



Directional Survey

DELAWARE BASIN WEST UNRESTRICTED

Well Name: COTTON DRAW UNIT 243H

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EDDY	State/Province NM						
Surface Legal Location SEC12 T25S R31E	APN/UMI 3001543599	Latitude (°) 32° 8' 39.413" N	Longitude (°) 103° 43' 30.451" W	Orig KB Elevation (ft) 3,446.10	Ground Elev MSL (ft) 3,422.60	KB - GL (ft) 23.50				
Wellbores										
Wellbore Name OH	Parent Wellbore	SAP Well ID 39300	Vertical Section Direction (°) 359.76							
Kick Offs & Key Depths										
Date 2/3/2016	Type CURVE	Top Depth (ftKB) 9,861.0								
Actual Deviation Survey LEAM, Proposed? No	Definitive? Yes	Proposed? No	Proposed Deviation Survey							
Deviation Survey										
Date 1/27/2016	Description LEAM									
MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 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
1/27/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	VAUHGN ENERGY SERVICES
1/27/2016	25.00	0.28	334.53	25.00	0.06	0.06	-0.03	1.12	MWD	VAUHGN ENERGY SERVICES
1/27/2016	50.00	0.17	277.68	50.00	0.12	0.12	-0.09	0.94	MWD	VAUHGN ENERGY SERVICES
1/27/2016	75.00	0.03	304.84	75.00	0.12	0.12	-0.13	0.58	MWD	VAUHGN ENERGY SERVICES
1/27/2016	100.00	0.24	21.35	100.00	0.18	0.18	-0.12	0.94	MWD	VAUHGN ENERGY SERVICES
1/27/2016	125.00	0.42	356.23	125.00	0.32	0.32	-0.10	0.91	MWD	VAUHGN ENERGY SERVICES
1/27/2016	150.00	0.35	326.22	150.00	0.47	0.47	-0.15	0.84	MWD	VAUHGN ENERGY SERVICES
1/27/2016	175.00	0.31	337.12	175.00	0.60	0.60	-0.22	0.30	MWD	VAUHGN ENERGY SERVICES
1/27/2016	200.00	0.36	337.46	200.00	0.73	0.73	-0.28	0.20	MWD	VAUHGN ENERGY SERVICES
1/27/2016	225.00	0.29	344.13	225.00	0.87	0.87	-0.33	0.32	MWD	VAUHGN ENERGY SERVICES
1/27/2016	250.00	0.21	344.49	250.00	0.97	0.97	-0.36	0.32	MWD	VAUHGN ENERGY SERVICES
1/27/2016	275.00	0.19	179.68	275.00	0.97	0.97	-0.37	1.59	MWD	VAUHGN ENERGY SERVICES
1/27/2016	300.00	0.45	186.98	300.00	0.84	0.83	-0.38	1.05	MWD	VAUHGN ENERGY SERVICES
1/27/2016	325.00	0.77	192.17	325.00	0.57	0.57	-0.43	1.30	MWD	VAUHGN ENERGY SERVICES
1/27/2016	350.00	1.02	187.86	349.99	0.19	0.19	-0.49	1.03	MWD	VAUHGN ENERGY SERVICES
1/27/2016	375.00	1.42	189.46	374.99	-0.34	-0.34	-0.57	1.61	MWD	VAUHGN ENERGY SERVICES
1/27/2016	400.00	1.64	190.67	399.98	-0.99	-1.00	-0.69	0.88	MWD	VAUHGN ENERGY SERVICES
1/27/2016	425.00	1.98	191.54	424.97	-1.77	-1.77	-0.84	1.36	MWD	VAUHGN ENERGY SERVICES
