



AUG 13 2015

30-025-41976

Well Name: HOGNOSE VIPER 23 FED 2H

Sub-Division DELAWARE BASIN		Region DELAWARE BASIN EAST		Field Name JOHNSON RANCH		County DELA		State/Province NM					
Surface Legal Location Sec 23 23S 33E		API/UWI 3002541976		Latitude (") 32° 17' 0.05" N		Longitude (") 103° 32' 53.803" W		Orig KB Elevation (ft) 3,707.10		Ground Elev MSL (ft) 3,682.10		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH		Parent Wellbore OH				SAP Well ID 38008				Vertical Section Direction (") 3.00			
Kick Offs & Key Depths													
Date 3/23/2015				Type Kick Off				Top Depth (ftKB) 10,762.0					
Actual Deviation Survey EXTREME, Proposed? No				Definitive? Yes		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 3/12/2015		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		EWTie 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			
3/12/2015	234.00	2.20	95.42	233.94	-0.19	-0.42	4.47	0.94	MWD	EXTREME			
3/12/2015	289.00	2.50	103.33	288.90	-0.45	-0.80	6.69	0.80	MWD	EXTREME			
3/12/2015	340.00	2.02	98.23	339.86	-0.73	-1.19	8.66	1.02	MWD	EXTREME			
3/12/2015	379.00	1.80	101.22	378.83	-0.88	-1.40	9.94	0.62	MWD	EXTREME			
3/12/2015	436.00	1.89	102.80	435.81	-1.17	-1.79	11.74	0.18	MWD	EXTREME			
3/12/2015	492.00	2.20	104.20	491.77	-1.53	-2.25	13.68	0.56	MWD	EXTREME			
3/12/2015	552.00	2.20	100.60	551.73	-1.91	-2.75	15.93	0.23	MWD	EXTREME			
3/12/2015	611.00	1.41	105.00	610.70	-2.21	-3.14	17.74	1.36	MWD	EXTREME			
3/12/2015	732.00	1.49	104.69	731.66	-2.84	-3.93	20.70	0.07	MWD	EXTREME			
3/12/2015	795.00	1.49	108.03	794.64	-3.22	-4.39	22.27	0.14	MWD	EXTREME			
3/12/2015	921.00	0.88	111.10	920.61	-3.94	-5.25	24.73	0.49	MWD	EXTREME			
3/12/2015	984.00	1.10	120.73	983.60	-4.38	-5.73	25.71	0.44	MWD	EXTREME			
3/12/2015	1,047.00	1.01	119.91	1,046.59	-4.91	-6.31	26.71	0.14	MWD	EXTREME			
3/12/2015	1,109.00	1.06	104.91	1,108.58	-5.27	-6.73	27.73	0.44	MWD	EXTREME			
3/12/2015	1,172.00	0.88	114.49	1,171.57	-5.57	-7.08	28.74	0.38	MWD	EXTREME			
3/12/2015	1,236.00	0.70	85.22	1,235.56	-5.70	-7.26	29.57	0.68	MWD	EXTREME			
3/12/2015	1,298.00	0.79	72.70	1,297.56	-5.50	-7.10	30.36	0.30	MWD	EXTREME			
3/12/2015	1,512.00	0.63	65.95	1,511.54	-4.45	-6.18	32.84	0.08	MWD	WEATHERFORD			
3/12/2015	1,606.00	0.60	43.56	1,605.54	-3.84	-5.61	33.65	0.26	MWD	WEATHERFORD			
3/12/2015	1,701.00	0.64	23.41	1,700.53	-2.97	-4.76	34.21	0.23	MWD	WEATHERFORD			
3/12/2015	1,795.00	0.49	21.81	1,794.53	-2.10	-3.91	34.57	0.16	MWD	WEATHERFORD			
3/12/2015	1,890.00	0.41	27.08	1,889.52	-1.40	-3.23	34.87	0.09	MWD	WEATHERFORD			
