



Directional Survey

Well Name: SEAWOLF 12-1 FEDERAL 1H

Sub-Division DELAWARE BASIN EAST		Region BASIN EAST		Field Name RATTLESNAKE (NM)		County LEA		State/Province NM					
Surface Legal Location SEC 13-26S-33E ✓		API/UWI 3002542775 ✓		Latitude (°) 32° 3' 0.52" N		Longitude (°) 103° 31' 9.809" W		Orig KB Elevation (ft) 3,383.00		Ground Elev MSL (ft) 3,359.50		KB - GL (ft) 23.50	

Wellbores			
Wellbore Name	Parent Wellbore	SAP Well ID	Vertical Section Direction (°)
OH	OH	39018	359.57

Kick Offs & Key Depths				HOBBS OGD	
Date 10/10/2015		Type CURVE		Top Depth (ftKB) 9,214.0	
Actual Deviation Survey EXTREME, Proposed? No		Definitive? No	Proposed? No	Proposed Deviation Survey MAR 01 2016	

Deviation Survey				RECEIVED	
Date 10/3/2015		Description EXTREME			
MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 0.00	Inclination Tie In (°) 0.00	Azimuth Tie In (°) 0.00	NSTie In (ft) 0.00	EW Tie In (ft) 0.00

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
10/3/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME
10/3/2015	176.00	0.62	176.45	176.00	-0.95	-0.95	0.06	0.35	MWD	EXTREME
10/3/2015	206.00	0.62	179.82	205.99	-1.28	-1.27	0.07	0.12	MWD	EXTREME
10/3/2015	330.00	0.79	171.21	329.99	-2.79	-2.79	0.20	0.16	MWD	EXTREME
10/3/2015	515.00	1.41	146.20	514.95	-5.95	-5.94	1.66	0.42	MWD	EXTREME
10/3/2015	699.00	2.11	113.29	698.87	-9.21	-9.16	6.03	0.65	MWD	EXTREME
10/3/2015	884.00	1.80	106.70	883.76	-11.43	-11.34	11.95	0.21	MWD	EXTREME
10/3/2015	1,069.00	2.00	115.70	1,068.66	-13.71	-13.58	17.64	0.19	MWD	EXTREME
10/3/2015	1,149.00	1.49	112.10	1,148.62	-14.72	-14.58	19.86	0.65	MWD	EXTREME
10/3/2015	1,348.00	1.01	120.90	1,347.57	-16.63	-16.45	23.76	0.26	MWD	EXTREME
10/3/2015	1,534.00	0.88	127.00	1,533.55	-18.35	-18.15	26.31	0.09	MWD	EXTREME
10/3/2015	1,730.00	0.70	123.31	1,729.53	-19.93	-19.71	28.51	0.10	MWD	EXTREME
10/3/2015	1,930.00	0.31	157.89	1,929.52	-21.11	-20.89	29.74	0.24	MWD	EXTREME
10/3/2015	2,115.00	0.22	107.23	2,114.52	-21.68	-21.46	30.26	0.13	MWD	EXTREME
10/3/2015	2,302.00	0.22	95.62	2,301.52	-21.83	-21.60	30.96	0.02	MWD	EXTREME
10/3/2015	2,493.00	0.22	40.52	2,492.52	-21.59	-21.35	31.57	0.11	MWD	EXTREME
10/3/2015	2,683.00	0.40	60.60	2,682.51	-20.99	-20.75	32.38	0.11	MWD	EXTREME
10/3/2015	2,873.00	0.50	80.32	2,872.51	-20.54	-20.29	33.78	0.10	MWD	EXTREME
10/3/2015	3,063.00	0.60	75.25	3,062.50	-20.16	-19.89	35.56	0.06	MWD	EXTREME
10/3/2015	3,253.00	0.80	87.30	3,252.49	-19.86	-19.58	37.84	0.13	MWD	EXTREME
