00	3.95	165.55	10,233.37	682.63	17.18	-680.77	0.45	0.40	3.09
10,333.00	5.95	152.17	10,280.19	678.91	18.72	-676.97	4.89	4.26	-28.47
10,380.00	9.58	140.54	10,326.75	673.73	22.34	-671.61	8.38	7.72	-24.74
10,475.00	12.15	133.58	10,420.05	660.73	34.61	-657.98	3.03	2.71	-7.33
10,522.00	16.99	129.20	10,465.52	652.98	43.52	-649.77	10.55	10.30	-9.32
10,569.00	22.09	127.89	10,509.80	643.21	55.83	-639.36	10.89	10.85	-2.79
10,616.00	26.37	128.32	10,552.65	631.30	71.00	-626.67	9.11	9.11	0.91
10,664.00	30.80	133.18	10,594.80	616.27	88.33	-610.74	10.42	9.23	10.13
10,711.00	36.94	135.76	10,633.80	597.90	106.98	-591.41	13.41	13.06	5.49
10,758.00	42.64	134.85	10,669.90	576.54	128.13	-568.96	12.19	12.13	-1.94
10,805.00	47.73	131.81	10,703.02	553.70	152.40	-544.87	11.76	10.83	-6.47
10,852.00	52.72	130.83	10,733.08	529.87	179.53	-519.64	10.74	10.62	-2.09
10,899.00	57.36	131.15	10,760.01	504.61	208.59	-492.88	9.89	9.87	0.68
10,947.00	62.83	132.19	10,783.93	476.95	239.66	-463.61	11.55	11.40	2.17
10,994.00	67.82	133.52	10,803.55	447.90	270.95	-432.95	10.92	10.62	2.83
11,041.00	73.38	137.05	10,819.15	416.40	302.10	-399.85	13.79	11.83	7.51
11,088.00	77.99	142.10	10,830.78	381.74	331.60	-363.68	14.30	9.81	10.74
11,135.00	81.30	148.16	10,839.23	343.83	358.00	-324.42	14.51	7.04	12.89
11,182.00	84.04	155.34	10,845.24	302.79	380.04	-282.28	16.23	5.83	15.28
11,230.00	85.70	162.74	10,849.54	258.18	397.13	-236.82	15.74	3.46	15.42
11,277.00	87.28	170.63	10,852.42	212.56	407.92	-190.70	17.09	3.36	16.79
11,373.00	89.53	178.30	10,855.09	117.12	417.17	-94.91	8.32	2.34	7.99
11,465.00	90.37	178.22	10,855.17	25.17	419.96	-2.93	0.92	0.91	-0.09
11,557.00	88.79	178.30	10,855.85	-66.78	422.75	89.04	1.72	-1.72	0.09
11,566.63	88.61	178.23	10,856.07	-76.41	423.04	98.66	1.97	-1.85	-0.69
FTP[MG13H]									
11,650.00	87.07	177.66	10,859.21	-159.66	426.03	181.96	1.97	-1.85	-0.69
11,742.00	86.55	176.64	10,864.33	-251.40	430.60	273.81	1.24	-0.57	-1.11
11,834.00	88.39	177.14	10,868.39	-343.17	435.58	365.72	2.07	2.00	0.54
11,925.00	88.49	176.82	10,870.87	-434.01	440.37	456.69	0.37	0.11	-0.35
12,017.00	89.73	177.14	10,872.29	-525.87	445.22	548.67	1.39	1.35	0.35
12,110.00	90.67	176.57	10,871.97	-618.73	450.32	641.67	1.18	1.01	-0.61

Scientific Drilling, Intl Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 3H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Site:	Mean Green 23-25 Fed Com	MD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,202.00	91.78	177.74	10,870.00	-710.59	454.89	733.65	1.75	1.21	1.27
12,294.00	93.47	178.58	10,865.79	-802.45	457.84	825.53	2.05	1.84	0.91
12,388.00	94.47	180.12	10,859.28	-896.21	458.90	919.21	1.95	1.06	1.64
12,482.00	92.92	180.96	10,853.22	-990.01	458.02	1,012.83	1.87	-1.65	0.89
12,576.00	90.40	181.76	10,850.50	-1,083.93	455.79	1,106.51	2.81	-2.68	0.85
