



Railroad Commission of Texas
Oil and Gas Division
P.O. Box 12967
Capitol Station
Austin, TX 78711

June 26, 2017

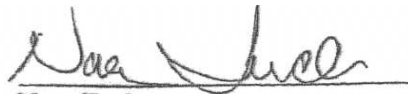
Attn: Pam Johns

RE: Felix Energy
"UL Fremont 38-17 1H" (Pilot Hole)
Ward County, Texas
API #: 42-475-37230

Enclosed, please find the original and one copy of the survey performed on the referenced well by LEAM Drilling Services. (P-5 No. 491647). Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Randy W. Rakowitz	(Pilot Hole)	0' – 13,385'	05/24/17 – 06/12/17	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Nora Tucker
Well Planner

Enclosures

Leam Drilling Systems LLC

Survey Report

Company:	FELIX ENERGY HOLDINGS II, LLC	Local Co-ordinate Reference:	Well UL Fremont 38-17 1H
Project:	Ward County, TX	TVD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Site:	UL Fremont	MD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Well:	UL Fremont 38-17 1H	North Reference:	Grid
Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	EDM 5000.1 Multi_User DB

Project		Ward County, TX	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	UL Fremont				
Site Position:		Northing:	696,151.43 usft	Latitude:	31° 32' 57.795 N
From:	Map	Easting:	1,110,351.46 usft	Longitude:	103° 11' 22.559 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.47 °

Well	UL Fremont 38-17 1H					
Well Position	+N/-S	0.00 usft	Northing:	696,151.43 usft	Latitude:	31° 32' 57.795 N
	+E/-W	0.00 usft	Easting:	1,110,351.46 usft	Longitude:	103° 11' 22.559 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,651.78 usft

Wellbore	Pilot Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/13/2017	7.23	59.53	47,628

Design	Pilot Hole				
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	249.45	

Survey Program		Date	6/26/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
106.00	13,337.00	Survey #1 (Pilot Hole)	LEAM_MWD+HDGM	LEAM MWD + HDGM	
13,385.00	13,385.00	Survey #2 (Pilot Hole)	Project	Projection	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	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
106.00	0.00	0.00	106.00	0.00	0.00	0.00	0.00	0.00	0.00
228.00	0.10	358.70	228.00	0.11	0.00	-0.04	0.08	0.08	0.00
323.00	0.30	302.40	323.00	0.32	-0.21	0.09	0.27	0.21	-59.26
414.00	0.70	311.70	414.00	0.82	-0.83	0.49	0.45	0.44	10.22
505.00	0.60	315.40	504.99	1.53	-1.58	0.94	0.12	-0.11	4.07
597.00	0.70	295.60	596.98	2.11	-2.43	1.53	0.27	0.11	-21.52
689.00	1.50	326.20	688.97	3.36	-3.60	2.19	1.05	0.87	33.26

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Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	EDM 5000.1 Multi_User DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
781.00	1.60	316.80	780.93	5.30	-5.15	2.96	0.30	0.11	-10.22
872.00	1.80	307.40	871.89	7.09	-7.16	4.21	0.38	0.22	-10.33
980.00	2.60	334.40	979.82	10.33	-9.56	5.33	1.19	0.74	25.00
1,057.00	3.20	337.40	1,056.72	13.89	-11.14	5.56	0.80	0.78	3.90
1,148.00	1.80	17.50	1,147.63	17.60	-11.69	4.77	2.37	-1.54	44.07
1,240.00	3.10	72.20	1,239.56	19.74	-8.89	1.39	2.75	1.41	59.46
1,332.00	4.80	92.90	1,331.34	20.30	-2.67	-4.62	2.38	1.85	22.50
1,425.00	5.90	109.10	1,423.94	18.54	5.73	-11.87	2.00	1.18	17.42
1,517.00	8.10	122.30	1,515.26	13.53	15.68	-19.43	2.95	2.39	14.35
1,609.00	9.80	113.30	1,606.14	6.97	28.35	-28.99	2.39	1.85	-9.78
1,701.00	8.10	128.90	1,697.03	-0.20	40.59	-37.94	3.20	-1.85	16.96
1,793.00	11.90	108.00	1,787.64	-7.21	54.66	-48.66	5.65	4.13	-22.72
1,885.00	13.80	109.10	1,877.33	-13.73	74.06	-64.52	2.08	2.07	1.20
1,977.00	13.00	111.20	1,966.83	-21.06	94.07	-80.69	1.02	-0.87	2.28
2,069.00	10.80	127.90	2,056.87	-30.10	110.53	-92.93	4.42	-2.39	18.15
2,163.00	10.60	134.00	2,149.24	-41.52	123.70	-101.25	1.22	-0.21	6.49
2,258.00	10.90	129.10	2,242.57	-53.25	136.95	-109.54	1.01	0.32	-5.16
2,352.00	9.90	136.80	2,335.03	-64.75	149.38	-117.15	1.82	-1.06	8.19
2,447.00	9.60	142.80	2,428.66	-77.01	159.76	-122.56	1.11	-0.32	6.32
2,541.00	9.80	144.80	2,521.32	-89.79	169.11	-126.83	0.42	0.21	2.13
2,636.00	7.80	142.50	2,615.20	-101.52	177.70	-130.76	2.14	-2.11	-2.42
2,731.00	5.50	131.20	2,709.56	-109.63	185.05	-134.79	2.77	-2.42	-11.89
2,825.00	6.70	124.90	2,803.02	-115.74	192.94	-140.03	1.46	1.28	-6.70
2,919.00	6.60	125.40	2,896.39	-122.00	201.84	-146.17	0.12	-0.11	0.53
3,013.00	6.00	132.40	2,989.82	-128.44	209.87	-151.43	1.04	-0.64	7.45
3,109.00	6.50	123.30	3,085.26	-134.81	218.12	-156.91	1.15	0.52	-9.48
3,204.00	8.30	100.50	3,179.48	-139.01	229.36	-165.96	3.59	1.89	-24.00
3,298.00	10.00	94.10	3,272.28	-140.83	244.17	-179.20	2.11	1.81	-6.81
3,393.00	10.00	101.50	3,365.84	-143.07	260.48	-193.68	1.35	0.00	7.79
3,487.00	8.60	97.60	3,458.61	-145.63	275.44	-206.80	1.63	-1.49	-4.15
3,581.00	8.20	88.20	3,551.60	-146.34	289.11	-219.34	1.52	-0.43	-10.00
3,674.00	3.50	89.00	3,644.09	-146.09	298.58	-228.30	5.05	-5.05	0.86
3,769.00	1.10	117.20	3,739.01	-146.45	302.30	-231.65	2.72	-2.53	29.68
3,864.00	2.00	196.80	3,833.98	-148.46	302.63	-231.26	2.21	0.95	83.79
3,958.00	2.60	186.80	3,927.91	-152.14	301.90	-229.28	0.77	0.64	-10.64
4,053.00	2.60	200.70	4,022.81	-156.30	300.88	-226.87	0.66	0.00	14.63
4,148.00	2.80	214.90	4,117.71	-160.22	298.80	-223.54	0.73	0.21	14.95
4,243.00	3.20	232.30	4,212.58	-163.74	295.37	-219.10	1.04	0.42	18.32
4,337.00	3.30	230.50	4,306.43	-167.07	291.21	-214.03	0.15	0.11	-1.91
4,431.00	1.80	210.50	4,400.33	-170.06	288.37	-210.32	1.83	-1.60	-21.28
4,526.00	1.50	196.10	4,495.29	-172.54	287.27	-208.42	0.54	-0.32	-15.16
4,620.00	1.20	136.10	4,589.27	-174.43	287.61	-208.08	1.46	-0.32	-63.83

