



HOBBS OGD

MAR 18 2016

Well Name: THISTLE UNIT 30H

Sub-Division DELAWARE BASIN EAST		Region BASIN EAST		Field Name JOHNSON RANCH		County LEA		State/Province RECEIVED					
Surface Legal Location SEC 28-23S-33E		API/UWI 3002541147		Latitude (°) 32° 16' 55.88" N		Longitude (°) 103° 35' 4.49" W		Orig KB Elevation (ft) 3,704.50		Ground Elev MSL (ft) 3,681.00		KB - GL (ft) 23.50	

Wellbores			
Wellbore Name	Parent Wellbore	SAP Well ID	Vertical Section Direction (*)
OH	OH		179.59

Kick Offs & Key Depths				
Date 12/30/2015		Type CURVE		Top Depth (ftKB) 9,070.0
Actual Deviation Survey EXTREME, Proposed? No		Definitive? No	Proposed? No	Proposed Deviation Survey

Deviation Survey					
Date 12/21/2015		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
12/21/2...	152.00	0.10	346.70	152.00	-0.13	0.13	-0.03	0.07	MWD	EXTREME
12/21/2...	305.00	0.40	350.20	305.00	-0.79	0.79	-0.15	0.20	MWD	EXTREME
12/21/2...	445.00	0.50	74.20	445.00	-1.43	1.43	0.35	0.43	MWD	EXTREME
12/21/2...	586.00	0.20	237.60	585.99	-1.46	1.47	0.74	0.49	MWD	EXTREME
12/21/2...	770.00	0.30	224.30	769.99	-0.95	0.95	0.13	0.06	MWD	EXTREME
12/21/2...	955.00	0.60	196.30	954.99	0.32	-0.32	-0.48	0.20	MWD	EXTREME
12/21/2...	1,138.00	0.40	233.30	1,137.98	1.62	-1.63	-1.26	0.20	MWD	EXTREME
12/21/2...	1,322.00	0.40	253.10	1,321.98	2.18	-2.20	-2.39	0.07	MWD	EXTREME
12/21/2...	1,445.00	0.40	280.53	1,444.97	2.22	-2.24	-3.22	0.15	MWD	EXTREME
12/21/2...	1,628.00	0.48	288.83	1,627.97	1.85	-1.88	-4.58	0.06	MWD	EXTREME
12/21/2...	1,819.00	0.40	295.99	1,818.96	1.29	-1.33	-5.93	0.05	MWD	EXTREME
12/21/2...	2,010.00	0.31	284.92	2,009.96	0.85	-0.90	-7.03	0.06	MWD	EXTREME
12/21/2...	2,201.00	0.22	254.60	2,200.96	0.81	-0.87	-7.89	0.09	MWD	EXTREME
12/21/2...	2,390.00	0.09	156.29	2,389.96	1.04	-1.10	-8.18	0.13	MWD	EXTREME
12/21/2...	2,584.00	0.09	123.03	2,583.96	1.26	-1.32	-7.99	0.03	MWD	EXTREME
12/21/2...	2,772.00	0.22	344.82	2,771.95	1.00	-1.05	-7.96	0.16	MWD	EXTREME
12/21/2...	2,968.00	0.22	336.42	2,967.95	0.29	-0.35	-8.21	0.02	MWD	EXTREME
12/21/2...	3,158.00	0.31	297.01	3,157.95	-0.28	0.22	-8.81	0.10	MWD	EXTREME
12/21/2...	3,348.00	0.22	209.60	3,347.95	-0.21	0.14	-9.45	0.20	MWD	EXTREME
12/21/2...	3,539.00	0.22	89.32	3,538.95	0.11	-0.18	-9.26	0.20	MWD	EXTREME
12/21/2...	3,731.00	0.30	63.30	3,730.95	-0.11	0.05	-8.45	0.07	MWD	EXTREME