12,671.00	89.06	182.22	10,850.95	-1,178.87	452.49	1,201.14	1.49	-1.41	0.48
12,765.00	86.06	182.66	10,854.95	-1,272.69	448.49	1,294.62	3.23	-3.19	0.47
12,860.00	85.19	182.23	10,862.20	-1,367.33	444.45	1,388.91	1.02	-0.92	-0.45
12,954.00	86.04	182.18	10,869.38	-1,460.98	440.85	1,482.24	0.91	0.90	-0.05
13,049.00	85.47	179.46	10,876.42	-1,555.70	439.49	1,576.76	2.92	-0.60	-2.86
13,143.00	90.91	178.48	10,879.38	-1,649.60	441.18	1,670.62	5.88	5.79	-1.04
13,237.00	92.72	178.40	10,876.41	-1,743.52	443.74	1,764.54	1.93	1.93	-0.09
13,332.00	90.74	178.59	10,873.54	-1,838.44	446.23	1,859.45	2.09	-2.08	0.20
13,426.00	91.27	177.66	10,871.89	-1,932.37	449.30	1,953.42	1.14	0.56	-0.99
13,521.00	91.55	176.87	10,869.55	-2,027.23	453.84	2,048.39	0.88	0.29	-0.83
13,615.00	91.08	176.02	10,867.40	-2,121.03	459.66	2,142.36	1.03	-0.50	-0.90
13,709.00	91.24	176.91	10,865.49	-2,214.83	465.46	2,236.33	0.96	0.17	0.95
13,803.00	92.01	178.42	10,862.83	-2,308.71	469.29	2,330.29	1.80	0.82	1.61
13,898.00	91.45	178.75	10,859.96	-2,403.63	471.63	2,425.20	0.68	-0.59	0.35
13,992.00	90.87	179.36	10,858.06	-2,497.60	473.18	2,519.12	0.90	-0.62	0.65
14,086.00	90.50	180.87	10,856.93	-2,591.59	472.99	2,612.97	1.65	-0.39	1.61
14,180.00	90.47	181.30	10,856.14	-2,685.57	471.21	2,706.73	0.46	-0.03	0.46
14,275.00	89.97	181.70	10,855.77	-2,780.54	468.73	2,801.43	0.67	-0.53	0.42
14,369.00	90.40	182.07	10,855.47	-2,874.49	465.63	2,895.08	0.60	0.46	0.39
14,463.00	88.72	181.16	10,856.19	-2,968.44	462.98	2,988.76	2.03	-1.79	-0.97
14,557.00	89.09	180.77	10,857.99	-3,062.41	461.40	3,082.52	0.57	0.39	-0.41
14,652.00	90.13	180.76	10,858.63	-3,157.40	460.13	3,177.31	1.09	1.09	-0.01
14,746.00	90.94	180.57	10,857.76	-3,251.39	459.04	3,271.11	0.89	0.86	-0.20
14,840.00	89.76	179.79	10,857.18	-3,345.38	458.75	3,364.96	1.50	-1.26	-0.83
14,934.00	90.77	179.89	10,856.75	-3,439.38	459.01	3,458.83	1.08	1.07	0.11
14,975.36	91.05	179.67	10,856.09	-3,480.73	459.17	3,500.14	0.86	0.68	-0.53
T1[MG13H]									
15,026.90	91.40	179.40	10,854.99	-3,532.26	459.59	3,551.62	0.86	0.68	-0.53
WP									
15,028.00	91.41	179.39	10,854.96	-3,533.36	459.60	3,552.72	0.86	0.68	-0.53
15,123.00	92.62	179.41	10,851.62	-3,628.30	460.59	3,647.57	1.27	1.27	0.02
15,216.00	92.05	180.44	10,847.83	-3,721.22	460.72	3,740.37	1.26	-0.61	1.11
15,311.00	90.44	180.65	10,845.77	-3,816.19	459.81	3,835.16	1.71	-1.69	0.22
15,405.00	89.19	180.52	10,846.07	-3,910.18	458.85	3,928.97	1.34	-1.33	-0.14
15,499.00	89.43	180.14	10,847.20	-4,004.17	458.31	4,022.80	0.48	0.26	-0.40
15,593.00	90.17	180.12	10,847.53	-4,098.17	458.10	4,116.65	0.79	0.79	-0.02
15,688.00	90.84	180.89	10,846.69	-4,193.16	457.26	4,211.47	1.07	0.71	0.81
15,783.00	91.55	181.01	10,844.71	-4,288.13	455.69	4,306.22	0.76	0.75	0.13

