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Evaluation, Drilling & Intervention
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Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: November 16, 2017

Attention: Kyle Johnson

Re: Devon Energy
Well: Seawolf 1-12 Fed 93H
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc., a Weatherford company. Other information required by your office is as follows:

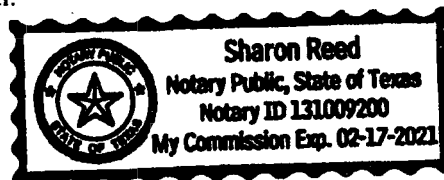
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Chad Lowrey MWD Supervisor	93H	189' MD 18,714' MD	10/27/2017 11/13/2017	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jonathan Leger
MWD Ops Coordinator

On this, the 20th day of November, 2017, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public

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5D Survey Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*

Site Name: *Seawolf 1-12 Fed Pad*

Well Name: *Seawolf 1-12 Fed 93H*

Survey: *Definitive survey*

17 November 2017



Weatherford®

5D Survey Report



Seawolf 1-12 Fed 93H

Field Name: Lea Co, NM Nad 83 NHEZ	Map Units: US ft	Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
	Comment:		
Site: Seawolf 1-12 Fed Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.43
	Elevation above MSL: 3316.70 US ft		
Comment: Lea County, NM			
Slot: Seawolf 1-12 Fed 93H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3316.70 US ft		
	Comment:		
Well: Seawolf 1-12 Fed 93H	Type: Main well	UWI:	
	File Number:	Comment: ICD 205	
	Closure Distance: 6694.22 US ft	Closure Azimuth: 175.37°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 179.57°

Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 27.00 US ft	Elevation above MSL: 3343.70 US ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey			
Date: 06/Oct/2017	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:

Magnetic Model:				
Model Name: bggm2017	Date: 25/Oct/2017	Field Strength: 47887.0 nT	Declination: 6.97°	Dip: 59.91°

Tie Point:					
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: 0.00 US ft	East Offset: 0.00 US ft

Survey Tool Ranges:			
Name	Start MD(USft)	End MD(USft)	Source Survey
	0.00	5079.00	MWD 1
	5079.00	8067.00	MWD 2
	8067.00	9869.00	MWD 3
	9869.00	11701.00	MWD 4

5D Survey Report

Survey Tool Ranges:

Name	Start MD(USFt)	End MD(USFt)	Source Survey
	11701.00	12609.00	MWD 5
	12609.00	18775.00	MWD 6

