



Weatherford®

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

Date: September 17, 2015

Attention: Ryan Dzurisin

Re: Devon Energy
Well: Billiken 6 Fed 1H
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), 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>
Ben Hernandez MWD Supervisor	1H	226 MD 13637 MD	8/31/2015 9/14/2015	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.

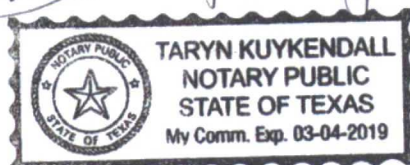
JZ

Jonathan Leger
MWD Ops Coordinator

On this, the 30th day of October, 2015, 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.

Taryn Kuykendall
Notary Public





5D Survey Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Billiken 6 Federal 1,2H Pad*
Well Name: *Billiken 6 Federal 1H*
Survey: *Definitive survey*

14 September 2015

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Billiken 6 Federal 1H

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: Billiken 6 Federal 1,2H Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.49	
	Position:	Northing: 388914.98US ft	Latitude: 32° 3' 57.06"	
		Easting: 827067.07US ft	Longitude: -103° 24' 39.41"	
	Elevation above MSL: 3269.00 US ft		Comment:	
Slot: Billiken 6 Federal 1H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 388914.98US ft	Latitude: 32°3'57.06"	
	+E/-W: 0.00US ft	Easting: 827067.07US ft	Longitude: -103°24'39.41"	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3269.00US ft			
Well: Billiken 6 Federal 1H	Type: Main well		UWI:	
	File Number:	Comment:		
	Closure Distance: 4720.6US ft	Closure Azimuth: 352.07°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00US ft	+E/-W: 0.00US ft	Az: 357.78°	
Drill floor: Survey Name: Definitive Survey				
Rig Height (Kelly Bushing): 30.00us ft		Elevation above MSL: 3299.00us ft	Inclination: 0.00°	Azimuth: 0.00°
Survey Name: Definitive Survey				
Date: 17/Sep/2014	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:	
Magnetic Model:				
Model Name: BGGM	Date: 29/Aug/2015	Field Strength: 48150.1nT	Declination: 7.15°	Dip: 60.03°
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	
MWD	0.00	13708.00	Wft MWD Svy	
Wellpath created using minimum curvature.				