3/12/2015	1,984.00	0.43	33.97	1,983.52	-0.79	-2.64	35.22	0.06	MWD	WEATHERFORD			
3/12/2015	2,078.00	0.35	4.63	2,077.52	-0.20	-2.06	35.44	0.23	MWD	WEATHERFORD			
3/12/2015	2,173.00	0.30	32.23	2,172.52	0.31	-1.56	35.60	0.17	MWD	WEATHERFORD			
3/12/2015	2,267.00	0.20	10.74	2,266.52	0.68	-1.19	35.76	0.14	MWD	WEATHERFORD			
3/12/2015	2,361.00	0.29	345.17	2,360.52	1.07	-0.80	35.73	0.15	MWD	WEATHERFORD			
3/12/2015	2,456.00	0.31	6.48	2,455.51	1.56	-0.31	35.70	0.12	MWD	WEATHERFORD			
3/12/2015	2,550.00	0.25	328.89	2,549.51	1.98	0.12	35.62	0.20	MWD	WEATHERFORD			
3/12/2015	2,644.00	0.29	300.42	2,643.51	2.26	0.41	35.31	0.15	MWD	WEATHERFORD			
3/12/2015	2,739.00	0.28	315.82	2,738.51	2.53	0.70	34.94	0.08	MWD	WEATHERFORD			
3/12/2015	2,833.00	0.22	320.42	2,832.51	2.82	1.00	34.66	0.07	MWD	WEATHERFORD			
3/12/2015	2,928.00	0.07	231.61	2,927.51	2.91	1.11	34.50	0.24	MWD	WEATHERFORD			
3/12/2015	3,022.00	0.22	41.65	3,021.51	3.02	1.21	34.58	0.31	MWD	WEATHERFORD			
3/12/2015	3,116.00	0.28	53.64	3,115.51	3.30	1.48	34.88	0.08	MWD	WEATHERFORD			
3/12/2015	3,211.00	0.22	35.37	3,210.51	3.60	1.77	35.17	0.10	MWD	WEATHERFORD			
3/12/2015	3,305.00	0.16	61.69	3,304.51	3.83	1.98	35.39	0.11	MWD	WEATHERFORD			
3/12/2015	3,400.00	0.04	7.46	3,399.51	3.93	2.07	35.52	0.15	MWD	WEATHERFORD			
3/12/2015	3,494.00	0.21	339.99	3,493.51	4.12	2.27	35.46	0.18	MWD	WEATHERFORD			
3/12/2015	3,589.00	0.35	5.32	3,588.51	4.57	2.72	35.43	0.19	MWD	WEATHERFORD			
3/12/2015	3,683.00	0.20	1.13	3,682.50	5.02	3.17	35.46	0.16	MWD	WEATHERFORD			
3/12/2015	3,778.00	0.25	25.89	3,777.50	5.38	3.52	35.55	0.11	MWD	WEATHERFORD			
3/12/2015	3,872.00	0.20	10.63	3,871.50	5.73	3.87	35.67	0.08	MWD	WEATHERFORD			
3/12/2015	3,966.00	0.28	20.58	3,965.50	6.11	4.25	35.78	0.10	MWD	WEATHERFORD			
3/12/2015	4,060.00	0.31	106.77	4,059.50	6.27	4.39	36.11	0.43	MWD	WEATHERFORD			
3/12/2015	4,154.00	0.66	109.06	4,153.50	6.06	4.14	36.86	0.37	MWD	WEATHERFORD			
3/12/2015	4,248.00	0.74	103.49	4,247.49	5.80	3.82	37.96	0.11	MWD	WEATHERFORD			
3/12/2015	4,342.00	0.98	104.94	4,341.48	5.52	3.47	39.33	0.26	MWD	WEATHERFORD			
3/12/2015	4,437.00	1.61	114.15	4,436.46	4.87	2.71	41.33	0.70	MWD	WEATHERFORD			
3/12/2015	4,531.00	2.75	115.44	4,530.39	3.54	1.21	44.58	1.21	MWD	WEATHERFORD			
3/12/2015	4,626.00	3.54	116.33	4,625.24	1.51	-1.07	49.26	0.83	MWD	WEATHERFORD			
3/12/2015	4,720.00	3.79	111.16	4,719.05	-0.61	-3.48	54.76	0.44	MWD	WEATHERFORD			
3/12/2015	4,815.00	4.31	115.15	4,813.81	-2.94	-6.13	60.92	0.62	MWD	WEATHERFORD			