1/27/2016	450.00	2.30	185.58	449.95	-2.67	-2.68	-1.06	1.41	MWD	VAUHGN ENERGY SERVICES
1/27/2016	475.00	2.56	193.34	474.93	-3.70	-3.70	-1.33	1.11	MWD	VAUHGN ENERGY SERVICES
1/27/2016	502.00	2.71	200.70	501.90	-4.88	-4.89	-1.69	1.37	MWD	VAUHGN ENERGY SERVICES
1/27/2016	614.00	3.00	202.99	613.76	-10.05	-10.06	-3.77	0.28	MWD	VAUHGN ENERGY SERVICES
1/27/2016	650.00	2.90	204.09	649.71	-11.74	-11.76	-4.51	0.32	MWD	VAUHGN ENERGY SERVICES
1/27/2016	799.00	3.30	210.30	798.49	-18.87	-18.90	-8.22	0.35	MWD	LEAM
1/27/2016	983.00	3.40	207.90	982.18	-28.24	-28.30	-13.44	0.09	MWD	LEAM
1/27/2016	1,166.00	2.60	206.60	1,164.93	-36.73	-36.81	-17.84	0.44	MWD	LEAM
1/27/2016	1,355.00	2.30	212.40	1,353.75	-43.75	-43.84	-21.79	0.21	MWD	LEAM
1/27/2016	1,546.00	1.60	212.80	1,544.64	-49.21	-49.32	-25.29	0.37	MWD	LEAM
1/27/2016	1,737.00	1.50	215.80	1,735.57	-53.47	-53.59	-28.19	0.07	MWD	LEAM
1/27/2016	1,928.00	1.10	193.50	1,926.52	-57.27	-57.40	-30.08	0.33	MWD	LEAM
1/27/2016	2,120.00	1.10	211.40	2,118.49	-60.63	-60.76	-31.48	0.18	MWD	LEAM
1/27/2016	2,311.00	0.90	201.70	2,309.46	-63.58	-63.72	-32.99	0.14	MWD	LEAM
1/27/2016	2,502.00	0.60	177.10	2,500.44	-65.97	-66.11	-33.49	0.23	MWD	LEAM
1/27/2016	2,694.00	0.50	189.40	2,692.43	-67.80	-67.95	-33.56	0.08	MWD	LEAM
1/27/2016	2,885.00	0.70	158.50	2,883.42	-69.72	-69.86	-33.25	0.19	MWD	LEAM
1/27/2016	3,076.00	0.50	159.70	3,074.41	-71.59	-71.72	-32.54	0.10	MWD	LEAM
1/27/2016	3,268.00	0.40	113.30	3,266.41	-72.64	-72.77	-31.63	0.19	MWD	LEAM
1/27/2016	3,459.00	0.50	127.90	3,457.40	-73.42	-73.55	-30.36	0.08	MWD	LEAM
1/27/2016	3,650.00	0.80	133.00	3,648.39	-74.85	-74.97	-28.73	0.18	MWD	LEAM
1/27/2016	3,841.00	1.10	139.50	3,839.36	-77.16	-77.27	-26.56	0.17	MWD	LEAM
1/27/2016	4,032.00	1.80	178.00	4,030.30	-81.56	-81.67	-25.27	0.61	MWD	LEAM
1/27/2016	4,224.00	1.90	192.10	4,222.21	-87.68	-87.79	-25.83	0.24	MWD	LEAM
1/27/2016	4,360.00	1.70	191.00	4,358.14	-91.88	-91.98	-26.69	0.15	MWD	LEAM
1/27/2016	4,507.00	1.30	187.70	4,505.09	-95.65	-95.77	-27.33	0.28	MWD	LEAM
1/27/2016	4,603.00	1.20	193.60	4,601.07	-97.71	-97.83	-27.71	0.17	MWD	LEAM
1/27/2016	4,699.00	1.10	193.10	4,697.05	-99.58	-99.70	-28.15	0.10	MWD	LEAM
1/27/2016	4,794.00	1.10	182.90	4,792.03	-101.38	-101.50	-28.41	0.21	MWD	LEAM
1/27/2016	4,890.00	1.10	186.30	4,888.01	-103.22	-103.34	-28.55	0.07	MWD	LEAM
1/27/2016	4,985.00	0.40	16.10	4,983.01	-103.80	-103.92	-28.56	1.57	MWD	LEAM
1/27/2016	5,081.00	0.50	31.20	5,079.00	-103.12	-103.24	-28.25	0.16	MWD	LEAM
