



Directional Survey

Well Name: PAINT 33 FED 2H

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County LEA	State/Province NM						
Surface Legal Location SEC33 T24S R32E	AP/W/V 3002542531	Latitude (°) 32° 10' 2.136" N	Longitude (°) 103° 40' 54.217" W	Orig KB Elevation (ft) 3,518.10	Ground Elev MSL (ft) 3,493.10	KB - GL (ft) 25.00				
Wellbores										
Wellbore Name OH	Parent Wellbore OH	SAP Well ID 38586	Vertical Section Direction (°)							
Kick Offs & Key Depths										
Date 7/10/2015	Type CURVE		Top Depth (ftKB) 10,201.0							
Actual Deviation Survey EXTREME, Proposed? No		Definitive? No	Proposed? No	Proposed Deviation Survey						
Deviation Survey										
Date 6/27/2015	Description EXTREME									
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NS Tie In (ft)	EW Tie In (ft)					
Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	OLS (°/100ft)	Survey Tool	Survey Company
6/27/2015	207.00	0.31	290.74	207.00	0.20	0.20	-0.52	0.15	MWD	EXTREME
6/27/2015	327.00	0.88	281.64	326.99	0.51	0.50	-1.73	0.48	MWD	EXTREME
6/27/2015	417.00	1.19	269.65	416.98	0.85	0.83	-3.34	0.42	MWD	EXTREME
6/27/2015	508.00	1.19	276.94	507.96	0.77	0.74	-5.22	0.17	MWD	EXTREME
6/27/2015	599.00	1.32	277.03	598.94	1.03	0.98	-7.20	0.14	MWD	EXTREME
6/27/2015	688.00	1.10	268.33	687.92	1.14	1.08	-9.07	0.32	MWD	EXTREME
6/27/2015	779.00	1.01	284.63	778.90	1.33	1.26	-10.72	0.34	MWD	EXTREME
6/27/2015	791.00	1.01	295.93	790.90	1.40	1.33	-10.92	1.66	MWD	EXTREME
6/29/2015	959.00	0.48	41.92	958.89	2.58	2.51	-11.78	0.73	MWD	EXTREME
6/29/2015	1,051.00	0.40	74.53	1,050.89	2.95	2.88	-11.21	0.28	MWD	EXTREME
6/29/2015	1,145.00	0.70	108.72	1,144.88	2.84	2.78	-10.35	0.46	MWD	EXTREME
6/29/2015	1,237.00	0.79	112.54	1,236.87	2.41	2.36	-9.24	0.11	MWD	EXTREME
6/29/2015	1,331.00	0.70	79.14	1,330.87	2.27	2.22	-8.07	0.46	MWD	EXTREME
6/29/2015	1,425.00	0.62	84.02	1,424.86	2.42	2.38	-7.00	0.10	MWD	EXTREME
6/29/2015	1,520.00	0.48	69.83	1,519.86	2.61	2.57	-6.12	0.20	MWD	EXTREME
6/29/2015	1,614.00	0.48	45.44	1,613.85	3.01	2.98	-5.47	0.22	MWD	EXTREME
6/29/2015	1,709.00	0.70	33.44	1,708.85	3.77	3.74	-4.87	0.26	MWD	EXTREME
6/29/2015	1,803.00	0.48	351.91	1,802.84	4.64	4.61	-4.61	0.50	MWD	EXTREME
6/29/2015	1,897.00	0.48	18.85	1,896.84	5.40	5.38	-4.53	0.24	MWD	EXTREME
6/29/2015	1,992.00	0.62	332.05	1,991.84	6.23	6.21	-4.65	0.48	MWD	EXTREME
6/29/2015	2,086.00	0.48	9.14	2,085.83	7.07	7.04	-4.82	0.40	MWD	EXTREME
6/29/2015	2,181.00	0.40	22.94	2,180.83	7.77	7.74	-4.63	0.14	MWD	EXTREME
6/29/2015	2,275.00	0.22	169.85	2,274.83	7.89	7.87	-4.47	0.63	MWD	EXTREME
6/29/2015	2,369.00	0.31	261.74	2,368.83	7.68	7.65	-4.69	0.41	MWD	EXTREME
6/29/2015	2,464.00	0.22	282.04	2,463.83	7.69	7.65	-5.12	0.14	MWD	EXTREME
6/29/2015	2,558.00	0.31	188.22	2,557.83	7.47	7.44	-5.34	0.42	MWD	EXTREME
6/29/2015	2,652.00	0.09	261.21	2,651.83	7.21	7.18	-5.44	0.32	MWD	EXTREME
6/29/2015	2,746.00	0.09	132.32	2,745.83	7.15	7.12	-5.46	0.17	MWD	EXTREME
6/29/2015	2,840.00	0.40	159.21	2,839.83	6.79	6.76	-5.29	0.34	MWD	EXTREME
6/29/2015	2,935.00	0.62	149.24	2,934.82	6.04	6.01	-4.91	0.25	MWD	EXTREME