3/12/2015	4,910.00	4.64	115.84	4,908.52	-5.77	-9.33	67.61	0.35	MWD	WEATHERFORD			
3/12/2015	5,005.00	4.76	116.23	5,003.20	-8.82	-12.74	74.60	0.13	MWD	WEATHERFORD			
3/12/2015	5,099.00	4.07	114.68	5,096.92	-11.59	-15.86	81.13	0.74	MWD	WEATHERFORD			
3/12/2015	5,144.00	3.73	112.29	5,141.82	-12.66	-17.08	83.94	0.84	MWD	WEATHERFORD			
3/12/2015	5,290.00	2.83	110.14	5,287.58	-15.30	-20.12	91.72	0.62	MWD	WEATHERFORD			
3/12/2015	5,385.00	2.90	102.47	5,382.46	-16.38	-21.45	96.27	0.41	MWD	WEATHERFORD			
3/12/2015	5,479.00	3.81	104.07	5,476.30	-17.37	-22.72	101.62	0.97	MWD	WEATHERFORD			
3/12/2015	5,574.00	4.26	106.56	5,571.06	-18.81	-24.50	108.06	0.51	MWD	WEATHERFORD			
3/12/2015	5,668.00	5.23	108.49	5,664.74	-20.77	-26.85	115.47	1.05	MWD	WEATHERFORD			
3/12/2015	5,763.00	5.32	113.27	5,759.34	-23.45	-29.96	123.62	0.47	MWD	WEATHERFORD			
3/12/2015	5,858.00	6.30	111.98	5,853.85	-26.67	-33.65	132.50	1.04	MWD	WEATHERFORD			
3/12/2015	5,952.00	7.52	108.75	5,947.16	-30.02	-37.56	143.11	1.36	MWD	WEATHERFORD			
3/12/2015	6,046.00	8.69	105.74	6,040.22	-33.26	-41.46	155.77	1.32	MWD	WEATHERFORD			



Directional Survey

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Surface Legal Location Sec 23 23S 33E	API/UWI 3002541976	Latitude (°) 32° 17' 0.05" N	Longitude (°) 103° 32' 53.803" W	Orig KB Elevation (ft) 3,707.10	Ground Elev MSL (ft) 3,682.10	KB - GL (ft) 25.00

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
3/12/2015	6,141.00	8.29	104.45	6,134.18	-36.20	-45.12	169.31	0.47	MWD	WEATHERFORD
3/12/2015	6,235.00	7.55	104.18	6,227.29	-38.74	-48.32	181.86	0.79	MWD	WEATHERFORD
3/12/2015	6,330.00	7.74	102.21	6,321.44	-40.97	-51.21	194.16	0.34	MWD	WEATHERFORD
3/12/2015	6,425.00	8.47	100.48	6,415.49	-42.91	-53.83	207.29	0.81	MWD	WEATHERFORD
3/12/2015	6,519.00	8.49	98.16	6,508.47	-44.43	-56.08	220.97	0.36	MWD	WEATHERFORD
3/12/2015	6,613.00	8.57	98.08	6,601.43	-45.68	-58.05	234.77	0.09	MWD	WEATHERFORD
3/12/2015	6,708.00	9.23	102.55	6,695.28	-47.57	-60.70	249.22	1.01	MWD	WEATHERFORD
3/12/2015	6,803.00	9.34	102.07	6,789.04	-50.05	-63.96	264.19	0.14	MWD	WEATHERFORD
3/12/2015	6,897.00	9.47	102.89	6,881.77	-52.58	-67.28	279.19	0.20	MWD	WEATHERFORD
3/12/2015	6,992.00	8.72	106.13	6,975.58	-55.56	-71.03	293.73	0.96	MWD	WEATHERFORD
3/12/2015	7,086.00	8.94	106.94	7,068.47	-58.94	-75.14	307.56	0.27	MWD	WEATHERFORD
3/12/2015	7,181.00	8.69	107.11	7,162.34	-62.46	-79.40	321.48	0.26	MWD	WEATHERFORD
3/12/2015	7,275.00	8.79	107.93	7,255.25	-66.05	-83.70	335.10	0.17	MWD	WEATHERFORD
3/12/2015	7,370.00	8.82	108.28	7,349.13	-69.83	-88.22	348.92	0.06	MWD	WEATHERFORD