10/3/2015	3,443.00	1.30	91.20	3,442.45	-19.87	-19.56	41.32	0.27	MWD	EXTREME
10/3/2015	3,633.00	1.40	96.30	3,632.40	-20.20	-19.86	45.78	0.08	MWD	EXTREME
10/3/2015	3,823.00	1.50	99.10	3,822.34	-20.89	-20.51	50.55	0.06	MWD	EXTREME
10/3/2015	4,013.00	1.40	93.10	4,012.28	-21.44	-21.03	55.32	0.10	MWD	EXTREME
10/3/2015	4,117.00	1.32	83.10	4,116.25	-21.39	-20.95	57.78	0.24	MWD	EXTREME
10/3/2015	4,307.00	1.32	91.23	4,306.20	-21.20	-20.74	62.14	0.10	MWD	EXTREME
10/3/2015	4,500.00	1.32	86.92	4,499.15	-21.16	-20.66	66.58	0.05	MWD	EXTREME
10/3/2015	4,688.00	1.10	88.20	4,687.11	-21.02	-20.49	70.55	0.12	MWD	EXTREME
10/3/2015	4,884.00	1.19	91.62	4,883.07	-21.05	-20.49	74.46	0.06	MWD	EXTREME
10/8/2015	5,076.00	1.10	107.23	5,075.03	-21.68	-21.09	78.21	0.17	MWD	EXTREME
10/8/2015	5,107.00	1.01	105.29	5,106.02	-21.84	-21.25	78.76	0.31	MWD	EXTREME
10/8/2015	5,184.00	0.79	100.90	5,183.01	-22.13	-21.53	79.94	0.30	MWD	EXTREME
10/8/2015	5,319.00	0.70	111.71	5,318.00	-22.62	-22.01	81.62	0.12	MWD	EXTREME
10/8/2015	5,515.00	0.70	97.60	5,513.99	-23.24	-22.61	83.92	0.09	MWD	EXTREME
10/8/2015	5,704.00	0.79	125.11	5,702.97	-24.16	-23.52	86.13	0.19	MWD	EXTREME
10/8/2015	5,896.00	0.79	153.89	5,894.96	-26.12	-25.47	87.79	0.20	MWD	EXTREME
10/8/2015	6,086.00	0.48	165.01	6,084.94	-28.07	-27.41	88.58	0.17	MWD	EXTREME
10/8/2015	6,277.00	0.40	128.80	6,275.94	-29.27	-28.60	89.30	0.15	MWD	EXTREME
10/8/2015	6,468.00	0.40	132.41	6,466.93	-30.15	-29.47	90.31	0.01	MWD	EXTREME
10/8/2015	6,660.00	0.70	93.43	6,658.93	-30.68	-29.99	91.98	0.24	MWD	EXTREME
10/8/2015	6,851.00	0.70	84.81	6,849.91	-30.66	-29.96	94.31	0.06	MWD	EXTREME
10/8/2015	7,042.00	0.48	73.61	7,040.90	-30.35	-29.62	96.24	0.13	MWD	EXTREME
10/8/2015	7,233.00	0.40	50.26	7,231.90	-29.70	-28.97	97.52	0.10	MWD	EXTREME
10/8/2015	7,424.00	0.40	27.29	7,422.89	-28.69	-27.95	98.33	0.08	MWD	EXTREME
10/8/2015	7,615.00	0.70	146.82	7,613.89	-29.08	-28.34	99.28	0.50	MWD	EXTREME
10/8/2015	7,806.00	1.32	170.28	7,804.86	-32.23	-31.48	100.29	0.38	MWD	EXTREME
10/8/2015	7,999.00	1.49	169.63	7,997.80	-36.90	-36.14	101.11	0.09	MWD	EXTREME
10/8/2015	8,189.00	1.80	181.01	8,187.72	-42.32	-41.56	101.51	0.24	MWD	EXTREME
10/8/2015	8,380.00	1.80	166.42	8,378.63	-48.24	-47.47	102.16	0.24	MWD	EXTREME
10/8/2015	8,570.00	2.02	154.91	8,568.52	-54.18	-53.40	104.28	0.23	MWD	EXTREME
10/8/2015	8,761.00	2.20	167.69	8,759.39	-60.83	-60.03	106.49	0.26	MWD	EXTREME
10/8/2015	8,954.00	2.42	177.41	8,952.24	-68.53	-67.72	107.46	0.23	MWD	EXTREME
