

Directional Survey

30-025-41516

Sub-Division DELAWARE BASIN	County LEA	Field Name JOHNSON RANCH	Region DELAWARE BASIN EAST	State/Province NM		
Surface Legal Location SEC19 T24S R33E	API/UWI 3002541516	Latitude (°) 32° 11' 46.859" N	Longitude (°) 103° 36' 30.299" W	Ground Elev. M... 3,548.40	Orig KB Elev (ft) 3,573.40	Tubing Head Elevation (ft)

Wellbores			
Wellbore Name OH	Parent Wellbore	SAP Well ID 35190	Vertical Section Direction (°) 0.07

Kick Offs & Key Depths		
Date	Type	Top Depth (ftKB)
	Kick Off	10,525.0

APR 22 2015

Actual Deviation Survey	Definitive?	Proposed?	Proposed Deviation Survey
EXTREME, Proposed? No	Yes	No	

Deviation Survey						RECEIVED
Date		Description				
6/13/2014		EXTREME				
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EW Tie In (ft)	
0.00	0.00	0.00	0.00	0.00	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
6/13/2014	136.00	0.09	146.88	136.00	-0.09	-0.09	0.06	0.07	MWD	EXTREME
6/13/2014	168.00	0.22	311.54	168.00	-0.07	-0.07	0.03	0.96	MWD	EXTREME
6/13/2014	227.00	0.62	261.97	227.00	-0.04	-0.04	-0.37	0.86	MWD	EXTREME
6/13/2014	287.00	0.70	256.66	286.99	-0.17	-0.17	-1.05	0.17	MWD	EXTREME
6/13/2014	347.00	0.62	243.65	346.99	-0.40	-0.40	-1.70	0.28	MWD	EXTREME
6/13/2014	406.00	0.88	266.94	405.99	-0.57	-0.56	-2.44	0.67	MWD	EXTREME
6/13/2014	466.00	0.62	284.74	465.98	-0.51	-0.51	-3.21	0.58	MWD	EXTREME
6/13/2014	524.00	0.70	250.55	523.98	-0.55	-0.54	-3.85	0.68	MWD	EXTREME
6/13/2014	614.00	0.62	243.65	613.97	-0.95	-0.94	-4.81	0.13	MWD	EXTREME
6/13/2014	740.00	0.70	262.55	739.96	-1.35	-1.35	-6.18	0.18	MWD	EXTREME
6/13/2014	861.00	1.10	274.76	860.95	-1.35	-1.34	-8.07	0.36	MWD	EXTREME
6/13/2014	941.00	1.41	254.94	940.93	-1.55	-1.54	-9.79	0.66	MWD	EXTREME
6/13/2014	981.00	1.71	268.48	980.91	-1.69	-1.68	-10.86	1.18	MWD	EXTREME
6/13/2014	1,107.00	2.02	264.24	1,106.85	-1.97	-1.95	-14.95	0.27	MWD	EXTREME
6/13/2014	1,274.00	1.49	257.98	1,273.77	-2.73	-2.70	-20.00	0.34	MWD	EXTREME
6/13/2014	1,360.00	1.38	234.46	1,359.74	-3.56	-3.54	-21.93	0.69	MWD	EXTREME
6/13/2014	1,464.00	1.32	252.97	1,463.71	-4.64	-4.61	-24.10	0.42	MWD	EXTREME
6/13/2014	1,548.00	1.58	246.77	1,547.69	-5.39	-5.35	-26.09	0.36	MWD	EXTREME
6/13/2014	1,643.00	1.49	248.57	1,642.65	-6.36	-6.32	-28.44	0.11	MWD	EXTREME
6/13/2014	1,738.00	1.80	239.47	1,737.61	-7.57	-7.53	-30.88	0.43	MWD	EXTREME