3/12/2015	7,465.00	8.75	108.52	7,443.02	-73.69	-92.80	362.69	0.08	MWD	WEATHERFORD
3/12/2015	7,558.00	9.07	108.92	7,534.90	-77.59	-97.42	376.33	0.35	MWD	WEATHERFORD
3/12/2015	7,654.00	8.78	110.28	7,629.73	-81.84	-102.41	390.36	0.37	MWD	WEATHERFORD
3/12/2015	7,748.00	8.82	111.25	7,722.63	-86.23	-107.51	403.81	0.16	MWD	WEATHERFORD
3/12/2015	7,843.00	8.36	111.40	7,816.56	-90.69	-112.67	417.03	0.48	MWD	WEATHERFORD
3/12/2015	7,937.00	8.07	113.42	7,909.60	-95.15	-117.79	429.44	0.44	MWD	WEATHERFORD
3/12/2015	8,031.00	8.01	113.52	8,002.67	-99.75	-123.02	441.50	0.07	MWD	WEATHERFORD
3/12/2015	8,126.00	7.67	115.44	8,096.78	-104.49	-128.39	453.30	0.45	MWD	WEATHERFORD
3/12/2015	8,220.00	7.61	117.08	8,189.95	-109.42	-133.92	464.50	0.24	MWD	WEATHERFORD
3/12/2015	8,315.00	7.03	118.26	8,284.18	-114.47	-139.53	475.22	0.63	MWD	WEATHERFORD
3/12/2015	8,409.00	6.55	120.49	8,377.52	-119.40	-144.98	484.91	0.58	MWD	WEATHERFORD
3/12/2015	8,504.00	6.59	117.60	8,471.89	-124.17	-150.25	494.41	0.35	MWD	WEATHERFORD
3/12/2015	8,598.00	6.48	113.76	8,565.28	-128.30	-154.89	504.05	0.48	MWD	WEATHERFORD
3/12/2015	8,693.00	6.16	112.94	8,659.70	-131.93	-159.03	513.65	0.35	MWD	WEATHERFORD
3/12/2015	8,787.00	5.72	116.31	8,753.20	-135.51	-163.08	522.49	0.60	MWD	WEATHERFORD
3/12/2015	8,882.00	4.94	116.99	8,847.79	-139.04	-167.03	530.38	0.82	MWD	WEATHERFORD
3/12/2015	8,977.00	4.67	117.11	8,942.45	-142.29	-170.65	537.47	0.28	MWD	WEATHERFORD
3/12/2015	9,071.00	4.07	120.27	9,036.18	-145.38	-174.07	543.75	0.69	MWD	WEATHERFORD
3/12/2015	9,166.00	3.32	117.30	9,130.98	-148.05	-177.04	549.11	0.81	MWD	WEATHERFORD
3/12/2015	9,260.00	2.77	114.23	9,224.85	-150.00	-179.22	553.60	0.61	MWD	WEATHERFORD
3/12/2015	9,355.00	2.43	111.33	9,319.75	-151.46	-180.89	557.57	0.38	MWD	WEATHERFORD
3/12/2015	9,449.00	2.50	105.88	9,413.66	-152.55	-182.18	561.40	0.26	MWD	WEATHERFORD
3/12/2015	9,544.00	2.03	118.09	9,508.59	-153.72	-183.54	564.87	0.71	MWD	WEATHERFORD
3/12/2015	9,639.00	2.13	139.91	9,603.53	-155.72	-185.68	567.50	0.84	MWD	WEATHERFORD
3/12/2015	9,733.00	1.75	148.01	9,697.48	-158.18	-188.23	569.38	0.50	MWD	WEATHERFORD
3/12/2015	9,828.00	1.20	168.46	9,792.44	-160.33	-190.44	570.35	0.79	MWD	WEATHERFORD
3/12/2015	9,922.00	0.87	187.54	9,886.43	-161.99	-192.11	570.45	0.50	MWD	WEATHERFORD
3/12/2015	10,017.00	0.84	204.44	9,981.42	-163.36	-193.46	570.07	0.27	MWD	WEATHERFORD
3/12/2015	10,111.00	0.87	224.05	10,075.41	-164.54	-194.60	569.29	0.31	MWD	WEATHERFORD
3/12/2015	10,206.00	0.80	217.62	10,170.40	-165.63	-195.64	568.38	0.12	MWD	WEATHERFORD