12/21/2...	3,921.00	0.60	32.72	3,920.94	-1.17	1.11	-7.46	0.20	MWD	EXTREME
12/21/2...	4,113.00	0.50	61.81	4,112.93	-2.40	2.36	-6.18	0.15	MWD	EXTREME
12/21/2...	4,304.00	0.80	59.70	4,303.92	-3.45	3.42	-4.30	0.16	MWD	EXTREME
12/21/2...	4,491.00	1.50	87.30	4,490.88	-4.20	4.20	-0.72	0.47	MWD	EXTREME
12/21/2...	4,591.00	1.60	84.00	4,590.85	-4.39	4.40	1.97	0.13	MWD	EXTREME
12/21/2...	4,685.00	2.00	94.81	4,684.80	-4.37	4.40	4.91	0.56	MWD	EXTREME
12/21/2...	4,777.00	2.60	97.80	4,776.73	-3.92	3.99	8.58	0.66	MWD	EXTREME
12/21/2...	4,874.00	2.30	109.09	4,873.64	-2.96	3.05	12.60	0.58	MWD	EXTREME
12/21/2...	4,971.00	1.80	127.29	4,970.58	-1.38	1.49	15.65	0.84	MWD	EXTREME
12/21/2...	5,067.00	1.80	126.63	5,066.53	0.45	-0.32	18.06	0.02	MWD	EXTREME
12/21/2...	5,195.00	1.70	125.53	5,194.47	2.78	-2.63	21.22	0.08	MWD	EXTREME
12/21/2...	5,309.00	1.85	124.96	5,308.41	4.83	-4.66	24.10	0.13	MWD	WETHERFORD
12/21/2...	5,500.00	1.84	123.36	5,499.32	8.32	-8.12	29.19	0.03	MWD	WETHERFORD
12/21/2...	5,691.00	1.61	135.47	5,690.23	11.95	-11.71	33.63	0.23	MWD	WETHERFORD
12/21/2...	5,882.00	1.66	137.51	5,881.15	15.93	-15.67	37.38	0.04	MWD	WETHERFORD
12/21/2...	6,073.00	1.88	132.43	6,072.06	20.12	-19.82	41.56	0.14	MWD	WETHERFORD
12/21/2...	6,264.00	0.73	146.87	6,263.01	23.27	-22.95	44.54	0.62	MWD	WETHERFORD
12/21/2...	6,455.00	0.73	149.92	6,453.99	25.35	-25.03	45.82	0.02	MWD	WETHERFORD
12/21/2...	6,646.00	0.55	126.96	6,644.98	26.97	-26.63	47.16	0.16	MWD	WETHERFORD
12/21/2...	6,837.00	0.38	110.57	6,835.97	27.75	-27.40	48.48	0.11	MWD	WETHERFORD
12/21/2...	7,028.00	0.14	149.18	7,026.97	28.18	-27.83	49.20	0.15	MWD	WETHERFORD
12/21/2...	7,218.00	0.43	159.47	7,216.97	29.05	-28.69	49.57	0.15	MWD	WETHERFORD
12/21/2...	7,409.00	0.41	140.98	7,407.96	30.25	-29.90	50.25	0.07	MWD	WETHERFORD
12/21/2...	7,600.00	0.80	151.66	7,598.95	31.97	-31.60	51.31	0.21	MWD	WETHERFORD
12/21/2...	7,791.00	0.70	129.06	7,789.94	33.89	-33.51	52.85	0.16	MWD	WETHERFORD
12/21/2...	7,982.00	0.78	120.76	7,980.92	35.30	-34.91	54.87	0.07	MWD	WETHERFORD
12/21/2...	8,173.00	1.07	153.85	8,171.90	37.58	-37.17	56.78	0.31	MWD	WETHERFORD
12/21/2...	8,356.00	0.98	175.23	8,354.87	40.68	-40.27	57.66	0.21	MWD	WETHERFORD
12/21/2...	8,547.00	1.02	175.94	8,545.84	44.00	-43.59	57.91	0.02	MWD	WETHERFORD
12/21/2...	8,738.00	1.05	170.94	8,736.81	47.43	-47.02	58.31	0.05	MWD	WETHERFORD