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	388914.98	827067.07	
226.00	0.90	155.05	225.99	-1.61	0.75	-1.64	0.40	388913.37	827067.82	First Wft Svy
413.00	1.15	153.75	412.96	-4.62	2.20	-4.71	0.13	388910.36	827069.27	
598.00	0.82	152.55	597.93	-7.46	3.63	-7.60	0.18	388907.52	827070.70	
783.00	0.35	143.33	782.92	-9.09	4.58	-9.26	0.26	388905.89	827071.65	
969.00	0.16	135.87	968.92	-9.73	5.10	-9.92	0.10	388905.25	827072.17	
1095.00	0.29	110.46	1094.92	-9.97	5.52	-10.18	0.13	388905.01	827072.59	
1241.00	0.49	89.27	1240.92	-10.09	6.49	-10.34	0.17	388904.89	827073.56	
1431.00	0.56	95.91	1430.91	-10.18	8.22	-10.49	0.05	388904.80	827075.29	
1623.00	0.59	88.84	1622.90	-10.25	10.15	-10.64	0.04	388904.73	827077.22	
1813.00	0.60	102.87	1812.89	-10.46	12.09	-10.92	0.08	388904.52	827079.16	
2002.00	0.55	105.87	2001.88	-10.92	13.93	-11.46	0.03	388904.06	827081.00	
2192.00	0.63	104.56	2191.87	-11.44	15.82	-12.04	0.04	388903.54	827082.89	
2382.00	0.53	96.77	2381.86	-11.80	17.70	-12.48	0.07	388903.18	827084.77	
2572.00	0.58	93.66	2571.85	-11.97	19.54	-12.72	0.03	388903.01	827086.61	
2761.00	0.69	85.25	2760.84	-11.93	21.62	-12.76	0.08	388903.05	827088.69	
2951.00	0.64	69.68	2950.83	-11.47	23.76	-12.38	0.10	388903.51	827090.83	
3046.00	0.55	62.25	3045.82	-11.07	24.66	-12.02	0.12	388903.91	827091.73	
3141.00	0.25	62.57	3140.82	-10.77	25.25	-11.74	0.32	388904.21	827092.32	
3236.00	0.10	19.14	3235.82	-10.59	25.46	-11.57	0.20	388904.39	827092.53	
3331.00	0.16	27.02	3330.82	-10.40	25.55	-11.38	0.07	388904.58	827092.62	
3426.00	0.49	48.39	3425.82	-10.01	25.91	-11.01	0.36	388904.97	827092.98	
3521.00	0.51	47.07	3520.81	-9.45	26.52	-10.47	0.02	388905.53	827093.59	
3616.00	0.29	350.83	3615.81	-8.93	26.80	-9.96	0.45	388906.05	827093.87	
3711.00	0.31	347.51	3710.81	-8.44	26.70	-9.47	0.03	388906.54	827093.77	
3805.00	0.31	4.14	3804.81	-7.94	26.66	-8.96	0.10	388907.04	827093.73	
3900.00	0.35	14.23	3899.81	-7.40	26.75	-8.43	0.07	388907.58	827093.82	
3995.00	0.41	15.48	3994.80	-6.79	26.92	-7.83	0.06	388908.19	827093.99	
4090.00	0.47	10.11	4089.80	-6.08	27.08	-7.12	0.08	388908.90	827094.15	
4185.00	0.85	21.68	4184.80	-5.04	27.40	-6.10	0.42	388909.94	827094.47	
4280.00	1.05	40.64	4279.78	-3.72	28.23	-4.82	0.39	388911.26	827095.30	
4374.00	0.89	39.08	4373.77	-2.50	29.25	-3.64	0.17	388912.48	827096.32	
4469.00	1.05	36.36	4468.76	-1.23	30.23	-2.40	0.18	388913.75	827097.30	
4564.00	0.98	38.47	4563.74	0.11	31.26	-1.10	0.08	388915.09	827098.33	
4659.00	0.85	14.33	4658.73	1.43	31.94	0.19	0.42	388916.41	827099.01	
4754.00	1.13	54.05	4753.72	2.66	32.87	1.38	0.76	388917.64	827099.94	
4849.00	1.22	63.70	4848.70	3.66	34.53	2.32	0.23	388918.64	827101.60	
4944.00	1.00	69.34	4943.68	4.40	36.22	2.99	0.26	388919.38	827103.29	
5038.00	0.58	74.31	5037.67	4.81	37.44	3.36	0.45	388919.79	827104.51	
5133.00	0.00	0.00	5132.67	4.94	37.90	3.47	0.61	388919.92	827104.97	
5228.00	0.63	259.69	5227.66	4.85	37.39	3.40	0.66	388919.83	827104.46	
5293.00	0.63	265.74	5292.66	4.76	36.68	3.34	0.10	388919.74	827103.75	
5456.00	0.43	332.22	5455.66	5.24	35.50	3.86	0.37	388920.22	827102.57	
5551.00	0.90	282.56	5550.65	5.71	34.61	4.37	0.74	388920.69	827101.68	
5646.00	2.33	277.74	5645.61	6.14	31.97	4.89	1.51	388921.12	827099.04	
5740.00	3.22	280.56	5739.50	6.88	27.48	5.81	0.96	388921.86	827094.55	
5835.00	4.45	283.29	5834.28	8.21	21.27	7.38	1.31	388923.19	827088.34	
5930.00	5.44	286.99	5928.93	10.38	13.37	9.85	1.09	388925.36	827080.44	
6025.00	6.64	283.64	6023.40	12.99	3.73	12.83	1.32	388927.97	827070.80	
6120.00	7.45	274.16	6117.69	14.73	-7.75	15.02	1.49	388929.71	827059.32	
6214.00	7.10	265.72	6210.93	14.74	-19.62	15.49	1.20	388929.72	827047.45	
6309.00	6.68	266.69	6305.25	13.98	-30.99	15.17	0.46	388928.96	827036.08	
6404.00	6.15	266.23	6399.65	13.33	-41.59	14.93	0.56	388928.31	827025.48	
6499.00	6.51	269.75	6494.07	12.97	-52.05	14.98	0.56	388927.95	827015.02	
6594.00	7.67	270.58	6588.34	13.01	-63.78	15.47	1.23	388927.99	827003.29	
6689.00	7.61	270.04	6682.50	13.08	-76.40	16.03	0.10	388928.06	826990.67	
6784.00	7.35	268.80	6776.69	12.96	-88.77	16.38	0.32	388927.94	826978.30	
6878.00	6.93	268.65	6869.96	12.70	-100.45	16.58	0.45	388927.68	826966.62	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
HD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
6973.00	6.68	269.39	6964.29	12.50	-111.71	16.82	0.28	388927.48	826955.36	
7068.00	6.47	267.43	7058.67	12.20	-122.58	16.94	0.32	388927.18	826944.49	
