



Directional Survey

DELAWARE BASIN WEST UNRESTRICTED

Well Name: COTTON DRAW UNIT 242H

Rec 6-16-16

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EDDY	State/Province NM
Surface Legal Location SEC 12 T25S R31E	API/WVI 3001543274	Latitude (°) 32° 8' 39.434" N	Longitude (°) 103° 43' 51.033" W	Orig KB Elevation (ft) 3,449.20
				Ground Elev MSL (ft) 3,424.20
				KB - GL (ft) 25.00

Wellbores

Wellbore Name OH	Parent Wellbore OH	SAP Well ID 39075	Vertical Section Direction (°) 3.06
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Kick Offs & Key Depths

Date 11/22/2015	Type CURVE	Top Depth (ftKB) 9,647.0
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Actual Deviation Survey PATHFINDER, Proposed? No	Definitive? No	Proposed? No	Proposed Deviation Survey
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Deviation Survey

Date 11/12/2015	Description PATHFINDER
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MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NStie In (ft)	EWtie In (ft)
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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
11/12/2...	165.00	0.40	255.49	165.00	-0.17	-0.14	-0.56	0.24	MWD	EXTREME TOOL
11/12/2...	228.00	0.40	327.52	228.00	-0.06	-0.01	-0.89	0.75	MWD	EXTREME TOOL
11/12/2...	332.00	0.48	355.90	331.99	0.67	0.73	-1.11	0.22	MWD	EXTREME TOOL
11/12/2...	426.00	0.70	358.19	425.99	1.63	1.69	-1.16	0.24	MWD	EXTREME TOOL
11/12/2...	519.00	1.01	1.79	518.98	3.01	3.08	-1.15	0.34	MWD	EXTREME TOOL
11/12/2...	613.00	1.32	10.71	612.96	4.92	4.97	-0.93	0.38	MWD	EXTREME TOOL
11/12/2...	801.00	1.49	358.80	800.90	9.50	9.54	-0.57	0.18	MWD	EXTREME TOOL
11/12/2...	894.00	1.32	355.03	893.88	11.77	11.82	-0.69	0.21	MWD	EXTREME TOOL
11/12/2...	1,079.00	1.01	352.12	1,078.84	15.48	15.56	-1.10	0.17	MWD	EXTREME TOOL
11/12/2...	1,262.00	0.62	352.21	1,261.82	18.03	18.14	-1.46	0.21	MWD	EXTREME TOOL
11/12/2...	1,441.00	0.31	347.99	1,440.81	19.45	19.57	-1.69	0.17	MWD	EXTREME TOOL
11/12/2...	1,620.00	0.09	43.72	1,619.81	20.03	20.14	-1.69	0.15	MWD	EXTREME TOOL
11/12/2...	1,798.00	0.31	45.91	1,797.81	20.48	20.58	-1.25	0.12	MWD	EXTREME TOOL
11/12/2...	1,974.00	0.22	82.92	1,973.81	20.89	20.95	-0.57	0.11	MWD	EXTREME TOOL
11/12/2...	2,153.00	0.22	71.01	2,152.81	21.08	21.11	0.09	0.03	MWD	EXTREME TOOL
11/12/2...	2,331.00	0.31	117.02	2,330.80	21.02	21.00	0.85	0.13	MWD	EXTREME TOOL
11/12/2...	2,509.00	0.22	90.91	2,508.80	20.83	20.78	1.62	0.08	MWD	EXTREME TOOL
11/12/2...	2,686.00	0.22	145.01	2,687.80	20.58	20.49	2.16	0.11	MWD	EXTREME TOOL
11/12/2...	2,867.00	0.20	111.22	2,866.80	20.21	20.09	2.65	0.07	MWD	EXTREME TOOL
11/12/2...	3,045.00	0.22	147.30	3,044.80	19.83	19.69	3.12	0.07	MWD	EXTREME TOOL
11/12/2...	3,224.00	0.31	105.02	3,223.80	19.45	19.28	3.77	0.12	MWD	EXTREME TOOL
11/12/2...	3,403.00	0.22	105.11	3,402.80	19.28	19.06	4.57	0.05	MWD	EXTREME TOOL
11/12/2...	3,581.00	0.22	82.51	3,580.79	19.27	19.02	5.24	0.05	MWD	EXTREME TOOL
11/12/2...	3,763.00	0.62	115.30	3,762.79	18.96	18.65	6.48	0.25	MWD	EXTREME TOOL