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Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	EDM 5000.1 Multi_User DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,714.00	2.60	137.70	4,683.22	-176.72	289.73	-209.26	1.49	1.49	1.70
4,808.00	2.80	175.50	4,777.12	-180.59	291.34	-209.41	1.87	0.21	40.21
4,903.00	3.00	187.60	4,872.00	-185.36	291.19	-207.60	0.68	0.21	12.74
4,968.00	1.90	208.90	4,936.94	-187.99	290.45	-205.98	2.17	-1.69	32.77
5,005.00	1.20	223.50	4,973.93	-188.81	289.89	-205.16	2.16	-1.89	39.46
5,099.00	1.00	229.00	5,067.91	-190.06	288.59	-203.51	0.24	-0.21	5.85
5,193.00	1.90	181.10	5,161.88	-192.16	287.94	-202.16	1.53	0.96	-50.96
5,288.00	2.00	177.30	5,256.83	-195.39	287.99	-201.08	0.17	0.11	-4.00
5,383.00	1.80	178.90	5,351.78	-198.54	288.09	-200.07	0.22	-0.21	1.68
5,477.00	2.50	163.40	5,445.71	-201.98	288.71	-199.44	0.96	0.74	-16.49
5,572.00	2.60	159.90	5,540.62	-205.99	290.04	-199.28	0.19	0.11	-3.68
5,667.00	2.70	160.80	5,635.51	-210.12	291.52	-199.21	0.11	0.11	0.95
5,761.00	2.60	154.90	5,729.41	-214.14	293.15	-199.33	0.31	-0.11	-6.28
5,855.00	3.10	173.20	5,823.30	-218.60	294.35	-198.89	1.10	0.53	19.47
5,950.00	3.20	177.30	5,918.16	-223.80	294.78	-197.47	0.26	0.11	4.32
6,044.00	3.20	177.60	6,012.01	-229.04	295.02	-195.85	0.02	0.00	0.32
6,139.00	2.90	175.50	6,106.87	-234.09	295.32	-194.36	0.34	-0.32	-2.21
6,234.00	2.90	176.90	6,201.75	-238.88	295.64	-192.97	0.07	0.00	1.47
6,329.00	3.00	177.10	6,296.63	-243.76	295.89	-191.50	0.11	0.11	0.21
6,424.00	3.20	175.00	6,391.49	-248.89	296.25	-190.03	0.24	0.21	-2.21
6,519.00	2.90	173.20	6,486.35	-253.92	296.76	-188.75	0.33	-0.32	-1.89
6,614.00	2.90	170.90	6,581.23	-258.67	297.43	-187.70	0.12	0.00	-2.42
6,709.00	2.60	172.00	6,676.12	-263.18	298.11	-186.76	0.32	-0.32	1.16
6,805.00	2.40	167.80	6,772.03	-267.30	298.84	-185.99	0.28	-0.21	-4.38
6,900.00	1.10	199.20	6,866.99	-270.11	298.96	-185.12	1.65	-1.37	33.05
6,995.00	1.10	184.70	6,961.97	-271.88	298.58	-184.15	0.29	0.00	-15.26
7,090.00	1.00	190.10	7,056.95	-273.60	298.36	-183.33	0.15	-0.11	5.68
7,185.00	0.70	188.20	7,151.94	-274.99	298.13	-182.63	0.32	-0.32	-2.00
7,279.00	0.80	197.50	7,245.93	-276.19	297.85	-181.95	0.17	0.11	9.89
7,374.00	0.40	185.70	7,340.93	-277.15	297.62	-181.40	0.44	-0.42	-12.42
7,469.00	0.40	167.10	7,435.93	-277.80	297.66	-181.21	0.14	0.00	-19.58
7,564.00	0.50	161.30	7,530.92	-278.52	297.87	-181.15	0.12	0.11	-6.11
7,659.00	0.40	134.20	7,625.92	-279.14	298.24	-181.28	0.24	-0.11	-28.53
7,754.00	0.40	96.20	7,720.92	-279.41	298.81	-181.71	0.27	0.00	-40.00
7,849.00	0.40	85.90	7,815.92	-279.42	299.47	-182.33	0.08	0.00	-10.84
7,943.00	0.60	94.30	7,909.91	-279.44	300.29	-183.09	0.23	0.21	8.94
8,032.00	0.40	118.90	7,998.91	-279.62	301.02	-183.71	0.32	-0.22	27.64
8,132.00	0.60	95.50	8,098.91	-279.84	301.85	-184.41	0.28	0.20	-23.40
8,221.00	0.80	121.90	8,187.90	-280.21	302.84	-185.21	0.42	0.22	29.66
8,316.00	0.90	128.80	8,282.89	-281.03	303.99	-185.99	0.15	0.11	7.26
8,411.00	1.10	148.60	8,377.87	-282.28	305.04	-186.55	0.42	0.21	20.84
8,505.00	1.30	139.50	8,471.85	-283.86	306.21	-187.08	0.29	0.21	-9.68