12/21/2...	8,929.00	1.00	180.56	8,927.78	50.83	-50.41	58.57	0.09	MWD	WETHERFORD
12/21/2...	9,025.00	0.76	180.51	9,023.77	52.30	-51.88	58.56	0.25	MWD	WETHERFORD
12/21/2...	9,088.00	4.35	193.66	9,086.69	55.04	-54.62	57.99	5.74	MWD	WETHERFORD
12/21/2...	9,120.00	8.64	195.64	9,118.48	58.53	-58.12	57.05	13.42	MWD	WETHERFORD
12/21/2...	9,152.00	12.70	193.83	9,149.92	64.25	-63.85	55.56	12.73	MWD	WETHERFORD
12/21/2...	9,184.00	15.56	190.23	9,180.95	71.88	-71.49	53.96	9.35	MWD	WETHERFORD
12/21/2...	9,216.00	18.00	190.92	9,211.59	80.95	-80.57	52.26	7.65	MWD	WETHERFORD
12/21/2...	9,264.00	21.24	189.20	9,256.79	96.79	-96.44	49.46	6.86	MWD	WETHERFORD
12/21/2...	9,312.00	26.12	186.96	9,300.74	115.86	-115.53	46.79	10.34	MWD	WETHERFORD
12/21/2...	9,360.00	31.39	186.16	9,342.81	138.77	-138.46	44.17	11.01	MWD	WETHERFORD
12/21/2...	9,407.00	37.33	184.80	9,381.59	165.15	-164.85	41.66	12.74	MWD	WETHERFORD

MAR 30 2016



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Sub-Division		Region		Field Name			County		State/Province				
DELAWARE BASIN EAST		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 28-23S-33E		3002541147		32° 16' 55.88" N		103° 35' 4.49" W		3,704.50		3,681.00		23.50	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
12/21/2...	9,455.00	42.84	183.64	9,418.30	195.94	-195.67	39.41	11.58	MWD	WETHERFORD			
12/21/2...	9,503.00	48.60	183.81	9,451.80	230.20	-229.94	37.17	12.00	MWD	WETHERFORD			
12/21/2...	9,550.00	53.47	184.24	9,481.34	266.63	-266.39	34.60	10.39	MWD	WETHERFORD			
12/21/2...	9,598.00	58.34	184.06	9,508.24	306.24	-306.02	31.73	10.15	MWD	WETHERFORD			
12/21/2...	9,646.00	63.11	184.31	9,531.71	347.96	-347.76	28.67	9.95	MWD	WETHERFORD			
12/21/2...	9,694.00	67.77	185.67	9,551.65	391.41	-391.24	24.87	10.04	MWD	WETHERFORD			
12/21/2...	9,742.00	71.65	186.71	9,568.30	436.12	-435.99	20.01	8.33	MWD	WETHERFORD			
12/21/2...	9,789.00	75.51	186.43	9,581.58	480.86	-480.77	14.85	8.23	MWD	WETHERFORD			
12/21/2...	9,837.00	80.52	187.28	9,591.54	527.42	-527.37	9.25	10.58	MWD	WETHERFORD			
12/21/2...	9,873.00	83.06	186.24	9,596.69	562.77	-562.75	5.05	7.61	MWD	WETHERFORD			
12/21/2...	9,937.00	88.25	184.23	9,601.53	626.26	-626.28	-0.76	8.69	MWD	WETHERFORD			
12/21/2...	9,969.00	89.86	182.35	9,602.06	658.18	-658.22	-2.60	7.73	MWD	WETHERFORD			
12/21/2...	10,064.00	91.47	182.22	9,600.96	753.07	-753.13	-6.39	1.70	MWD	WETHERFORD			