11/12/2...	3,942.00	0.88	128.79	3,941.77	17.80	17.37	8.42	0.17	MWD	EXTREME TOOL
11/12/2...	4,120.00	1.49	136.70	4,119.74	15.40	14.83	11.08	0.35	MWD	EXTREME TOOL
11/12/2...	4,210.00	1.10	127.92	4,209.71	14.10	13.45	12.56	0.48	MWD	EXTREME TOOL
11/12/2...	4,284.00	0.88	135.83	4,283.70	13.31	12.60	13.52	0.35	MWD	EXTREME TOOL
11/12/2...	4,369.00	0.79	130.81	4,368.69	12.50	11.75	14.42	0.14	MWD	PATHFINDER
11/12/2...	4,458.00	0.62	134.38	4,457.69	11.81	11.01	15.22	0.20	MWD	PATHFINDER
11/12/2...	4,548.00	0.62	116.85	4,547.68	11.29	10.45	16.01	0.21	MWD	PATHFINDER
11/12/2...	4,637.00	0.88	92.75	4,636.67	11.10	10.20	17.12	0.45	MWD	PATHFINDER
11/12/2...	4,726.00	1.76	89.10	4,725.65	11.20	10.19	19.17	0.99	MWD	PATHFINDER
11/12/2...	4,815.00	1.93	90.82	4,814.60	11.35	10.19	22.03	0.20	MWD	PATHFINDER
11/12/2...	4,905.00	2.55	93.49	4,904.53	11.40	10.05	25.55	0.70	MWD	PATHFINDER
11/12/2...	4,994.00	2.89	91.04	4,993.43	11.46	9.89	29.84	0.51	MWD	PATHFINDER
11/12/2...	5,083.00	3.08	86.29	5,082.30	11.83	10.00	34.55	0.30	MWD	PATHFINDER
11/12/2...	5,173.00	3.17	90.28	5,172.17	12.23	10.14	39.45	0.26	MWD	PATHFINDER
11/12/2...	5,262.00	4.48	89.47	5,260.97	12.57	10.16	45.39	1.47	MWD	PATHFINDER
11/12/2...	5,352.00	5.45	84.87	5,350.63	13.41	10.59	53.16	1.17	MWD	PATHFINDER
11/12/2...	5,441.00	5.28	82.48	5,439.24	14.78	11.52	61.43	0.30	MWD	PATHFINDER
11/12/2...	5,530.00	4.92	83.28	5,527.89	16.18	12.50	69.28	0.41	MWD	PATHFINDER
11/12/2...	5,619.00	4.92	82.16	5,616.56	17.55	13.47	76.85	0.11	MWD	PATHFINDER
11/12/2...	5,708.00	4.92	81.36	5,705.23	19.05	14.56	84.40	0.08	MWD	PATHFINDER
11/12/2...	5,798.00	5.36	77.80	5,794.87	20.94	16.03	92.33	0.60	MWD	PATHFINDER
11/12/2...	5,887.00	5.01	84.50	5,883.51	22.61	17.28	100.26	0.79	MWD	PATHFINDER
11/12/2...	5,976.00	4.75	84.60	5,972.19	23.73	18.00	107.80	0.29	MWD	PATHFINDER
11/12/2...	6,065.00	4.66	84.30	6,060.89	24.82	18.71	115.06	0.10	MWD	PATHFINDER
11/12/2...	6,155.00	4.66	85.44	6,150.59	25.87	19.36	122.34	0.10	MWD	PATHFINDER
11/12/2...	6,244.00	4.57	88.01	6,239.30	26.66	19.77	129.49	0.25	MWD	PATHFINDER
11/12/2...	6,333.00	5.45	87.51	6,327.96	27.38	20.08	137.26	0.99	MWD	PATHFINDER
11/12/2...	6,423.00	5.45	88.63	6,417.55	28.12	20.37	145.80	0.12	MWD	PATHFINDER
11/12/2...	6,512.00	5.80	89.47	6,506.12	28.73	20.51	154.52	0.40	MWD	PATHFINDER
11/12/2...	6,601.00	5.36	83.10	6,594.70	29.73	21.05	163.15	0.85	MWD	PATHFINDER
11/12/2...	6,691.00	5.19	82.98	6,684.32	31.17	22.05	171.36	0.19	MWD	PATHFINDER
11/12/2...	6,780.00	4.84	88.05	6,772.98	32.20	22.67	179.11	0.63	MWD	PATHFINDER
11/12/2...	6,870.00	4.40	88.12	6,862.69	32.83	22.92	186.35	0.49	MWD	PATHFINDER
11/12/2...	6,959.00	4.92	79.05	6,951.39	34.05	23.75	193.51	1.01	MWD	PATHFINDER
11/12/2...	7,048.00	5.19	77.88	7,040.05	36.03	25.32	201.19	0.32	MWD	PATHFINDER
11/12/2...	7,138.00	4.75	78.26	7,129.71	38.04	26.94	208.82	0.49	MWD	PATHFINDER
11/12/2...	7,227.00	5.72	80.42	7,218.34	39.96	28.42	216.80	1.11	MWD	PATHFINDER
11/12/2...	7,316.00	5.45	82.40	7,306.92	41.71	29.72	225.37	0.37	MWD	PATHFINDER