6/13/2014	1,832.00	1.49	228.58	1,831.57	-9.13	-9.09	-33.06	0.47	MWD	EXTREME
6/13/2014	1,927.00	1.32	226.77	1,926.55	-10.70	-10.66	-34.79	0.18	MWD	EXTREME
6/13/2014	2,021.00	1.41	226.64	2,020.52	-12.24	-12.19	-36.42	0.10	MWD	EXTREME
6/13/2014	2,115.00	1.32	225.54	2,114.49	-13.79	-13.74	-38.03	0.10	MWD	EXTREME
6/13/2014	2,212.00	1.19	221.37	2,211.47	-15.33	-15.28	-39.49	0.16	MWD	EXTREME
6/13/2014	2,307.00	1.19	220.58	2,306.45	-16.82	-16.77	-40.79	0.02	MWD	EXTREME
6/13/2014	2,402.00	1.01	241.96	2,401.43	-17.97	-17.92	-42.17	0.47	MWD	EXTREME
6/13/2014	2,497.00	0.62	219.96	2,496.42	-18.76	-18.70	-43.24	0.52	MWD	EXTREME
6/13/2014	2,592.00	0.88	215.74	2,591.41	-19.74	-19.69	-43.99	0.28	MWD	EXTREME
6/13/2014	2,687.00	0.40	203.44	2,686.41	-20.64	-20.59	-44.55	0.52	MWD	EXTREME
6/13/2014	2,782.00	0.31	232.84	2,781.41	-21.10	-21.05	-44.89	0.21	MWD	EXTREME
6/13/2014	2,878.00	0.09	212.67	2,877.41	-21.32	-21.27	-45.14	0.24	MWD	EXTREME
6/13/2014	2,973.00	0.31	160.55	2,972.41	-21.63	-21.57	-45.09	0.28	MWD	EXTREME
6/13/2014	3,067.00	0.22	254.06	3,066.40	-21.92	-21.86	-45.18	0.42	MWD	EXTREME
6/13/2014	3,161.00	0.31	15.27	3,160.40	-21.72	-21.66	-45.29	0.49	MWD	EXTREME
6/13/2014	3,255.00	0.40	78.55	3,254.40	-21.41	-21.35	-44.90	0.40	MWD	EXTREME
6/13/2014	3,350.00	0.31	88.65	3,349.40	-21.34	-21.28	-44.32	0.12	MWD	EXTREME
6/13/2014	3,444.00	0.48	72.35	3,443.40	-21.21	-21.16	-43.69	0.22	MWD	EXTREME
6/13/2014	3,613.00	0.62	14.74	3,612.39	-20.11	-20.06	-42.78	0.32	MWD	EXTREME
6/13/2014	3,722.00	0.62	53.45	3,721.39	-19.19	-19.14	-42.16	0.38	MWD	EXTREME
6/13/2014	3,822.00	0.62	9.77	3,821.38	-18.33	-18.28	-41.63	0.46	MWD	EXTREME
6/13/2014	4,005.00	0.70	91.06	4,004.37	-17.37	-17.33	-40.34	0.47	MWD	EXTREME
6/13/2014	4,193.00	0.88	5.96	4,192.36	-15.96	-15.91	-39.05	0.57	MWD	EXTREME
6/13/2014	4,286.00	1.19	43.65	4,285.34	-14.55	-14.50	-38.30	0.79	MWD	EXTREME
6/13/2014	4,384.00	1.19	57.76	4,383.32	-13.27	-13.22	-36.74	0.30	MWD	EXTREME
6/13/2014	4,479.00	1.32	77.36	4,478.30	-12.50	-12.46	-34.84	0.47	MWD	EXTREME
6/13/2014	4,574.00	1.89	84.48	4,573.26	-12.11	-12.07	-32.21	0.63	MWD	EXTREME

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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company
6/13/2014	4,672.00	2.02	96.56	4,671.21	-12.14	-12.11	-28.89	0.44	MWD	EXTREME
6/13/2014	4,766.00	2.81	99.55	4,765.12	-12.71	-12.68	-24.97	0.85	MWD	EXTREME