10/8/2015	9,144.00	2.42	193.40	9,142.07	-76.43	-75.63	106.71	0.35	MWD	EXTREME
10/8/2015	9,212.00	1.62	218.03	9,210.03	-78.58	-77.79	105.79	1.71	MWD	WEATHERFORD
10/8/2015	9,244.00	2.94	302.46	9,242.01	-78.49	-77.70	104.82	10.05	MWD	WEATHERFORD
10/8/2015	9,276.00	7.01	322.63	9,273.88	-76.48	-75.71	102.94	13.65	MWD	WEATHERFORD
10/8/2015	9,308.00	11.59	327.77	9,305.46	-72.18	-71.44	100.04	14.53	MWD	WEATHERFORD
10/8/2015	9,340.00	15.87	331.65	9,336.54	-65.58	-64.86	96.24	13.67	MWD	WEATHERFORD
10/8/2015	9,372.00	20.14	335.25	9,366.96	-56.69	-56.01	91.86	13.78	MWD	WEATHERFORD
10/8/2015	9,419.00	27.44	338.11	9,409.94	-39.22	-38.58	84.42	15.72	MWD	WEATHERFORD
10/8/2015	9,467.00	34.21	339.20	9,451.14	-16.25	-15.68	75.50	14.15	MWD	WEATHERFORD
10/8/2015	9,514.00	39.53	338.96	9,488.72	10.16	10.65	65.43	11.32	MWD	WEATHERFORD
10/8/2015	9,563.00	43.08	339.67	9,525.53	40.50	40.90	54.01	7.31	MWD	WEATHERFORD
10/8/2015	9,610.00	47.02	339.33	9,558.72	71.73	72.05	42.36	8.40	MWD	WEATHERFORD
10/8/2015	9,658.00	51.42	338.63	9,590.07	105.75	105.97	29.32	9.23	MWD	WEATHERFORD
10/8/2015	9,705.00	56.22	337.63	9,617.81	141.04	141.16	15.18	10.36	MWD	WEATHERFORD

MAR 30 2016



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Survey Data													
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10/8/2015	9,754.00	61.47	336.76	9,643.15	179.80	179.80	-1.07	10.82	MWD	WEATHERFORD			
10/8/2015	9,801.00	67.09	337.22	9,663.54	218.89	218.76	-17.61	11.99	MWD	WEATHERFORD			
10/8/2015	9,849.00	72.59	338.40	9,680.07	260.72	260.47	-34.62	11.69	MWD	WEATHERFORD			
10/8/2015	9,896.00	75.85	341.89	9,692.86	303.36	303.00	-49.96	9.96	MWD	WEATHERFORD			
10/8/2015	9,944.00	77.96	345.17	9,703.73	348.29	347.82	-63.21	7.98	MWD	WEATHERFORD			
10/8/2015	9,991.00	80.37	349.05	9,712.57	393.35	392.81	-73.50	9.59	MWD	WEATHERFORD			
10/8/2015	10,030.00	82.00	351.61	9,718.55	431.39	430.80	-79.97	7.72	MWD	WEATHERFORD			
10/8/2015	10,062.00	83.63	353.68	9,722.55	462.90	462.28	-84.03	8.19	MWD	WEATHERFORD			
10/8/2015	10,094.00	84.82	355.34	9,725.77	494.61	493.97	-87.08	6.36	MWD	WEATHERFORD			
10/8/2015	10,125.00	85.03	356.59	9,728.51	525.43	524.78	-89.25	4.07	MWD	WEATHERFORD			
10/8/2015	10,157.00	85.45	357.89	9,731.17	557.29	556.63	-90.78	4.26	MWD	WEATHERFORD			
10/12/2...	10,189.00	86.22	359.50	9,733.49	589.20	588.53	-91.51	5.57	MWD	WEATHERFORD			
10/12/2...	10,285.00	89.02	0.73	9,737.48	685.11	684.44	-91.32	3.19	MWD	WEATHERFORD			
