



Directional Survey

DELAWARE BASIN EAST UNRESTRICTED

Well Name: ARENA ROJA FED UNIT 15H

Sub-Division DELAWARE BASIN EAST	Region BASIN EAST	Field Name RATTLESNAKE (NM)	County LEA	State/Province NM						
Surface Legal Location SEC 27-28S-35E	APN/MI 3002542671	Latitude (°) 32° 1' 15.378" N	Longitude (°) 103° 21' 49.792" W	Orig KB Elevation (ft) 3,136.30	Ground Elev MSL (ft) 3,112.80	KB - GL (ft) 23.50				
Wellbores										
Wellbore Name OH	Parent Wellbore OH	Vertical Section Direction (°) 177.11								
Kick Offs & Key Depths										
Date 8/8/2015	Type CURVE	Top Depth (ftKB) 11,983.0								
Actual Deviation Survey EXTREME, Proposed? No		Definitive? No	Proposed? No	Proposed Deviation Survey						
Deviation Survey										
Date 7/22/2015	Description EXTREME									
MD Tie In (ft-B) 0.00	TVD Tie In (ft-B) 0.00	Inclination Tie In (°) 0.00	Azimuth Tie In (°) 0.00	NS Tie In (ft) 0.00	EW Tie In (ft) 0.00					
Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
7/22/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME
7/22/2015	171.00	0.62	181.77	171.00	0.92	-0.92	-0.03	0.36	MWD	EXTREME
7/22/2015	257.00	0.79	183.57	256.99	1.97	-1.98	-0.08	0.20	MWD	EXTREME
7/22/2015	396.00	0.79	192.58	395.98	3.85	-3.87	-0.35	0.09	MWD	EXTREME
7/22/2015	490.00	0.79	195.70	489.97	5.09	-5.13	-0.66	0.05	MWD	EXTREME
7/22/2015	583.00	0.79	193.28	582.96	6.31	-6.37	-0.99	0.04	MWD	EXTREME
7/22/2015	672.00	0.70	194.47	671.95	7.42	-7.49	-1.26	0.10	MWD	EXTREME
7/22/2015	768.00	0.70	189.37	767.94	8.55	-8.64	-1.50	0.08	MWD	EXTREME
7/22/2015	865.00	0.70	187.17	864.94	9.72	-9.81	-1.67	0.03	MWD	EXTREME
7/22/2015	958.00	0.62	183.70	957.93	10.78	-10.88	-1.78	0.10	MWD	EXTREME
7/22/2015	1,112.00	0.22	210.68	1,111.93	11.85	-11.96	-1.98	0.28	MWD	EXTREME
7/22/2015	1,205.00	0.31	167.79	1,204.93	12.25	-12.36	-2.02	0.23	MWD	EXTREME
7/22/2015	1,299.00	0.48	133.80	1,298.92	12.78	-12.89	-1.68	0.30	MWD	EXTREME
7/22/2015	1,398.00	0.40	131.19	1,397.92	13.33	-13.40	-1.12	0.08	MWD	EXTREME
7/22/2015	1,494.00	0.40	133.30	1,493.92	13.80	-13.85	-0.63	0.02	MWD	EXTREME
7/22/2015	1,589.00	0.31	134.57	1,588.92	14.23	-14.26	-0.20	0.10	MWD	EXTREME
7/22/2015	1,780.00	0.22	351.31	1,779.92	14.25	-14.26	0.11	0.26	MWD	EXTREME
7/22/2015	1,967.00	0.22	70.67	1,966.91	13.79	-13.78	0.39	0.15	MWD	EXTREME
7/22/2015	2,162.00	0.09	40.31	2,161.91	13.57	-13.54	0.85	0.08	MWD	EXTREME
7/22/2015	2,350.00	0.22	32.31	2,349.91	13.17	-13.13	1.14	0.07	MWD	EXTREME
7/22/2015	2,545.00	0.09	53.40	2,544.91	12.78	-12.72	1.46	0.07	MWD	EXTREME
