



Directional Survey

Well Name: CHILES 28 STATE 1Y

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 28-21S-34E	3002542600	32° 27' 21.688" N	103° 28' 54.732" W	3,742.00	3,717.00	25.00

Wellbores	Wellbore Name	Parent Wellbore	SAP Well ID	Vertical Section Direction (°)
	OH	OH	38546	179.10

Kick Offs & Key Depths	Date	Type	Top Depth (ftKB)
	6/20/2015	CURVE	10,291.0

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

Deviation Survey						
Date 6/5/2015		Description MWD				
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)	

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/5/2015	144.57	0.59	302.96	144.57	-0.41	0.40	-0.62	0.41	MWD	VAUHG N ENERGY SERVICES
6/5/2015	238.97	0.53	302.65	238.96	-0.93	0.90	-1.40	0.06	MWD	VAUHG N ENERGY SERVICES
6/5/2015	333.37	0.42	273.58	333.36	-1.20	1.16	-2.11	0.28	MWD	VAUHG N ENERGY SERVICES
6/5/2015	427.77	0.37	264.34	427.76	-1.20	1.15	-2.76	0.09	MWD	VAUHG N ENERGY SERVICES
6/5/2015	522.17	0.29	266.49	522.16	-1.16	1.11	-3.30	0.09	MWD	VAUHG N ENERGY SERVICES
6/5/2015	616.57	0.20	234.06	616.56	-1.06	1.00	-3.68	0.17	MWD	VAUHG N ENERGY SERVICES
6/5/2015	710.97	0.21	200.82	710.95	-0.80	0.74	-3.87	0.12	MWD	VAUHG N ENERGY SERVICES
6/5/2015	805.37	0.23	181.96	805.35	-0.45	0.39	-3.94	0.08	MWD	VAUHG N ENERGY SERVICES
6/5/2015	899.77	0.14	187.88	899.75	-0.15	0.08	-3.96	0.10	MWD	VAUHG N ENERGY SERVICES
6/5/2015	994.17	0.36	125.54	994.15	0.14	-0.20	-3.73	0.34	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,088.57	0.09	103.05	1,088.55	0.34	-0.39	-3.42	0.30	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,182.97	0.22	192.99	1,182.95	0.53	-0.58	-3.39	0.25	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,277.37	0.12	184.81	1,277.35	0.81	-0.86	-3.44	0.11	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,371.77	0.14	270.48	1,371.75	0.90	-0.96	-3.56	0.19	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,466.17	0.27	351.83	1,466.15	0.68	-0.74	-3.71	0.30	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,560.57	0.20	230.25	1,560.55	0.56	-0.62	-3.87	0.44	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,654.97	0.43	216.94	1,654.95	0.94	-1.01	-4.21	0.25	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,749.37	0.34	187.58	1,749.35	1.50	-1.57	-4.46	0.23	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,843.77	0.20	188.82	1,843.75	1.94	-2.01	-4.52	0.15	MWD	VAUHG N ENERGY SERVICES
6/5/2015	1,938.17	0.21	196.02	1,938.14	2.27	-2.34	-4.59	0.03	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,032.57	0.74	144.96	2,032.54	2.94	-3.01	-4.29	0.67	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,126.97	1.00	113.01	2,126.93	3.78	-3.83	-3.18	0.57	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,221.37	0.92	120.65	2,221.32	4.51	-4.53	-1.77	0.16	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,315.77	1.00	113.22	2,315.70	5.24	-5.25	-0.36	0.16	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,410.17	0.99	102.41	2,410.09	5.76	-5.75	1.19	0.20	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,504.57	0.92	124.00	2,504.48	6.39	-6.35	2.62	0.39	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,598.97	0.73	124.82	2,598.87	7.17	-7.11	3.74	0.20	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,693.37	0.61	125.33	2,693.26	7.82	-7.75	4.64	0.13	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,787.77	0.48	110.49	2,787.66	8.26	-8.18	5.42	0.20	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,882.17	0.43	107.55	2,882.05	8.52	-8.42	6.13	0.06	MWD	VAUHG N ENERGY SERVICES