1/27/2016	5,177.00	0.40	50.00	5,175.00	-102.55	-102.67	-27.78	0.18	MWD	LEAM
1/27/2016	5,272.00	0.50	38.10	5,270.00	-102.02	-102.13	-27.27	0.14	MWD	LEAM
1/27/2016	5,368.00	0.50	28.40	5,365.99	-101.32	-101.43	-26.81	0.09	MWD	LEAM
1/27/2016	5,464.00	0.40	39.10	5,461.99	-100.69	-100.80	-26.40	0.14	MWD	LEAM
1/27/2016	5,559.00	0.50	31.80	5,556.99	-100.08	-100.19	-25.97	0.12	MWD	LEAM
1/27/2016	5,655.00	0.50	50.60	5,652.98	-99.46	-99.57	-25.43	0.17	MWD	LEAM
1/27/2016	5,751.00	0.60	39.00	5,748.98	-98.81	-98.92	-24.79	0.16	MWD	LEAM
1/27/2016	5,846.00	0.50	14.90	5,843.98	-98.03	-98.13	-24.37	0.26	MWD	LEAM
1/27/2016	5,942.00	0.50	25.10	5,939.97	-97.24	-97.34	-24.08	0.09	MWD	LEAM
1/27/2016	6,037.00	0.40	2.70	6,034.97	-96.54	-96.64	-23.89	0.21	MWD	LEAM
1/27/2016	6,133.00	0.30	347.10	6,130.97	-95.96	-96.06	-23.93	0.14	MWD	LEAM
1/27/2016	6,229.00	0.20	326.20	6,226.97	-95.57	-95.67	-24.08	0.14	MWD	LEAM
1/27/2016	6,324.00	0.10	265.70	6,321.97	-95.44	-95.54	-24.26	0.18	MWD	LEAM
1/27/2016	6,420.00	0.40	193.80	6,417.97	-95.77	-95.87	-24.42	0.40	MWD	LEAM
1/27/2016	6,516.00	0.60	171.70	6,513.96	-96.59	-96.70	-24.43	0.29	MWD	LEAM
1/27/2016	6,611.00	0.60	169.20	6,608.96	-97.58	-97.68	-24.26	0.03	MWD	LEAM

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Well Name: COTTON DRAW UNIT 243H

Sub-Division	Region	Field Name	County	State/Province
DELAWARE BASIN WEST	BASIN WEST	PADUCA	EDDY	NM
Surface Legal Location	API#	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)
SEC12 T25S R31E	3001543599	32° 8' 39.413" N	103° 43' 30.451" W	3,446.10
				Ground Elev MSL (ft)
				3,422.60
				KB - GL (ft)
				23.50

Survey Data

Date	MD (ft/KB)	Ind (°)	Azm (°)	TVD (ft/KB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/27/2016	6,707.00	0.80	166.20	6,704.95	-98.72	-98.82	-24.01	0.21	MWD	LEAM
1/27/2016	6,802.00	0.40	90.50	6,799.94	-99.37	-99.47	-23.52	0.84	MWD	LEAM
1/27/2016	6,898.00	0.40	10.00	6,895.94	-99.04	-99.14	-23.13	0.54	MWD	LEAM
1/27/2016	6,994.00	0.30	11.50	6,991.94	-98.47	-98.57	-23.02	0.10	MWD	LEAM
1/27/2016	7,089.00	0.20	331.10	7,086.94	-98.08	-98.18	-23.05	0.21	MWD	LEAM
1/27/2016	7,185.00	0.30	335.30	7,182.94	-97.70	-97.80	-23.23	0.11	MWD	LEAM
1/27/2016	7,281.00	0.10	234.40	7,278.94	-97.52	-97.62	-23.41	0.35	MWD	LEAM
1/27/2016	7,376.00	0.10	163.20	7,373.94	-97.65	-97.75	-23.45	0.12	MWD	LEAM
1/27/2016	7,472.00	0.30	167.10	7,469.94	-97.98	-98.08	-23.37	0.21	MWD	LEAM