12/21/2...	10,160.00	90.21	180.72	9,599.55	849.00	-849.09	-8.85	2.04	MWD	WETHERFORD			
12/21/2...	10,255.00	90.42	180.41	9,599.03	943.99	-944.08	-9.79	0.39	MWD	WETHERFORD			
12/21/2...	10,351.00	89.58	180.36	9,599.03	1,039.98	-1,040.08	-10.43	0.88	MWD	WETHERFORD			
12/21/2...	10,446.00	89.58	180.67	9,599.72	1,134.96	-1,135.07	-11.29	0.33	MWD	WETHERFORD			
12/21/2...	10,542.00	90.00	179.05	9,600.08	1,230.96	-1,231.07	-11.05	1.74	MWD	WETHERFORD			
12/21/2...	10,638.00	89.65	177.21	9,600.37	1,326.92	-1,327.01	-7.92	1.95	MWD	WETHERFORD			
12/21/2...	10,733.00	89.44	177.25	9,601.12	1,421.84	-1,421.90	-3.33	0.23	MWD	WETHERFORD			
12/21/2...	10,829.00	89.72	177.46	9,601.83	1,517.76	-1,517.79	1.10	0.36	MWD	WETHERFORD			
12/21/2...	10,924.00	89.30	178.31	9,602.64	1,612.71	-1,612.72	4.61	1.00	MWD	WETHERFORD			
12/21/2...	11,020.00	89.37	178.16	9,603.75	1,708.68	-1,708.67	7.57	0.17	MWD	WETHERFORD			
12/21/2...	11,115.00	89.02	178.19	9,605.09	1,803.64	-1,803.61	10.59	0.37	MWD	WETHERFORD			
12/21/2...	11,211.00	89.79	179.28	9,606.09	1,899.62	-1,899.58	12.71	1.39	MWD	WETHERFORD			
12/21/2...	11,306.00	89.58	178.48	9,606.61	1,994.61	-1,994.56	14.57	0.87	MWD	WETHERFORD			
12/21/2...	11,402.00	90.07	178.64	9,606.90	2,090.60	-2,090.53	16.98	0.54	MWD	WETHERFORD			
12/21/2...	11,497.00	90.14	178.80	9,606.73	2,185.59	-2,185.51	19.10	0.18	MWD	WETHERFORD			
12/21/2...	11,592.00	90.77	179.27	9,605.97	2,280.58	-2,280.49	20.70	0.83	MWD	WETHERFORD			
12/21/2...	11,688.00	88.81	178.83	9,606.33	2,376.57	-2,376.47	22.29	2.09	MWD	WETHERFORD			
12/21/2...	11,783.00	88.11	178.30	9,608.88	2,471.52	-2,471.41	24.67	0.92	MWD	WETHERFORD			
12/21/2...	11,879.00	88.18	179.31	9,611.99	2,567.46	-2,567.33	26.67	1.05	MWD	WETHERFORD			
12/21/2...	11,974.00	88.25	179.18	9,614.95	2,662.41	-2,662.28	27.92	0.16	MWD	WETHERFORD			
12/21/2...	12,069.00	89.30	179.75	9,616.98	2,757.39	-2,757.25	28.81	1.26	MWD	WETHERFORD			
12/21/2...	12,165.00	89.65	179.54	9,617.86	2,853.38	-2,853.24	29.40	0.43	MWD	WETHERFORD			
12/21/2...	12,260.00	89.02	179.65	9,618.96	2,948.38	-2,948.24	30.08	0.67	MWD	WETHERFORD			
12/21/2...	12,356.00	89.23	179.82	9,620.42	3,044.36	-3,044.22	30.52	0.28	MWD	WETHERFORD			
12/21/2...	12,451.00	89.79	179.12	9,621.24	3,139.36	-3,139.21	31.40	0.94	MWD	WETHERFORD			