6/5/2015	2,976.57	0.38	108.29	2,976.45	8.73	-8.63	6.76	0.05	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,070.97	0.34	53.87	3,070.85	8.67	-8.56	7.29	0.35	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,165.37	0.65	83.17	3,165.25	8.46	-8.33	8.05	0.41	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,259.77	0.81	89.57	3,259.64	8.41	-8.26	9.25	0.19	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,354.17	0.92	81.14	3,354.03	8.31	-8.14	10.66	0.18	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,448.57	0.97	76.33	3,448.42	8.02	-7.83	12.19	0.10	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,542.97	1.05	77.03	3,542.80	7.67	-7.45	13.81	0.09	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,637.37	1.07	75.03	3,637.18	7.27	-7.03	15.50	0.04	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,731.77	1.11	83.34	3,731.57	6.97	-6.70	17.26	0.17	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,826.17	0.88	93.80	3,825.95	6.93	-6.64	18.89	0.31	MWD	VAUHG N ENERGY SERVICES
6/5/2015	3,920.57	0.75	90.89	3,920.34	7.01	-6.69	20.23	0.14	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,014.97	0.75	98.93	4,014.74	7.14	-6.80	21.46	0.11	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,109.37	0.72	90.02	4,109.13	7.25	-6.90	22.66	0.13	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,203.77	0.59	108.25	4,203.52	7.42	-7.05	23.72	0.26	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,298.17	0.59	108.57	4,297.92	7.74	-7.36	24.64	0.00	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,392.57	0.22	77.95	4,392.31	7.87	-7.47	25.28	0.44	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,486.97	0.11	26.52	4,486.71	7.75	-7.35	25.50	0.18	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,581.37	0.57	270.34	4,581.11	7.66	-7.27	25.07	0.66	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,675.77	1.10	217.58	4,675.50	8.36	-7.99	24.05	0.93	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,770.17	1.14	208.48	4,769.89	9.89	-9.53	23.04	0.19	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,864.57	0.84	210.55	4,864.27	11.30	-10.95	22.25	0.32	MWD	VAUHG N ENERGY SERVICES
6/5/2015	4,958.97	0.78	201.99	4,958.66	12.48	-12.14	21.65	0.14	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,053.37	0.53	188.20	5,053.06	13.50	-13.17	21.35	0.31	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,147.77	0.48	184.26	5,147.45	14.33	-14.00	21.26	0.06	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,242.17	0.35	151.73	5,241.85	14.98	-14.64	21.37	0.28	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,336.57	0.28	153.96	5,336.25	15.44	-15.11	21.60	0.08	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,430.97	0.21	67.11	5,430.65	15.59	-15.25	21.86	0.36	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,525.37	0.35	98.27	5,525.05	15.57	-15.22	22.31	0.21	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,619.77	0.43	118.02	5,619.44	15.79	-15.43	22.91	0.16	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,714.17	0.08	310.92	5,713.84	15.91	-15.55	23.17	0.54	MWD	VAUHG N ENERGY SERVICES
6/5/2015	5,728.00	0.48	323.87	5,727.67	15.86	-15.50	23.13	2.91	MWD	EXTREME
6/5/2015	5,824.00	0.62	313.98	5,823.67	15.16	-14.81	22.52	0.18	MWD	EXTREME
6/5/2015	5,920.00	0.70	321.67	5,919.66	14.33	-13.99	21.78	0.12	MWD	EXTREME
6/5/2015	6,015.00	0.79	324.35	6,014.65	13.33	-13.00	21.04	0.10	MWD	EXTREME
6/5/2015	6,109.00	0.88	320.44	6,108.64	12.24	-11.92	20.20	0.11	MWD	EXTREME
6/5/2015	6,203.00	1.10	329.45	6,202.63	10.89	-10.59	19.28	0.29	MWD	EXTREME