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 3H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Site:	Mean Green 23-25 Fed Com	MD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,877.00	90.84	180.72	10,842.75	-4,382.09	454.27	4,399.98	0.82	-0.76	-0.31
15,971.00	91.58	180.77	10,840.76	-4,476.06	453.05	4,493.75	0.79	0.79	0.05
16,065.00	91.38	181.06	10,838.34	-4,570.02	451.54	4,587.50	0.37	-0.21	0.31
16,159.00	90.00	180.58	10,837.20	-4,664.00	450.20	4,681.28	1.55	-1.47	-0.51
16,253.00	90.64	180.19	10,836.68	-4,758.00	449.57	4,775.11	0.80	0.68	-0.41
16,347.00	92.05	180.51	10,834.47	-4,851.97	448.99	4,868.92	1.54	1.50	0.34
16,442.00	91.48	179.87	10,831.55	-4,946.92	448.68	4,963.72	0.90	-0.60	-0.67
16,536.00	89.87	180.30	10,830.44	-5,040.91	448.54	5,057.57	1.77	-1.71	0.46
16,630.00	90.17	180.72	10,830.41	-5,134.91	447.70	5,151.39	0.55	0.32	0.45
16,724.00	91.11	180.64	10,829.36	-5,228.89	446.59	5,245.19	1.00	1.00	-0.09
16,819.00	91.01	179.34	10,827.60	-5,323.88	446.60	5,340.04	1.37	-0.11	-1.37
16,913.00	90.37	177.85	10,826.47	-5,417.84	448.91	5,433.99	1.73	-0.68	-1.59
17,008.00	91.01	177.64	10,825.32	-5,512.76	452.65	5,528.98	0.71	0.67	-0.22
17,102.00	91.45	177.36	10,823.31	-5,606.64	456.75	5,622.95	0.55	0.47	-0.30
17,196.00	92.29	178.17	10,820.24	-5,700.52	460.41	5,716.89	1.24	0.89	0.86
17,290.00	90.60	177.82	10,817.87	-5,794.43	463.70	5,810.84	1.84	-1.80	-0.37
17,385.00	90.64	178.05	10,816.84	-5,889.36	467.12	5,905.82	0.25	0.04	0.24
17,479.00	91.61	177.80	10,814.99	-5,983.28	470.52	5,999.79	1.07	1.03	-0.27
17,574.00	89.90	178.78	10,813.74	-6,078.23	473.36	6,094.75	2.07	-1.80	1.03
17,668.00	90.50	179.50	10,813.41	-6,172.21	474.77	6,188.68	1.00	0.64	0.77
17,762.00	91.28	179.46	10,811.95	-6,266.20	475.62	6,282.58	0.83	0.83	-0.04
17,856.00	92.08	179.74	10,809.20	-6,360.16	476.28	6,376.44	0.90	0.85	0.30
17,951.00	91.38	178.84	10,806.33	-6,455.10	477.45	6,471.32	1.20	-0.74	-0.95
18,045.00	89.03	178.82	10,805.99	-6,549.08	479.37	6,565.26	2.50	-2.50	-0.02
18,139.00	88.69	178.82	10,807.86	-6,643.04	481.31	6,659.19	0.36	-0.36	0.00
18,233.00	88.89	178.69	10,809.85	-6,736.99	483.35	6,753.13	0.25	0.21	-0.14
18,327.00	91.24	179.33	10,809.74	-6,830.97	484.97	6,847.06	2.59	2.50	0.68
18,421.00	92.79	179.65	10,806.44	-6,924.91	485.81	6,940.91	1.68	1.65	0.34
18,515.00	90.44	179.99	10,803.79	-7,018.86	486.11	7,034.75	2.53	-2.50	0.36
18,610.00	89.93	179.96	10,803.48	-7,113.86	486.15	7,129.62	0.54	-0.54	-0.03
18,704.00	89.80	179.95	10,803.70	-7,207.86	486.22	7,223.49	0.14	-0.14	-0.01
18,798.00	91.28	178.09	10,802.82	-7,301.84	487.83	7,317.42	2.53	1.57	-1.98
18,893.00	92.85	177.79	10,799.39	-7,396.71	491.24	7,412.34	1.68	1.65	-0.32
18,988.00	92.52	178.11	10,794.94	-7,491.55	494.64	7,507.22	0.48	-0.35	0.34
19,082.00	92.08	178.04	10,791.17	-7,585.42	497.79	7,601.13	0.47	-0.47	-0.07