10/12/2...	10,379.00	88.74	0.40	9,739.32	779.07	778.42	-90.39	0.46	MWD	WEATHERFORD			
10/12/2...	10,475.00	88.46	359.96	9,741.66	875.04	874.39	-90.09	0.54	MWD	WEATHERFORD			
10/12/2...	10,570.00	87.55	359.73	9,744.97	969.98	969.33	-90.35	0.99	MWD	WEATHERFORD			
10/12/2...	10,666.00	87.55	0.19	9,749.07	1,065.89	1,065.24	-90.41	0.48	MWD	WEATHERFORD			
10/12/2...	10,761.00	90.70	0.68	9,750.53	1,160.85	1,160.21	-89.69	3.36	MWD	WEATHERFORD			
10/12/2...	10,857.00	91.54	1.05	9,748.65	1,256.81	1,256.18	-88.24	0.96	MWD	WEATHERFORD			
10/12/2...	10,952.00	91.61	0.84	9,746.04	1,351.75	1,351.13	-86.68	0.23	MWD	WEATHERFORD			
10/12/2...	11,048.00	91.19	0.98	9,743.69	1,447.69	1,447.09	-85.15	0.46	MWD	WEATHERFORD			
10/12/2...	11,143.00	91.96	0.83	9,741.08	1,542.63	1,542.05	-83.65	0.83	MWD	WEATHERFORD			
10/12/2...	11,239.00	90.84	3.04	9,738.74	1,638.51	1,637.95	-80.41	2.58	MWD	WEATHERFORD			
10/12/2...	11,335.00	90.21	2.96	9,737.86	1,734.34	1,733.82	-75.39	0.66	MWD	WEATHERFORD			
10/12/2...	11,430.00	89.72	2.59	9,737.91	1,829.19	1,828.71	-70.79	0.65	MWD	WEATHERFORD			
10/12/2...	11,526.00	89.02	2.05	9,738.97	1,925.07	1,924.62	-66.90	0.92	MWD	WEATHERFORD			
10/12/2...	11,621.00	89.16	1.73	9,740.48	2,019.98	2,019.56	-63.77	0.37	MWD	WEATHERFORD			
10/12/2...	11,717.00	87.97	359.94	9,742.88	2,115.92	2,115.51	-62.37	2.24	MWD	WEATHERFORD			
10/12/2...	11,812.00	88.46	359.32	9,745.84	2,210.87	2,210.46	-62.98	0.83	MWD	WEATHERFORD			
10/12/2...	11,908.00	88.39	358.70	9,748.48	2,306.83	2,306.41	-64.64	0.65	MWD	WEATHERFORD			
10/12/2...	12,003.00	87.27	357.99	9,752.08	2,401.74	2,401.30	-67.38	1.40	MWD	WEATHERFORD			
10/12/2...	12,099.00	87.20	357.90	9,756.71	2,497.59	2,497.13	-70.82	0.12	MWD	WEATHERFORD			
10/12/2...	12,194.00	89.93	359.02	9,759.09	2,592.53	2,592.05	-73.37	3.11	MWD	WEATHERFORD			
10/12/2...	12,290.00	91.05	359.31	9,758.27	2,688.52	2,688.04	-74.77	1.21	MWD	WEATHERFORD			
10/12/2...	12,385.00	92.10	359.87	9,755.66	2,783.49	2,783.00	-75.45	1.25	MWD	WEATHERFORD			
10/12/2...	12,481.00	92.24	0.59	9,752.02	2,879.41	2,878.93	-75.07	0.76	MWD	WEATHERFORD			
10/12/2...	12,576.00	91.33	359.67	9,749.06	2,974.36	2,973.88	-74.85	1.36	MWD	WEATHERFORD			
10/12/2...	12,672.00	90.91	359.83	9,747.18	3,070.34	3,069.86	-75.27	0.47	MWD	WEATHERFORD			
10/12/2...	12,767.00	90.42	359.66	9,746.08	3,165.33	3,164.85	-75.69	0.55	MWD	WEATHERFORD			
10/12/2...	12,863.00	90.91	0.30	9,744.97	3,261.32	3,260.84	-75.73	0.84	MWD	WEATHERFORD			