Directional Survey

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Sub-Division DELAWARE BASIN		Region DELAWARE BASIN EAST		Field Name JOHNSON RANCH		County LEA		State/Province NM			
Surface Legal Location SEC 28-21S-34E		API/UWI 3002542600	Latitude (°) 32° 27' 21.688" N		Longitude (°) 103° 28' 54.732" W		Orig KB Elevation (ft) 3,742.00		Ground Elev MSL (ft) 3,717.00		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	
6/5/2015	6,298.00	1.01	326.37	6,297.61	9.39	-9.11	18.36	0.11	MWD	EXTREME	
6/5/2015	6,391.00	1.10	328.88	6,390.60	7.93	-7.66	17.44	0.11	MWD	EXTREME	
6/5/2015	6,482.00	1.01	328.18	6,481.58	6.49	-6.23	16.57	0.10	MWD	EXTREME	
6/5/2015	6,580.00	1.01	332.75	6,579.57	4.97	-4.73	15.71	0.08	MWD	EXTREME	
6/5/2015	6,674.00	1.01	329.67	6,673.55	3.51	-3.28	14.92	0.06	MWD	EXTREME	
6/5/2015	6,770.00	1.10	332.56	6,769.54	1.95	-1.73	14.07	0.11	MWD	EXTREME	
6/5/2015	6,864.00	1.10	343.88	6,863.52	0.27	-0.06	13.40	0.23	MWD	EXTREME	
6/5/2015	6,955.00	1.01	348.65	6,954.50	-1.36	1.57	13.00	0.14	MWD	EXTREME	
6/5/2015	7,049.00	1.01	353.18	7,048.49	-3.00	3.20	12.74	0.08	MWD	EXTREME	
6/5/2015	7,148.00	1.10	1.44	7,147.47	-4.82	5.02	12.66	0.18	MWD	EXTREME	
6/5/2015	7,242.00	1.01	356.17	7,241.46	-6.55	6.74	12.62	0.14	MWD	EXTREME	
6/5/2015	7,329.00	1.01	356.56	7,328.44	-8.08	8.28	12.53	0.01	MWD	EXTREME	
6/5/2015	7,431.00	0.88	2.54	7,430.43	-9.76	9.96	12.51	0.16	MWD	EXTREME	
6/5/2015	7,527.00	0.88	0.65	7,526.42	-11.23	11.43	12.55	0.03	MWD	EXTREME	
6/5/2015	7,621.00	0.79	346.37	7,620.41	-12.58	12.78	12.40	0.24	MWD	EXTREME	
6/5/2015	7,715.00	0.79	345.84	7,714.40	-13.85	14.04	12.09	0.01	MWD	EXTREME	
6/5/2015	7,810.00	0.70	342.06	7,809.39	-15.04	15.23	11.75	0.11	MWD	EXTREME	
6/5/2015	7,905.00	0.70	350.37	7,904.38	-16.17	16.35	11.48	0.11	MWD	EXTREME	
6/5/2015	7,996.00	0.79	335.47	7,995.38	-17.29	17.47	11.13	0.23	MWD	EXTREME	
6/5/2015	8,094.00	0.62	339.95	8,093.37	-18.41	18.58	10.66	0.18	MWD	EXTREME	
6/5/2015	8,188.00	0.62	9.66	8,187.36	-19.39	19.56	10.57	0.34	MWD	EXTREME	
6/5/2015	8,283.00	0.62	19.15	8,282.36	-20.38	20.55	10.83	0.11	MWD	EXTREME	
6/5/2015	8,377.00	0.40	29.17	8,376.36	-21.14	21.32	11.16	0.25	MWD	EXTREME	