6/30/2015	3,029.00	0.31	164.84	3,028.82	5.35	5.33	-4.58	0.35	MWD	EXTREME
6/30/2015	3,124.00	0.40	84.73	3,123.82	5.13	5.11	-4.19	0.49	MWD	EXTREME
6/30/2015	3,218.00	0.40	130.52	3,217.82	4.95	4.93	-3.61	0.33	MWD	EXTREME
6/30/2015	3,312.00	0.40	113.82	3,311.81	4.60	4.58	-3.06	0.12	MWD	EXTREME
6/30/2015	3,407.00	0.48	97.51	3,406.81	4.41	4.39	-2.36	0.16	MWD	EXTREME
6/30/2015	3,501.00	0.31	25.05	3,500.81	4.58	4.57	-1.87	0.52	MWD	EXTREME
6/30/2015	3,596.00	0.22	122.34	3,595.81	4.72	4.71	-1.60	0.42	MWD	EXTREME
6/30/2015	3,690.00	0.40	43.11	3,689.81	4.86	4.85	-1.23	0.45	MWD	EXTREME
6/30/2015	3,784.00	0.40	43.11	3,783.80	5.33	5.33	-0.78	0.00	MWD	EXTREME
6/30/2015	3,875.00	0.79	97.73	3,874.80	5.48	5.48	0.06	0.71	MWD	EXTREME
6/30/2015	3,974.00	1.41	103.84	3,973.78	5.08	5.09	1.92	0.64	MWD	EXTREME
6/30/2015	4,068.00	1.49	103.45	4,067.75	4.51	4.53	4.23	0.09	MWD	EXTREME
6/30/2015	4,162.00	1.49	104.02	4,161.72	3.91	3.95	6.61	0.02	MWD	EXTREME
6/30/2015	4,257.00	1.89	107.14	4,256.68	3.14	3.19	9.30	0.43	MWD	EXTREME
6/30/2015	4,352.00	2.29	106.21	4,351.61	2.12	2.20	12.62	0.42	MWD	EXTREME
6/30/2015	4,446.00	2.50	121.33	4,445.53	0.51	0.61	16.18	0.71	MWD	EXTREME
6/30/2015	4,548.00	2.50	118.74	4,547.44	-1.74	-1.62	20.03	0.11	MWD	EXTREME
7/3/2015	4,662.00	1.93	125.11	4,661.35	-4.06	-3.92	23.78	0.54	MWD	PATHFINDER ENERGY SE...
7/3/2015	4,725.00	1.67	127.74	4,724.32	-5.24	-5.09	25.37	0.43	MWD	PATHFINDER ENERGY SE...
7/3/2015	4,819.00	1.67	125.60	4,818.28	-6.89	-6.72	27.57	0.07	MWD	PATHFINDER ENERGY SE...
7/3/2015	4,914.00	1.67	127.89	4,913.24	-8.56	-8.38	29.79	0.06	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,008.00	0.88	163.93	5,007.22	-10.08	-9.91	31.07	1.16	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,103.00	0.79	166.80	5,102.21	-11.44	-11.25	31.42	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,197.00	0.79	172.71	5,196.20	-12.71	-12.52	31.65	0.09	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,292.00	0.97	168.41	5,291.19	-14.15	-13.96	31.90	0.20	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,387.00	0.97	177.45	5,386.17	-15.74	-15.55	32.10	0.16	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,482.00	0.88	169.96	5,481.16	-17.26	-17.07	32.26	0.16	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,576.00	0.88	181.99	5,575.15	-18.70	-18.50	32.36	0.20	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,670.00	0.88	176.67	5,669.14	-20.14	-19.94	32.38	0.09	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,765.00	0.97	179.74	5,764.13	-21.67	-21.48	32.42	0.11	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,859.00	0.88	179.40	5,858.11	-23.19	-22.99	32.43	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	5,953.00	0.88	177.83	5,952.10	-24.63	-24.44	32.47	0.03	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,048.00	0.97	179.50	6,047.09	-26.17	-25.97	32.50	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,143.00	0.97	183.66	6,142.08	-27.77	-27.58	32.46	0.07	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,237.00	0.97	183.44	6,236.06	-29.36	-29.16	32.36	0.00	MWD	PATHFINDER ENERGY SE...