7/22/2015	2,736.00	0.31	73.88	2,735.91	12.57	-12.49	2.08	0.12	MWD	EXTREME
7/22/2015	2,927.00	0.62	78.19	2,926.90	12.30	-12.13	3.58	0.16	MWD	EXTREME
7/22/2015	3,118.00	0.48	66.68	3,117.90	11.86	-11.60	5.33	0.09	MWD	EXTREME
7/22/2015	3,368.00	0.70	65.18	3,367.88	10.92	-10.55	7.68	0.09	MWD	EXTREME
7/22/2015	3,500.00	1.01	62.19	3,499.87	10.13	-9.67	9.44	0.24	MWD	EXTREME
7/22/2015	3,691.00	0.62	69.40	3,690.85	9.11	-8.52	11.89	0.21	MWD	EXTREME
7/22/2015	3,878.00	0.22	68.78	3,877.84	8.68	-8.03	13.18	0.21	MWD	EXTREME
7/22/2015	4,073.00	0.09	36.57	4,072.84	8.45	-7.77	13.62	0.08	MWD	EXTREME
7/22/2015	4,265.00	0.10	309.69	4,264.84	8.22	-7.54	13.58	0.07	MWD	EXTREME
7/22/2015	4,456.00	0.09	122.18	4,455.84	8.19	-7.52	13.58	0.10	MWD	EXTREME
7/22/2015	4,653.00	0.79	90.80	4,652.83	8.37	-7.62	15.06	0.36	MWD	EXTREME
7/22/2015	4,838.00	1.71	90.80	4,837.79	8.63	-7.68	19.10	0.50	MWD	EXTREME
7/22/2015	5,029.00	1.89	107.50	5,028.70	9.91	-8.66	24.95	0.29	MWD	EXTREME
7/22/2015	5,216.00	0.60	108.09	5,215.65	11.33	-9.89	28.83	0.69	MWD	EXTREME
8/9/2015	5,415.00	1.49	98.00	5,414.61	12.20	-10.58	32.38	0.45	MWD	EXTREME
7/22/2015	5,520.00	1.49	97.70	5,519.58	12.70	-10.95	35.08	0.01	MWD	EXTREME
7/22/2015	5,546.00	1.41	104.47	5,545.57	12.86	-11.08	35.73	0.73	MWD	EXTREME
7/22/2015	5,709.00	1.41	108.60	5,708.52	14.20	-12.22	39.57	0.06	MWD	EXTREME
7/22/2015	5,806.00	1.32	101.48	5,805.49	14.91	-12.82	41.80	0.20	MWD	EXTREME
7/22/2015	5,997.00	1.19	101.48	5,996.45	15.95	-13.65	45.90	0.07	MWD	EXTREME
7/22/2015	6,188.00	1.01	97.39	6,187.41	16.74	-14.26	49.51	0.10	MWD	EXTREME
7/22/2015	6,379.00	0.88	110.97	6,378.39	17.63	-15.00	52.55	0.14	MWD	EXTREME
7/22/2015	6,570.00	0.70	95.68	6,569.37	18.40	-15.64	55.08	0.14	MWD	EXTREME
7/22/2015	6,761.00	0.70	102.58	6,760.35	18.89	-16.01	57.38	0.04	MWD	EXTREME
7/22/2015	6,952.00	0.48	99.68	6,951.34	19.37	-16.40	59.30	0.12	MWD	EXTREME
7/22/2015	7,143.00	0.48	114.97	7,142.34	19.92	-16.88	60.82	0.07	MWD	EXTREME
7/22/2015	7,333.00	0.31	131.01	7,332.33	20.65	-17.55	61.93	0.11	MWD	EXTREME
7/22/2015	7,524.00	0.48	89.00	7,523.33	21.03	-17.87	63.12	0.17	MWD	EXTREME
7/22/2015	7,716.00	0.98	114.40	7,715.31	21.81	-18.54	65.42	0.30	MWD	EXTREME
7/22/2015	7,907.00	1.10	185.81	7,906.29	24.37	-21.04	66.72	0.64	MWD	EXTREME
7/22/2015	8,099.00	1.10	202.60	8,098.25	27.86	-24.57	65.82	0.17	MWD	EXTREME
7/22/2015	8,289.00	1.11	205.41	8,288.22	31.13	-27.92	64.33	0.03	MWD	EXTREME
7/22/2015	8,480.00	0.88	191.39	8,479.19	34.18	-31.03	63.25	0.17	MWD	EXTREME