10/12/2...	12,958.00	89.58	0.49	9,744.56	3,356.31	3,355.84	-75.07	1.41	MWD	WEATHERFORD			
10/12/2...	13,054.00	88.60	359.73	9,746.09	3,452.29	3,451.83	-74.89	1.29	MWD	WEATHERFORD			
10/12/2...	13,150.00	87.55	359.34	9,749.31	3,548.23	3,547.77	-75.67	1.17	MWD	WEATHERFORD			
10/12/2...	13,245.00	87.90	359.43	9,753.08	3,643.16	3,642.69	-76.68	0.38	MWD	WEATHERFORD			
10/12/2...	13,341.00	88.67	358.49	9,755.96	3,739.11	3,738.63	-78.43	1.27	MWD	WEATHERFORD			
10/12/2...	13,436.00	89.23	357.74	9,757.70	3,834.06	3,833.56	-81.55	0.99	MWD	WEATHERFORD			
10/12/2...	13,532.00	91.19	358.06	9,757.34	3,930.01	3,929.49	-85.07	2.07	MWD	WEATHERFORD			
10/12/2...	13,627.00	91.40	357.90	9,755.20	4,024.95	4,024.40	-88.42	0.28	MWD	WEATHERFORD			
10/12/2...	13,723.00	90.98	357.75	9,753.20	4,120.89	4,120.31	-92.06	0.46	MWD	WEATHERFORD			
10/12/2...	13,819.00	92.10	358.73	9,750.62	4,216.83	4,216.23	-95.01	1.55	MWD	WEATHERFORD			
10/12/2...	13,914.00	91.75	358.76	9,747.43	4,311.76	4,311.15	-97.09	0.37	MWD	WEATHERFORD			
10/12/2...	14,009.00	90.35	358.46	9,745.69	4,406.73	4,406.11	-99.39	1.51	MWD	WEATHERFORD			
10/12/2...	14,105.00	89.86	358.13	9,745.52	4,502.71	4,502.06	-102.25	0.62	MWD	WEATHERFORD			
10/12/2...	14,200.00	89.93	358.41	9,745.69	4,597.68	4,597.02	-105.11	0.30	MWD	WEATHERFORD			
10/12/2...	14,296.00	89.09	357.49	9,746.51	4,693.64	4,692.95	-108.55	1.30	MWD	WEATHERFORD			
10/12/2...	14,392.00	88.95	357.55	9,748.15	4,789.56	4,788.85	-112.70	0.16	MWD	WEATHERFORD			
10/12/2...	14,487.00	89.02	357.89	9,749.84	4,884.50	4,883.76	-116.48	0.37	MWD	WEATHERFORD			
10/12/2...	14,583.00	89.30	357.63	9,751.24	4,980.44	4,979.68	-120.23	0.40	MWD	WEATHERFORD			
10/12/2...	14,678.00	90.07	357.89	9,751.77	5,075.39	5,074.60	-123.95	0.86	MWD	WEATHERFORD			
10/12/2...	14,774.00	91.05	357.94	9,750.83	5,171.34	5,170.53	-127.44	1.02	MWD	WEATHERFORD			
10/12/2...	14,870.00	91.40	358.27	9,748.77	5,267.29	5,266.46	-130.61	0.50	MWD	WEATHERFORD			
10/12/2...	14,965.00	91.68	357.73	9,746.22	5,362.22	5,361.37	-133.93	0.64	MWD	WEATHERFORD			
10/12/2...	15,061.00	92.80	357.59	9,742.47	5,458.09	5,457.21	-137.84	1.18	MWD	WEATHERFORD			
10/12/2...	15,156.00	93.22	357.97	9,737.48	5,552.91	5,552.01	-141.52	0.60	MWD	WEATHERFORD			
10/12/2...	15,252.00	91.75	358.01	9,733.32	5,648.78	5,647.86	-144.88	1.53	MWD	WEATHERFORD			
10/12/2...	15,347.00	90.84	357.68	9,731.17	5,743.72	5,742.76	-148.45	1.02	MWD	WEATHERFORD			