3/12/2015	10,300.00	0.85	194.19	10,264.39	-166.85	-196.84	567.81	0.36	MWD	WEATHERFORD
3/12/2015	10,395.00	1.36	202.52	10,359.37	-168.61	-198.56	567.20	0.56	MWD	WEATHERFORD
3/12/2015	10,489.00	1.14	198.76	10,453.35	-170.56	-200.48	566.48	0.25	MWD	WEATHERFORD
3/12/2015	10,584.00	1.12	197.57	10,548.33	-172.36	-202.26	565.89	0.03	MWD	WEATHERFORD
3/12/2015	10,678.00	1.09	204.80	10,642.31	-174.08	-203.95	565.24	0.15	MWD	WEATHERFORD
3/12/2015	10,696.00	1.22	211.09	10,660.31	-174.41	-204.27	565.07	1.01	MWD	WEATHERFORD
3/12/2015	10,711.00	1.16	212.35	10,675.31	-174.68	-204.53	564.91	0.44	MWD	WEATHERFORD
3/12/2015	10,773.00	1.04	175.90	10,737.30	-175.79	-205.62	564.61	1.12	MWD	WEATHERFORD
3/12/2015	10,805.00	2.79	65.08	10,769.28	-175.71	-205.58	565.34	10.33	MWD	WEATHERFORD
3/12/2015	10,837.00	6.50	50.93	10,801.17	-174.13	-204.11	567.45	12.05	MWD	WEATHERFORD
3/12/2015	10,868.00	9.17	42.71	10,831.88	-171.06	-201.19	570.49	9.32	MWD	WEATHERFORD
3/12/2015	10,899.00	12.44	43.89	10,862.33	-166.63	-196.97	574.48	10.57	MWD	WEATHERFORD
3/12/2015	10,931.00	15.92	42.67	10,893.35	-160.65	-191.26	579.85	10.91	MWD	WEATHERFORD
3/12/2015	10,962.00	19.22	40.26	10,922.90	-153.31	-184.23	586.03	10.90	MWD	WEATHERFORD
3/12/2015	10,994.00	22.96	40.72	10,952.75	-144.18	-175.48	593.51	11.70	MWD	WEATHERFORD
3/12/2015	11,025.00	26.53	41.39	10,980.90	-133.97	-165.70	602.03	11.55	MWD	WEATHERFORD
3/12/2015	11,057.00	27.97	42.44	11,009.35	-122.57	-154.80	611.82	4.74	MWD	WEATHERFORD
3/12/2015	11,088.00	29.65	39.64	11,036.51	-110.80	-143.53	621.62	6.95	MWD	WEATHERFORD
3/12/2015	11,120.00	32.77	37.69	11,063.88	-97.32	-130.58	631.97	10.25	MWD	WEATHERFORD
3/12/2015	11,151.00	36.23	36.56	11,089.42	-82.79	-116.58	642.56	11.35	MWD	WEATHERFORD
3/12/2015	11,183.00	40.93	36.66	11,114.43	-66.17	-100.56	654.45	14.69	MWD	WEATHERFORD
3/12/2015	11,214.00	46.29	37.48	11,136.87	-48.47	-83.51	667.34	17.39	MWD	WEATHERFORD
3/12/2015	11,246.00	51.42	38.14	11,157.91	-28.70	-64.49	682.12	16.11	MWD	WEATHERFORD
3/12/2015	11,277.00	56.37	38.10	11,176.18	-8.22	-44.79	697.57	15.97	MWD	WEATHERFORD
3/12/2015	11,309.00	61.80	36.92	11,192.61	14.40	-23.01	714.28	17.26	MWD	WEATHERFORD
3/12/2015	11,340.00	67.16	35.65	11,205.96	37.78	-0.47	730.82	17.68	MWD	WEATHERFORD
3/12/2015	11,372.00	72.43	34.29	11,217.01	63.25	24.14	748.02	16.94	MWD	WEATHERFORD
3/12/2015	11,403.00	76.23	31.49	11,225.38	89.12	49.20	764.22	15.03	MWD	WEATHERFORD
3/12/2015	11,435.00	79.74	28.57	11,232.05	117.00	76.29	779.87	14.14	MWD	WEATHERFORD