1/27/2016	7,568.00	0.80	25.60	7,565.94	-97.62	-97.72	-23.03	1.10	MWD	LEAM
1/27/2016	7,663.00	0.90	22.60	7,660.93	-96.33	-96.43	-22.45	0.12	MWD	LEAM
1/27/2016	7,759.00	0.60	47.60	7,756.92	-95.30	-95.39	-21.79	0.46	MWD	LEAM
1/27/2016	7,854.00	0.30	79.20	7,851.91	-94.92	-95.01	-21.18	0.40	MWD	LEAM
1/27/2016	7,950.00	0.20	69.40	7,947.91	-94.82	-94.91	-20.78	0.11	MWD	LEAM
1/27/2016	8,046.00	0.00	93.60	8,043.91	-94.76	-94.85	-20.62	0.21	MWD	LEAM
1/27/2016	8,141.00	0.10	77.10	8,138.91	-94.74	-94.83	-20.54	0.11	MWD	LEAM
1/27/2016	8,237.00	0.00	177.30	8,234.91	-94.72	-94.81	-20.46	0.10	MWD	LEAM
1/27/2016	8,333.00	0.20	240.60	8,330.91	-94.80	-94.89	-20.60	0.21	MWD	LEAM
1/27/2016	8,428.00	0.40	255.90	8,425.91	-94.97	-95.05	-21.07	0.22	MWD	LEAM
1/27/2016	8,524.00	0.60	335.10	8,521.91	-94.59	-94.68	-21.60	0.68	MWD	LEAM
1/27/2016	8,620.00	0.20	0.10	8,617.91	-93.96	-94.06	-21.82	0.44	MWD	LEAM
1/27/2016	8,715.00	1.20	204.70	8,712.90	-94.70	-94.79	-22.23	1.46	MWD	LEAM
1/27/2016	8,811.00	1.30	227.40	8,808.88	-96.35	-96.44	-23.45	0.52	MWD	LEAM
1/27/2016	8,907.00	1.30	311.20	8,904.86	-96.36	-96.46	-25.07	1.81	MWD	LEAM
1/27/2016	9,002.00	1.10	327.10	8,999.84	-94.88	-94.99	-26.38	0.41	MWD	LEAM
1/27/2016	9,098.00	1.40	328.80	9,095.82	-93.10	-93.21	-27.49	0.31	MWD	LEAM
1/27/2016	9,194.00	1.80	340.20	9,191.78	-90.67	-90.79	-28.61	0.53	MWD	LEAM
1/27/2016	9,289.00	1.90	353.10	9,286.73	-87.70	-87.82	-29.30	0.45	MWD	LEAM
1/27/2016	9,385.00	1.70	0.60	9,382.68	-84.70	-84.82	-29.48	0.32	MWD	LEAM
1/27/2016	9,480.00	1.40	357.50	9,477.65	-82.13	-82.25	-29.51	0.33	MWD	LEAM
1/27/2016	9,576.00	0.80	318.30	9,573.63	-80.45	-80.58	-30.01	0.97	MWD	LEAM
1/27/2016	9,672.00	1.50	262.00	9,669.61	-80.12	-80.25	-31.70	1.30	MWD	LEAM
1/27/2016	9,767.00	2.10	223.50	9,764.57	-81.55	-81.69	-34.13	1.38	MWD	LEAM
1/27/2016	9,806.00	2.10	226.30	9,803.54	-82.55	-82.70	-35.14	0.26	MWD	LEAM
1/27/2016	9,931.00	7.70	2.20	9,928.21	-75.75	-75.90	-36.48	7.46	MWD	LEAM
1/27/2016	10,026.00	21.50	356.40	10,019.93	-51.89	-52.05	-37.33	14.59	MWD	LEAM
1/27/2016	10,071.00	28.80	355.90	10,060.63	-32.82	-32.98	-38.62	16.23	MWD	LEAM
1/27/2016	10,122.00	35.20	359.00	10,103.87	-5.84	-6.00	-39.76	12.95	MWD	LEAM
1/27/2016	10,167.00	40.10	359.60	10,139.48	21.64	21.47	-40.09	10.92	MWD	LEAM
1/27/2016	10,218.00	44.80	359.60	10,177.10	56.05	55.89	-40.33	9.22	MWD	LEAM
1/27/2016	10,265.00	50.70	1.50	10,208.69	80.82	80.66	-39.97	12.90	MWD	LEAM
1/27/2016	10,314.00	54.30	3.10	10,238.52	129.65	129.49	-38.39	7.79	MWD	LEAM