Provide signature page for survey

Report Printed: 6/13/2016

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Survey Data

Date	MD (ft)	Ind (°)	Actm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/12/2011	7,406.00	5.19	83.79	7,396.53	43.18	30.73	233.65	0.32	MWD	PATHFINDER
11/12/2011	7,495.00	4.75	87.86	7,485.19	44.14	31.30	241.33	0.63	MWD	PATHFINDER
11/12/2011	7,585.00	4.57	79.38	7,574.90	45.32	32.10	248.58	0.79	MWD	PATHFINDER
11/12/2011	7,674.00	4.66	79.71	7,663.61	47.00	33.40	255.82	0.11	MWD	PATHFINDER
11/12/2011	7,763.00	4.48	80.55	7,752.32	48.58	34.62	262.61	0.22	MWD	PATHFINDER
11/12/2011	7,853.00	4.66	77.48	7,842.04	50.33	35.98	269.65	0.34	MWD	PATHFINDER
11/12/2011	7,942.00	4.31	75.11	7,930.77	52.33	37.63	276.41	0.44	MWD	PATHFINDER
11/12/2011	8,032.00	4.75	77.04	8,020.48	54.40	39.33	283.31	0.52	MWD	PATHFINDER
11/12/2011	8,121.00	5.28	84.11	8,109.14	56.05	40.58	290.97	0.91	MWD	PATHFINDER
11/12/2011	8,211.00	4.92	85.32	8,198.79	57.22	41.32	298.94	0.42	MWD	PATHFINDER
11/12/2011	8,300.00	5.63	86.00	8,287.41	58.27	41.94	307.10	0.80	MWD	PATHFINDER
11/12/2011	8,389.00	5.54	83.71	8,375.99	59.50	42.71	315.72	0.27	MWD	PATHFINDER
11/12/2011	8,478.00	4.66	82.76	8,464.64	60.85	43.64	323.58	0.99	MWD	PATHFINDER
11/12/2011	8,568.00	4.75	80.53	8,554.33	62.31	44.71	330.88	0.23	MWD	PATHFINDER
11/12/2011	8,657.00	5.10	78.22	8,643.00	64.12	46.12	338.39	0.45	MWD	PATHFINDER
11/12/2011	8,746.00	6.24	95.49	8,731.57	64.93	46.47	347.08	2.29	MWD	PATHFINDER
11/12/2011	8,835.00	5.98	100.48	8,820.07	64.13	45.16	356.45	0.66	MWD	PATHFINDER
11/12/2011	8,925.00	5.10	95.32	8,909.65	63.36	43.94	365.04	1.12	MWD	PATHFINDER
11/12/2011	9,014.00	3.96	95.26	8,998.37	63.09	43.29	372.04	1.28	MWD	PATHFINDER
11/12/2011	9,103.00	2.81	89.07	9,087.21	63.12	43.04	377.28	1.35	MWD	PATHFINDER
11/12/2011	9,193.00	2.02	100.64	9,177.13	63.07	42.79	381.05	1.03	MWD	PATHFINDER
11/12/2011	9,282.00	1.58	75.07	9,266.09	63.24	42.81	383.78	1.02	MWD	PATHFINDER
11/12/2011	9,371.00	1.06	62.83	9,355.05	64.03	43.51	385.69	0.66	MWD	PATHFINDER
11/12/2011	9,460.00	0.88	79.89	9,444.05	64.60	44.00	387.10	0.38	MWD	PATHFINDER