6/5/2015	8,566.00	0.62	32.38	8,565.35	-22.57	22.76	12.02	0.12	MWD	EXTREME	
6/5/2015	8,660.00	0.62	28.64	8,659.34	-23.44	23.64	12.54	0.04	MWD	EXTREME	
6/5/2015	8,754.00	0.70	43.67	8,753.34	-24.29	24.50	13.18	0.20	MWD	EXTREME	
6/5/2015	8,848.00	0.88	39.54	8,847.33	-25.25	25.47	14.04	0.20	MWD	EXTREME	
6/5/2015	8,941.00	0.48	32.07	8,940.32	-26.12	26.35	14.70	0.44	MWD	EXTREME	
6/5/2015	9,034.00	0.40	56.15	9,033.32	-26.62	26.86	15.18	0.21	MWD	EXTREME	
6/5/2015	9,128.00	0.22	5.66	9,127.32	-26.98	27.22	15.47	0.33	MWD	EXTREME	
6/5/2015	9,223.00	0.31	176.48	9,222.32	-26.90	27.15	15.50	0.56	MWD	EXTREME	
6/5/2015	9,318.00	0.40	270.08	9,317.31	-26.65	26.89	15.18	0.55	MWD	EXTREME	
6/5/2015	9,510.00	0.70	294.07	9,509.31	-27.16	27.37	13.44	0.19	MWD	EXTREME	
6/5/2015	9,605.00	1.01	268.98	9,604.30	-27.40	27.59	12.08	0.50	MWD	EXTREME	
6/5/2015	9,699.00	1.41	262.87	9,698.27	-27.27	27.43	10.10	0.45	MWD	EXTREME	
6/5/2015	9,793.00	1.58	269.95	9,792.24	-27.17	27.29	7.66	0.27	MWD	EXTREME	
6/5/2015	9,888.00	1.41	251.27	9,887.21	-26.83	26.91	5.24	0.54	MWD	EXTREME	
6/5/2015	10,021.00	1.71	253.49	10,020.16	-25.79	25.82	1.79	0.23	MWD	WEATHERFORD	
6/5/2015	10,021.00	1.71	253.49	10,020.16	-25.79	25.82	1.79	0.23	MWD	WEATHERFORD	
6/5/2015	10,115.00	1.27	257.66	10,114.13	-25.21	25.20	-0.58	0.48	MWD	WEATHERFORD	
6/5/2015	10,115.00	1.27	257.66	10,114.13	-25.21	25.20	-0.58	0.48	MWD	WEATHERFORD	
6/5/2015	10,210.00	1.17	254.07	10,209.11	-24.75	24.71	-2.54	0.13	MWD	WEATHERFORD	
6/5/2015	10,210.00	1.17	254.07	10,209.11	-24.75	24.71	-2.54	0.13	MWD	WEATHERFORD	
6/5/2015	10,273.00	1.22	247.84	10,272.09	-24.34	24.28	-3.78	0.22	MWD	WEATHERFORD	
6/5/2015	10,273.00	1.22	247.84	10,272.09	-24.34	24.28	-3.78	0.22	MWD	WEATHERFORD	
6/5/2015	10,304.00	0.92	202.73	10,303.09	-23.99	23.93	-4.18	2.79	MWD	WEATHERFORD	
6/5/2015	10,336.00	2.70	183.79	10,335.07	-23.00	22.94	-4.33	5.79	MWD	WEATHERFORD	
6/5/2015	10,336.00	2.70	183.79	10,335.07	-23.00	22.94	-4.33	5.79	MWD	WEATHERFORD	
6/5/2015	10,367.00	4.24	186.45	10,366.01	-21.14	21.07	-4.50	4.99	MWD	WEATHERFORD	
6/5/2015	10,399.00	6.46	170.02	10,397.87	-18.19	18.12	-4.32	8.36	MWD	WEATHERFORD	
6/5/2015	10,430.00	8.92	163.15	10,428.59	-14.15	14.10	-3.33	8.46	MWD	WEATHERFORD	