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (USFt)	Inc (°)	API (°)	TVD (USFt)	VS (M/min)	L-Offset (USFt)	R-Offset (USFt)	DBS (1000USFt)	Heading (USFt)	Rolling (USFt)	Current
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	393519.86	791224.51	First WFT Survey
189.00	0.60	181.00	189.00	0.99	-0.99	-0.02	0.32	393518.87	791224.49	
279.00	0.60	174.00	278.99	1.93	-1.93	0.02	0.08	393517.93	791224.53	
376.00	0.90	146.00	375.98	3.07	-3.07	0.50	0.48	393516.79	791225.01	
470.00	0.40	161.00	469.98	4.00	-3.99	1.02	0.56	393515.87	791225.53	
565.00	0.30	207.00	564.98	4.53	-4.52	1.02	0.30	393515.34	791225.53	
659.00	0.40	167.00	658.97	5.07	-5.06	0.98	0.27	393514.80	791225.49	
753.00	0.50	234.00	752.97	5.63	-5.62	0.72	0.54	393514.24	791225.23	
848.00	0.60	188.00	847.97	6.36	-6.36	0.32	0.46	393513.50	791224.83	
942.00	0.40	199.00	941.96	7.16	-7.16	0.14	0.24	393512.70	791224.65	
1072.00	0.28	226.74	1071.96	7.80	-7.80	-0.24	0.15	393512.06	791224.27	
1164.00	0.25	191.59	1163.96	8.15	-8.15	-0.44	0.18	393511.71	791224.07	
1255.00	0.25	195.36	1254.96	8.54	-8.54	-0.53	0.02	393511.32	791223.98	
1347.00	0.31	171.69	1346.96	8.98	-8.98	-0.55	0.14	393510.88	791223.96	
1439.00	0.00	148.41	1438.96	9.22	-9.23	-0.51	0.34	393510.63	791224.00	
1531.00	0.14	57.57	1530.96	9.16	-9.17	-0.42	0.15	393510.69	791224.09	
1623.00	0.22	93.00	1622.96	9.12	-9.12	-0.15	0.15	393510.74	791224.36	
1715.00	0.22	166.26	1714.96	9.30	-9.30	0.07	0.29	393510.56	791224.58	
1811.00	0.07	129.77	1810.96	9.51	-9.51	0.16	0.18	393510.35	791224.67	
1905.00	0.16	132.33	1904.96	9.64	-9.64	0.30	0.10	393510.22	791224.81	
2000.00	0.07	25.52	1999.96	9.68	-9.68	0.42	0.20	393510.18	791224.93	
2095.00	0.10	147.31	2094.96	9.70	-9.69	0.49	0.16	393510.17	791225.00	
2190.00	0.10	141.49	2189.96	9.83	-9.83	0.59	0.01	393510.03	791225.10	
2285.00	0.16	290.94	2284.96	9.85	-9.85	0.52	0.26	393510.01	791225.03	
2379.00	0.07	132.77	2378.96	9.84	-9.84	0.44	0.24	393510.02	791224.95	
2475.00	0.10	38.80	2474.96	9.82	-9.81	0.53	0.13	393510.05	791225.04	
2569.00	0.16	32.23	2568.96	9.64	-9.64	0.65	0.07	393510.22	791225.16	
2664.00	0.35	35.29	2663.96	9.29	-9.29	0.89	0.20	393510.57	791225.40	
2759.00	0.41	41.17	2758.95	8.80	-8.80	1.28	0.08	393511.06	791225.79	
2948.00	1.61	29.88	2947.92	6.01	-5.98	3.05	0.64	393513.88	791227.56	
3138.00	0.64	40.15	3137.88	2.90	-2.86	5.07	0.52	393517.00	791229.58	
3328.00	1.69	55.16	3327.84	0.51	-0.45	8.05	0.57	393519.41	791232.56	
3518.00	1.97	63.52	3517.74	-2.51	2.61	13.27	0.20	393522.47	791237.78	
3708.00	3.82	88.51	3707.50	-4.06	4.23	22.52	1.16	393524.09	791247.03	
3898.00	3.69	87.11	3897.09	-4.44	4.70	34.96	0.08	393524.56	791259.47	
4088.00	3.77	84.68	4086.69	-5.24	5.59	47.28	0.09	393525.45	791271.79	
4278.00	3.93	108.23	4276.27	-3.69	4.13	59.69	0.83	393523.99	791284.20	
4467.00	3.40	105.56	4464.89	-0.07	0.60	71.24	0.29	393520.46	791295.75	
4657.00	3.82	103.24	4654.51	2.98	-2.36	82.83	0.23	393517.50	791307.34	
4846.00	4.07	117.70	4843.06	7.63	-6.92	94.89	0.54	393512.94	791319.40	
5036.00	2.60	113.70	5032.74	12.57	-11.78	104.81	0.78	393508.08	791329.32	
5079.00	2.59	113.64	5075.69	13.36	-12.57	106.59	0.02	393507.29	791331.10	
5187.00	2.25	115.34	5183.60	15.28	-14.45	110.74	0.32	393505.41	791335.25	