7/22/2015	8,671.00	1.01	180.49	8,670.16	37.28	-34.15	62.95	0.12	MWD	EXTREME
7/22/2015	8,862.00	1.01	155.88	8,861.13	40.53	-37.37	63.62	0.23	MWD	EXTREME
7/22/2015	9,054.00	1.19	144.28	9,053.10	43.78	-40.53	65.48	0.15	MWD	EXTREME
7/22/2015	9,150.00	0.88	139.10	9,149.08	45.20	-41.90	66.54	0.34	MWD	EXTREME
7/22/2015	9,341.00	1.01	137.30	9,340.06	47.65	-44.24	68.64	0.07	MWD	EXTREME
7/22/2015	9,436.00	0.88	127.89	9,435.04	48.77	-45.31	69.79	0.21	MWD	EXTREME
7/22/2015	9,627.00	0.40	56.00	9,626.03	49.38	-45.83	71.50	0.44	MWD	EXTREME
7/22/2015	9,818.00	2.29	69.00	9,816.97	47.85	-44.09	75.61	1.00	MWD	EXTREME
7/22/2015	9,914.00	1.19	24.49	9,912.93	46.37	-42.50	77.82	1.73	MWD	EXTREME
7/22/2015	10,105.00	0.79	352.41	10,103.90	43.29	-39.39	78.46	0.35	MWD	EXTREME
7/22/2015	10,295.00	0.70	302.49	10,293.89	41.32	-37.47	77.31	0.33	MWD	EXTREME
7/22/2015	10,487.00	0.09	125.61	10,485.88	40.73	-36.92	76.45	0.41	MWD	EXTREME

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SEC 27-26S-35E	3002542671	32° 1' 15.378" N	103° 21' 49.792" W	3,136.30	3,112.80	23.50				
Survey Data										
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7/22/2015	10,677.00	0.48	139.39	10,675.88	41.45	-37.62	77.08	0.21	MWD	EXTREME
7/22/2015	10,870.00	0.88	72.39	10,868.87	41.72	-37.78	79.02	0.43	MWD	EXTREME
7/22/2015	11,061.00	0.70	334.19	11,059.86	40.27	-36.29	79.91	0.63	MWD	EXTREME
7/22/2015	11,251.00	1.32	18.69	11,249.83	37.17	-33.17	80.11	0.50	MWD	EXTREME
7/22/2015	11,420.00	1.58	318.39	11,418.79	33.54	-29.58	79.19	0.87	MWD	EXTREME
8/9/2015	11,595.00	2.38	297.52	11,593.68	29.82	-26.10	74.36	0.61	MWD	WEATHERFORD
8/9/2015	11,785.00	1.61	290.41	11,783.57	26.76	-23.35	68.36	0.42	MWD	WEATHERFORD
8/9/2015	11,976.00	1.12	270.04	11,974.51	25.61	-22.41	63.98	0.38	MWD	WEATHERFORD
8/9/2015	12,008.00	2.75	172.07	12,006.50	26.36	-23.17	63.77	9.72	MWD	WEATHERFORD
8/9/2015	12,039.00	6.48	159.64	12,037.39	28.77	-25.55	64.48	12.39	MWD	WEATHERFORD
8/9/2015	12,071.00	9.78	155.38	12,069.07	33.01	-29.71	66.24	10.48	MWD	WEATHERFORD
8/9/2015	12,103.00	12.19	154.30	12,100.48	38.65	-35.23	68.84	7.56	MWD	WEATHERFORD
8/9/2015	12,135.00	14.20	153.54	12,131.63	45.37	-41.79	72.06	6.30	MWD	WEATHERFORD
8/9/2015	12,167.00	17.08	150.74	12,162.45	53.18	-49.40	76.10	9.30	MWD	WEATHERFORD
8/9/2015	12,199.00	21.30	147.59	12,192.66	62.45	-58.41	81.52	13.57	MWD	WEATHERFORD
8/9/2015	12,231.00	25.60	146.24	12,222.01	73.44	-69.07	88.48	13.54	MWD	WEATHERFORD