1/27/2016	10,361.00	58.80	3.80	10,264.42	168.77	168.62	-36.03	9.65	MWD	LEAM
1/27/2016	10,409.00	63.90	4.10	10,287.43	210.77	210.63	-33.13	10.64	MWD	LEAM
1/27/2016	10,456.00	68.00	4.50	10,308.58	253.55	253.42	-29.91	8.76	MWD	LEAM
1/27/2016	10,505.00	72.20	5.00	10,323.25	299.43	299.33	-26.09	8.62	MWD	LEAM
1/27/2016	10,552.00	75.40	5.20	10,336.36	344.37	344.28	-22.08	6.82	MWD	LEAM
1/27/2016	10,601.00	78.60	5.70	10,347.38	391.87	391.80	-17.54	6.61	MWD	LEAM
1/27/2016	10,632.00	81.10	6.10	10,352.85	422.21	422.15	-14.40	8.16	MWD	LEAM
1/27/2016	10,747.00	88.40	2.00	10,363.37	536.30	536.28	-6.35	7.27	MWD	LEAM
1/27/2016	10,843.00	91.00	1.30	10,363.87	632.24	632.23	-3.58	2.80	MWD	LEAM
1/27/2016	10,938.00	90.00	1.30	10,363.04	727.20	727.20	-1.43	1.05	MWD	LEAM
1/27/2016	11,034.00	89.30	358.90	10,363.63	823.19	823.19	-1.26	2.60	MWD	LEAM
1/27/2016	11,130.00	89.10	358.00	10,364.97	919.15	919.15	-3.86	0.96	MWD	LEAM
1/27/2016	11,225.00	90.50	359.80	10,365.30	1,014.14	1,014.12	-5.66	2.40	MWD	LEAM
1/27/2016	11,321.00	90.10	359.60	10,364.79	1,110.14	1,110.12	-6.18	0.47	MWD	LEAM
1/27/2016	11,416.00	88.10	358.20	10,366.29	1,205.11	1,205.08	-8.01	2.57	MWD	LEAM
1/27/2016	11,512.00	89.70	358.50	10,368.13	1,301.08	1,301.02	-10.77	1.70	MWD	LEAM
1/27/2016	11,608.00	88.20	358.70	10,369.89	1,397.02	1,396.97	-13.11	1.58	MWD	LEAM
1/27/2016	11,703.00	88.90	358.90	10,372.29	1,491.97	1,491.92	-15.10	0.77	MWD	LEAM
1/27/2016	11,799.00	90.40	359.20	10,372.88	1,587.96	1,587.90	-16.70	1.59	MWD	LEAM
1/27/2016	11,894.00	89.90	358.70	10,372.63	1,682.95	1,682.89	-18.44	0.74	MWD	LEAM
2/7/2016	11,990.00	88.60	358.90	10,373.89	1,778.93	1,778.86	-20.45	1.37	MWD	LEAM
2/7/2016	12,086.00	89.30	358.90	10,375.65	1,874.90	1,874.82	-22.29	0.73	MWD	LEAM
2/7/2016	12,181.00	88.70	358.50	10,377.30	1,969.87	1,969.78	-24.44	0.76	MWD	LEAM
2/7/2016	12,277.00	89.70	358.50	10,378.64	2,065.83	2,065.74	-26.96	1.04	MWD	LEAM
2/7/2016	12,373.00	87.20	359.00	10,381.24	2,161.78	2,161.67	-29.05	2.66	MWD	LEAM
2/7/2016	12,468.00	87.20	359.00	10,385.88	2,256.65	2,256.55	-30.71	0.00	MWD	LEAM
2/7/2016	12,564.00	88.50	359.90	10,389.48	2,352.58	2,352.47	-31.63	1.65	MWD	LEAM
2/7/2016	12,660.00	90.00	0.30	10,390.74	2,448.57	2,448.46	-31.46	1.62	MWD	LEAM
2/7/2016	12,755.00	90.00	0.50	10,390.74	2,543.56	2,543.46	-30.80	0.21	MWD	LEAM
2/7/2016	12,851.00	89.80	359.90	10,390.91	2,639.56	2,639.46	-30.46	0.66	MWD	LEAM