5282.00	1.53	116.29	5278.54	16.66	-15.81	113.57	0.76	393504.05	791338.08	
5377.00	2.28	78.81	5373.50	16.88	-16.01	116.56	1.49	393503.85	791341.07	
5503.00	2.47	76.60	5499.39	15.80	-14.89	121.66	0.17	393504.97	791346.17	
5598.00	2.44	73.35	5594.30	14.78	-13.84	125.59	0.15	393506.02	791350.10	
5693.00	2.35	72.85	5689.22	13.65	-12.68	129.39	0.10	393507.18	791353.90	
5883.00	3.39	69.34	5878.98	10.59	-9.55	138.36	0.55	393510.31	791362.87	
5978.00	4.18	81.82	5973.77	9.15	-8.07	144.42	1.20	393511.79	791368.93	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Top (US ft.)	Inc (°)	Age (yr)	Top (US ft.)	Age (yr)	Incision (ft/yr)	Bottom (US ft.)	Rate (ft/1000 yr)	Thickness (US ft.)	Timing (US yr)	Comment
6073.00	4.28	83.38	6068.51	8.30	-7.17	151.37	0.16	393512.69	791375.88	
6168.00	4.19	80.86	6163.25	7.40	-6.21	158.32	0.22	393513.65	791382.83	
6263.00	4.14	80.14	6258.00	6.31	-5.07	165.12	0.08	393514.79	791389.63	
6358.00	4.08	79.14	6352.76	5.13	-3.84	171.82	0.10	393516.02	791396.33	
6452.00	4.03	77.21	6446.52	3.82	-2.48	178.32	0.15	393517.38	791402.83	
6547.00	4.06	83.44	6541.28	2.75	-1.36	184.92	0.46	393518.50	791409.43	
6642.00	4.82	88.68	6636.00	2.33	-0.88	192.25	0.91	393518.98	791416.76	
6737.00	5.00	87.57	6730.65	2.12	-0.62	200.38	0.21	393519.24	791424.89	
6832.00	5.03	86.50	6825.29	1.75	-0.19	208.67	0.10	393519.67	791433.18	
6927.00	4.89	84.55	6919.93	1.18	0.45	216.86	0.23	393520.31	791441.37	
7022.00	3.93	83.58	7014.65	0.48	1.20	224.12	1.01	393521.06	791448.63	
7117.00	3.86	79.98	7109.43	-0.39	2.12	230.51	0.27	393521.98	791455.02	
7212.00	3.51	80.77	7204.23	-1.37	3.14	236.53	0.37	393523.00	791461.04	
7307.00	3.48	96.13	7299.06	-1.48	3.30	242.26	0.98	393523.16	791466.77	
7402.00	3.57	99.21	7393.88	-0.66	2.52	248.05	0.22	393522.38	791472.56	
7497.00	3.35	99.53	7488.71	0.32	1.59	253.71	0.23	393521.45	791478.22	
7592.00	3.38	99.48	7583.54	1.28	0.67	259.21	0.03	393520.53	791483.72	
7686.00	3.43	105.36	7677.38	2.52	-0.53	264.65	0.38	393519.33	791489.16	
7782.00	2.97	103.06	7773.23	3.88	-1.86	269.84	0.50	393518.00	791494.35	
7877.00	2.35	86.47	7868.13	4.35	-2.29	274.19	1.03	393517.57	791498.70	
7972.00	2.67	82.59	7963.03	3.98	-1.89	278.32	0.38	393517.97	791502.83	
8067.00	3.37	76.10	8057.90	3.06	-0.93	283.23	0.82	393518.93	791507.74	
8161.00	3.73	84.98	8151.72	2.17	-0.00	288.96	0.70	393519.86	791513.47	
8255.00	3.67	86.73	8245.53	1.77	0.44	295.01	0.14	393520.30	791519.52	
8350.00	3.52	88.47	8340.34	1.57	0.69	300.96	0.20	393520.55	791525.47	
8445.00	3.09	94.49	8435.18	1.73	0.57	306.43	0.58	393520.43	791530.94	
8540.00	2.85	90.87	8530.05	2.01	0.33	311.34	0.32	393520.19	791535.85	
8635.00	2.12	90.86	8624.96	2.10	0.27	315.46	0.77	393520.13	791539.97	
8730.00	2.83	89.87	8719.87	2.15	0.25	319.56	0.75	393520.11	791544.07	
8825.00	3.45	89.89	8814.73	2.18	0.26	324.76	0.65	393520.12	791549.27	
8920.00	3.01	90.66	8909.58	2.24	0.24	330.12	0.47	393520.10	791554.63	
9015.00	2.19	103.51	9004.48	2.73	-0.22	334.38	1.05	393519.64	791558.89	
9110.00	2.75	94.15	9099.39	3.35	-0.81	338.41	0.72	393519.05	791562.92	
9204.00	3.81	82.51	9193.24	3.14	-0.56	343.76	1.33	393519.30	791568.27	
9299.00	2.87	84.80	9288.08	2.56	0.06	349.26	1.00	393519.92	791573.77	
9394.00	3.34	76.99	9382.94	1.76	0.90	354.32	0.66	393520.76	791578.83	
