



Weatherford*

Evaluation, Drilling & Intervention
10000 West County Rd. 116
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: September 5, 2015

Attention: Ryan Dzurisin

HOBBS OCD

Re: Devon Energy
Well: Billiken 6 Fed 2H
Lea County, New Mexico

MAY 24 2017

RECEIVED

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:

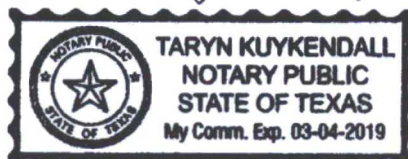
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Ben Hernandez MWD Supervisor	2H	8574 MD 13571 MD	8/22/2015 8/29/2015	Measurement While Drilling

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.

Jonathan Leger
MWD Ops Coordinator

On this, the 1st day of November, 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.

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 2H*
Survey: *Wft Svys*

31 August 2015





Billiken 6 Federal 2H

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
	Elevation above MSL: 3269.00 US ft		
	Comment:		
Slot: Billiken 6 Federal 2H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3264.00US ft		
	Comment:		
Well: Billiken 6 Federal 2H	Type: Main well	UWI:	
	File Number:	Comment:	
	Closure Distance: 4726.89US ft	Closure Azimuth: 7.40°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00US ft	+E/-W: 0.00US ft	Az: 2.82°

Drill floor: Survey Name: Wft Svys
Rig Height (Kelly Bushing): Elevation above MSL: 30.00us ft
Inclination: 0.00° **Azimuth:** 0.00°
 3294.00us ft

Survey Name: Wft Svys
Date: 24/Aug/2015 **Survey Tool:** MWD **Comment:** **Company:**
Magnetic Model:
Model Name: BGGM **Date:** 30/Jul/2015 **Field Strength:** 48159.0nT **Declination:** 7.16° **Dip:** 60.03°
Tie Point:
MD: 8435.00 US ft **Inclination:** 0.70° **Azimuth:** 250.83° **TVD:** 8434.35 US ft **North Offset:** 29.74 US ft **East Offset:** 54.00 US ft

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (¹ /100US ft)	Northing (US ft)	Easting (US ft)	Comment
8574.00	0.59	6.55	8573.35	30.17	53.28	32.75	0.00	388945.39	827170.34	First Wft Svy

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
ID (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
8606.00	3.52	27.09	8605.33	31.21	53.75	33.81	9.30	388946.43	827170.81	
8638.00	7.01	25.21	8637.19	33.85	55.03	36.52	10.92	388949.07	827172.09	
8669.00	10.29	35.63	8667.83	37.81	57.45	40.59	11.68	388953.03	827174.51	
8701.00	14.11	39.35	8699.10	43.15	61.59	46.13	12.18	388958.37	827178.65	
8732.00	17.34	41.76	8728.94	49.52	67.06	52.76	10.63	388964.74	827184.12	
8764.00	21.39	42.04	8759.12	57.42	74.15	61.00	12.66	388972.64	827191.21	
8795.00	26.18	42.63	8787.48	66.65	82.57	70.64	15.47	388981.87	827199.63	
8827.00	30.35	44.01	8815.66	77.67	92.97	82.15	13.19	388992.89	827210.03	
8858.00	34.61	43.29	8841.80	89.71	104.46	94.74	13.80	389004.93	827221.52	
8890.00	39.02	40.80	8867.42	103.96	117.28	109.61	14.55	389019.18	827234.34	
8922.00	42.79	41.89	8891.60	119.68	131.12	125.99	11.99	389034.90	827248.18	
8953.00	46.02	41.52	8913.74	135.88	145.55	142.87	10.45	389051.10	827262.61	
8985.00	48.67	41.30	8935.42	153.53	161.12	161.27	8.30	389068.75	827278.18	
9017.00	52.15	39.87	8955.82	172.26	177.15	180.76	11.41	389087.48	827294.21	
9048.00	55.36	39.71	8974.14	191.47	193.15	200.74	10.36	389106.69	827310.21	
9080.00	58.99	39.21	8991.48	212.23	210.23	222.31	11.42	389127.45	827327.29	
9111.00	62.51	39.50	9006.63	233.13	227.38	244.04	11.38	389148.35	827344.44	
9143.00	63.81	41.06	9021.08	254.91	245.84	266.70	5.95	389170.13	827362.90	
9175.00	64.96	41.93	9034.91	276.53	264.96	289.23	4.35	389191.75	827382.02	
9206.00	66.73	40.70	9047.60	297.77	283.63	311.36	6.76	389212.99	827400.69	
9237.50	68.18	38.83	9059.68	320.13	302.24	334.62	7.15	389235.35	827419.30	Cross Prod. Box
9238.00	68.20	38.80	9059.86	320.50	302.53	334.99	7.15	389235.72	827419.59	
9269.00	72.08	36.20	9070.39	343.62	320.27	358.97	14.79	389258.84	827437.33	
9301.00	75.64	32.65	9079.29	368.98	337.63	385.14	15.40	389284.20	827454.69	
9332.00	79.24	29.87	9086.03	394.84	353.32	411.74	14.54	389310.06	827470.38	
9364.00	82.64	25.24	9091.07	422.84	367.93	440.43	17.80	389338.06	827484.99	
9396.00	84.96	21.20	9094.53	452.07	380.47	470.24	14.49	389367.29	827497.53	
9427.00	87.13	17.20	9096.67	481.27	390.63	499.91	14.65	389396.49	827507.69	
9446.00	88.04	14.44	9097.47	499.53	395.81	518.40	15.28	389414.75	827512.87	
9478.00	90.63	10.06	9097.84	530.79	402.59	549.96	15.90	389446.01	827519.65	
9509.00	91.19	7.55	9097.35	561.42	407.34	580.78	8.29	389476.64	827524.40	
9541.00	91.33	5.99	9096.64	593.19	411.11	612.70	4.89	389508.41	827528.17	
9636.00	88.67	1.02	9096.64	687.97	416.92	707.65	5.93	389603.19	827533.98	
9731.00	89.16	359.74	9098.44	782.95	417.54	802.55	1.44	389698.17	827534.60	
9825.00	89.65	358.52	9099.42	876.93	416.12	896.34	1.40	389792.15	827533.18	
9920.00	88.95	358.73	9100.58	971.90	413.84	991.08	0.77	389887.12	827530.90	
10015.00	88.04	358.70	9103.08	1066.84	411.71	1085.80	0.96	389982.06	827528.77	
10110.00	89.23	358.20	9105.34	1161.78	409.14	1180.50	1.36	390077.00	827526.20	
10205.00	90.07	358.54	9105.92	1256.74	406.44	1275.21	0.95	390171.96	827523.50	
10299.00	90.28	358.36	9105.63	1350.70	403.89	1368.94	0.29	390265.92	827520.95	
10394.00	89.30	359.73	9105.98	1445.68	402.31	1463.73	1.77	390360.90	827519.37	
10489.00	88.74	1.97	9107.60	1540.65	403.72	1558.65	2.43	390455.87	827520.78	
10584.00	88.32	1.27	9110.04	1635.58	406.41	1653.60	0.86	390550.80	827523.47	
10679.00	88.32	1.06	9112.83	1730.52	408.34	1748.52	0.22	390645.74	827525.40	
10774.00	89.23	0.63	9114.86	1825.49	409.74	1843.44	1.06	390740.71	827526.80	
10869.00	88.32	2.76	9116.89	1920.42	412.55	1938.39	2.44	390835.64	827529.61	
10963.00	88.74	3.86	9119.30	2014.23	417.97	2032.35	1.25	390929.45	827535.03	
11058.00	88.18	6.19	9121.85	2108.82	426.29	2127.24	2.52	391024.04	827543.35	
11153.00	89.37	6.68	9123.89	2203.20	436.93	2222.03	1.35	391118.42	827553.99	
11248.00	89.79	6.67	9124.58	2297.56	447.98	2316.81	0.44	391212.78	827565.04	
11343.00	90.56	5.82	9124.29	2391.99	458.31	2411.64	1.21	391307.21	827575.37	
11438.00	90.56	4.96	9123.36	2486.56	467.23	2506.54	0.91	391401.78	827584.29	
11532.00	91.33	3.91	9121.81	2580.27	474.50	2600.49	1.39	391495.49	827591.56	
11627.00	90.00	4.63	9120.71	2674.99	481.57	2695.45	1.59	391590.21	827598.63	
11722.00	89.09	4.70	9121.46	2769.68	489.30	2790.39	0.96	391684.90	827606.36	
11817.00	87.69	3.59	9124.13	2864.39	496.16	2885.33	1.88	391779.61	827613.22	
11912.00	87.55	3.17	9128.08	2959.14	501.76	2980.24	0.47	391874.36	827618.82	
12007.00	88.04	3.62	9131.73	3053.90	507.38	3075.17	0.70	391969.12	827624.44	