8/9/2015	12,263.00	29.91	144.71	12,250.32	86.12	-81.34	96.93	13.65	MWD	WEATHERFORD
8/9/2015	12,294.00	34.77	145.22	12,276.51	100.16	-94.91	106.45	15.70	MWD	WEATHERFORD
8/9/2015	12,326.00	39.41	145.58	12,302.03	116.58	-110.80	117.40	14.52	MWD	WEATHERFORD
8/9/2015	12,358.00	43.31	145.12	12,326.04	134.55	-128.19	129.42	12.22	MWD	WEATHERFORD
8/9/2015	12,390.00	46.96	144.62	12,348.61	153.73	-146.73	142.47	11.46	MWD	WEATHERFORD
8/9/2015	12,422.00	50.29	144.68	12,369.76	173.99	-166.31	156.36	10.41	MWD	WEATHERFORD
8/9/2015	12,454.00	53.08	144.33	12,389.60	195.13	-186.75	170.94	8.76	MWD	WEATHERFORD
8/9/2015	12,486.00	55.15	143.97	12,408.35	216.89	-207.77	186.13	6.53	MWD	WEATHERFORD
8/9/2015	12,517.00	57.15	143.30	12,425.62	238.36	-228.49	201.39	6.70	MWD	WEATHERFORD
8/9/2015	12,549.00	60.27	143.21	12,442.24	261.06	-250.40	217.75	9.75	MWD	WEATHERFORD
8/9/2015	12,581.00	62.41	143.65	12,457.58	284.43	-272.95	234.48	6.80	MWD	WEATHERFORD
8/9/2015	12,613.00	63.37	144.17	12,472.17	308.26	-295.97	251.26	3.33	MWD	WEATHERFORD
8/9/2015	12,645.00	63.61	144.08	12,486.45	332.28	-319.18	268.04	0.79	MWD	WEATHERFORD
8/9/2015	12,677.00	63.83	143.98	12,500.62	356.33	-342.40	284.89	0.74	MWD	WEATHERFORD
8/9/2015	12,709.00	64.01	144.25	12,514.69	380.43	-365.68	301.74	0.94	MWD	WEATHERFORD
8/9/2015	12,729.00	64.79	145.62	12,523.33	395.70	-380.45	312.10	7.31	MWD	WEATHERFORD
8/9/2015	12,796.00	67.99	147.06	12,550.16	448.44	-431.54	346.11	5.17	MWD	WEATHERFORD
8/9/2015	12,828.00	67.43	147.56	12,562.30	474.14	-456.46	362.10	2.27	MWD	WEATHERFORD
8/9/2015	12,860.00	69.12	147.60	12,574.14	500.00	-481.55	378.04	5.28	MWD	WEATHERFORD
8/9/2015	12,892.00	69.79	147.95	12,585.37	526.12	-506.90	394.02	2.33	MWD	WEATHERFORD
8/9/2015	12,923.00	70.98	147.76	12,595.78	551.60	-531.63	409.55	3.88	MWD	WEATHERFORD
8/9/2015	12,955.00	71.77	147.74	12,606.00	578.03	-557.27	425.74	2.47	MWD	WEATHERFORD
8/9/2015	12,986.00	72.80	148.11	12,615.43	603.81	-582.29	441.42	3.51	MWD	WEATHERFORD
8/9/2015	13,018.00	74.41	148.56	12,624.46	630.72	-608.42	457.53	5.21	MWD	WEATHERFORD
8/9/2015	13,063.00	76.44	148.89	12,635.79	669.03	-645.64	480.14	4.57	MWD	WEATHERFORD
8/9/2015	13,112.00	77.73	149.82	12,646.74	711.30	-686.73	504.48	3.22	MWD	WEATHERFORD
8/9/2015	13,159.00	79.32	150.00	12,656.09	752.26	-726.59	527.57	3.40	MWD	WEATHERFORD
8/9/2015	13,207.00	80.88	151.33	12,664.34	794.60	-767.81	550.74	4.24	MWD	WEATHERFORD
8/9/2015	13,254.00	82.71	152.28	12,671.05	836.65	-808.80	572.71	4.38	MWD	WEATHERFORD
8/9/2015	13,302.00	85.10	153.45	12,676.14	880.17	-851.28	594.48	5.54	MWD	WEATHERFORD