7163.00	7.10	263.39	7153.00	11.29	-133.76	16.46	0.83	388926.27	826933.31	
7258.00	6.10	261.75	7247.37	9.89	-144.59	15.48	1.07	388924.87	826922.48	
7353.00	6.84	261.89	7341.77	8.36	-155.18	14.37	0.78	388923.34	826911.89	
7448.00	6.71	266.78	7436.10	7.25	-166.32	13.69	0.62	388922.23	826900.75	
7543.00	6.15	261.02	7530.51	6.15	-176.89	13.00	0.90	388921.13	826890.18	
7638.00	5.69	259.24	7625.00	4.48	-186.54	11.70	0.52	388919.46	826880.53	
7733.00	5.36	257.83	7719.56	2.66	-195.51	10.23	0.38	388917.64	826871.56	
7828.00	5.32	257.20	7814.15	0.75	-204.14	8.66	0.07	388915.73	826862.93	
7922.00	4.47	253.82	7907.80	-1.24	-211.91	6.97	0.95	388913.74	826855.16	
8017.00	3.77	251.36	8002.56	-3.27	-218.42	5.20	0.76	388911.71	826848.65	
8112.00	3.15	249.69	8097.38	-5.17	-223.83	3.50	0.66	388909.81	826843.24	
8207.00	2.83	246.40	8192.25	-7.02	-228.43	1.84	0.38	388907.96	826838.64	
8301.00	2.43	245.60	8286.15	-8.77	-232.37	0.24	0.43	388906.21	826834.70	
8396.00	2.11	244.25	8381.08	-10.36	-235.78	-1.22	0.34	388904.62	826831.29	
8491.00	1.89	241.58	8476.02	-11.87	-238.73	-2.61	0.25	388903.11	826828.34	
8553.00	1.69	242.02	8537.99	-12.78	-240.44	-3.46	0.32	388902.20	826826.63	
8617.00	1.67	265.96	8601.96	-13.29	-242.20	-3.90	1.09	388901.69	826824.87	
8649.00	3.59	311.05	8633.93	-12.66	-243.42	-3.23	8.39	388902.32	826823.65	
8680.00	7.33	322.84	8664.79	-10.45	-245.35	-0.94	12.53	388904.53	826821.72	
8727.00	14.79	321.42	8710.88	-3.36	-250.91	6.36	15.88	388911.62	826816.16	
8775.00	21.78	317.84	8756.43	8.04	-260.72	18.14	14.74	388923.02	826806.35	
8822.00	26.62	315.29	8799.29	22.00	-273.99	32.60	10.53	388936.98	826793.08	
8870.00	31.45	313.97	8841.24	38.35	-290.58	49.57	10.15	388953.33	826776.49	
8917.00	36.61	313.69	8880.18	56.55	-309.55	68.50	10.98	388971.53	826757.52	
8964.00	42.02	313.66	8916.53	77.11	-331.08	89.87	11.51	388992.09	826735.99	
9011.00	45.40	314.13	8950.50	99.63	-354.47	113.28	7.22	389014.61	826712.60	
9059.00	50.84	316.41	8982.53	125.02	-379.59	139.63	11.87	389040.00	826687.48	
9106.00	55.41	320.04	9010.74	153.07	-404.60	168.63	11.52	389068.05	826662.47	
9154.00	59.83	325.05	9036.45	185.25	-429.20	201.74	12.74	389100.23	826637.87	
9201.00	64.06	326.70	9058.55	219.58	-452.45	236.95	9.52	389134.56	826614.62	
9249.00	68.20	328.45	9077.97	256.63	-475.97	274.88	9.25	389171.61	826591.10	
9296.00	73.39	332.90	9093.43	295.32	-497.67	314.37	14.21	389210.30	826569.40	
9327.00	76.89	334.26	9101.38	322.15	-511.00	341.70	12.06	389237.13	826556.07	
9349.00	80.15	335.33	9105.76	341.65	-520.18	361.54	15.57	389256.63	826546.89	
9381.00	83.55	336.13	9110.30	370.52	-533.19	390.90	10.91	389285.50	826533.88	
9412.00	85.73	336.42	9113.19	398.78	-545.61	419.61	7.09	389313.76	826521.46	
9444.00	86.36	337.47	9115.40	428.15	-558.11	449.45	3.82	389343.13	826508.96	
9476.00	87.97	338.34	9116.98	457.76	-570.13	479.51	5.72	389372.74	826496.94	
9508.00	89.37	340.13	9117.72	487.68	-581.47	509.83	7.10	389402.66	826485.60	
9539.00	90.35	342.43	9117.80	517.03	-591.42	539.56	8.06	389432.01	826475.65	
9571.00	90.21	344.09	9117.64	547.68	-600.64	570.53	5.21	389462.66	826466.43	
9634.00	88.74	348.18	9118.22	608.82	-615.73	632.22	6.90	389523.80	826451.34	
9729.00	88.67	351.12	9120.37	702.24	-632.79	726.23	3.09	389617.22	826434.28	
9824.00	89.44	352.39	9121.93	796.25	-646.42	820.69	1.56	389711.23	826420.65	
9919.00	90.77	354.66	9121.76	890.63	-657.13	915.42	2.77	389805.61	826409.94	
10013.00	91.12	356.58	9120.21	984.34	-664.31	1009.33	2.08	389899.32	826402.76	
10108.00	90.00	356.59	9119.28	1079.16	-669.96	1104.31	1.18	389994.14	826397.11	
10203.00	91.05	356.98	9118.41	1174.01	-675.29	1199.29	1.18	390088.99	826391.78	
10298.00	88.04	357.23	9119.17	1268.87	-680.09	1294.27	3.18	390183.85	826386.98	
10393.00	88.25	357.42	9122.24	1363.72	-684.52	1389.21	0.30	390278.70	826382.55	
10488.00	90.07	357.78	9123.63	1458.62	-688.50	1484.20	1.95	390373.60	826378.57	
10582.00	90.56	357.55	9123.12	1552.54	-692.33	1578.20	0.58	390467.52	826374.74	
10677.00	91.26	357.35	9121.61	1647.44	-696.55	1673.18	0.77	390562.42	826370.52	
10772.00	92.66	357.79	9118.36	1742.29	-700.58	1768.12	1.54	390657.27	826366.49	
10867.00	91.96	358.81	9114.53	1837.17	-703.40	1863.04	1.30	390752.15	826363.67	
10962.00	92.17	358.72	9111.11	1932.09	-705.44	1957.97	0.24	390847.07	826361.63	
11057.00	90.56	359.71	9108.84	2027.05	-706.74	2052.90	1.99	390942.03	826360.33	

5. Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
11151.00	89.93	0.68	9108.44	2121.05	-706.42	2146.82	1.23	391036.03	826360.65	
11246.00	90.56	3.04	9108.03	2215.99	-703.34	2241.57	2.57	391130.97	826363.73	
11341.00	88.46	2.16	9108.85	2310.88	-699.03	2336.22	2.40	391225.86	826368.04	
11436.00	88.39	2.48	9111.46	2405.77	-695.19	2430.89	0.34	391320.75	826371.88	
11531.00	88.95	2.62	9113.66	2500.65	-690.96	2525.53	0.61	391415.63	826376.11	
11626.00	89.79	3.12	9114.71	2595.52	-686.20	2620.15	1.03	391510.50	826380.87	
11720.00	88.88	1.79	9115.80	2689.42	-682.18	2713.83	1.71	391604.40	826384.89	
11815.00	87.69	0.49	9118.64	2784.36	-680.29	2808.62	1.85	391699.34	826386.78	
11910.00	87.97	0.38	9122.24	2879.29	-679.57	2903.45	0.32	391794.27	826387.50	
12005.00	89.02	0.01	9124.73	2974.25	-679.24	2998.33	1.17	391889.23	826387.83	
12100.00	89.93	1.03	9125.60	3069.24	-678.38	3093.22	1.44	391984.22	826388.69	
12195.00	92.03	2.47	9123.98	3164.18	-675.48	3187.97	2.68	392079.16	826391.59	
12290.00	93.50	3.50	9119.40	3258.93	-670.54	3282.46	1.89	392173.91	826396.53	
12385.00	93.15	2.82	9113.89	3353.63	-665.31	3376.88	0.80	392268.61	826401.76	
12480.00	92.59	2.15	9109.13	3448.42	-661.20	3471.44	0.92	392363.40	826405.87	
12575.00	90.56	1.73	9106.52	3543.32	-657.99	3566.15	2.18	392458.30	826409.08	
12669.00	87.97	0.76	9107.73	3637.29	-655.94	3659.96	2.94	392552.27	826411.13	
12764.00	87.69	0.88	9111.32	3732.21	-654.58	3754.76	0.32	392647.19	826412.49	
12859.00	88.25	0.15	9114.69	3827.14	-653.73	3849.59	0.97	392742.12	826413.34	
12954.00	87.48	359.72	9118.23	3922.08	-653.84	3944.46	0.93	392837.06	826413.23	
13049.00	89.65	359.12	9120.61	4017.04	-654.80	4039.39	2.37	392932.02	826412.27	
13144.00	90.35	358.80	9120.61	4112.02	-656.52	4134.36	0.81	393027.00	826410.55	
13238.00	91.75	359.16	9118.88	4205.99	-658.20	4228.33	1.54	393120.97	826408.87	
13333.00	91.40	359.84	9116.27	4300.95	-659.03	4323.25	0.80	393215.93	826408.04	
13428.00	91.96	1.20	9113.49	4395.90	-658.16	4418.09	1.55	393310.88	826408.91	
13522.00	93.15	1.70	9109.30	4489.77	-655.79	4511.81	1.37	393404.75	826411.28	
13637.00	92.52	1.38	9103.61	4604.59	-652.70	4626.42	0.61	393519.57	826414.37	Last Wft Svy
13708.00	92.52	1.38	9100.49	4675.50	-650.99	4697.21	0.00	393590.48	826416.08	Proj to Bit