6/13/2014	4,859.00	2.59	108.10	4,858.02	-13.74	-13.71	-20.72	0.49	MWD	EXTREME
6/13/2014	4,953.00	2.90	103.55	4,951.91	-14.95	-14.93	-16.39	0.40	MWD	EXTREME
6/13/2014	5,047.00	2.59	106.76	5,045.80	-16.11	-16.10	-12.05	0.37	MWD	EXTREME
6/13/2014	5,158.00	2.68	110.28	5,156.69	-17.73	-17.72	-7.21	0.17	MWD	EXTREME
6/13/2014	5,253.00	3.38	104.25	5,251.55	-19.18	-19.18	-2.41	0.81	MWD	EXTREME
6/13/2014	5,351.00	4.31	102.06	5,349.33	-20.66	-20.66	3.99	0.96	MWD	EXTREME
6/13/2014	5,446.00	4.70	102.37	5,444.04	-22.23	-22.24	11.28	0.41	MWD	EXTREME
6/13/2014	5,537.00	4.61	100.87	5,534.74	-23.71	-23.73	18.51	0.17	MWD	EXTREME
6/13/2014	5,696.00	4.48	100.34	5,693.24	-26.01	-26.05	30.90	0.09	MWD	EXTREME
6/13/2014	5,791.00	4.31	100.96	5,787.96	-27.35	-27.39	38.05	0.19	MWD	EXTREME
6/13/2014	5,885.00	4.31	100.08	5,881.69	-28.63	-28.68	45.00	0.07	MWD	EXTREME
6/13/2014	5,979.00	4.22	100.06	5,975.43	-29.84	-29.90	51.88	0.10	MWD	EXTREME
6/13/2014	6,075.00	4.31	100.06	6,071.17	-31.08	-31.15	58.91	0.09	MWD	EXTREME
6/13/2014	6,169.00	4.22	98.98	6,164.91	-32.23	-32.31	65.80	0.13	MWD	EXTREME
6/13/2014	6,263.00	4.22	98.06	6,258.65	-33.24	-33.33	72.64	0.07	MWD	EXTREME
6/13/2014	6,358.00	4.31	97.44	6,353.39	-34.19	-34.29	79.64	0.11	MWD	EXTREME
6/13/2014	6,453.00	4.22	98.54	6,448.13	-35.16	-35.27	86.64	0.13	MWD	EXTREME
6/13/2014	6,547.00	4.22	97.75	6,541.87	-36.13	-36.25	93.49	0.06	MWD	EXTREME
6/13/2014	6,643.00	4.22	97.27	6,637.61	-37.05	-37.17	100.49	0.04	MWD	EXTREME
6/13/2014	6,831.00	4.01	96.08	6,825.13	-38.60	-38.74	113.89	0.12	MWD	EXTREME
6/13/2014	6,925.00	4.09	93.84	6,918.89	-39.17	-39.31	120.50	0.19	MWD	EXTREME
6/13/2014	7,020.00	4.09	93.36	7,013.65	-39.58	-39.74	127.26	0.04	MWD	EXTREME
6/13/2014	7,115.00	4.09	94.06	7,108.41	-40.01	-40.18	134.03	0.05	MWD	EXTREME
6/13/2014	7,210.00	4.00	91.86	7,203.17	-40.35	-40.53	140.72	0.19	MWD	EXTREME
6/13/2014	7,304.00	3.91	91.95	7,296.95	-40.56	-40.74	147.20	0.10	MWD	EXTREME
6/13/2014	7,399.00	3.69	89.75	7,391.74	-40.65	-40.84	153.49	0.28	MWD	EXTREME
6/13/2014	7,497.00	3.52	88.35	7,489.54	-40.54	-40.74	159.65	0.20	MWD	EXTREME
6/13/2014	7,590.00	3.52	89.97	7,582.37	-40.45	-40.65	165.36	0.11	MWD	EXTREME
6/13/2014	7,684.00	3.52	90.15	7,676.19	-40.45	-40.66	171.13	0.01	MWD	EXTREME
6/13/2014	7,696.00	3.38	85.67	7,688.17	-40.42	-40.63	171.85	2.53	MWD	EXTREME