3/12/2015	11,466.00	83.34	25.67	11,236.61	144.98	103.57	793.84	14.85	MWD	WEATHERFORD
3/12/2015	11,524.00	89.93	20.41	11,240.01	199.33	156.81	816.47	14.52	MWD	WEATHERFORD
3/12/2015	11,556.00	90.35	20.84	11,239.93	229.82	186.76	827.75	1.88	MWD	WEATHERFORD
3/12/2015	11,650.00	91.26	20.65	11,238.61	319.34	274.66	861.04	0.99	MWD	WEATHERFORD



Directional Survey

Well Name: HOGNOSE VIPER 23 FED 2H

Sub-Division	Region	Field Name	County	State/Province		
DELAWARE BASIN	DELAWARE BASIN EAST	JOHNSON RANCH	LEA	NM		
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)
Sec 23 23S 33E	3002541976	32° 17' 0.05" N	103° 32' 53.803" W	3,707.10	3,682.10	25.00

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
3/12/2015	11,745.00	91.54	18.91	11,236.29	410.27	364.02	893.18	1.85	MWD	WEATHERFORD
3/12/2015	11,839.00	90.91	18.23	11,234.28	500.80	453.10	923.11	0.99	MWD	WEATHERFORD
3/12/2015	11,934.00	90.49	16.28	11,233.12	592.86	543.82	951.28	2.10	MWD	WEATHERFORD
3/12/2015	12,028.00	90.35	14.52	11,232.43	684.66	634.44	976.24	1.88	MWD	WEATHERFORD
3/12/2015	12,123.00	90.42	13.71	11,231.79	777.87	726.57	999.41	0.86	MWD	WEATHERFORD
3/12/2015	12,217.00	89.72	12.15	11,231.68	870.46	818.18	1,020.44	1.82	MWD	WEATHERFORD
3/12/2015	12,217.00	89.72	12.15	11,231.68	870.46	818.18	1,020.44	1.82	MWD	WEATHERFORD
3/12/2015	12,312.00	89.16	10.31	11,232.61	964.48	911.35	1,038.94	2.02	MWD	WEATHERFORD
3/12/2015	12,407.00	89.51	8.82	11,233.71	1,058.84	1,005.02	1,054.72	1.61	MWD	WEATHERFORD
3/12/2015	12,501.00	89.72	7.29	11,234.34	1,152.47	1,098.09	1,067.90	1.64	MWD	WEATHERFORD
3/12/2015	12,596.00	90.14	5.14	11,234.46	1,247.32	1,192.52	1,078.18	2.31	MWD	WEATHERFORD
3/12/2015	12,690.00	90.70	4.01	11,233.77	1,341.28	1,286.22	1,085.68	1.34	MWD	WEATHERFORD
3/12/2015	12,785.00	90.77	2.36	11,232.55	1,436.27	1,381.06	1,090.95	1.74	MWD	WEATHERFORD
3/12/2015	12,879.00	91.19	0.23	11,230.94	1,530.21	1,475.02	1,093.08	2.31	MWD	WEATHERFORD
3/12/2015	12,974.00	90.63	359.60	11,229.43	1,625.05	1,570.01	1,092.94	0.89	MWD	WEATHERFORD
3/12/2015	13,068.00	90.63	358.65	11,228.40	1,718.83	1,663.99	1,091.50	1.01	MWD	WEATHERFORD
3/12/2015	13,163.00	89.65	357.54	11,228.17	1,813.48	1,758.93	1,088.34	1.56	MWD	WEATHERFORD
3/12/2015	13,257.00	89.65	357.87	11,228.74	1,907.08	1,852.86	1,084.58	0.35	MWD	WEATHERFORD
3/12/2015	13,352.00	89.79	357.59	11,229.21	2,001.68	1,947.78	1,080.82	0.33	MWD	WEATHERFORD
3/12/2015	13,446.00	89.58	357.28	11,229.72	2,095.23	2,041.68	1,076.61	0.40	MWD	WEATHERFORD
3/12/2015	13,540.00	89.79	357.12	11,230.24	2,188.75	2,135.57	1,072.02	0.28	MWD	WEATHERFORD