11/12/2011	9,573.00	0.88	102.80	9,557.04	64.65	43.96	388.80	0.31	MWD	PATHFINDER
11/12/2011	9,663.00	1.58	349.95	9,647.03	65.75	45.03	389.26	2.32	MWD	PATHFINDER
11/12/2011	9,708.00	5.98	351.43	9,691.92	68.65	47.96	388.80	9.78	MWD	PATHFINDER
11/12/2011	9,752.00	10.20	357.34	9,735.47	74.77	54.12	388.28	9.76	MWD	PATHFINDER
11/12/2011	9,797.00	13.72	3.93	9,779.49	84.08	63.43	388.46	8.38	MWD	PATHFINDER
11/12/2011	9,842.00	17.67	7.59	9,822.80	96.22	75.53	389.73	9.05	MWD	PATHFINDER
11/12/2011	9,886.00	19.87	7.68	9,864.46	110.34	89.56	391.61	5.00	MWD	PATHFINDER
11/12/2011	9,931.00	21.10	4.10	9,906.62	126.06	105.22	393.21	3.90	MWD	PATHFINDER
11/12/2011	9,976.00	24.53	2.69	9,948.09	143.50	122.63	394.23	7.72	MWD	PATHFINDER
11/12/2011	10,020.00	28.14	3.36	9,987.52	163.02	142.12	395.26	8.23	MWD	PATHFINDER
11/12/2011	10,065.00	31.48	5.38	10,026.56	185.38	164.42	396.99	7.75	MWD	PATHFINDER
11/12/2011	10,110.00	35.00	5.02	10,064.19	210.02	188.98	399.22	7.83	MWD	PATHFINDER
11/12/2011	10,154.00	39.13	6.06	10,099.29	236.51	215.37	401.79	9.49	MWD	PATHFINDER
11/12/2011	10,199.00	43.09	5.65	10,133.19	266.06	244.80	404.80	8.82	MWD	PATHFINDER
11/12/2011	10,244.00	47.22	4.32	10,164.92	297.94	276.58	407.58	9.41	MWD	PATHFINDER
11/12/2011	10,288.00	50.91	2.67	10,193.74	331.17	309.75	409.58	8.85	MWD	PATHFINDER
11/12/2011	10,333.00	53.64	2.83	10,221.27	366.76	345.30	411.28	6.07	MWD	PATHFINDER
11/12/2011	10,377.00	57.16	2.57	10,246.26	402.97	381.47	412.99	8.01	MWD	PATHFINDER
11/12/2011	10,422.00	62.26	1.44	10,268.95	441.81	420.29	414.34	11.54	MWD	PATHFINDER
11/12/2011	10,467.00	66.48	0.12	10,288.41	482.34	460.85	414.88	9.74	MWD	PATHFINDER
11/12/2011	10,512.00	69.20	358.90	10,305.38	523.93	502.52	414.52	6.55	MWD	PATHFINDER
11/12/2011	10,556.00	71.14	358.24	10,320.31	565.19	543.89	413.49	4.63	MWD	PATHFINDER
11/12/2011	10,601.00	72.55	356.75	10,334.33	607.74	586.61	411.61	4.44	MWD	PATHFINDER
11/12/2011	10,645.00	74.39	356.02	10,346.85	649.64	628.70	408.95	4.47	MWD	PATHFINDER
11/12/2011	10,690.00	75.53	355.95	10,358.52	692.76	672.05	405.91	2.54	MWD	PATHFINDER