9489.00	2.16	86.50	9477.83	1.06	1.64	358.81	1.33	393521.50	791583.32	
9584.00	1.98	95.08	9572.77	1.12	1.60	362.23	0.38	393521.46	791586.74	
9679.00	3.32	91.37	9667.66	1.36	1.39	366.61	1.42	393521.25	791591.12	
9774.00	2.80	101.24	9762.53	1.92	0.87	371.64	0.78	393520.73	791596.15	
9869.00	2.84	94.64	9857.41	2.60	0.23	376.26	0.34	393520.09	791600.77	
9953.00	2.60	87.35	9941.32	2.71	0.15	380.24	0.50	393520.01	791604.75	
10048.00	3.21	85.96	10036.19	2.46	0.43	385.04	0.65	393520.29	791609.55	
10143.00	3.14	81.66	10131.05	1.93	1.00	390.27	0.26	393520.86	791614.78	
10238.00	3.11	97.69	10225.91	1.94	1.03	395.40	0.92	393520.89	791619.91	
10333.00	3.64	89.20	10320.75	2.28	0.73	400.97	0.77	393520.59	791625.48	
10428.00	4.27	80.67	10415.52	1.71	1.34	407.47	0.91	393521.20	791631.98	
10523.00	2.94	90.18	10510.33	1.19	1.91	413.40	1.53	393521.77	791637.91	
10618.00	1.63	78.56	10605.25	0.96	2.17	417.16	1.46	393522.03	791641.67	
10713.00	3.08	78.86	10700.17	0.23	2.93	420.99	1.53	393522.79	791645.50	
10808.00	5.39	84.28	10794.90	-0.66	3.87	427.93	2.47	393523.73	791652.44	
10903.00	4.60	86.06	10889.54	-1.30	4.58	436.17	0.85	393524.44	791660.68	
10998.00	3.48	88.04	10984.31	-1.61	4.94	442.86	1.19	393524.80	791667.37	
11093.00	4.04	77.88	11079.10	-2.37	5.74	449.01	0.91	393525.60	791673.52	
11187.00	3.28	74.86	11172.91	-3.72	7.14	454.84	0.83	393527.00	791679.35	
11282.00	1.51	90.09	11267.82	-4.40	7.84	458.72	1.96	393527.70	791683.23	
11377.00	1.16	163.07	11362.80	-3.47	6.92	460.25	1.70	393526.78	791684.76	
11472.00	2.04	234.11	11457.77	-1.56	5.01	459.16	2.10	393524.87	791683.67	
11567.00	2.24	250.00	11552.71	0.04	3.38	456.05	0.66	393523.24	791680.56	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US R)	Inc (°)	AZ (°)	TVD (US R)	YS (US R)	Inc (US R)	EONPOT (US R)	DIS (+ 1000S R)	Easting (US R)	Northing (US R)	Bottom
11671.00	1.89	279.74	11656.64	0.42	2.98	452.45	1.07	393522.84	791676.96	
11701.00	1.69	282.20	11686.63	0.23	3.16	451.53	0.71	393523.02	791676.04	
11755.00	0.22	290.59	11740.62	0.02	3.36	450.65	2.73	393523.22	791675.16	
11805.00	2.57	125.51	11790.60	0.64	2.74	451.47	5.57	393522.60	791675.98	
11850.00	7.12	159.22	11835.44	3.85	-0.45	453.28	11.51	393519.41	791677.79	
11900.00	13.41	162.67	11884.61	12.32	-8.89	456.11	12.63	393510.97	791680.62	
11945.00	18.24	163.78	11927.90	24.09	-20.64	459.64	10.75	393499.22	791684.15	
11992.00	24.82	164.29	11971.59	40.70	-37.22	464.37	14.01	393482.64	791688.88	
12039.00	30.66	167.91	12013.18	61.98	-58.45	469.55	12.93	393461.41	791694.06	
12084.00	34.41	172.54	12051.11	85.84	-82.29	473.61	10.00	393437.57	791698.12	
12134.00	39.49	175.63	12091.06	115.75	-112.18	476.66	10.82	393407.68	791701.17	
12179.00	44.06	176.89	12124.61	145.67	-142.08	478.60	10.33	393377.78	791703.11	
12229.00	47.80	177.61	12159.38	181.56	-177.96	480.31	7.55	393341.90	791704.82	
12274.00	51.08	178.60	12188.64	215.73	-212.12	481.44	7.48	393307.74	791705.95	
12324.00	54.51	178.39	12218.87	255.54	-251.93	482.49	6.87	393267.93	791707.00	
12369.00	57.22	178.67	12244.12	292.78	-289.16	483.44	6.04	393230.70	791707.95	
12419.00	62.40	179.53	12269.25	335.98	-332.36	484.11	10.47	393187.50	791708.62	
12456.00	66.26	180.51	12285.28	369.32	-365.70	484.09	10.70	393154.16	791708.60	
12514.00	70.93	180.81	12306.44	423.29	-419.68	483.47	8.07	393100.18	791707.98	