3/12/2015	13,635.00	89.79	356.60	11,230.59	2,283.20	2,230.43	1,066.82	0.55	MWD	WEATHERFORD
3/12/2015	13,729.00	89.79	356.56	11,230.93	2,376.61	2,324.26	1,061.21	0.04	MWD	WEATHERFORD
3/12/2015	13,824.00	89.44	355.87	11,231.57	2,470.95	2,419.05	1,054.94	0.81	MWD	WEATHERFORD
3/12/2015	13,919.00	89.65	355.47	11,232.33	2,565.17	2,513.77	1,047.76	0.48	MWD	WEATHERFORD
3/12/2015	14,013.00	89.30	355.92	11,233.19	2,658.40	2,607.51	1,040.71	0.61	MWD	WEATHERFORD
3/12/2015	14,108.00	89.93	355.98	11,233.82	2,752.68	2,702.27	1,034.00	0.67	MWD	WEATHERFORD
3/12/2015	14,202.00	89.65	357.09	11,234.17	2,846.08	2,796.09	1,028.32	1.22	MWD	WEATHERFORD
3/12/2015	14,297.00	90.49	357.22	11,234.05	2,940.58	2,890.97	1,023.60	0.89	MWD	WEATHERFORD
3/12/2015	14,392.00	89.79	358.53	11,233.82	3,035.20	2,985.91	1,020.08	1.56	MWD	WEATHERFORD
3/12/2015	14,486.00	89.51	359.64	11,234.40	3,128.98	3,079.89	1,018.58	1.22	MWD	WEATHERFORD
3/12/2015	14,580.00	89.02	359.78	11,235.60	3,222.81	3,173.88	1,018.10	0.54	MWD	WEATHERFORD
3/12/2015	14,675.00	89.44	359.99	11,236.88	3,317.67	3,268.87	1,017.91	0.49	MWD	WEATHERFORD
3/12/2015	14,770.00	89.51	0.09	11,237.75	3,412.53	3,363.87	1,017.98	0.13	MWD	WEATHERFORD
3/12/2015	14,865.00	89.58	359.82	11,238.50	3,507.40	3,458.86	1,017.90	0.29	MWD	WEATHERFORD
3/12/2015	14,959.00	89.72	0.17	11,239.08	3,601.27	3,552.86	1,017.90	0.40	MWD	WEATHERFORD
3/12/2015	15,053.00	89.51	0.28	11,239.71	3,695.15	3,646.86	1,018.27	0.25	MWD	WEATHERFORD
3/12/2015	15,148.00	89.44	0.07	11,240.58	3,790.03	3,741.85	1,018.56	0.23	MWD	WEATHERFORD
3/12/2015	15,242.00	89.23	359.98	11,241.67	3,883.90	3,835.85	1,018.60	0.24	MWD	WEATHERFORD
3/12/2015	15,337.00	89.02	359.75	11,243.12	3,978.75	3,930.84	1,018.37	0.33	MWD	WEATHERFORD
3/12/2015	15,433.00	90.63	0.02	11,243.41	4,074.60	4,026.83	1,018.18	1.70	MWD	WEATHERFORD
3/12/2015	15,526.00	91.19	0.58	11,241.94	4,167.49	4,119.82	1,018.67	0.85	MWD	WEATHERFORD
3/12/2015	15,620.00	91.26	0.55	11,239.93	4,261.38	4,213.79	1,019.59	0.08	MWD	WEATHERFORD
3/12/2015	15,715.00	91.19	0.41	11,237.90	4,356.27	4,308.77	1,020.39	0.16	MWD	WEATHERFORD
3/12/2015	15,809.00	90.77	0.62	11,236.29	4,450.16	4,402.75	1,021.23	0.50	MWD	WEATHERFORD
3/12/2015	15,904.00	90.35	0.24	11,235.36	4,545.06	4,497.74	1,021.95	0.60	MWD	WEATHERFORD
3/12/2015	15,998.00	90.07	0.04	11,235.02	4,638.95	4,591.74	1,022.18	0.37	MWD	WEATHERFORD
3/12/2015	16,093.00	89.93	359.93	11,235.02	4,733.81	4,686.74	1,022.15	0.19	MWD	WEATHERFORD
3/12/2015	16,163.00	89.93	359.93	11,235.10	4,803.71	4,756.74	1,022.07	0.00	BIT	WEATHERFORD