8/9/2015	13,349.00	86.99	154.63	12,679.39	923.30	-893.43	615.00	4.74	MWD	WEATHERFORD
8/9/2015	13,396.00	90.77	158.42	12,680.30	967.28	-936.52	633.71	11.39	MWD	WEATHERFORD
8/9/2015	13,428.00	90.63	159.15	12,679.91	997.65	-966.35	645.29	2.32	MWD	WEATHERFORD
8/9/2015	13,460.00	90.98	160.26	12,679.46	1,028.18	-996.36	656.39	3.64	MWD	WEATHERFORD
8/9/2015	13,491.00	92.03	162.08	12,678.65	1,057.98	-1,025.68	666.39	6.78	MWD	WEATHERFORD
8/9/2015	13,523.00	90.63	162.21	12,677.91	1,088.88	-1,056.13	676.20	4.39	MWD	WEATHERFORD
8/9/2015	13,554.00	91.89	163.26	12,677.23	1,118.91	-1,085.73	685.40	5.29	MWD	WEATHERFORD
8/9/2015	13,586.00	92.87	165.56	12,675.90	1,150.09	-1,116.52	693.99	7.81	MWD	WEATHERFORD
8/19/2015	13,618.00	90.84	166.63	12,674.86	1,181.48	-1,147.57	701.68	7.17	MWD	WEATHERFORD
8/19/2015	13,650.00	88.39	168.58	12,675.08	1,213.04	-1,178.82	708.54	9.78	MWD	WEATHERFORD
8/19/2015	13,681.00	89.16	170.97	12,675.74	1,243.78	-1,209.31	714.05	8.10	MWD	WEATHERFORD
8/19/2015	13,744.00	90.63	173.54	12,675.85	1,306.54	-1,271.73	722.54	4.70	MWD	WEATHERFORD
8/19/2015	13,776.00	88.53	173.75	12,676.09	1,338.48	-1,303.53	726.08	6.60	MWD	WEATHERFORD
8/19/2015	13,808.00	86.50	174.17	12,677.48	1,370.40	-1,335.32	729.44	6.48	MWD	WEATHERFORD
8/19/2015	13,839.00	86.79	170.86	12,679.29	1,401.25	-1,366.00	733.47	10.70	MWD	WEATHERFORD
8/19/2015	13,934.00	84.81	173.88	12,686.25	1,495.65	-1,459.89	746.05	3.79	MWD	WEATHERFORD
8/19/2015	14,028.00	85.45	170.73	12,694.23	1,588.97	-1,552.70	758.59	3.41	MWD	WEATHERFORD
8/19/2015	14,123.00	83.69	173.86	12,703.22	1,683.19	-1,646.40	771.27	3.77	MWD	WEATHERFORD
8/19/2015	14,218.00	84.40	173.29	12,713.08	1,777.50	-1,740.29	781.85	0.96	MWD	WEATHERFORD
8/19/2015	14,313.00	86.15	171.69	12,720.91	1,871.86	-1,834.15	794.22	2.49	MWD	WEATHERFORD
8/19/2015	14,407.00	89.93	170.70	12,724.12	1,965.29	-1,926.97	808.60	4.16	MWD	WEATHERFORD
8/19/2015	14,502.00	89.44	169.92	12,724.64	2,059.62	-2,020.61	824.59	0.97	MWD	WEATHERFORD
8/19/2015	14,596.00	91.12	169.96	12,724.18	2,152.88	-2,113.16	841.01	1.79	MWD	WEATHERFORD
8/19/2015	14,691.00	92.73	171.71	12,720.99	2,247.25	-2,206.89	856.13	2.50	MWD	WEATHERFORD
8/19/2015	14,785.00	91.82	173.79	12,717.26	2,340.90	-2,300.06	867.99	2.41	MWD	WEATHERFORD
8/19/2015	14,880.00	92.24	176.22	12,713.89	2,435.77	-2,394.63	876.25	2.59	MWD	WEATHERFORD
8/19/2015	14,975.00	88.60	177.60	12,713.20	2,530.75	-2,489.47	881.37	4.10	MWD	WEATHERFORD