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8,599.00	1.20	151.30	8,565.83	-285.53	307.37	-187.58	0.29	-0.11	12.55
8,694.00	0.80	184.30	8,660.82	-287.06	307.80	-187.45	0.72	-0.42	34.74
8,787.00	0.60	209.30	8,753.81	-288.14	307.51	-186.80	0.39	-0.22	26.88
8,882.00	0.80	247.90	8,848.80	-288.82	306.65	-185.76	0.53	0.21	40.63
8,977.00	0.60	262.50	8,943.80	-289.13	305.55	-184.61	0.28	-0.21	15.37
9,072.00	1.10	239.10	9,038.79	-289.67	304.27	-183.23	0.63	0.53	-24.63
9,167.00	1.20	194.50	9,133.77	-291.10	303.24	-181.76	0.92	0.11	-46.95
9,262.00	0.20	212.10	9,228.76	-292.20	302.90	-181.06	1.06	-1.05	18.53
9,358.00	1.30	331.60	9,324.75	-291.39	302.29	-180.77	1.47	1.15	124.48
9,452.00	1.60	348.80	9,418.72	-289.16	301.53	-180.84	0.56	0.32	18.30
9,547.00	1.70	336.70	9,513.68	-286.57	300.72	-180.99	0.38	0.11	-12.74
9,641.00	1.50	324.40	9,607.65	-284.29	299.45	-180.60	0.42	-0.21	-13.09
9,735.00	1.00	291.70	9,701.63	-282.98	297.97	-179.68	0.91	-0.53	-34.79
9,826.00	1.10	293.30	9,792.61	-282.34	296.43	-178.46	0.11	0.11	1.76
9,925.00	0.80	7.10	9,891.60	-281.28	295.64	-178.09	1.18	-0.30	74.55
10,020.00	1.60	26.50	9,986.58	-279.44	296.32	-179.37	0.93	0.84	20.42
10,114.00	2.30	358.45	10,080.53	-276.38	296.85	-180.95	1.24	0.74	-29.84
10,209.00	2.30	330.70	10,175.45	-272.81	295.87	-181.28	1.16	0.00	-29.21
10,303.00	1.60	331.80	10,269.40	-270.01	294.32	-180.82	0.75	-0.74	1.17
10,398.00	2.20	287.80	10,364.35	-268.28	291.96	-179.21	1.61	0.63	-46.32
10,493.00	3.10	277.60	10,459.25	-267.38	287.68	-175.52	1.07	0.95	-10.74
10,587.00	3.50	251.30	10,553.10	-267.97	282.44	-170.41	1.65	0.43	-27.98
10,692.00	2.00	242.70	10,657.97	-269.83	277.78	-165.38	1.48	-1.43	-8.19
10,777.00	1.10	183.60	10,742.95	-271.33	276.41	-163.58	2.02	-1.06	-69.53
10,872.00	1.10	180.30	10,837.93	-273.15	276.35	-162.88	0.07	0.00	-3.47
10,966.00	0.50	190.60	10,931.92	-274.46	276.27	-162.34	0.65	-0.64	10.96
11,060.00	0.40	256.90	11,025.92	-274.93	275.87	-161.81	0.53	-0.11	70.53
11,147.00	1.10	260.80	11,112.91	-275.14	274.75	-160.69	0.81	0.80	4.48
11,239.00	1.50	257.30	11,204.89	-275.54	272.70	-158.63	0.44	0.43	-3.80
11,333.00	1.80	263.20	11,298.85	-275.99	270.04	-155.98	0.37	0.32	6.28
11,426.00	1.30	284.10	11,391.81	-275.90	267.56	-153.69	0.80	-0.54	22.47
11,520.00	1.10	288.20	11,485.79	-275.36	265.67	-152.11	0.23	-0.21	4.36
11,613.00	0.80	329.50	11,578.78	-274.52	264.50	-151.30	0.78	-0.32	44.41
11,707.00	1.20	322.50	11,672.77	-273.18	263.56	-150.90	0.44	0.43	-7.45
11,801.00	0.50	278.90	11,766.76	-272.33	262.56	-150.26	0.96	-0.74	-46.38
11,895.00	0.80	287.70	11,860.75	-272.07	261.53	-149.38	0.34	0.32	9.36
11,990.00	1.10	306.50	11,955.74	-271.33	260.16	-148.37	0.45	0.32	19.79
12,080.00	1.00	324.80	12,045.72	-270.17	259.02	-147.70	0.39	-0.11	20.33
12,173.00	0.40	312.60	12,138.71	-269.29	258.31	-147.35	0.66	-0.65	-13.12
12,267.00	0.80	91.70	12,232.71	-269.08	258.72	-147.81	1.21	0.43	147.98
12,360.00	0.80	30.50	12,325.70	-268.54	259.70	-148.91	0.88	0.00	-65.81
12,453.00	0.70	4.50	12,418.70	-267.42	260.08	-149.66	0.38	-0.11	-27.96

Leam Drilling Systems LLC

Survey Report

Company:	FELIX ENERGY HOLDINGS II, LLC	Local Co-ordinate Reference:	Well UL Fremont 38-17 1H
Project:	Ward County, TX	TVD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Site:	UL Fremont	MD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Well:	UL Fremont 38-17 1H	North Reference:	Grid
Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	EDM 5000.1 Multi_User DB