11/12/2011	10,735.00	77.65	356.68	10,368.98	736.23	715.73	403.10	4.97	MWD	PATHFINDER
11/12/2011	10,780.00	81.43	356.72	10,377.13	780.20	759.90	400.55	8.40	MWD	PATHFINDER
11/12/2011	10,824.00	84.50	357.01	10,382.51	823.61	803.50	398.16	7.01	MWD	PATHFINDER
11/12/2011	10,869.00	88.11	358.53	10,385.41	868.32	848.37	386.42	8.70	MWD	PATHFINDER
11/12/2011	10,914.00	91.45	0.11	10,385.59	913.21	893.36	395.89	8.21	MWD	PATHFINDER
11/12/2011	10,958.00	92.42	359.96	10,384.10	957.13	937.33	395.91	2.23	MWD	PATHFINDER
11/12/2011	11,048.00	91.01	359.79	10,381.41	1,046.95	1,027.29	395.72	1.58	MWD	PATHFINDER
11/12/2011	11,137.00	89.96	359.99	10,380.65	1,135.81	1,116.28	395.54	1.20	MWD	PATHFINDER
11/12/2011	11,226.00	89.60	359.03	10,381.00	1,224.63	1,205.28	394.78	1.15	MWD	PATHFINDER
11/12/2011	11,316.00	89.78	359.49	10,381.48	1,314.43	1,295.27	393.62	0.55	MWD	PATHFINDER
11/12/2011	11,406.00	89.43	0.72	10,382.10	1,404.31	1,385.26	393.79	1.42	MWD	PATHFINDER
11/12/2011	11,495.00	89.96	1.02	10,382.58	1,493.24	1,474.25	395.14	0.68	MWD	PATHFINDER
11/12/2011	11,584.00	90.22	1.58	10,382.44	1,582.20	1,563.23	397.16	0.69	MWD	PATHFINDER
11/12/2011	11,673.00	90.40	1.45	10,381.96	1,671.17	1,652.20	399.51	0.25	MWD	PATHFINDER
11/12/2011	11,763.00	91.80	1.47	10,380.23	1,761.11	1,742.15	401.80	1.56	MWD	PATHFINDER
11/12/2011	11,852.00	90.31	1.05	10,378.59	1,850.05	1,831.11	403.76	1.74	MWD	PATHFINDER
11/12/2011	11,942.00	90.66	1.35	10,377.83	1,940.00	1,921.09	405.64	0.51	MWD	PATHFINDER
11/12/2011	12,031.00	89.43	1.45	10,377.76	2,028.96	2,010.06	407.82	1.39	MWD	PATHFINDER
11/12/2011	12,121.00	89.52	1.09	10,378.58	2,118.91	2,100.03	409.81	0.41	MWD	PATHFINDER
11/12/2011	12,210.00	89.34	0.20	10,379.47	2,207.83	2,189.02	410.81	1.02	MWD	PATHFINDER
11/12/2011	12,299.00	89.34	0.59	10,380.49	2,296.73	2,278.01	411.43	0.44	MWD	PATHFINDER
11/12/2011	12,389.00	89.60	0.38	10,381.33	2,386.63	2,368.00	412.19	0.37	MWD	PATHFINDER
11/12/2011	12,478.00	89.96	0.83	10,381.67	2,475.55	2,457.00	413.13	0.65	MWD	PATHFINDER
11/12/2011	12,567.00	90.31	0.57	10,381.46	2,564.47	2,545.99	414.22	0.49	MWD	PATHFINDER