6/13/2014	7,781.00	3.38	87.38	7,773.02	-40.11	-40.33	176.85	0.12	MWD	EXTREME
6/13/2014	8,064.00	3.38	84.48	8,055.53	-38.91	-39.15	193.49	0.06	MWD	EXTREME
6/13/2014	8,159.00	3.38	85.75	8,150.36	-38.43	-38.67	199.07	0.08	MWD	EXTREME
6/13/2014	8,254.00	3.30	85.84	8,245.20	-38.01	-38.26	204.59	0.08	MWD	EXTREME
6/13/2014	8,443.00	3.78	90.68	8,433.84	-37.68	-37.94	216.25	0.30	MWD	EXTREME
6/13/2014	8,536.00	3.21	91.64	8,526.67	-37.78	-38.05	221.92	0.62	MWD	EXTREME
6/13/2014	8,821.00	2.68	92.87	8,811.29	-38.33	-38.62	236.55	0.19	MWD	EXTREME
6/13/2014	8,915.00	2.42	93.97	8,905.20	-38.57	-38.86	240.72	0.28	MWD	EXTREME
6/13/2014	9,008.00	2.20	92.48	8,998.12	-38.78	-39.08	244.46	0.25	MWD	EXTREME
6/13/2014	9,105.00	1.80	91.47	9,095.06	-38.89	-39.20	247.85	0.41	MWD	EXTREME
6/13/2014	9,198.00	1.19	96.26	9,188.03	-39.03	-39.34	250.27	0.67	MWD	EXTREME
6/13/2014	9,292.00	0.22	143.28	9,282.02	-39.28	-39.59	251.34	1.12	MWD	EXTREME
6/13/2014	9,387.00	0.70	231.74	9,377.02	-39.79	-40.10	251.00	0.77	MWD	EXTREME
6/13/2014	9,482.00	2.20	259.16	9,471.99	-40.49	-40.80	248.75	1.70	MWD	EXTREME
6/13/2014	9,575.00	4.09	270.85	9,564.85	-40.79	-41.08	243.68	2.14	MWD	EXTREME
6/13/2014	9,670.00	6.20	276.74	9,659.46	-40.14	-40.43	235.20	2.29	MWD	EXTREME
6/13/2014	9,764.00	8.09	276.65	9,752.72	-38.80	-39.07	223.59	2.01	MWD	EXTREME
6/13/2014	9,858.00	9.58	271.25	9,845.61	-37.88	-38.13	209.20	1.81	MWD	EXTREME
6/13/2014	9,953.00	9.80	268.26	9,939.25	-37.97	-38.21	193.21	0.58	MWD	EXTREME
6/13/2014	10,047.00	10.99	266.15	10,031.71	-38.84	-39.05	176.27	1.33	MWD	EXTREME
6/13/2014	10,142.00	12.08	264.74	10,124.79	-40.38	-40.57	157.34	1.19	MWD	EXTREME
6/13/2014	10,236.00	12.30	263.56	10,216.67	-42.43	-42.60	137.60	0.35	MWD	EXTREME
6/13/2014	10,332.00	12.22	263.47	10,310.48	-44.75	-44.90	117.34	0.09	MWD	EXTREME
6/13/2014	10,409.00	12.30	262.02	10,385.72	-46.84	-46.96	101.12	0.41	MWD	EXTREME
6/13/2014	10,484.00	12.42	265.14	10,458.99	-48.65	-48.76	85.17	0.90	MWD	EXTREME
6/13/2014	10,516.00	12.46	265.54	10,490.24	-49.22	-49.32	78.30	0.30	MWD	EXTREME



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Survey Data

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6/13/2014	10,547.00	13.50	281.70	10,520.45	-48.75	-48.84	71.42	12.14	MWD	EXTREME
6/13/2014	10,579.00	15.26	298.43	10,551.46	-46.00	-46.08	64.06	14.04	MWD	EXTREME