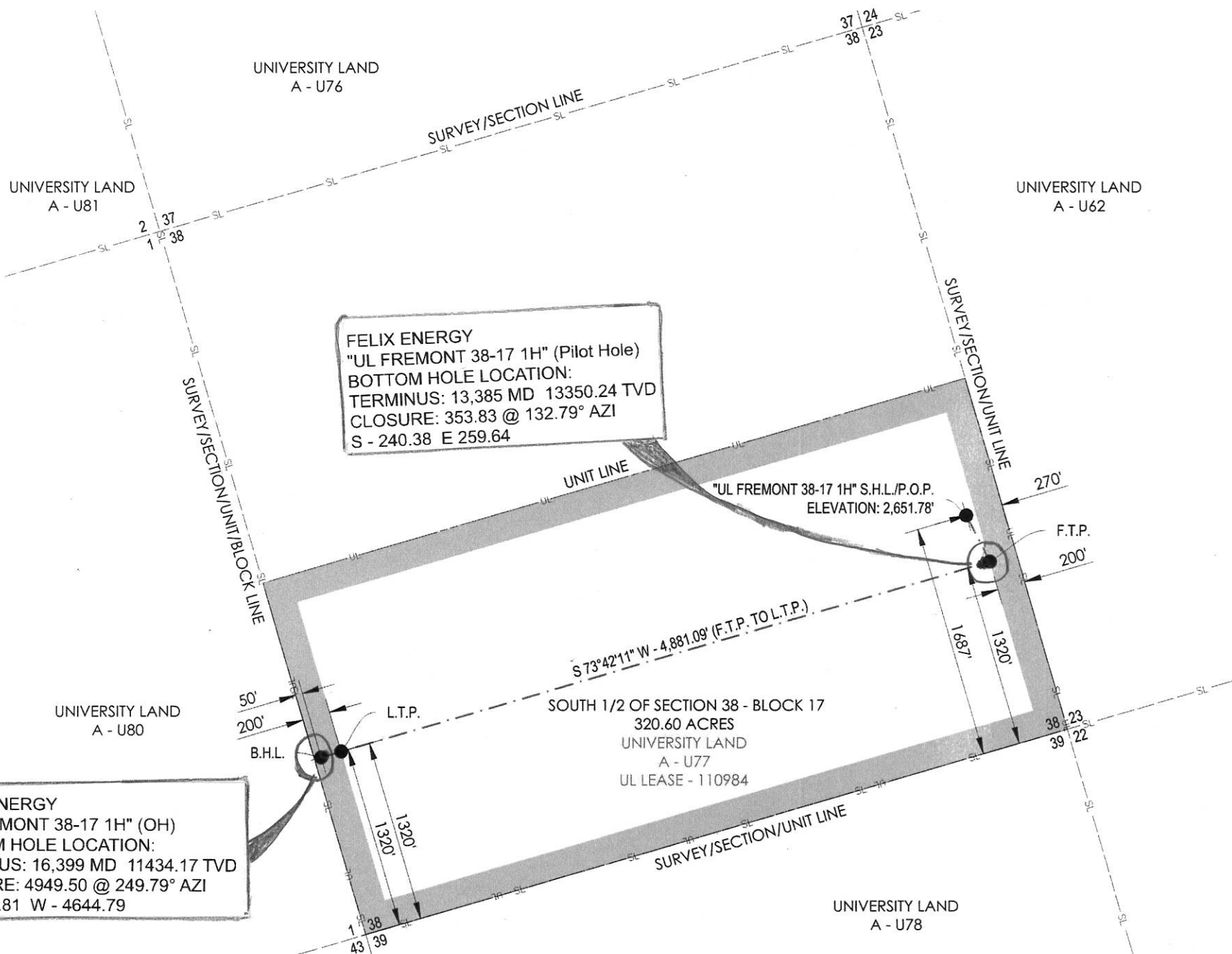
Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,547.00	0.90	348.70	12,512.69	-266.12	259.98	-150.02	0.31	0.21	-16.81
12,640.00	1.20	324.80	12,605.67	-264.61	259.27	-149.89	0.56	0.32	-25.70
12,734.00	1.80	329.70	12,699.64	-262.53	257.96	-149.39	0.65	0.64	5.21
12,827.00	1.80	350.90	12,792.59	-259.83	256.99	-149.43	0.71	0.00	22.80
12,921.00	2.00	5.40	12,886.54	-256.74	256.91	-150.44	0.55	0.21	15.43
13,015.00	1.90	11.20	12,980.49	-253.58	257.37	-151.98	0.24	-0.11	6.17
13,108.00	1.80	15.40	13,073.44	-250.66	258.06	-153.65	0.18	-0.11	4.52
13,202.00	1.90	7.60	13,167.39	-247.69	258.66	-155.25	0.29	0.11	-8.30
13,296.00	2.40	5.70	13,261.33	-244.18	259.06	-156.86	0.54	0.53	-2.02
13,337.00	2.50	9.60	13,302.29	-242.45	259.29	-157.69	0.47	0.24	9.51
13,385.00	2.50	9.60	13,350.24	-240.38	259.64	-158.74	0.00	0.00	0.00
Projection									

WARD COUNTY, TEXAS
S.H.L. 270' FEL - 1,687' FSL, SECTION 38, BLOCK 17

LEGEND

UL	UNIT LINE
SL	SECTION LINE
---	PROPOSED WELL PATH
---	NEAREST PROPOSED WELL PATH
---	200' UNIT OFFSET
S.H.L.	SURFACE HOLE LOCATION
P.O.P.	POINT OF PENETRATION
F.T.P.	FIRST TAKE POINT
T.P.	TURNING POINT
L.T.P.	LAST TAKE POINT
B.H.L.	BOTTOM HOLE LOCATION

GRID NORTH (NAD 83)
TEXAS - CENTRAL ZONE



FELIX ENERGY
"UL FREMONT 38-17 1H" (Pilot Hole)
BOTTOM HOLE LOCATION:
TERMINUS: 13,385 MD 13350.24 TVD
CLOSURE: 353.83 @ 132.79° AZI
S - 240.38 E 259.64

"UL FREMONT 38-17 1H" S.H.L./P.O.P.
ELEVATION: 2,651.78'

S 73°42'11" W - 4,881.09' (F.T.P. TO L.T.P.)

SOUTH 1/2 OF SECTION 38 - BLOCK 17
320.60 ACRES
UNIVERSITY LAND
A - U77
UL LEASE - 110984

FELIX ENERGY
"UL FREMONT 38-17 1H" (OH)
BOTTOM HOLE LOCATION:
TERMINUS: 16,399 MD 11434.17 TVD
CLOSURE: 4949.50 @ 249.79° AZI
S - 1709.81 W - 4644.79

OPERATOR: FELIX ENERGY, LLC

WELL NAME: UL FREMONT 38-17 WELL NO: 1H

TOPOGRAPHIC & VEGETATION: FLAT LOCATION WITH LOW LYING BRUSH

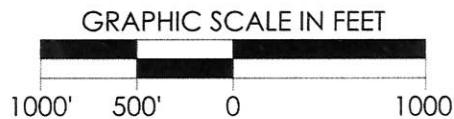
GOOD DRILL SITE: YES

REFERENCE STAKES OR ALTERNATE LOCATION
STAKES SET: NONE

BEST ACCESSIBILITY TO LOCATION: FROM NORTH

DISTANCE & DIRECTION

FROM HWY JCT OR TOWN: ±3.89 MILES NORTHWEST OF PYOTE, TX
FROM THE INTERSECTION OF PYOTE ST. AND HIGHWAY 2355 IN PYOTE, TX, TAKE HIGHWAY
2355 AND TRAVEL WEST FOR ±4.4 MILES, TURN LEFT ONTO AN EXISTING LEASE ROAD AND
TRAVEL FOR ±0.9 MILES, CONTINUE STRAIGHT FOR 125 FEET ON PROPOSED LEASE ROAD.