Well Name: COTTON DRAW UNIT 242H

Suo-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EODY	State/Province NM
Surface Legal Location SEC 12 T25S R31E	API/LWI 3001543274	Latitude (°) 32° 8' 39.434" N	Longitude (°) 103° 43' 51.033" W	Orig KB Elevation (ft) 3,449.20
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11/12/2...	12,557.00	91.98	0.39	10,379.66	2,654.36	2,635.97	414.97	1.87	MWD	PATHFINDER
11/12/2...	12,746.00	90.13	0.69	10,378.02	2,743.26	2,724.94	415.81	2.11	MWD	PATHFINDER
11/12/2...	12,835.00	89.34	0.47	10,378.43	2,832.17	2,813.94	416.71	0.92	MWD	PATHFINDER
11/12/2...	12,924.00	90.31	359.83	10,378.70	2,921.05	2,902.94	416.94	1.31	MWD	PATHFINDER
11/12/2...	13,013.00	89.60	358.64	10,378.77	3,009.85	2,991.93	415.76	1.56	MWD	PATHFINDER
11/12/2...	13,103.00	90.31	358.54	10,378.85	3,099.58	3,081.90	413.54	0.80	MWD	PATHFINDER
11/12/2...	13,192.00	88.81	358.32	10,379.53	3,188.28	3,170.86	411.10	1.70	MWD	PATHFINDER
11/12/2...	13,281.00	89.60	359.00	10,380.76	3,277.01	3,259.82	409.02	1.17	MWD	PATHFINDER
11/12/2...	13,370.00	90.84	359.57	10,380.42	3,365.82	3,348.82	407.91	1.53	MWD	PATHFINDER
11/27/2...	13,479.00	91.71	359.99	10,378.00	3,474.61	3,457.79	407.49	0.89	MWD	PATHFINDER
11/27/2...	13,568.00	90.66	359.31	10,376.16	3,563.43	3,546.76	406.95	1.41	MWD	PATHFINDER
11/27/2...	13,657.00	90.57	359.73	10,375.20	3,652.26	3,635.76	406.20	0.48	MWD	PATHFINDER
11/27/2...	13,746.00	90.75	359.78	10,374.18	3,741.10	3,724.75	405.82	0.21	MWD	PATHFINDER
11/27/2...	13,836.00	89.78	358.80	10,373.76	3,830.90	3,814.74	404.71	1.53	MWD	PATHFINDER
11/27/2...	13,925.00	89.52	357.61	10,374.30	3,919.58	3,903.69	401.92	1.37	MWD	PATHFINDER
11/27/2...	14,014.00	90.40	356.35	10,374.37	4,008.08	3,992.57	397.23	1.73	MWD	PATHFINDER
11/27/2...	14,103.00	91.10	355.44	10,373.20	4,096.37	4,081.33	390.86	1.29	MWD	PATHFINDER
11/27/2...	14,193.00	92.33	355.53	10,370.51	4,185.55	4,171.01	383.78	1.37	MWD	PATHFINDER
11/28/2...	14,282.00	93.12	355.10	10,366.28	4,273.63	4,259.61	376.52	1.01	MWD	PATHFINDER
11/28/2...	14,371.00	92.51	355.26	10,361.90	4,361.69	4,348.19	369.05	0.71	MWD	PATHFINDER
11/28/2...	14,461.00	90.66	355.85	10,359.42	4,450.88	4,437.88	362.08	2.16	MWD	PATHFINDER
11/28/2...	14,550.00	90.48	356.55	10,358.53	4,539.23	4,526.68	355.18	0.81	MWD	PATHFINDER
11/28/2...	14,639.00	90.31	358.32	10,357.92	4,627.80	4,615.58	352.20	2.00	MWD	PATHFINDER
11/28/2...	14,729.00	88.72	358.35	10,358.68	4,717.49	4,705.54	349.58	1.77	MWD	PATHFINDER
11/28/2...	14,818.00	89.10	357.47	10,360.37	4,806.11	4,794.46	346.34	1.08	MWD	PATHFINDER
11/29/2...	14,908.00	89.10	359.18	10,361.78	4,895.79	4,884.41	343.71	1.90	MWD	PATHFINDER
11/29/2...	14,997.00	89.61	0.28	10,362.79	4,984.63	4,973.40	343.29	1.36	MWD	PATHFINDER
11/29/2...	15,086.00	90.39	0.30	10,362.79	5,073.53	5,062.40	343.74	0.88	MWD	PATHFINDER