12/21/2...	12,547.00	90.49	178.72	9,621.00	3,235.35	-3,235.20	33.21	0.84	MWD	WETHERFORD			
12/21/2...	12,642.00	91.05	178.65	9,619.73	3,330.33	-3,330.16	35.39	0.59	MWD	WETHERFORD			
12/21/2...	12,738.00	91.26	178.93	9,617.79	3,426.30	-3,426.12	37.41	0.36	MWD	WETHERFORD			
12/21/2...	12,834.00	91.89	178.72	9,615.15	3,522.26	-3,522.06	39.38	0.69	MWD	WETHERFORD			
12/21/2...	12,929.00	91.26	179.72	9,612.54	3,617.22	-3,617.02	40.68	1.24	MWD	WETHERFORD			
12/21/2...	13,024.00	92.24	179.47	9,609.64	3,712.17	-3,711.97	41.35	1.06	MWD	WETHERFORD			
12/21/2...	13,120.00	89.65	179.81	9,608.06	3,808.15	-3,807.95	41.95	2.72	MWD	WETHERFORD			
12/21/2...	13,216.00	89.23	181.61	9,608.99	3,904.12	-3,903.93	40.76	1.93	MWD	WETHERFORD			
12/21/2...	13,311.00	87.41	180.64	9,611.78	3,999.04	-3,998.87	38.90	2.17	MWD	WETHERFORD			
12/21/2...	13,407.00	87.48	179.68	9,616.06	4,094.94	-4,094.77	38.63	1.00	MWD	WETHERFORD			
12/21/2...	13,502.00	88.25	179.61	9,619.60	4,189.87	-4,189.70	39.22	0.81	MWD	WETHERFORD			
12/21/2...	13,598.00	90.28	180.39	9,620.83	4,285.86	-4,285.69	39.22	2.27	MWD	WETHERFORD			
12/21/2...	13,693.00	91.05	180.58	9,619.73	4,380.84	-4,380.68	38.41	0.83	MWD	WETHERFORD			
12/21/2...	13,789.00	91.40	180.47	9,617.68	4,476.80	-4,476.65	37.53	0.38	MWD	WETHERFORD			
12/21/2...	13,885.00	90.70	180.47	9,615.92	4,572.78	-4,572.63	36.74	0.73	MWD	WETHERFORD			
12/21/2...	13,980.00	89.93	180.87	9,615.39	4,667.76	-4,667.62	35.63	0.91	MWD	WETHERFORD			
12/21/2...	14,076.00	89.86	181.14	9,615.57	4,763.73	-4,763.61	33.95	0.29	MWD	WETHERFORD			
12/21/2...	14,171.00	88.18	180.47	9,617.19	4,858.69	-4,858.58	32.62	1.90	MWD	WETHERFORD			
12/21/2...	14,267.00	86.71	179.51	9,621.47	4,954.59	-4,954.48	32.63	1.83	MWD	WETHERFORD			
12/21/2...	14,362.00	87.83	179.23	9,626.00	5,049.48	-5,049.37	33.68	1.22	MWD	WETHERFORD			
12/21/2...	14,458.00	88.53	178.39	9,629.05	5,145.42	-5,145.29	35.67	1.14	MWD	WETHERFORD			
12/21/2...	14,554.00	89.79	178.18	9,630.45	5,241.38	-5,241.24	38.54	1.33	MWD	WETHERFORD			
12/21/2...	14,649.00	89.44	177.00	9,631.09	5,336.32	-5,336.15	42.54	1.30	MWD	WETHERFORD			
12/21/2...	14,745.00	91.12	177.16	9,630.62	5,432.22	-5,432.02	47.43	1.76	MWD	WETHERFORD			
12/21/2...	14,815.00	91.61	177.32	9,628.96	5,502.14	-5,501.92	50.80	0.74	MWD	WETHERFORD			
12/21/2...	14,910.00	91.12	178.05	9,626.69	5,597.06	-5,596.82	54.63	0.93	MWD	WETHERFORD			