8/19/2015	15,070.00	91.75	180.27	12,712.91	2,625.68	-2,584.44	883.14	4.35	MWD	WEATHERFORD
8/19/2015	15,165.00	88.81	181.35	12,712.44	2,720.47	-2,679.41	881.79	3.30	MWD	WEATHERFORD
8/19/2015	15,260.00	88.60	181.99	12,714.59	2,815.14	-2,774.35	879.03	0.71	MWD	WEATHERFORD
8/19/2015	15,354.00	88.04	182.45	12,717.35	2,908.73	-2,868.24	875.39	0.77	MWD	WEATHERFORD
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Well Name: ARENA ROJA FED UNIT 15H

Sub-Division DELAWARE BASIN EAST	Region BASIN EAST	Field Name RATTLESNAKE (NM)	County LEA	State/Province NM
Surface Legal Location SEC 27-26S-35E	APN/UM 3002542671	Latitude (°) 32° 1' 15.378" N	Longitude (°) 103° 21' 49.792" W	Orig KB Elevation (ft) 3,136.30
			Ground Elev MSL (ft) 3,112.80	KB - GL (ft) 23.50

Survey Data

Date	MD (ftKB)	Ind (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
8/19/2015	15,449.00	88.18	182.20	12,720.48	3,003.28	-2,963.11	871.53	0.30	MWD	WEATHERFORD
8/19/2015	15,544.00	89.58	184.22	12,722.34	3,097.72	-3,057.93	866.22	2.59	MWD	WEATHERFORD
8/19/2015	15,639.00	89.37	183.49	12,723.21	3,192.06	-3,152.71	859.83	0.80	MWD	WEATHERFORD
8/19/2015	15,734.00	89.93	183.32	12,723.79	3,286.48	-3,247.54	854.19	0.62	MWD	WEATHERFORD
8/19/2015	15,829.00	90.49	182.61	12,723.44	3,380.98	-3,342.42	849.27	0.95	MWD	WEATHERFORD
8/19/2015	15,923.00	90.70	182.34	12,722.46	3,474.57	-3,436.32	845.21	0.36	MWD	WEATHERFORD
8/19/2015	16,018.00	88.81	181.35	12,722.87	3,569.24	-3,531.27	842.16	2.25	MWD	WEATHERFORD
8/19/2015	16,112.00	91.19	182.90	12,722.87	3,662.87	-3,625.19	838.67	3.02	MWD	WEATHERFORD
8/19/2015	16,207.00	90.77	182.62	12,721.24	3,757.39	-3,720.07	834.10	0.53	MWD	WEATHERFORD
8/19/2015	16,301.00	88.18	181.27	12,722.11	3,851.04	-3,814.00	830.91	3.11	MWD	WEATHERFORD
8/19/2015	16,396.00	89.72	182.16	12,723.85	3,945.72	-3,908.94	828.06	1.87	MWD	WEATHERFORD
8/19/2015	16,490.00	91.47	183.29	12,722.87	4,039.25	-4,002.82	823.59	2.22	MWD	WEATHERFORD
8/19/2015	16,585.00	91.19	183.63	12,720.66	4,133.65	-4,097.62	817.86	0.46	MWD	WEATHERFORD
8/19/2015	16,680.00	91.89	183.97	12,718.11	4,227.96	-4,192.38	811.57	0.82	MWD	WEATHERFORD
8/19/2015	16,774.00	90.77	182.31	12,715.93	4,321.41	-4,286.21	806.42	2.13	MWD	WEATHERFORD
8/19/2015	16,869.00	87.69	182.88	12,717.21	4,415.96	-4,381.09	802.12	3.30	MWD	WEATHERFORD
8/19/2015	16,963.00	86.50	183.18	12,721.97	4,509.34	-4,474.84	797.16	1.31	MWD	WEATHERFORD
8/19/2015	17,056.00	88.11	182.60	12,726.34	4,601.76	-4,567.61	792.48	1.84	MWD	WEATHERFORD