12559.00	72.92	181.60	12320.40	466.05	-462.45	482.57	4.73	393057.41	791707.08	
12609.00	76.73	181.21	12333.49	514.28	-510.68	481.39	7.66	393009.18	791705.90	
12642.00	79.09	180.94	12340.40	546.53	-542.94	480.78	7.20	392976.92	791705.29	
12673.00	81.22	181.03	12345.70	577.06	-573.48	480.26	6.88	392946.38	791704.77	
12705.00	81.30	180.91	12350.56	608.68	-605.10	479.72	0.45	392914.76	791704.23	
12736.00	82.07	180.37	12355.05	639.35	-635.77	479.38	3.02	392884.09	791703.89	
12781.00	85.24	179.10	12360.02	684.07	-680.49	479.59	7.58	392839.37	791704.10	
12831.00	86.85	178.69	12363.47	733.94	-730.36	480.55	3.32	392789.50	791705.06	
12876.00	88.11	178.27	12365.44	778.89	-775.30	481.74	2.95	392744.56	791706.25	
12926.00	88.39	178.76	12366.97	828.86	-825.26	483.04	1.13	392694.60	791707.55	
13021.00	89.23	179.90	12368.94	923.84	-920.23	484.15	1.49	392599.63	791708.66	
13116.00	89.16	179.92	12370.28	1018.83	-1015.22	484.30	0.08	392504.64	791708.81	
13211.00	88.74	179.72	12372.02	1113.81	-1110.20	484.59	0.49	392409.66	791709.10	
13305.00	88.25	180.12	12374.49	1207.77	-1204.17	484.73	0.67	392315.69	791709.24	
13400.00	88.88	179.44	12376.87	1302.74	-1299.14	485.09	0.98	392220.72	791709.60	
13495.00	89.72	179.50	12378.03	1397.73	-1394.13	485.97	0.89	392125.73	791710.48	
13590.00	89.37	179.43	12378.78	1492.73	-1489.12	486.86	0.38	392030.74	791711.37	
13685.00	90.14	178.08	12379.19	1587.72	-1584.09	488.92	1.64	391935.77	791713.43	
13780.00	90.00	178.14	12379.07	1682.69	-1679.04	492.05	0.16	391840.82	791716.56	
13875.00	89.51	177.90	12379.48	1777.65	-1773.98	495.34	0.57	391745.88	791719.85	
13970.00	90.35	177.77	12379.60	1872.61	-1868.91	498.92	0.89	391650.95	791723.43	
14065.00	90.63	177.97	12378.78	1967.56	-1963.84	502.46	0.36	391556.02	791726.97	
14160.00	89.79	180.34	12378.44	2062.55	-2058.83	503.86	2.65	391461.03	791728.37	
14255.00	90.07	180.96	12378.55	2157.53	-2153.82	502.78	0.72	391366.04	791727.29	
14350.00	90.14	181.65	12378.38	2252.49	-2248.79	500.61	0.73	391271.07	791725.12	
14444.00	90.07	180.41	12378.20	2346.46	-2342.78	498.93	1.32	391177.08	791723.44	
14539.00	90.35	181.03	12377.86	2441.44	-2437.77	497.73	0.72	391082.09	791722.24	
14634.00	89.79	181.58	12377.74	2536.39	-2532.74	495.57	0.83	390987.12	791720.08	
14729.00	89.58	180.29	12378.26	2631.36	-2627.73	494.02	1.38	390892.13	791718.53	
14824.00	90.49	177.59	12378.20	2726.34	-2722.70	495.77	3.00	390797.16	791720.28	
14919.00	90.21	177.87	12377.62	2821.29	-2817.62	499.54	0.42	390702.24	791724.05	
15013.00	89.65	178.97	12377.74	2915.27	-2911.59	502.13	1.31	390608.27	791726.64	
15108.00	90.42	178.55	12377.68	3010.26	-3006.56	504.19	0.92	390513.30	791728.70	
15203.00	90.14	177.93	12377.22	3105.24	-3101.52	507.10	0.72	390418.34	791731.61	
15298.00	89.79	178.58	12377.28	3200.21	-3196.47	510.00	0.78	390323.39	791734.51	
15393.00	89.72	179.45	12377.68	3295.20	-3291.46	511.63	0.92	390228.40	791736.14	
15488.00	89.72	180.87	12378.15	3390.19	-3386.45	511.36	1.49	390133.41	791735.87	
15583.00	89.30	179.99	12378.96	3485.18	-3481.45	510.65	1.03	390038.41	791735.16	
15678.00	89.65	180.86	12379.83	3580.16	-3576.44	509.95	0.99	389943.42	791734.46	
15773.00	88.88	179.53	12381.05	3675.15	-3671.43	509.62	1.62	389848.43	791734.13	