6/5/2015	10,462.00	11.29	163.45	10,460.10	-8.75	8.73	-1.71	7.41	MWD	WEATHERFORD	
6/5/2015	10,493.00	13.79	163.33	10,490.35	-2.27	2.28	0.21	8.06	MWD	WEATHERFORD	
6/5/2015	10,525.00	15.59	161.59	10,521.31	5.50	-5.46	2.66	5.79	MWD	WEATHERFORD	
6/5/2015	10,553.00	17.43	160.73	10,548.15	13.07	-12.99	5.24	6.63	MWD	WEATHERFORD	
6/5/2015	10,588.00	20.08	159.77	10,581.29	23.71	-23.57	9.04	7.62	MWD	WEATHERFORD	
6/5/2015	10,620.00	23.98	160.81	10,610.95	35.08	-34.87	13.08	12.25	MWD	WEATHERFORD	
6/5/2015	10,651.00	27.47	162.46	10,638.87	47.91	-47.65	17.31	11.49	MWD	WEATHERFORD	
6/5/2015	10,683.00	30.58	164.31	10,666.85	62.86	-62.52	21.74	10.11	MWD	WEATHERFORD	
6/5/2015	10,714.00	32.49	165.42	10,693.27	78.57	-78.17	25.96	6.44	MWD	WEATHERFORD	
6/5/2015	10,746.00	34.30	165.47	10,719.99	95.69	-95.22	30.39	5.66	MWD	WEATHERFORD	
6/5/2015	10,777.00	37.26	164.71	10,745.13	113.27	-112.73	35.06	9.66	MWD	WEATHERFORD	
6/5/2015	10,808.00	40.08	164.03	10,769.33	132.00	-131.38	40.28	9.20	MWD	WEATHERFORD	
6/5/2015	10,840.00	41.87	163.67	10,793.49	152.24	-151.54	46.12	5.64	MWD	WEATHERFORD	
6/5/2015	10,871.00	43.79	165.02	10,816.23	172.62	-171.83	51.80	6.86	MWD	WEATHERFORD	
6/5/2015	10,903.00	48.06	164.43	10,838.48	194.89	-194.00	57.86	13.41	MWD	WEATHERFORD	
6/5/2015	10,935.00	52.95	165.80	10,858.83	218.84	-217.86	64.19	15.63	MWD	WEATHERFORD	
6/5/2015	10,966.00	57.77	166.74	10,876.44	243.70	-242.63	70.23	15.75	MWD	WEATHERFORD	
6/5/2015	10,997.00	63.70	167.74	10,891.59	270.16	-268.99	76.20	19.33	MWD	WEATHERFORD	
6/5/2015	11,029.00	68.09	169.85	10,904.66	298.89	-297.64	81.86	14.98	MWD	WEATHERFORD	
6/5/2015	11,061.00	71.03	172.77	10,915.83	328.59	-327.27	86.39	12.55	MWD	WEATHERFORD	
6/5/2015	11,092.00	73.87	176.01	10,925.18	358.04	-356.68	89.27	13.54	MWD	WEATHERFORD	
6/5/2015	11,124.00	77.78	177.85	10,933.02	389.04	-387.66	90.92	13.43	MWD	WEATHERFORD	
6/5/2015	11,153.00	82.84	179.17	10,937.90	417.61	-416.22	91.66	18.02	MWD	WEATHERFORD	
6/5/2015	11,184.00	85.45	179.27	10,941.06	448.45	-447.06	92.08	8.43	MWD	WEATHERFORD	
6/5/2015	11,216.00	87.06	178.93	10,943.15	480.38	-478.98	92.59	5.14	MWD	WEATHERFORD	
6/5/2015	11,279.00	87.76	179.13	10,946.00	543.31	-541.91	93.65	1.16	MWD	WEATHERFORD	