6/13/2014	10,610.00	17.29	309.23	10,581.23	-41.15	-41.22	56.90	11.73	MWD	EXTREME
6/13/2014	10,642.00	20.31	315.90	10,611.52	-34.16	-34.22	49.35	11.57	MWD	EXTREME
6/13/2014	10,673.00	24.43	320.04	10,640.18	-25.39	-25.44	41.49	14.22	MWD	EXTREME
6/13/2014	10,705.00	27.64	323.75	10,668.93	-14.34	-14.38	32.84	11.24	MWD	EXTREME
6/13/2014	10,737.00	30.54	328.63	10,696.90	-1.42	-1.45	24.22	11.70	MWD	EXTREME
6/13/2014	10,768.00	33.28	333.46	10,723.21	12.91	12.89	16.32	12.08	MWD	EXTREME
6/13/2014	10,800.00	36.56	337.19	10,749.45	29.55	29.54	8.70	12.23	MWD	EXTREME
6/13/2014	10,831.00	39.18	342.56	10,773.93	47.40	47.40	2.18	13.58	MWD	EXTREME
6/13/2014	10,863.00	41.55	347.54	10,798.31	67.41	67.41	-3.14	12.50	MWD	EXTREME
6/13/2014	10,894.00	43.84	352.62	10,821.10	88.10	88.11	-6.74	13.34	MWD	EXTREME
6/13/2014	10,926.00	46.85	357.51	10,843.60	110.76	110.77	-8.67	14.37	MWD	EXTREME
6/13/2014	10,957.00	49.27	359.24	10,864.32	133.81	133.82	-9.32	8.84	MWD	EXTREME
6/13/2014	10,989.00	51.10	0.03	10,884.81	158.39	158.40	-9.48	6.02	MWD	EXTREME
6/13/2014	11,021.00	52.28	359.92	10,904.64	183.49	183.51	-9.49	3.70	MWD	EXTREME
6/13/2014	11,052.00	55.08	359.85	10,923.00	208.47	208.48	-9.54	9.03	MWD	EXTREME
6/13/2014	11,084.00	56.53	359.08	10,940.99	234.94	234.95	-9.79	4.95	MWD	EXTREME
6/13/2014	11,115.00	58.06	358.47	10,957.74	261.01	261.03	-10.34	5.21	MWD	EXTREME
6/13/2014	11,147.00	58.82	356.02	10,974.49	288.24	288.26	-11.66	6.94	MWD	EXTREME
6/13/2014	11,178.00	61.62	353.07	10,989.88	315.02	315.03	-14.22	12.24	MWD	EXTREME
6/13/2014	11,210.00	63.30	353.42	11,004.68	343.19	343.21	-17.56	5.34	MWD	EXTREME
6/13/2014	11,241.00	64.75	355.42	11,018.26	370.92	370.94	-20.27	7.45	MWD	EXTREME
6/13/2014	11,273.00	66.58	355.78	11,031.44	399.99	400.01	-22.50	5.81	MWD	EXTREME
6/13/2014	11,305.00	69.49	356.02	11,043.41	429.58	429.61	-24.62	9.12	MWD	EXTREME
6/13/2014	11,336.00	72.41	356.72	11,053.53	458.82	458.85	-26.48	9.66	MWD	EXTREME
6/13/2014	11,356.00	73.72	357.37	11,059.35	477.92	477.96	-27.46	7.25	MWD	EXTREME
6/13/2014	11,387.00	75.35	357.86	11,067.62	507.77	507.81	-28.71	5.47	MWD	EXTREME
6/13/2014	11,419.00	77.56	357.66	11,075.11	538.86	538.89	-29.92	6.93	MWD	EXTREME
6/13/2014	11,450.00	78.83	358.15	11,081.46	569.18	569.22	-31.03	4.38	MWD	EXTREME
6/13/2014	11,482.00	79.34	357.90	11,087.52	600.58	600.62	-32.11	1.77	MWD	EXTREME