12/21/2...	15,006.00	90.77	177.89	9,625.11	5,693.01	-5,692.74	58.03	0.40	MWD	WETHERFORD			
12/21/2...	15,102.00	88.95	177.43	9,625.34	5,788.95	-5,788.66	61.95	1.96	MWD	WETHERFORD			
12/21/2...	15,197.00	88.53	176.92	9,627.43	5,883.84	-5,883.52	66.63	0.70	MWD	WETHERFORD			
12/21/2...	15,292.00	88.81	177.56	9,629.64	5,978.74	-5,978.38	71.20	0.74	MWD	WETHERFORD			
12/21/2...	15,388.00	89.09	177.34	9,631.40	6,074.66	-6,074.27	75.48	0.37	MWD	WETHERFORD			
12/21/2...	15,484.00	89.58	177.84	9,632.51	6,170.59	-6,170.18	79.51	0.73	MWD	WETHERFORD			
12/21/2...	15,579.00	89.79	178.39	9,633.03	6,265.56	-6,265.13	82.64	0.62	MWD	WETHERFORD			
12/21/2...	15,675.00	89.23	179.09	9,633.86	6,361.54	-6,361.10	84.75	0.93	MWD	WETHERFORD			
12/21/2...	15,770.00	89.30	179.53	9,635.07	6,456.53	-6,456.08	85.89	0.47	MWD	WETHERFORD			
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Well Name: THISTLE UNIT 30H

Sub-Division DELAWARE BASIN EAST	Region BASIN EAST	Field Name JOHNSON RANCH		County LEA	State/Province NM	
Surface Legal Location SEC 28-23S-33E	API/UWI 3002541147	Latitude (°) 32° 16' 55.88" N	Longitude (°) 103° 35' 4.49" W	Orig KB Elevation (ft) 3,704.50	Ground Elev MSL (ft) 3,681.00	KB - GL (ft) 23.50

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/21/2...	15,866.00	89.23	179.58	9,636.31	6,552.52	-6,552.07	86.64	0.09	MWD	WETHERFORD
12/21/2...	15,961.00	89.30	180.02	9,637.52	6,647.52	-6,647.06	86.97	0.47	MWD	WETHERFORD
12/21/2...	16,057.00	89.09	180.13	9,638.87	6,743.50	-6,743.05	86.84	0.25	MWD	WETHERFORD
12/21/2...	16,153.00	87.76	179.67	9,641.51	6,839.46	-6,839.02	87.01	1.47	MWD	WETHERFORD
12/21/2...	16,248.00	90.14	180.53	9,643.25	6,934.44	-6,933.99	86.84	2.66	MWD	WETHERFORD
12/21/2...	16,344.00	89.44	179.97	9,643.60	7,030.43	-7,029.99	86.43	0.93	MWD	WETHERFORD
12/21/2...	16,439.00	89.16	179.38	9,644.76	7,125.42	-7,124.98	86.96	0.69	MWD	WETHERFORD
12/21/2...	16,535.00	90.49	179.89	9,645.06	7,221.42	-7,220.97	87.58	1.48	MWD	WETHERFORD
12/21/2...	16,630.00	90.63	179.96	9,644.13	7,316.41	-7,315.97	87.70	0.16	MWD	WETHERFORD
12/21/2...	16,726.00	89.86	179.93	9,643.72	7,412.41	-7,411.97	87.79	0.80	MWD	WETHERFORD
12/21/2...	16,822.00	90.28	180.39	9,643.60	7,508.40	-7,507.97	87.52	0.65	MWD	WETHERFORD
12/21/2...	16,917.00	90.70	180.81	9,642.79	7,603.38	-7,602.96	86.53	0.63	MWD	WETHERFORD