Directional Survey

Well Name: CHILES 28 STATE 1Y

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 28-21S-34E	3002542600	32° 27' 21.688" N	103° 28' 54.732" W	3,742.00	3,717.00	25.00

Survey Data										
Date	MD (ftKB)	Incl (°)	Azmi (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/5/2015	11,373.00	90.07	179.47	10,947.78	637.29	-635.88	94.80	2.48	MWD	WEATHERFORD
6/5/2015	11,468.00	90.56	180.23	10,947.26	732.28	-730.88	95.05	0.95	MWD	WEATHERFORD
6/5/2015	11,562.00	90.63	180.83	10,946.28	826.24	-824.87	94.18	0.64	MWD	WEATHERFORD
6/5/2015	11,657.00	90.35	181.21	10,945.47	921.19	-919.85	92.49	0.50	MWD	WEATHERFORD
6/5/2015	11,751.00	90.00	180.45	10,945.18	1,015.14	-1,013.84	91.13	0.89	MWD	WEATHERFORD
6/5/2015	11,846.00	89.37	180.91	10,945.70	1,110.10	-1,108.83	90.00	0.82	MWD	WEATHERFORD
6/5/2015	11,941.00	89.23	181.17	10,946.86	1,205.04	-1,203.80	88.27	0.31	MWD	WEATHERFORD
6/5/2015	12,035.00	88.25	180.82	10,948.93	1,298.97	-1,297.77	86.64	1.11	MWD	WEATHERFORD
6/5/2015	12,129.00	89.02	180.96	10,951.17	1,392.89	-1,391.73	85.18	0.83	MWD	WEATHERFORD
6/5/2015	12,224.00	91.54	179.16	10,950.70	1,487.87	-1,486.72	85.08	3.26	MWD	WEATHERFORD
6/5/2015	12,318.00	91.96	180.28	10,947.83	1,581.82	-1,580.67	85.54	1.27	MWD	WEATHERFORD
6/5/2015	12,412.00	92.09	180.95	10,944.51	1,675.73	-1,674.60	84.53	0.73	MWD	WEATHERFORD
6/5/2015	12,507.00	91.12	180.07	10,941.85	1,770.66	-1,769.56	83.69	1.38	MWD	WEATHERFORD
6/5/2015	12,601.00	90.42	179.40	10,940.59	1,864.64	-1,863.55	84.12	1.03	MWD	WEATHERFORD
6/5/2015	12,695.00	90.63	177.80	10,939.73	1,958.63	-1,957.52	86.42	1.72	MWD	WEATHERFORD
6/5/2015	12,790.00	90.42	177.80	10,938.86	2,053.60	-2,052.44	90.07	0.22	MWD	WEATHERFORD
6/5/2015	12,884.00	90.07	177.98	10,938.45	2,147.58	-2,146.38	93.53	0.42	MWD	WEATHERFORD
6/5/2015	12,979.00	90.07	177.84	10,938.34	2,242.56	-2,241.31	96.99	0.15	MWD	WEATHERFORD
6/5/2015	13,073.00	88.88	178.19	10,939.20	2,336.54	-2,335.25	100.25	1.32	MWD	WEATHERFORD
6/5/2015	13,168.00	87.48	179.08	10,942.22	2,431.48	-2,430.17	102.51	1.75	MWD	WEATHERFORD
6/5/2015	13,263.00	87.06	178.48	10,946.74	2,526.37	-2,525.04	104.53	0.77	MWD	WEATHERFORD
6/5/2015	13,357.00	85.51	178.52	10,952.83	2,620.17	-2,618.81	106.99	1.65	MWD	WEATHERFORD
6/5/2015	13,451.00	86.42	178.12	10,959.45	2,713.92	-2,712.54	109.74	1.06	MWD	WEATHERFORD
6/5/2015	13,546.00	84.54	179.19	10,966.93	2,808.62	-2,807.21	111.96	2.28	MWD	WEATHERFORD
6/5/2015	13,640.00	83.96	179.29	10,976.35	2,902.15	-2,900.73	113.20	0.63	MWD	WEATHERFORD
6/5/2015	13,735.00	85.45	177.79	10,985.12	2,996.73	-2,995.29	115.61	2.22	MWD	WEATHERFORD
6/5/2015	13,829.00	87.83	177.35	10,990.63	3,090.53	-3,089.03	119.59	2.57	MWD	WEATHERFORD
6/5/2015	13,924.00	88.46	177.15	10,993.70	3,185.43	-3,183.87	124.15	0.70	MWD	WEATHERFORD
6/5/2015	14,018.00	88.18	177.61	10,996.46	3,279.35	-3,277.73	128.44	0.57	MWD	WEATHERFORD
6/5/2015	14,112.00	87.90	177.84	10,999.67	3,373.26	-3,371.60	132.17	0.39	MWD	WEATHERFORD
6/5/2015	14,207.00	87.20	178.03	11,003.73	3,468.16	-3,466.46	135.59	0.76	MWD	WEATHERFORD
6/5/2015	14,301.00	88.18	178.06	11,007.52	3,562.06	-3,560.32	138.79	1.04	MWD	WEATHERFORD
6/5/2015	14,396.00	87.97	178.52	11,010.71	3,657.00	-3,655.23	141.63	0.53	MWD	WEATHERFORD
6/5/2015	14,490.00	88.32	179.01	11,013.76	3,750.95	-3,749.16	143.65	0.64	MWD	WEATHERFORD
6/5/2015	14,584.00	87.48	178.64	11,017.20	3,844.88	-3,843.07	145.58	0.98	MWD	WEATHERFORD
6/5/2015	14,679.00	88.04	177.80	11,020.91	3,939.80	-3,937.95	148.53	1.06	MWD	WEATHERFORD
6/5/2015	14,773.00	87.49	177.33	11,024.58	4,033.69	-4,031.79	152.52	0.77	MWD	WEATHERFORD
6/5/2015	14,868.00	86.85	177.31	11,029.27	4,128.53	-4,126.57	156.95	0.67	MWD	WEATHERFORD
6/5/2015	14,962.00	87.62	178.34	11,033.80	4,222.40	-4,220.40	160.52	1.37	MWD	WEATHERFORD
6/5/2015	15,057.00	87.13	179.40	11,038.16	4,317.29	-4,315.28	162.39	1.23	MWD	WEATHERFORD
6/5/2015	15,151.00	86.70	179.43	11,043.21	4,411.16	-4,409.13	163.35	0.46	MWD	WEATHERFORD
6/5/2015	15,245.00	85.94	179.01	11,049.25	4,504.96	-4,502.93	164.62	0.92	MWD	WEATHERFORD
6/5/2015	15,267.00	85.44	178.97	11,050.90	4,526.90	-4,524.87	165.01	2.28	MWD	WEATHERFORD
6/5/2015	15,338.00	85.44	178.97	11,056.55	4,597.67	-4,595.63	166.28	0.00	BIT	WEATHERFORD