CONTACT INFORMATION:

Shannon D. Ozment
Crafton Tull (10193715)
1000 LedgeLawn Dr.
Conway, AR 72034

SURFACE HOLE LOCATION / POINT OF PENETRATION:

270' FEL & 1,687' FSL (SEC. 38)
GROUND ELEVATION: 2,651.78'

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 696151.43, EASTING: 1110351.46

LATITUDE: N 31.54938756°, LONGITUDE: W 103.18959981°

NAD 83 TEXAS CENTRAL ZONE

NORTHING: 10538726.93, EASTING: 1406817.25

LATITUDE: N 31.54952027°, LONGITUDE: W 103.19004141°

FIRST TAKE POINT:

200' FEL & 1,320' FSL (SEC. 38)

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 695818.88, EASTING: 1110521.34

LATITUDE: N 31.54848558°, LONGITUDE: W 103.18902723°

WELL PATH DATA

LINE	BEARING	DISTANCE
S.H.L./P.O.P. TO F.T.P.	S 27°03'35" E	373.44'
F.T.P. TO L.T.P.	S 73°42'11" W	4,881.09'
L.T.P. TO B.H.L.	S 73°42'11" W	150.00'

CALLS FROM SECTION LINE

S.H.L./P.O.P.	270' FEL, 1,687' FSL (SEC. 38)
F.T.P.	200' FEL, 1,320' FSL (SEC. 38)
L.T.P.	200' FWL, 1,320' FSL (SEC. 38)
B.H.L.	50' FWL, 1,320' FSL (SEC. 38)

LAST TAKE POINT:

200' FWL & 1,320' FSL (SEC. 38)

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 694449.17, EASTING: 1105836.44

LATITUDE: N 31.54438971°, LONGITUDE: W 103.20394813°

BOTTOM HOLE LOCATION:

50' FWL & 1,320' FSL (SEC. 38)

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 694407.08, EASTING: 1105692.46

LATITUDE: N 31.54426382°, LONGITUDE: W 103.20440664°

UNIT CORNERS

LOCATION	NAD27	
	STATE PLANE TEXAS CENTRAL (32039)	GEOGRAPHIC (4267)
NE CORNER OF THE SOUTH 1/2 OF BLK 17-SEC 38	N: 697145.52 E: 1110342.49	LAT: 31.55211903° LONG: -103.18971053°
SE CORNER BLK 17-SEC 38	N: 694607.88 E: 1111083.12	LAT: 31.54519699° LONG: -103.18712470°
SW CORNER BLK 17-SEC 38	N: 693125.96 E: 1106014.38	LAT: 31.54076571° LONG: -103.20326753°
NW CORNER OF THE SOUTH 1/2 OF BLK 17-SEC 38	N: 695665.19 E: 1105273.09	LAT: 31.54769174° LONG: -103.20585667°

GENERAL NOTES

- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/ STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES/ STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/ STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
- BASIS OF BEARINGS: TEXAS STATE PLANE GRID, CENTRAL ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.
- COMBINED SCALE FACTOR AT S.H.L. - 0.999800682
- VERTICAL DATUM IS NAVD 88
- AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.



1000 LedgeLawn Dr
Conway, Arkansas 72034

501.328.3316 f 501.328.3325 f
www.craftontull.com

REVISION	
4-4	MOVE LOCATION

"UL FREMONT 38-17 1H"

PART OF SECTION 38, BLOCK 17
320.60 ACRES
PROPOSED DRILL SITE
WARD COUNTY, TEXAS



SCALE: 1" = 1000'
PLOT DATE: 04-06-2017

CHECKED BY:
DRAWN BY:

A.LILEY
HFD

APPROVED BY: FRANS
SHEET NO.: 1 OF 1



Survey Certification Form

State of Texas

Ward County

I, Randy W. Rakowitz, certify that; I am employed by LEAM Drilling Services, that I did on the day(s) of 05/24/2017 through 06/12/2017, conduct or supervise the taking of MWD Survey from a depth of 0' MD to 13,385' MD; that the data is true, correct, complete and within the limitations of the tools as set forth by LEAM Drilling Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Felix Energy for the "UL Fremont 38-17 1H" (Pilot Hole) in Ward County, Texas; and that I reviewed this report and find that it conforms to the principals and procedures as set forth by LEAM Drilling Services.

A handwritten signature in black ink, appearing to read "Randy W. Rakowitz", is written over a solid black horizontal line.

Randy W. Rakowitz
MWD Operations Coordinator



Railroad Commission of Texas
Oil and Gas Division
P.O. Box 12967
Capitol Station
Austin, TX 78711

June 26, 2017

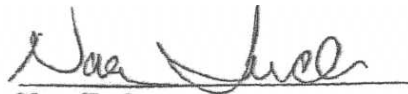
Attn: Pam Johns

RE: Felix Energy
"UL Fremont 38-17 1H" (OH)
Ward County, Texas
API #: 42-475-37230

Enclosed, please find the original and one copy of the survey performed on the referenced well by LEAM Drilling Services. (P-5 No. 491647). Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Randy W. Rakowitz (OH)		10,847' – 16,399'	06/18/17 – 06/25/17	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Nora Tucker
Well Planner

Enclosures

Leam Drilling Systems LLC

Survey Report

Company:	FELIX ENERGY HOLDINGS II, LLC	Local Co-ordinate Reference:	Well UL Fremont 38-17 1H
Project:	Ward County, TX	TVD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Site:	UL Fremont	MD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Well:	UL Fremont 38-17 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi_User DB

Project	Ward County, TX		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site		UL Fremont			
Site Position:		Northing:		696,151.43 usft	
From:		Easting:		1,110,351.46 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Map		0.00 usft		13-3/16 "	
				31° 32' 57.795 N	
				103° 11' 22.559 W	
				-1.47 °	

Well	UL Fremont 38-17 1H					
Well Position	+N/-S	0.00 usft	Northing:	696,151.43 usft	Latitude:	31° 32' 57.795 N
	+E/-W	0.00 usft	Easting:	1,110,351.46 usft	Longitude:	103° 11' 22.559 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,651.78 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/10/2017	7.23	59.53	47,638

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10,777.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	249.79	

Survey Program		Date	6/26/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
106.00	10,777.00	Survey #1 (Pilot Hole)	LEAM_MWD+HDGM	LEAM MWD + HDGM	
10,847.00	16,329.00	Survey #1 (OH)	LEAM_MWD+HDGM	LEAM MWD + HDGM	
16,399.00	16,399.00	Survey #2 (OH)	Project	Projection	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,847.00	5.70	229.30	10,812.81	-274.27	273.73	-162.13	7.13	6.57	65.29	
10,895.00	5.70	228.10	10,860.57	-277.41	270.15	-157.68	0.25	0.00	-2.50	
10,989.00	5.70	230.50	10,954.11	-283.50	263.07	-148.94	0.25	0.00	2.55	
11,036.00	10.20	246.70	11,000.65	-286.63	257.44	-142.58	10.60	9.57	34.47	
11,083.00	15.70	254.30	11,046.44	-290.00	247.49	-132.07	12.23	11.70	16.17	
11,129.00	22.70	254.80	11,089.86	-294.02	232.92	-117.01	15.22	15.22	1.09	
11,176.00	26.40	252.50	11,132.60	-299.54	214.19	-97.53	8.13	7.87	-4.89	