5D Survey Report

Survey Points: (Relative to Slot centre)(1VD relative to Drill Floor)										
WD (US ft)	WD (m)	WD (ft)	1VD (US ft)	1VD (m)	2VD (US ft)	2VD (m)	3VD (US ft)	3VD (m)	4VD (US ft)	4VD (m)
15867.00	88.60	177.69	12383.11	3769.11	-3765.37	511.90	1.98	389754.49	791736.41	
15962.00	89.02	178.25	12385.09	3864.05	-3860.29	515.27	0.74	389659.57	791739.78	
16057.00	88.81	178.71	12386.89	3959.01	-3955.24	517.79	0.53	389564.62	791742.30	
16152.00	89.65	178.00	12388.16	4053.98	-4050.19	520.51	1.16	389469.67	791745.02	
16247.00	90.49	177.71	12388.05	4148.94	-4145.12	524.07	0.94	389374.74	791748.58	
16342.00	90.77	178.94	12387.00	4243.91	-4240.08	526.85	1.33	389279.78	791751.36	
16437.00	90.21	180.60	12386.19	4338.90	-4335.07	527.23	1.84	389184.79	791751.74	
16532.00	90.00	180.46	12386.02	4433.89	-4430.06	526.35	0.27	389089.80	791750.86	
16627.00	89.86	180.90	12386.13	4528.87	-4525.06	525.22	0.49	388994.80	791749.73	
16721.00	89.72	181.29	12386.48	4622.84	-4619.04	523.42	0.44	388900.82	791747.93	
16816.00	89.58	181.70	12387.06	4717.78	-4714.00	520.95	0.46	388805.86	791745.46	
16911.00	90.21	180.06	12387.23	4812.75	-4808.99	519.49	1.85	388710.87	791744.00	
17006.00	89.16	178.77	12387.75	4907.75	-4903.98	520.46	1.75	388615.88	791744.97	
17101.00	89.16	178.83	12389.15	5002.73	-4998.95	522.45	0.06	388520.91	791746.96	
17196.00	88.46	179.33	12391.12	5097.70	-5093.91	523.97	0.91	388425.95	791748.48	
17291.00	88.60	179.37	12393.56	5192.67	-5188.88	525.05	0.15	388330.98	791749.56	
17385.00	88.67	179.88	12395.80	5286.64	-5282.85	525.66	0.55	388237.01	791750.17	
17481.00	88.81	179.95	12397.91	5382.62	-5378.82	525.81	0.16	388141.04	791750.32	
17576.00	89.09	180.23	12399.65	5477.60	-5473.81	525.66	0.42	388046.05	791750.17	
17671.00	89.16	180.34	12401.10	5572.58	-5568.80	525.18	0.14	387951.06	791749.69	
17765.00	89.30	180.29	12402.36	5666.56	-5662.79	524.67	0.16	387857.07	791749.18	
17861.00	89.44	180.83	12403.42	5762.54	-5758.78	523.73	0.58	387761.08	791748.24	
17955.00	88.60	181.49	12405.02	5856.49	-5852.74	521.83	1.14	387667.12	791746.34	
18050.00	89.79	180.08	12406.36	5951.46	-5947.72	520.52	1.94	387572.14	791745.03	
18145.00	89.86	178.80	12406.65	6046.45	-6042.71	521.45	1.35	387477.15	791745.96	
18240.00	90.84	177.63	12406.07	6141.42	-6137.66	524.41	1.61	387382.20	791748.92	
18335.00	91.12	177.83	12404.44	6236.36	-6232.57	528.17	0.36	387287.29	791752.68	
18430.00	89.93	178.13	12403.57	6331.32	-6327.51	531.52	1.29	387192.35	791756.03	
18525.00	89.65	177.82	12403.92	6426.28	-6422.45	534.88	0.44	387097.41	791759.39	
18619.00	89.30	178.75	12404.78	6520.25	-6516.40	537.69	1.06	387003.46	791762.20	
18714.00	89.09	179.02	12406.12	6615.24	-6611.37	539.54	0.36	386908.49	791764.05	Last WFT Survey
18775.00	89.09	179.02	12407.09	6676.22	-6672.36	540.58	0.00	386847.50	791765.09	Projection to Bit