11/29/2...	15,176.00	88.93	359.72	10,363.32	5,163.40	5,152.39	343.75	1.75	MWD	PATHFINDER
11/29/2...	15,265.00	91.45	1.76	10,363.03	5,252.31	5,241.37	344.90	3.64	MWD	PATHFINDER
11/29/2...	15,354.00	91.55	2.57	10,360.70	5,341.27	5,330.28	348.26	0.92	MWD	PATHFINDER
11/29/2...	15,444.00	90.83	2.41	10,358.83	5,431.24	5,420.17	352.17	0.82	MWD	PATHFINDER
11/29/2...	15,533.00	90.04	1.67	10,358.15	5,520.23	5,509.11	355.34	1.22	MWD	PATHFINDER
11/29/2...	15,623.00	89.54	1.02	10,358.48	5,610.19	5,599.09	357.45	0.91	MWD	PATHFINDER
11/29/2...	15,712.00	89.16	1.08	10,359.49	5,699.12	5,688.07	359.08	0.43	MWD	PATHFINDER
11/29/2...	15,781.00	89.04	0.52	10,360.57	5,788.06	5,757.05	360.05	0.83	MWD	PATHFINDER
12/2/2015	15,819.00	88.90	0.64	10,361.26	5,806.02	5,795.04	360.43	0.49	MWD	PATHFINDER
12/2/2015	15,909.00	86.70	0.69	10,364.71	5,895.87	5,884.96	361.47	2.45	MWD	PATHFINDER
12/2/2015	15,998.00	87.58	0.53	10,369.15	5,984.68	5,973.85	362.42	1.00	MWD	PATHFINDER
12/2/2015	16,087.00	87.41	1.91	10,373.04	6,073.54	6,062.74	364.31	1.56	MWD	PATHFINDER
12/2/2015	16,177.00	87.85	2.13	10,376.76	6,163.45	6,152.61	367.48	0.55	MWD	PATHFINDER
12/2/2015	16,266.00	87.93	2.58	10,380.04	6,252.38	6,241.47	371.14	0.51	MWD	PATHFINDER
12/2/2015	16,356.00	88.29	2.84	10,383.01	6,342.33	6,331.32	375.39	0.49	MWD	PATHFINDER
12/2/2015	16,445.00	88.90	3.18	10,385.19	6,431.31	6,420.17	380.06	0.78	MWD	PATHFINDER
12/2/2015	16,534.00	88.11	2.55	10,387.51	6,520.27	6,509.03	384.51	1.14	MWD	PATHFINDER
12/2/2015	16,624.00	88.72	2.56	10,390.00	6,610.24	6,598.90	388.52	0.68	MWD	PATHFINDER
12/2/2015	16,713.00	88.99	3.16	10,391.78	6,699.22	6,687.78	392.96	0.74	MWD	PATHFINDER
12/2/2015	16,802.00	88.20	3.40	10,393.96	6,788.19	6,776.60	398.05	0.93	MWD	PATHFINDER
12/2/2015	16,891.00	88.90	3.76	10,396.22	6,877.16	6,865.40	403.61	0.88	MWD	PATHFINDER
12/2/2015	16,980.00	88.20	3.52	10,398.47	6,966.12	6,954.19	409.26	0.83	MWD	PATHFINDER
12/2/2015	17,070.00	88.81	4.17	10,400.82	7,056.08	7,043.96	415.29	0.99	MWD	PATHFINDER
12/2/2015	17,159.00	88.81	3.55	10,402.66	7,145.05	7,132.74	421.28	0.70	MWD	PATHFINDER
12/3/2015	17,248.00	88.46	2.18	10,404.78	7,234.03	7,221.60	425.73	1.59	MWD	PATHFINDER
12/3/2015	17,338.00	88.46	1.96	10,407.20	7,323.98	7,311.51	428.98	0.24	MWD	PATHFINDER
12/3/2015	17,427.00	88.46	2.25	10,409.60	7,412.94	7,400.41	432.24	0.33	MWD	PATHFINDER
12/3/2015	17,516.00	89.96	2.62	10,410.82	7,501.92	7,489.32	436.02	1.74	MWD	PATHFINDER
12/3/2015	17,605.00	90.04	1.29	10,410.82	7,590.90	7,578.27	439.06	1.50	MWD	PATHFINDER
12/3/2015	17,694.00	90.22	1.14	10,410.62	7,679.85	7,667.25	440.95	0.26	MWD	PATHFINDER
12/3/2015	17,784.00	90.57	1.11	10,410.00	7,769.80	7,757.23	442.71	0.39	MWD	PATHFINDER
12/3/2015	17,874.00	90.57	1.11	10,409.37	7,859.75	7,847.18	444.93	0.00	BIT	PATHFINDER