10/12/2...	15,443.00	90.70	357.25	9,729.88	5,839.64	5,838.66	-152.70	0.47	MWD	WEATHERFORD			
10/12/2...	15,538.00	89.79	356.36	9,729.48	5,934.53	5,933.51	-157.99	1.34	MWD	WEATHERFORD			
10/12/2...	15,634.00	89.65	357.11	9,729.94	6,030.41	6,029.35	-163.46	0.79	MWD	WEATHERFORD			
10/12/2...	15,780.00	90.84	357.34	9,729.32	6,176.28	6,175.18	-170.53	0.83	MWD	WEATHERFORD			
10/12/2...	15,875.00	90.91	356.82	9,727.87	6,271.18	6,270.04	-175.37	0.55	MWD	WEATHERFORD			
10/12/2...	15,971.00	90.63	357.55	9,726.58	6,367.09	6,365.92	-180.08	0.81	MWD	WEATHERFORD			
10/12/2...	16,067.00	90.63	358.44	9,725.52	6,463.05	6,461.85	-183.44	0.93	MWD	WEATHERFORD			
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Directional Survey

Well Name: SEAWOLF 12-1 FEDERAL 1H

Sub-Division DELAWARE BASIN EAST	Region BASIN EAST	Field Name RATTLESNAKE (NM)	County LEA	State/Province NM		
Surface Legal Location SEC 13-26S-33E	API/UWI 3002542775	Latitude (") 32° 3' 0.52" N	Longitude (") 103° 31' 9.809" W	Orig KB Elevation (ft) 3,383.00	Ground Elev MSL (ft) 3,359.50	KB - GL (ft) 23.50

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS ("/100ft)	Survey Tool	Survey Company
10/12/2...	16,162.00	90.35	358.34	9,724.71	6,558.02	6,556.81	-186.11	0.31	MWD	WEATHERFORD
10/12/2...	16,257.00	90.56	358.88	9,723.96	6,653.01	6,651.78	-188.41	0.61	MWD	WEATHERFORD
10/12/2...	16,353.00	91.05	359.03	9,722.61	6,748.99	6,747.75	-190.16	0.53	MWD	WEATHERFORD
10/12/2...	16,448.00	91.54	358.80	9,720.46	6,843.96	6,842.71	-191.96	0.57	MWD	WEATHERFORD
10/12/2...	16,544.00	91.61	358.66	9,717.82	6,939.91	6,938.65	-194.09	0.16	MWD	WEATHERFORD
10/12/2...	16,639.00	92.17	359.45	9,714.69	7,034.86	7,033.59	-195.66	1.02	MWD	WEATHERFORD
10/12/2...	16,735.00	93.22	0.20	9,710.18	7,130.75	7,129.48	-195.95	1.34	MWD	WEATHERFORD
10/12/2...	16,830.00	93.78	1.50	9,704.38	7,225.54	7,224.29	-194.54	1.49	MWD	WEATHERFORD
10/12/2...	16,926.00	92.03	1.54	9,699.51	7,321.36	7,320.13	-192.00	1.82	MWD	WEATHERFORD
10/12/2...	17,021.00	92.59	1.14	9,695.68	7,416.24	7,415.02	-189.78	0.72	MWD	WEATHERFORD
10/12/2...	17,117.00	92.87	2.63	9,691.11	7,512.05	7,510.86	-186.63	1.58	MWD	WEATHERFORD
10/12/2...	17,212.00	91.47	1.59	9,687.51	7,606.88	7,605.72	-183.13	1.84	MWD	WEATHERFORD
10/12/2...	17,308.00	90.70	1.84	9,685.69	7,702.80	7,701.66	-180.26	0.84	MWD	WEATHERFORD
10/12/2...	17,404.00	90.07	2.26	9,685.05	7,798.70	7,797.60	-176.82	0.79	MWD	WEATHERFORD
10/12/2...	17,499.00	89.51	1.42	9,685.40	7,893.63	7,892.55	-173.77	1.06	MWD	WEATHERFORD