2/7/2016	12,946.00	89.40	359.00	10,391.57	2,734.55	2,734.45	-31.37	1.04	MWD	LEAM
2/7/2016	13,042.00	90.10	358.30	10,391.99	2,830.53	2,830.42	-33.63	1.03	MWD	LEAM
2/7/2016	13,138.00	91.90	359.60	10,390.31	2,926.50	2,926.38	-35.39	2.31	MWD	LEAM
2/7/2016	13,233.00	90.30	358.90	10,388.49	3,021.48	3,021.35	-36.64	1.84	MWD	LEAM
2/7/2016	13,329.00	89.30	358.50	10,386.83	3,117.46	3,117.33	-38.81	1.12	MWD	LEAM



Well Name: COTTON DRAW UNIT 243H

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EDDY	State/Province NM
Surface Legal Location SEC12 T25S R31E	API/UWI 3001543599	Latitude (°) 32° 8' 39.413" N	Longitude (°) 103° 43' 30.451" W	Orig KB Elevation (ft) 3,446.10
				Ground Elev MSL (ft) 3,422.60
				KB - GL (ft) 23.50

Survey Data

Date	MD (ft/KB)	Incl (°)	Azm (°)	TVD (ft/KB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
2/7/2016	13,425.00	88.80	357.60	10,390.42	3,213.40	3,213.26	-42.08	1.07	MWD	LEAM
2/7/2016	13,520.00	89.40	358.50	10,391.91	3,308.35	3,308.19	-45.31	1.14	MWD	LEAM
2/8/2016	13,616.00	90.70	359.40	10,391.83	3,404.34	3,404.17	-47.07	1.65	MWD	LEAM
2/8/2016	13,712.00	89.90	359.40	10,391.32	3,500.33	3,500.16	-48.08	0.83	MWD	LEAM
2/8/2016	13,807.00	90.40	359.60	10,391.07	3,595.33	3,595.16	-48.91	0.57	MWD	LEAM
2/8/2016	13,903.00	92.00	0.50	10,389.06	3,691.30	3,691.13	-48.82	1.91	MWD	LEAM
2/8/2016	13,998.00	89.70	0.10	10,387.65	3,786.28	3,786.11	-48.33	2.46	MWD	LEAM
2/8/2016	14,094.00	90.10	0.10	10,387.82	3,882.28	3,882.11	-48.16	0.42	MWD	LEAM
2/8/2016	14,190.00	87.90	0.60	10,389.50	3,978.25	3,978.09	-47.57	2.35	MWD	LEAM
2/8/2016	14,285.00	88.90	1.50	10,392.15	4,073.19	4,073.04	-45.83	1.42	MWD	LEAM
2/8/2016	14,381.00	91.30	4.30	10,391.98	4,169.03	4,168.90	-40.98	3.84	MWD	LEAM
2/8/2016	14,477.00	90.00	2.60	10,390.89	4,264.82	4,264.71	-35.20	2.23	MWD	LEAM
2/8/2016	14,572.00	89.30	0.80	10,391.47	4,359.76	4,359.66	-32.38	2.03	MWD	LEAM
2/8/2016	14,668.00	89.90	0.30	10,392.14	4,455.75	4,455.65	-31.46	0.81	MWD	LEAM
2/8/2016	14,763.00	88.60	359.40	10,393.39	4,550.74	4,550.64	-31.71	1.66	MWD	LEAM
2/8/2016	14,859.00	89.60	359.90	10,394.90	4,646.72	4,646.63	-32.29	1.16	MWD	LEAM
2/8/2016	14,955.00	88.50	359.20	10,396.49	4,742.71	4,742.61	-33.05	1.36	MWD	LEAM
2/8/2016	15,050.00	89.10	359.80	10,398.48	4,837.68	4,837.58	-33.88	0.89	MWD	LEAM
2/8/2016	15,146.00	88.20	359.80	10,400.74	4,933.66	4,933.56	-34.21	0.94	MWD	LEAM
2/8/2016	15,242.00	89.90	1.90	10,402.33	5,029.62	5,029.52	-32.79	2.81	MWD	LEAM