12/21/2...	17,013.00	90.00	179.38	9,642.20	7,699.37	-7,698.95	86.37	1.66	MWD	WETHERFORD
12/21/2...	17,108.00	89.65	179.25	9,642.49	7,794.37	-7,793.95	87.51	0.39	MWD	WETHERFORD
12/21/2...	17,204.00	89.02	178.51	9,643.61	7,890.36	-7,889.92	89.38	1.01	MWD	WETHERFORD
12/21/2...	17,299.00	90.14	178.71	9,644.30	7,985.34	-7,984.89	91.69	1.20	MWD	WETHERFORD
12/21/2...	17,395.00	89.58	178.96	9,644.54	8,081.33	-8,080.87	93.64	0.64	MWD	WETHERFORD
12/21/2...	17,490.00	90.91	179.66	9,644.13	8,176.33	-8,175.86	94.78	1.58	MWD	WETHERFORD
12/21/2...	17,586.00	92.31	179.99	9,641.43	8,272.28	-8,271.82	95.08	1.50	MWD	WETHERFORD
12/21/2...	17,682.00	91.54	180.35	9,638.21	8,368.22	-8,367.76	94.79	0.89	MWD	WETHERFORD
12/21/2...	17,777.00	91.68	180.15	9,635.54	8,463.18	-8,462.72	94.38	0.26	MWD	WETHERFORD
12/21/2...	17,873.00	90.63	180.35	9,633.61	8,559.15	-8,558.70	93.96	1.11	MWD	WETHERFORD
12/21/2...	17,968.00	89.79	180.24	9,633.26	8,654.14	-8,653.70	93.47	0.89	MWD	WETHERFORD
12/21/2...	18,064.00	88.95	179.97	9,634.31	8,750.13	-8,749.69	93.29	0.92	MWD	WETHERFORD
12/21/2...	18,160.00	89.58	180.22	9,635.54	8,846.12	-8,845.68	93.13	0.71	MWD	WETHERFORD
12/21/2...	18,255.00	89.79	180.05	9,636.07	8,941.12	-8,940.68	92.91	0.28	MWD	WETHERFORD
12/21/2...	18,351.00	90.35	179.68	9,635.95	9,037.11	-9,036.68	93.14	0.70	MWD	WETHERFORD
12/21/2...	18,447.00	89.30	179.90	9,636.24	9,133.11	-9,132.68	93.49	1.12	MWD	WETHERFORD
12/21/2...	18,542.00	88.04	180.12	9,638.45	9,228.08	-9,227.65	93.47	1.35	MWD	WETHERFORD
12/21/2...	18,638.00	88.04	179.49	9,641.73	9,324.02	-9,323.59	93.80	0.66	MWD	WETHERFORD
12/21/2...	18,733.00	87.62	178.54	9,645.33	9,418.95	-9,418.51	95.43	1.09	MWD	WETHERFORD
12/21/2...	18,829.00	89.16	178.35	9,648.03	9,514.89	-9,514.43	98.03	1.62	MWD	WETHERFORD
12/21/2...	18,924.00	87.83	179.33	9,650.52	9,609.85	-9,609.38	99.96	1.74	MWD	WETHERFORD
12/21/2...	19,020.00	86.43	179.88	9,655.33	9,705.72	-9,705.25	100.62	1.57	MWD	WETHERFORD
12/21/2...	19,115.00	85.02	181.50	9,662.41	9,800.44	-9,799.97	99.48	2.26	MWD	WETHERFORD
12/21/2...	19,211.00	85.38	182.16	9,670.44	9,896.03	-9,895.59	96.42	0.78	MWD	WETHERFORD
12/21/2...	19,290.00	84.96	181.76	9,677.09	9,974.68	-9,974.26	93.73	0.73	MWD	WETHERFORD
12/21/2...	19,365.00	84.96	181.76	9,683.68	10,049.33	-10,048.94	91.44	0.00	BIT	WETHERFORD