19,177.00	91.91	177.64	10,787.86	-7,680.29	501.37	7,696.06	0.46	-0.18	-0.42
19,271.00	91.85	177.34	10,784.78	-7,774.15	505.48	7,790.00	0.33	-0.06	-0.32
19,366.00	91.07	178.46	10,782.36	-7,869.06	508.96	7,884.96	1.44	-0.82	1.18
19,460.00	90.71	178.51	10,780.90	-7,963.01	511.45	7,978.91	0.39	-0.38	0.05
19,554.00	91.51	178.05	10,779.08	-8,056.95	514.27	8,072.87	0.98	0.85	-0.49
19,649.00	92.95	178.05	10,775.38	-8,151.82	517.50	8,167.78	1.52	1.52	0.00
19,743.00	92.69	178.84	10,770.76	-8,245.67	520.05	8,261.63	0.88	-0.28	0.84
19,837.00	91.88	180.09	10,767.01	-8,339.59	520.92	8,355.47	1.58	-0.86	1.33
19,931.00	89.56	181.02	10,765.83	-8,433.57	520.01	8,449.27	2.66	-2.47	0.99

Scientific Drilling, Intl
Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 3H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Site:	Mean Green 23-25 Fed Com	MD Reference:	KB = 26' @ 3219.00usft (H&P 466)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,026.00	88.69	180.60	10,767.28	-8,528.55	518.67	8,544.04	1.02	-0.92	-0.44
20,120.00	89.70	180.38	10,768.60	-8,622.53	517.87	8,637.85	1.10	1.07	-0.23
20,215.00	89.53	180.21	10,769.24	-8,717.53	517.38	8,732.69	0.25	-0.18	-0.18
20,309.00	90.40	180.16	10,769.30	-8,811.53	517.07	8,826.54	0.93	0.93	-0.05
20,403.00	89.93	180.04	10,769.03	-8,905.53	516.91	8,920.40	0.52	-0.50	-0.13
20,498.00	90.37	179.98	10,768.78	-9,000.53	516.89	9,015.27	0.47	0.46	-0.06
20,592.00	91.48	179.95	10,767.26	-9,094.51	516.95	9,109.13	1.18	1.18	-0.03
20,687.00	91.48	180.55	10,764.81	-9,189.48	516.54	9,203.94	0.63	0.00	0.63
20,781.00	90.24	180.39	10,763.39	-9,283.47	515.76	9,297.75	1.33	-1.32	-0.17
20,875.00	91.07	180.69	10,762.32	-9,377.45	514.88	9,391.56	0.94	0.88	0.32
20,969.00	90.07	180.25	10,761.39	-9,471.45	514.11	9,485.38	1.16	-1.06	-0.47
21,064.00	91.07	180.19	10,760.44	-9,566.44	513.74	9,580.22	1.05	1.05	-0.06
21,158.00	91.24	180.30	10,758.55	-9,660.42	513.34	9,674.05	0.22	0.18	0.12
21,253.00	92.05	180.41	10,755.82	-9,755.38	512.75	9,768.84	0.86	0.85	0.12
21,347.00	92.49	180.38	10,752.10	-9,849.30	512.11	9,862.60	0.47	0.47	-0.03
21,441.00	92.62	180.41	10,747.90	-9,943.21	511.46	9,956.34	0.14	0.14	0.03
21,495.59	92.50	180.29	10,745.46	-9,997.74	511.12	10,010.78	0.30	-0.21	-0.21
BHL[MG13H]									
21,535.00	92.42	180.21	10,743.77	-10,037.11	510.95	10,050.09	0.30	-0.21	-0.21
21,600.00	92.79	180.27	10,740.82	-10,102.04	510.68	10,114.92	0.58	0.57	0.09
FINAL MWD Survey (21600.00' MD)									
21,671.00	92.79	180.27	10,737.36	-10,172.96	510.34	10,185.71	0.00	0.00	0.00
FINAL Proj. to Bit (21671.00' MD) - BHL.FINAL[MG13H]									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
21,600.00	10,740.82	-10,102.04	510.68	FINAL MWD Survey (21600.00' MD)
21,671.00	10,737.36	-10,172.96	510.34	FINAL Proj. to Bit (21671.00' MD)

Checked By: _____ Approved By: _____ Date: _____