2/8/2016	15,337.00	88.80	1.50	10,403.41	5,124.55	5,124.47	-29.97	1.23	MWD	LEAM
2/8/2016	15,433.00	88.70	1.20	10,405.50	5,220.49	5,220.42	-27.71	0.33	MWD	LEAM
2/8/2016	15,529.00	89.30	1.30	10,407.18	5,316.45	5,316.39	-25.61	0.63	MWD	LEAM
2/9/2016	15,624.00	89.10	2.00	10,408.50	5,411.39	5,411.34	-22.88	0.77	MWD	LEAM
2/9/2016	15,720.00	88.90	2.40	10,410.18	5,507.28	5,507.25	-19.19	0.47	MWD	LEAM
2/9/2016	15,816.00	88.40	0.50	10,412.44	5,603.21	5,603.19	-16.77	2.05	MWD	LEAM
2/9/2016	15,911.00	89.70	1.00	10,414.02	5,698.18	5,698.17	-15.52	1.47	MWD	LEAM
2/9/2016	16,007.00	90.20	1.70	10,414.10	5,794.14	5,794.14	-13.26	0.90	MWD	LEAM
2/9/2016	16,102.00	90.00	0.50	10,413.93	5,889.11	5,889.12	-11.44	1.28	MWD	LEAM
2/9/2016	16,198.00	89.30	358.30	10,414.52	5,985.10	5,985.10	-12.44	2.40	MWD	LEAM
2/9/2016	16,294.00	89.80	358.00	10,415.27	6,081.06	6,081.05	-15.54	0.61	MWD	LEAM
2/9/2016	16,389.00	90.70	358.30	10,414.86	6,176.02	6,176.00	-18.61	1.00	MWD	LEAM
2/9/2016	16,485.00	91.20	358.90	10,413.27	6,271.99	6,271.96	-20.95	0.81	MWD	LEAM
2/9/2016	16,581.00	89.30	358.70	10,412.85	6,367.97	6,367.93	-22.96	1.99	MWD	LEAM
2/9/2016	16,676.00	90.00	0.80	10,413.43	6,462.96	6,462.92	-23.38	2.33	MWD	LEAM
2/10/2016	16,772.00	87.80	359.60	10,415.27	6,558.94	6,558.90	-23.04	2.81	MWD	LEAM
2/10/2016	16,868.00	87.60	359.90	10,419.13	6,654.86	6,654.82	-23.48	0.38	MWD	LEAM
2/10/2016	16,963.00	87.80	0.50	10,422.94	6,749.78	6,749.74	-23.13	0.67	MWD	LEAM
2/11/2016	17,059.00	87.90	1.00	10,426.54	6,845.70	6,845.66	-21.87	0.53	MWD	LEAM
2/11/2016	17,155.00	89.10	0.60	10,429.05	6,941.65	6,941.62	-20.53	1.32	MWD	LEAM
2/11/2016	17,250.00	90.20	0.50	10,429.63	7,036.63	7,036.61	-19.52	1.16	MWD	LEAM
2/11/2016	17,346.00	91.90	1.50	10,427.87	7,132.59	7,132.58	-17.95	2.05	MWD	LEAM
2/11/2016	17,442.00	92.20	1.30	10,424.44	7,228.49	7,228.49	-15.60	0.38	MWD	LEAM
2/11/2016	17,537.00	91.50	0.10	10,421.37	7,323.42	7,323.43	-14.44	1.46	MWD	LEAM
2/11/2016	17,633.00	90.90	359.20	10,419.36	7,419.40	7,419.40	-15.03	1.13	MWD	LEAM
2/11/2016	17,728.00	88.60	357.10	10,419.78	7,514.35	7,514.34	-18.10	3.28	MWD	LEAM
2/11/2016	17,824.00	86.90	356.10	10,423.55	7,610.13	7,610.09	-23.79	2.05	MWD	LEAM
2/11/2016	17,920.00	89.00	359.60	10,426.98	7,705.99	7,705.94	-27.38	4.25	MWD	LEAM
2/11/2016	18,000.00	91.00	1.00	10,426.98	7,785.98	7,785.94	-26.96	3.05	MWD	LEAM
2/11/2016	18,080.00	91.00	1.00	10,425.58	7,865.95	7,865.91	-25.57	0.00	BIT	LEAM