Leam Drilling Systems LLC

Survey Report

Company:	FELIX ENERGY HOLDINGS II, LLC	Local Co-ordinate Reference:	Well UL Fremont 38-17 1H
Project:	Ward County, TX	TVD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Site:	UL Fremont	MD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Well:	UL Fremont 38-17 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi_User DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,223.00	30.20	252.00	11,173.98	-306.34	192.98	-75.27	8.10	8.09	-1.06	
11,270.00	33.50	254.10	11,213.89	-313.55	169.25	-50.52	7.41	7.02	4.47	
11,278.50	34.24	253.96	11,220.95	-314.85	164.70	-45.79	8.74	8.69	-1.65	
HL Crossing										
11,316.00	37.50	253.40	11,251.34	-321.03	143.62	-23.87	8.74	8.70	-1.49	
11,363.00	41.70	253.90	11,287.54	-329.45	114.87	6.01	8.96	8.94	1.06	
11,409.00	45.50	254.40	11,320.85	-338.11	84.36	37.63	8.29	8.26	1.09	
11,456.00	49.20	255.50	11,352.69	-347.08	50.98	72.05	8.06	7.87	2.34	
11,503.00	52.70	256.40	11,382.29	-355.93	15.58	108.34	7.59	7.45	1.91	
11,550.00	58.00	256.70	11,409.01	-364.92	-22.01	146.72	11.29	11.28	0.64	
11,596.00	61.70	256.20	11,432.11	-374.24	-60.67	186.22	8.10	8.04	-1.09	
11,643.00	67.20	255.00	11,452.37	-384.79	-101.73	228.39	11.93	11.70	-2.55	
11,690.00	72.50	253.00	11,468.56	-396.96	-144.12	272.38	11.96	11.28	-4.26	
11,737.00	74.70	253.00	11,481.82	-410.14	-187.23	317.39	4.68	4.68	0.00	
11,783.00	77.80	252.50	11,492.76	-423.39	-229.90	362.01	6.82	6.74	-1.09	
11,830.00	83.90	251.50	11,500.23	-437.72	-274.01	408.35	13.15	12.98	-2.13	
11,877.00	88.70	251.60	11,503.26	-452.56	-318.49	455.22	10.21	10.21	0.21	
11,924.00	90.00	252.00	11,503.79	-467.24	-363.13	502.19	2.89	2.77	0.85	
12,022.00	90.10	252.20	11,503.71	-497.36	-456.39	600.11	0.23	0.10	0.20	
12,115.00	90.30	251.80	11,503.38	-526.10	-544.83	693.04	0.48	0.22	-0.43	
12,209.00	91.20	252.00	11,502.15	-555.30	-634.17	786.96	0.98	0.96	0.21	
12,302.00	91.30	252.70	11,500.12	-583.49	-722.78	879.85	0.76	0.11	0.75	
12,396.00	91.60	252.20	11,497.74	-611.83	-812.37	973.72	0.62	0.32	-0.53	
12,489.00	89.10	251.30	11,497.18	-640.95	-900.68	1,066.65	2.86	-2.69	-0.97	
12,582.00	88.90	250.60	11,498.80	-671.30	-988.58	1,159.62	0.78	-0.22	-0.75	
12,676.00	88.60	249.50	11,500.85	-703.36	-1,076.91	1,253.59	1.21	-0.32	-1.17	
12,769.00	88.90	249.90	11,502.88	-735.62	-1,164.12	1,346.57	0.54	0.32	0.43	
12,863.00	90.60	251.10	11,503.29	-767.00	-1,252.72	1,440.56	2.21	1.81	1.28	
12,957.00	93.00	253.60	11,500.34	-795.48	-1,342.23	1,534.40	3.69	2.55	2.66	
13,050.00	92.80	255.50	11,495.63	-820.22	-1,431.76	1,626.96	2.05	-0.22	2.04	
13,144.00	94.70	257.10	11,489.48	-842.44	-1,522.88	1,720.15	2.64	2.02	1.70	
13,237.00	89.80	258.50	11,485.83	-862.07	-1,613.68	1,812.14	5.48	-5.27	1.51	
13,330.00	85.90	257.60	11,489.32	-881.30	-1,704.58	1,904.09	4.30	-4.19	-0.97	
13,424.00	86.10	253.90	11,495.88	-904.38	-1,795.45	1,997.34	3.93	0.21	-3.94	
13,517.00	85.60	250.00	11,502.61	-933.12	-1,883.62	2,090.01	4.22	-0.54	-4.19	
13,611.00	86.50	247.90	11,509.09	-966.80	-1,971.14	2,183.77	2.43	0.96	-2.23	
13,704.00	88.90	247.90	11,512.82	-1,001.76	-2,057.23	2,276.64	2.58	2.58	0.00	
13,798.00	90.70	247.90	11,513.15	-1,037.12	-2,144.32	2,370.58	1.91	1.91	0.00	
13,892.00	92.30	248.10	11,510.69	-1,072.32	-2,231.44	2,464.50	1.72	1.70	0.21	
13,985.00	94.40	251.80	11,505.25	-1,104.15	-2,318.63	2,557.32	4.57	2.26	3.98	
14,079.00	94.80	254.60	11,497.71	-1,131.22	-2,408.32	2,650.84	3.00	0.43	2.98	
14,172.00	94.60	259.90	11,490.09	-1,151.67	-2,498.69	2,742.71	5.68	-0.22	5.70	

Leam Drilling Systems LLC

Survey Report

Company:	FELIX ENERGY HOLDINGS II, LLC	Local Co-ordinate Reference:	Well UL Fremont 38-17 1H
Project:	Ward County, TX	TVD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Site:	UL Fremont	MD Reference:	GE 2651.78' + KB 25' @ 2676.78usft (Cactus 137)
Well:	UL Fremont 38-17 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi_User DB