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										Comment
MD (US ft.)	Incl (°)	Az (°)	TVD (US ft.)	N. Offset (US ft.)	E. Offset (US ft.)	VS (US ft.)	DLS (° 100US ft.)	Northing (US ft.)	Easting (US ft.)	
12102.00	88.53	3.75	9134.58	3148.66	513.48	3170.11	0.53	392063.88	827630.54	
12196.00	90.07	4.50	9135.73	3242.41	520.24	3264.08	1.82	392157.63	827637.30	
12291.00	90.28	4.29	9135.43	3337.13	527.52	3359.04	0.31	392252.35	827644.58	
12386.00	90.07	4.83	9135.14	3431.83	535.08	3454.00	0.61	392347.05	827652.14	
12481.00	90.28	3.25	9134.85	3526.59	541.77	3548.97	1.68	392441.81	827658.83	
12576.00	90.56	3.56	9134.16	3621.42	547.41	3643.96	0.44	392536.64	827664.47	
12671.00	91.05	3.83	9132.82	3716.21	553.53	3738.94	0.59	392631.43	827670.59	
12766.00	90.70	3.62	9131.37	3811.00	559.71	3833.92	0.43	392726.22	827676.77	
12861.00	89.51	2.45	9131.20	3905.86	564.73	3928.92	1.76	392821.08	827681.79	
12956.00	89.02	1.95	9132.42	4000.78	568.38	4023.90	0.74	392916.00	827685.44	
13050.00	90.77	3.32	9132.59	4094.68	572.70	4117.89	2.36	393009.90	827689.76	
13145.00	90.91	3.50	9131.20	4189.50	578.35	4212.88	0.24	393104.72	827695.41	
13240.00	90.98	3.73	9129.63	4284.30	584.34	4307.86	0.25	393199.52	827701.40	
13335.00	91.05	3.80	9127.95	4379.08	590.58	4402.83	0.10	393294.30	827707.64	
13430.00	89.86	3.60	9127.19	4473.87	596.71	4497.81	1.27	393389.09	827713.77	
13524.00	89.09	2.96	9128.05	4567.71	602.09	4591.81	1.07	393482.93	827719.15	
13571.00	89.20	3.32	9128.76	4614.64	604.66	4638.80	0.80	393529.86	827721.72	Last Wft Svy
13644.00	89.20	3.32	9129.77	4687.51	608.89	4711.79	0.00	393602.73	827725.95	Proj. To Bit