8/19/2015	17,150.00	87.91	182.31	12,729.61	4,695.29	-4,661.47	788.45	0.37	MWD	WEATHERFORD
8/19/2015	17,245.00	87.26	179.64	12,733.61	4,789.98	-4,756.36	786.84	2.89	MWD	WEATHERFORD
8/19/2015	17,339.00	89.16	179.81	12,736.55	4,883.83	-4,850.31	787.29	2.03	MWD	WEATHERFORD
8/19/2015	17,434.00	87.63	180.39	12,739.21	4,978.66	-4,945.27	787.12	1.72	MWD	WEATHERFORD
8/19/2015	17,528.00	89.09	180.45	12,741.90	5,072.47	-5,039.23	786.43	1.55	MWD	WEATHERFORD
8/19/2015	17,623.00	89.09	180.98	12,743.41	5,167.27	-5,134.21	785.25	0.56	MWD	WEATHERFORD
8/19/2015	17,718.00	90.07	180.55	12,744.10	5,262.07	-5,229.19	783.98	1.13	MWD	WEATHERFORD
8/19/2015	17,813.00	90.63	180.84	12,743.52	5,356.88	-5,324.18	782.83	0.66	MWD	WEATHERFORD
8/19/2015	17,905.00	90.28	181.84	12,742.79	5,448.63	-5,416.15	780.68	1.15	MWD	WEATHERFORD
8/19/2015	18,000.00	90.28	181.09	12,742.33	5,543.35	-5,511.12	778.25	0.79	MWD	WEATHERFORD
8/19/2015	18,094.00	88.25	181.02	12,743.53	5,637.12	-5,605.09	776.52	2.16	MWD	WEATHERFORD
8/19/2015	18,189.00	88.60	181.32	12,746.14	5,731.84	-5,700.04	774.58	0.49	MWD	WEATHERFORD
8/19/2015	18,284.00	90.70	181.50	12,746.73	5,826.57	-5,795.00	772.24	2.22	MWD	WEATHERFORD
8/19/2015	18,379.00	91.54	182.79	12,744.87	5,921.18	-5,889.91	768.69	1.62	MWD	WEATHERFORD
8/19/2015	18,474.00	88.33	181.44	12,744.98	6,015.80	-5,984.83	766.18	3.67	MWD	WEATHERFORD
8/19/2015	18,567.00	88.67	182.66	12,747.41	6,108.42	-6,077.74	761.85	1.36	MWD	WEATHERFORD
8/19/2015	18,663.00	88.40	182.81	12,749.86	6,203.93	-6,173.60	757.28	0.32	MWD	WEATHERFORD
8/19/2015	18,757.00	90.63	182.61	12,750.66	6,297.47	-6,267.49	752.83	2.38	MWD	WEATHERFORD
8/19/2015	18,852.00	91.75	182.24	12,748.69	6,392.04	-6,362.38	748.81	1.24	MWD	WEATHERFORD
8/19/2015	18,947.00	90.70	181.70	12,746.68	6,486.68	-6,457.30	745.55	1.24	MWD	WEATHERFORD
8/19/2015	19,041.00	89.16	181.26	12,746.77	6,580.40	-6,551.26	743.12	1.70	MWD	WEATHERFORD
8/19/2015	19,135.00	90.00	181.51	12,747.46	6,674.13	-6,645.23	740.85	0.93	MWD	WEATHERFORD
8/19/2015	19,230.00	87.28	180.52	12,749.71	6,768.88	-6,740.18	739.17	3.05	MWD	WEATHERFORD
8/19/2015	19,325.00	90.91	180.82	12,751.22	6,863.67	-6,835.15	738.06	3.83	MWD	WEATHERFORD
8/19/2015	19,420.00	90.98	181.71	12,749.65	6,958.40	-6,930.11	735.96	0.94	MWD	WEATHERFORD
8/19/2015	19,515.00	89.72	180.10	12,749.07	7,053.19	-7,025.09	734.46	2.15	MWD	WEATHERFORD
8/19/2015	19,595.00	91.82	181.68	12,747.99	7,133.00	-7,105.07	733.22	3.28	MWD	WEATHERFORD
8/19/2015	19,660.00	91.82	181.68	12,745.93	7,197.76	-7,170.01	731.31	0.00	BIT	WEATHERFORD