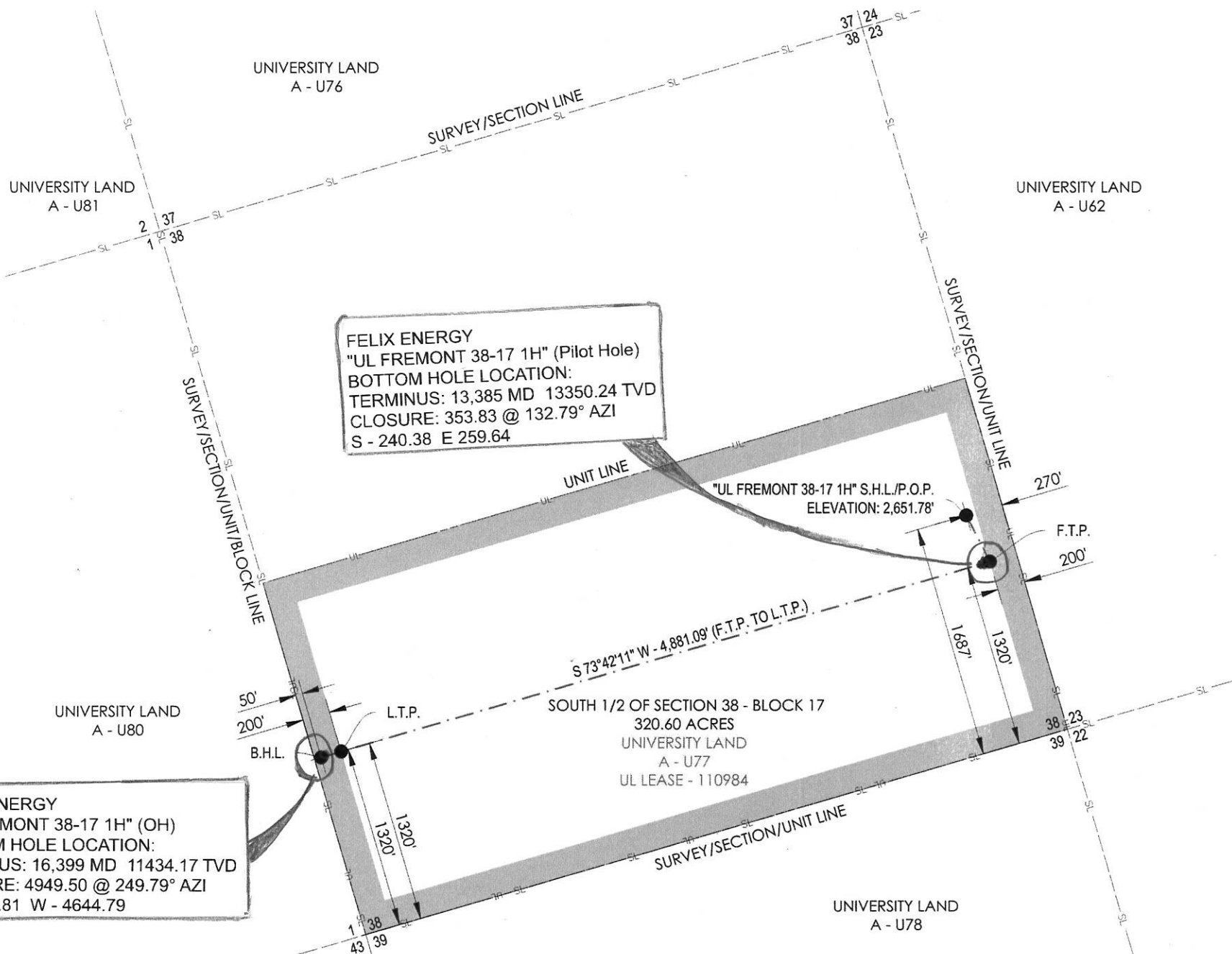
Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,266.00	94.40	261.30	11,482.71	-1,166.98	-2,591.14	2,834.76	1.50	-0.21	1.49	
14,359.00	92.20	261.80	11,477.36	-1,180.62	-2,682.97	2,925.65	2.43	-2.37	0.54	
14,453.00	89.20	261.60	11,476.21	-1,194.19	-2,775.97	3,017.61	3.20	-3.19	-0.21	
14,547.00	87.70	257.40	11,478.75	-1,211.30	-2,868.34	3,110.20	4.74	-1.60	-4.47	
14,641.00	85.10	252.30	11,484.66	-1,235.81	-2,958.86	3,203.61	6.08	-2.77	-5.43	
14,735.00	87.80	249.50	11,490.48	-1,266.50	-3,047.49	3,297.40	4.13	2.87	-2.98	
14,828.00	91.60	246.40	11,490.97	-1,301.41	-3,133.66	3,390.32	5.27	4.09	-3.33	
14,922.00	92.00	246.20	11,488.01	-1,339.17	-3,219.69	3,484.10	0.48	0.43	-0.21	
15,014.00	92.90	246.20	11,484.08	-1,376.26	-3,303.79	3,575.83	0.98	0.98	0.00	
15,107.00	92.30	250.40	11,479.86	-1,410.60	-3,390.09	3,668.68	4.56	-0.65	4.52	
15,201.00	92.50	252.20	11,475.92	-1,440.71	-3,479.05	3,762.56	1.93	0.21	1.91	
15,294.00	92.90	254.40	11,471.54	-1,467.41	-3,568.02	3,855.28	2.40	0.43	2.37	
15,387.00	92.90	255.10	11,466.84	-1,491.84	-3,657.63	3,947.81	0.75	0.00	0.75	
15,481.00	91.20	255.30	11,463.48	-1,515.83	-3,748.45	4,041.33	1.82	-1.81	0.21	
15,574.00	91.40	255.30	11,461.37	-1,539.43	-3,838.38	4,133.88	0.22	0.22	0.00	
15,668.00	91.50	256.90	11,458.99	-1,562.00	-3,929.60	4,227.28	1.70	0.11	1.70	
15,761.00	91.10	258.00	11,456.88	-1,582.20	-4,020.35	4,319.42	1.26	-0.43	1.18	
15,855.00	89.10	256.70	11,456.71	-1,602.79	-4,112.06	4,412.60	2.54	-2.13	-1.38	
15,949.00	92.00	258.70	11,455.81	-1,622.81	-4,203.89	4,505.68	3.75	3.09	2.13	
16,042.00	92.60	259.40	11,452.08	-1,640.46	-4,295.12	4,597.40	0.99	0.65	0.75	
16,136.00	93.20	259.50	11,447.32	-1,657.65	-4,387.41	4,689.94	0.65	0.64	0.11	
16,230.00	94.40	259.00	11,441.09	-1,675.14	-4,479.56	4,782.46	1.38	1.28	-0.53	
16,272.00	93.17	258.49	11,438.32	-1,683.32	-4,520.66	4,823.86	3.17	-2.93	-1.21	
HL Crossing										
16,329.00	91.50	257.80	11,436.00	-1,695.02	-4,576.39	4,880.20	3.17	-2.93	-1.21	
16,399.00	91.50	257.80	11,434.17	-1,709.81	-4,644.79	4,949.50	0.00	0.00	0.00	
Projection										

WARD COUNTY, TEXAS
S.H.L. 270' FEL - 1,687' FSL, SECTION 38, BLOCK 17

LEGEND

UL	UNIT LINE
SL	SECTION LINE
---	PROPOSED WELL PATH
---	NEAREST PROPOSED WELL PATH
---	200' UNIT OFFSET
S.H.L.	SURFACE HOLE LOCATION
P.O.P.	POINT OF PENETRATION
F.T.P.	FIRST TAKE POINT
T.P.	TURNING POINT
L.T.P.	LAST TAKE POINT
B.H.L.	BOTTOM HOLE LOCATION

GRID NORTH (NAD 83)
TEXAS - CENTRAL ZONE



FELIX ENERGY
"UL FREMONT 38-17 1H" (Pilot Hole)
BOTTOM HOLE LOCATION:
TERMINUS: 13,385 MD 13350.24 TVD
CLOSURE: 353.83 @ 132.79° AZI
S - 240.38 E 259.64

"UL FREMONT 38-17 1H" S.H.L./P.O.P.
ELEVATION: 2,651.78'

S 73°42'11" W - 4,881.09' (F.T.P. TO L.T.P.)