6/13/2014	11,514.00	79.65	357.93	11,093.35	632.02	632.06	-33.26	0.97	MWD	EXTREME
6/13/2014	11,545.00	80.06	358.40	11,098.81	662.52	662.56	-34.24	1.99	MWD	EXTREME
6/13/2014	11,577.00	81.68	358.06	11,103.89	694.10	694.14	-35.21	5.17	MWD	EXTREME
6/13/2014	11,608.00	84.28	358.38	11,107.68	724.85	724.89	-36.17	8.45	MWD	EXTREME
6/13/2014	11,640.00	85.72	358.33	11,110.46	756.71	756.75	-37.08	4.50	MWD	EXTREME
6/13/2014	11,671.00	86.55	358.98	11,112.55	787.63	787.67	-37.81	3.40	MWD	EXTREME
6/13/2014	11,703.00	87.33	359.40	11,114.26	819.58	819.63	-38.26	2.77	MWD	EXTREME
6/13/2014	11,735.00	88.25	359.50	11,115.50	851.55	851.60	-38.57	2.89	MWD	EXTREME
6/13/2014	11,766.00	89.37	359.51	11,116.14	882.54	882.59	-38.83	3.61	MWD	EXTREME
6/13/2014	11,798.00	90.14	359.66	11,116.28	914.54	914.59	-39.07	2.45	MWD	EXTREME
6/13/2014	11,861.00	90.00	359.98	11,116.20	977.54	977.59	-39.26	0.55	MWD	EXTREME
6/13/2014	11,955.00	89.30	359.66	11,116.77	1,071.54	1,071.59	-39.56	0.82	MWD	EXTREME
6/13/2014	12,050.00	88.88	0.25	11,118.28	1,166.52	1,166.57	-39.63	0.76	MWD	EXTREME
6/13/2014	12,145.00	89.30	1.16	11,119.79	1,261.51	1,261.55	-38.47	1.05	MWD	EXTREME
6/13/2014	12,240.00	89.09	3.51	11,121.13	1,356.42	1,356.46	-34.60	2.48	MWD	EXTREME
6/13/2014	12,335.00	88.81	2.06	11,122.87	1,451.29	1,451.33	-29.98	1.55	MWD	EXTREME
6/13/2014	12,429.00	88.88	0.97	11,124.76	1,545.24	1,545.27	-27.50	1.16	MWD	EXTREME
6/13/2014	12,523.00	89.93	0.67	11,125.74	1,639.23	1,639.26	-26.15	1.16	MWD	EXTREME
6/13/2014	12,618.00	89.30	0.90	11,126.38	1,734.22	1,734.25	-24.85	0.71	MWD	EXTREME
6/13/2014	12,712.00	90.63	1.18	11,126.43	1,828.20	1,828.23	-23.14	1.45	MWD	EXTREME
6/13/2014	12,807.00	91.75	1.07	11,124.46	1,923.16	1,923.19	-21.28	1.18	MWD	EXTREME
6/13/2014	12,902.00	90.63	1.07	11,122.49	2,018.13	2,018.15	-19.51	1.18	MWD	EXTREME
6/13/2014	12,996.00	89.79	0.38	11,122.14	2,112.12	2,112.14	-18.32	1.16	MWD	EXTREME
6/13/2014	13,091.00	88.81	359.72	11,123.30	2,207.11	2,207.13	-18.23	1.24	MWD	EXTREME
6/13/2014	13,185.00	90.00	359.15	11,124.28	2,301.10	2,301.12	-19.16	1.40	MWD	EXTREME
6/13/2014	13,280.00	90.98	359.47	11,123.47	2,396.08	2,396.11	-20.30	1.09	MWD	EXTREME
6/13/2014	13,374.00	90.56	358.70	11,122.21	2,490.06	2,490.09	-21.80	0.93	MWD	EXTREME



Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name JOHNSON RANCH	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC19 T24S R33E	API/UWI 3002541516	Latitude (°) 32° 11' 46.859" N	Longitude (°) 103° 36' 30.299" W	Ground Elev M... 3,548.40
				Orig KB Elev (ft) 3,573.40
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/13/2014	13,469.00	89.51	358.65	11,122.15	2,585.03	2,585.06	-24.00	1.11	MWD	EXTREME
6/13/2014	13,564.00	90.84	358.11	11,121.86	2,679.99	2,680.02	-26.69	1.51	MWD	EXTREME
6/13/2014	13,658.00	91.18	358.78	11,120.20	2,773.93	2,773.97	-29.24	0.80	MWD	EXTREME
6/13/2014	13,752.00	90.84	358.82	11,118.54	2,867.89	2,867.93	-31.21	0.36	MWD	EXTREME
6/13/2014	13,847.00	89.93	358.85	11,117.90	2,962.87	2,962.91	-33.14	0.96	MWD	EXTREME
6/13/2014	13,941.00	91.40	0.09	11,116.81	3,056.85	3,056.90	-34.01	2.05	MWD	EXTREME
6/13/2014	14,036.00	91.19	0.92	11,114.67	3,151.83	3,151.87	-33.17	0.90	MWD	EXTREME
6/13/2014	14,130.00	90.98	0.40	11,112.89	3,245.80	3,245.84	-32.09	0.60	MWD	EXTREME
6/13/2014	14,225.00	90.56	1.09	11,111.61	3,340.79	3,340.83	-30.85	0.85	MWD	EXTREME
6/13/2014	14,319.00	90.35	0.74	11,110.86	3,434.77	3,434.81	-29.35	0.43	MWD	EXTREME
6/13/2014	14,414.00	89.86	1.35	11,110.69	3,529.76	3,529.80	-27.62	0.82	MWD	EXTREME
6/13/2014	14,509.00	88.95	1.67	11,111.68	3,624.72	3,624.76	-25.12	1.02	MWD	EXTREME
6/13/2014	14,603.00	90.00	1.66	11,112.54	3,718.68	3,718.71	-22.38	1.12	MWD	EXTREME
6/13/2014	14,698.00	90.00	1.16	11,112.54	3,813.65	3,813.68	-20.05	0.53	MWD	EXTREME
6/13/2014	14,792.00	89.86	1.75	11,112.65	3,907.63	3,907.65	-17.66	0.65	MWD	EXTREME
6/13/2014	14,887.00	89.37	1.56	11,113.29	4,002.59	4,002.61	-14.92	0.55	MWD	EXTREME
6/13/2014	14,981.00	92.58	3.32	11,111.69	4,096.48	4,096.49	-10.92	3.89	MWD	EXTREME
6/13/2014	15,075.00	92.52	2.93	11,107.51	4,190.25	4,190.26	-5.80	0.42	MWD	EXTREME
6/13/2014	15,170.00	91.41	3.04	11,104.25	4,285.07	4,285.08	-0.85	1.17	MWD	EXTREME
6/13/2014	15,264.00	90.56	3.17	11,102.64	4,378.92	4,378.92	4.24	0.91	MWD	EXTREME
6/13/2014	15,359.00	88.46	2.59	11,103.45	4,473.80	4,473.79	9.01	2.29	MWD	EXTREME
6/13/2014	15,453.00	88.47	3.16	11,105.97	4,567.65	4,567.64	13.72	0.61	MWD	EXTREME
6/13/2014	15,547.00	87.21	2.61	11,109.51	4,661.47	4,661.45	18.45	1.46	MWD	EXTREME
6/13/2014	15,567.00	87.20	2.79	11,110.48	4,681.43	4,681.41	-19.39	0.90	MWD	EXTREME
6/13/2014	15,634.00	87.20	2.80	11,113.76	4,748.27	4,748.25	22.66	0.01	MWD	EXTREME