Weatherford[®]

Evaluation, Drilling & Intervention

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P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: November 16, 2017

Attention: Kyle Johnson

Re: Devon Energy
Well: Seawolf 1-12 Fed 93H ST01
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc., a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Chad Lowrey MWD Supervisor	93H ST01	18,050' MD 21,551' MD	11/16/2017 11/26/2017	Measurement While Drilling

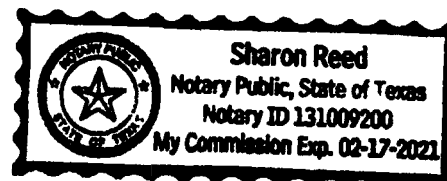
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jonathan Leger
MWD Ops Coordinator

On this, the 28th day of November, 2017, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public





5D Survey Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Seawolf 1-12 Fed Pad*
Well Name: *Seawolf 1-12 Fed 93H ST01*
File number: *12807466*
Survey: *Definitive survey*

28 November 2017





Seawolf 1-12 Fed 93H ST01

Field Name: Lea Co, NM Nad 83 NMEZ	Map Units: US ft	Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
	Comment:		
Site: Seawolf 1-12 Fed Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.43
	Elevation above MSL: 3316.70 US ft		
	Comment: Lea County, NM		
Slot: Seawolf 1-12 Fed 93H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3316.70 US ft		
	Comment:		
Well: Seawolf 1-12 Fed 93H ST01	Type: Sidetrack	UWI:	
	Parent: Seawolf 1-12 Fed 93H	Tie Point Method: MD	
	File Number: 12807466	Comment: ICD 205	
	Closure Distance: 9605.28 US ft	Closure Azimuth: 176.72°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 179.57°

Drill floor: Survey Name: Definitive Survey

Rig Height (Drill Floor): 27.00 US ft	Elevation above MSL: 3343.70 US ft	Inclination: 0.00°	Azimuth: 0.00°
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Survey Name: Definitive Survey

Date: 14/Nov/2017	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:
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Magnetic Model:

Model Name: bggm2017	Date: 25/Oct/2017	Field Strength: 47887.0 nT	Declination: 6.97°	Dip: 59.91°
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Tie Point:

MD: 17955.00 US ft	Inclination: 88.60°	Azimuth: 181.49°	TVD: 12405.02 US ft	North Offset: - 5852.74 US ft	East Offset: 521.83 US ft
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Survey Tool Ranges:

Name	Start MD(USFt)	End MD(USFt)	Source Survey
	17955.00	18809.00	MWD 1
	18809.00	21695.00	MWD 2