SOUTH 1/2 OF SECTION 38 - BLOCK 17
320.60 ACRES
UNIVERSITY LAND
A - U77
UL LEASE - 110984

FELIX ENERGY
"UL FREMONT 38-17 1H" (OH)
BOTTOM HOLE LOCATION:
TERMINUS: 16,399 MD 11434.17 TVD
CLOSURE: 4949.50 @ 249.79° AZI
S - 1709.81 W - 4644.79

OPERATOR: FELIX ENERGY, LLC

WELL NAME: UL FREMONT 38-17 WELL NO: 1H

TOPOGRAPHIC & VEGETATION: FLAT LOCATION WITH LOW LYING BRUSH

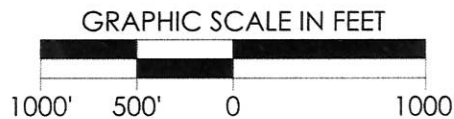
GOOD DRILL SITE: YES

REFERENCE STAKES OR ALTERNATE LOCATION
STAKES SET: NONE

BEST ACCESSIBILITY TO LOCATION: FROM NORTH

DISTANCE & DIRECTION

FROM HWY JCT OR TOWN: ±3.89 MILES NORTHWEST OF PYOTE, TX
FROM THE INTERSECTION OF PYOTE ST. AND HIGHWAY 2355 IN PYOTE, TX, TAKE HIGHWAY
2355 AND TRAVEL WEST FOR ±4.4 MILES, TURN LEFT ONTO AN EXISTING LEASE ROAD AND
TRAVEL FOR ±0.9 MILES, CONTINUE STRAIGHT FOR 125 FEET ON PROPOSED LEASE ROAD.



CONTACT INFORMATION:

Shannon D. Ozment
Crafton Tull (10193715)
1000 LedgeLawn Dr.
Conway, AR 72034

SURFACE HOLE LOCATION / POINT OF PENETRATION:

270' FEL & 1,687' FSL (SEC. 38)
GROUND ELEVATION: 2,651.78'

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 696151.43, EASTING: 1110351.46
LATITUDE: N 31.54938756°, LONGITUDE: W 103.18959981°
NAD 83 TEXAS CENTRAL ZONE

NORTHING: 10538726.93, EASTING: 1406817.25
LATITUDE: N 31.54952027°, LONGITUDE: W 103.19004141°

FIRST TAKE POINT:

200' FEL & 1,320' FSL (SEC. 38)

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 695818.88, EASTING: 1110521.34
LATITUDE: N 31.54848558°, LONGITUDE: W 103.18902723°

WELL PATH DATA

LINE	BEARING	DISTANCE
S.H.L./P.O.P. TO F.T.P.	S 27°03'35" E	373.44'
F.T.P. TO L.T.P.	S 73°42'11" W	4,881.09'
L.T.P. TO B.H.L.	S 73°42'11" W	150.00'

CALLS FROM SECTION LINE

S.H.L./P.O.P.	270' FEL, 1,687' FSL (SEC. 38)
F.T.P.	200' FEL, 1,320' FSL (SEC. 38)
L.T.P.	200' FWL, 1,320' FSL (SEC. 38)
B.H.L.	50' FWL, 1,320' FSL (SEC. 38)

LAST TAKE POINT:

200' FWL & 1,320' FSL (SEC. 38)

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 694449.17, EASTING: 1105836.44
LATITUDE: N 31.54438971°, LONGITUDE: W 103.20394813°

BOTTOM HOLE LOCATION:

50' FWL & 1,320' FSL (SEC. 38)

NAD 27 TEXAS CENTRAL ZONE

NORTHING: 694407.08, EASTING: 1105692.46
LATITUDE: N 31.54426382°, LONGITUDE: W 103.20440664°

UNIT CORNERS

LOCATION	NAD27	
	STATE PLANE TEXAS CENTRAL (32039)	GEOGRAPHIC (4267)
NE CORNER OF THE SOUTH 1/2 OF BLK 17-SEC 38	N: 697145.52 E: 1110342.49	LAT: 31.55211903° LONG: -103.18971053°
SE CORNER BLK 17-SEC 38	N: 694607.88 E: 1111083.12	LAT: 31.54519699° LONG: -103.18712470°
SW CORNER BLK 17-SEC 38	N: 693125.96 E: 1106014.38	LAT: 31.54076571° LONG: -103.20326753°
NW CORNER OF THE SOUTH 1/2 OF BLK 17-SEC 38	N: 695665.19 E: 1105273.09	LAT: 31.54769174° LONG: -103.20585667°

GENERAL NOTES

- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/ STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES/ STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/ STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
- BASIS OF BEARINGS: TEXAS STATE PLANE GRID, CENTRAL ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.
- COMBINED SCALE FACTOR AT S.H.L. - 0.999800682
- VERTICAL DATUM IS NAVD 88
- AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.



1000 LedgeLawn Dr
Conway, Arkansas 72034

501.328.3316 f 501.328.3325 f
www.craftontull.com

REVISION	
4-4	MOVE LOCATION

"UL FREMONT 38-17 1H"

PART OF SECTION 38, BLOCK 17
320.60 ACRES
PROPOSED DRILL SITE
WARD COUNTY, TEXAS



SCALE: 1" = 1000'
PLOT DATE: 04-06-2017

CHECKED BY:
DRAWN BY:

A.LILEY
HFD

APPROVED BY: FRANS
SHEET NO.: 1 OF 1



Survey Certification Form

State of Texas

Ward County

I, Randy W. Rakowitz, certify that; I am employed by LEAM Drilling Services, that I did on the day(s) of 06/18/2017 through 06/25/2017, conduct or supervise the taking of MWD Survey from a depth of 10,847' MD to 16,399' MD; that the data is true, correct, complete and within the limitations of the tools as set forth by LEAM Drilling Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Felix Energy for the "UL Fremont 38-17 1H" (OH) in Ward County, Texas; and that I reviewed this report and find that it conforms to the principals and procedures as set forth by LEAM Drilling Services.

A handwritten signature in black ink, appearing to read "Randy W. Rakowitz", is written over a solid black horizontal line.

Randy W. Rakowitz
MWD Operations Coordinator