10/12/2...	17,595.00	87.69	1.34	9,687.74	7,989.55	7,988.49	-171.46	1.90	MWD	WEATHERFORD
10/12/2...	17,691.00	88.04	1.11	9,691.32	8,085.44	8,084.40	-169.41	0.44	MWD	WEATHERFORD
10/12/2...	17,786.00	88.18	0.94	9,694.45	8,180.36	8,179.33	-167.71	0.23	MWD	WEATHERFORD
10/12/2...	17,882.00	88.74	0.28	9,697.03	8,276.31	8,275.29	-166.69	0.90	MWD	WEATHERFORD
10/12/2...	17,977.00	88.81	0.00	9,699.06	8,371.28	8,370.27	-166.46	0.30	MWD	WEATHERFORD
10/12/2...	18,073.00	90.56	0.18	9,699.59	8,467.27	8,466.26	-166.31	1.83	MWD	WEATHERFORD
10/12/2...	18,168.00	90.84	0.30	9,698.43	8,562.26	8,561.25	-165.91	0.32	MWD	WEATHERFORD
10/12/2...	18,264.00	91.19	359.72	9,696.73	8,658.24	8,657.24	-165.89	0.71	MWD	WEATHERFORD
10/12/2...	18,359.00	91.61	359.49	9,694.41	8,753.21	8,752.21	-166.55	0.50	MWD	WEATHERFORD
10/12/2...	18,455.00	91.89	359.30	9,691.48	8,849.17	8,848.16	-167.56	0.35	MWD	WEATHERFORD
10/12/2...	18,550.00	92.24	359.69	9,688.05	8,944.10	8,943.09	-168.40	0.55	MWD	WEATHERFORD
10/12/2...	18,646.00	92.03	359.55	9,684.48	9,040.04	9,039.02	-169.04	0.26	MWD	WEATHERFORD
10/12/2...	18,741.00	91.47	359.69	9,681.58	9,134.99	9,133.98	-169.66	0.61	MWD	WEATHERFORD
10/12/2...	18,837.00	92.31	359.92	9,678.41	9,230.94	9,229.92	-169.99	0.91	MWD	WEATHERFORD
10/12/2...	18,933.00	89.72	359.90	9,676.71	9,326.91	9,325.90	-170.14	2.70	MWD	WEATHERFORD
10/12/2...	19,028.00	90.63	0.06	9,676.42	9,421.91	9,420.90	-170.18	0.97	MWD	WEATHERFORD
10/12/2...	19,124.00	91.33	359.81	9,674.78	9,517.89	9,516.88	-170.28	0.77	MWD	WEATHERFORD
10/12/2...	19,219.00	91.12	359.37	9,672.75	9,612.87	9,611.86	-170.96	0.51	MWD	WEATHERFORD
10/12/2...	19,315.00	90.91	359.77	9,671.05	9,708.85	9,707.84	-171.68	0.47	MWD	WEATHERFORD
10/12/2...	19,410.00	91.89	359.53	9,668.72	9,803.83	9,802.81	-172.26	1.06	MWD	WEATHERFORD
10/12/2...	19,506.00	91.47	359.61	9,665.91	9,899.78	9,898.76	-172.98	0.45	MWD	WEATHERFORD
10/12/2...	19,601.00	90.21	359.28	9,664.52	9,994.77	9,993.75	-173.90	1.37	MWD	WEATHERFORD
10/12/2...	19,697.00	89.51	359.15	9,664.75	10,090.77	10,089.74	-175.22	0.74	MWD	WEATHERFORD
10/12/2...	19,793.00	89.44	359.36	9,665.63	10,186.76	10,185.73	-176.47	0.23	MWD	WEATHERFORD
10/12/2...	19,888.00	89.37	359.50	9,666.62	10,281.76	10,280.72	-177.41	0.16	MWD	WEATHERFORD
10/12/2...	20,039.00	89.51	359.27	9,668.09	10,432.75	10,431.70	-179.03	0.18	BIT	WEATHERFORD
10/12/2...	20,039.00	89.51	359.27	9,668.09	10,432.75	10,431.70	-179.03	0.18	BIT	WEATHERFORD