5D Survey Report

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
TD (US ft)	Inc (°)	AZ (°)	TVD (US ft)	VS (US ft)	GRASP (US ft)	FLYSP (US ft)	IRS (1000US ft)	Gravim (US ft)	Logging (US ft)	Comments
17955.00	88.60	181.49	12405.02	5856.49	-5852.74	521.83	0.00	387667.12	791746.34	(Tie-on to OH)
18050.00	85.73	183.50	12409.72	5951.24	-5947.52	517.70	3.69	387572.34	791742.21	First Svy for ST01
18145.00	85.31	183.95	12417.14	6045.70	-6042.03	511.55	0.65	387477.83	791736.06	
18239.00	85.87	182.10	12424.37	6139.24	-6135.62	506.60	2.05	387384.24	791731.11	
18334.00	86.99	179.96	12430.29	6234.02	-6230.41	504.90	2.54	387289.45	791729.41	
18429.00	86.71	178.82	12435.51	6328.88	-6325.26	505.91	1.23	387194.60	791730.42	
18524.00	87.55	178.17	12440.27	6423.74	-6420.11	508.40	1.12	387099.75	791732.91	
18619.00	89.16	177.81	12442.99	6518.66	-6515.00	511.73	1.74	387004.86	791736.24	
18714.00	90.28	178.28	12443.46	6613.62	-6609.95	514.97	1.28	386909.91	791739.48	
18809.00	90.21	177.77	12443.05	6708.59	-6704.89	518.24	0.54	386814.97	791742.75	
18904.00	91.19	178.17	12441.89	6803.54	-6799.82	521.61	1.11	386720.04	791746.12	
18999.00	90.84	179.03	12440.21	6898.51	-6894.78	523.93	0.98	386625.08	791748.44	
19094.00	93.21	178.54	12436.85	6993.44	-6989.69	525.94	2.55	386530.17	791750.45	
19188.00	92.03	178.01	12432.55	7087.31	-7083.55	528.77	1.38	386436.31	791753.28	
19283.00	91.82	178.31	12429.36	7182.23	-7178.44	531.82	0.39	386341.42	791756.33	
19378.00	90.35	178.49	12427.56	7277.19	-7273.39	534.47	1.56	386246.47	791758.98	
19473.00	89.30	178.06	12427.85	7372.17	-7368.34	537.33	1.19	386151.52	791761.81	
19568.00	90.49	178.23	12428.03	7467.13	-7463.29	540.40	1.27	386056.57	791764.94	
19663.00	92.73	180.39	12425.36	7562.08	-7558.23	541.55	3.27	385961.63	791766.06	
19758.00	92.37	180.92	12421.13	7656.97	-7653.13	540.46	0.67	385866.73	791764.97	
19853.00	91.12	180.28	12418.24	7751.91	-7748.08	539.47	1.48	385771.78	791763.98	
19948.00	90.35	179.22	12417.02	7846.90	-7843.07	539.88	1.38	385676.79	791764.39	
20042.00	89.65	179.25	12417.02	7940.90	-7937.06	541.14	0.75	385582.80	791765.65	
20137.00	89.30	179.67	12417.89	8035.89	-8032.05	542.03	0.58	385487.81	791766.54	
20232.00	89.65	178.68	12418.76	8130.89	-8127.04	543.40	1.11	385392.82	791767.91	
20327.00	91.82	180.32	12417.54	8225.87	-8222.02	544.23	2.86	385297.84	791768.74	
20422.00	91.75	180.09	12414.58	8320.82	-8316.97	543.89	0.25	385202.89	791768.40	
20517.00	91.05	180.93	12412.26	8415.78	-8411.94	543.05	1.15	385107.92	791767.56	
20611.00	90.28	181.44	12411.17	8509.73	-8505.91	541.10	0.98	385013.95	791765.61	
20706.00	90.42	180.15	12410.59	8604.71	-8600.90	539.78	1.37	384918.96	791764.29	
20800.00	92.03	180.39	12408.58	8698.67	-8694.87	539.34	1.73	384824.99	791763.85	
20894.00	91.54	179.40	12405.65	8792.62	-8788.82	539.51	1.17	384731.04	791764.02	
20988.00	90.70	178.85	12403.82	8886.60	-8882.79	540.95	1.07	384637.07	791765.46	
21082.00	90.28	178.50	12403.01	8980.59	-8976.76	543.12	0.58	384543.10	791767.63	
21176.00	90.28	178.51	12402.55	9074.57	-9070.73	545.58	0.01	384449.13	791770.09	
21270.00	90.42	179.43	12401.98	9168.56	-9164.71	547.27	0.99	384355.15	791771.78	
21364.00	89.02	179.98	12402.44	9262.56	-9258.71	547.75	1.60	384261.15	791772.26	
21458.00	88.46	180.32	12404.50	9356.53	-9352.68	547.50	0.70	384167.18	791772.01	
21551.00	87.56	179.67	12407.73	9449.47	-9445.63	547.51	1.19	384074.23	791772.02	Last WFT Svy
21695.00	90.00	179.02	12410.80	9593.42	-9589.57	549.16	1.75	383930.29	791773.67	Projection to TD