Directional Survey

Well Name: PAINT 33 FED 2H

Sub-Division		Region	Field Name		County	State				
DELAWARE BASIN WEST		BASIN WEST	PADUCA		EA	NM				
Surface Legal Location		APN	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)			
SEC33 T24S R32E		3002542091	32° 10' 2.136" N	103° 40' 54.217" W	3,518.10	3,493.10	25.00			
Survey Data										
Date	MD (ft)	Incl (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
7/3/2015	6,331.00	1.06	194.84	6,330.05	-30.99	-30.80	32.09	0.23	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,426.00	1.06	186.79	6,425.03	-32.71	-32.52	31.76	0.16	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,520.00	1.14	188.98	6,519.01	-34.50	-34.31	31.51	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,614.00	1.23	196.58	6,612.99	-36.39	-36.20	31.08	0.19	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,709.00	1.32	194.58	6,707.97	-38.42	-38.23	30.51	0.11	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,803.00	1.41	193.82	6,801.94	-40.59	-40.41	29.96	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,897.00	1.41	185.49	6,895.92	-42.86	-42.68	29.58	0.22	MWD	PATHFINDER ENERGY SE...
7/3/2015	6,991.00	2.46	202.61	6,989.86	-45.87	-45.69	28.69	1.26	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,086.00	2.90	200.66	7,084.76	-49.99	-49.82	27.06	0.47	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,180.00	2.99	200.97	7,178.63	-54.49	-54.34	25.34	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,274.00	3.78	193.84	7,272.47	-59.78	-59.64	23.72	0.95	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,368.00	3.78	192.68	7,366.26	-65.80	-65.67	22.30	0.08	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,462.00	4.92	194.27	7,459.99	-72.72	-72.60	20.63	1.22	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,557.00	4.92	197.07	7,554.64	-80.55	-80.44	18.43	0.25	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,651.00	4.84	197.24	7,648.30	-88.18	-88.08	16.07	0.09	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,745.00	4.84	196.05	7,741.97	-95.76	-95.68	13.80	0.11	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,840.00	4.75	196.85	7,836.63	-103.36	-103.29	11.55	0.12	MWD	PATHFINDER ENERGY SE...
7/3/2015	7,934.00	4.84	198.34	7,930.31	-110.84	-110.78	9.17	0.16	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,028.00	4.84	196.64	8,023.97	-118.39	-118.35	6.79	0.15	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,123.00	4.84	196.13	8,118.63	-126.06	-126.04	4.53	0.05	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,217.00	4.92	195.59	8,212.29	-133.74	-133.73	2.34	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,312.00	3.87	199.48	8,307.01	-140.67	-140.68	0.18	1.15	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,407.00	3.61	200.30	8,401.81	-148.49	-146.50	-1.93	0.28	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,501.00	2.73	194.94	8,495.66	-151.42	-151.44	-3.53	0.99	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,595.00	2.20	211.42	8,589.58	-155.11	-155.14	-5.05	0.94	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,690.00	0.70	244.01	8,684.55	-156.91	-156.96	-6.52	1.74	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,784.00	0.79	258.26	8,778.54	-157.29	-157.34	-7.67	0.22	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,879.00	1.23	270.06	8,873.52	-157.41	-157.47	-9.33	0.51	MWD	PATHFINDER ENERGY SE...
7/3/2015	8,974.00	0.70	317.58	8,968.51	-156.97	-157.04	-10.74	0.96	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,068.00	0.62	5.36	9,062.50	-156.04	-156.11	-11.08	0.57	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,162.00	0.88	356.53	9,156.50	-154.81	-154.88	-11.08	0.30	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,257.00	0.97	353.88	9,251.48	-153.29	-153.36	-11.21	0.10	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,351.00	1.23	316.18	9,345.47	-151.76	-151.84	-11.99	0.80	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,445.00	1.93	284.55	9,439.43	-150.62	-150.71	-14.22	1.16	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,534.00	3.17	268.07	9,528.24	-149.95	-150.09	-22.53	0.76	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,628.00	2.37	297.64	9,622.14	-149.11	-149.27	-26.85	1.71	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,723.00	1.93	326.75	9,717.07	-148.84	-147.02	-29.46	1.22	MWD	PATHFINDER ENERGY SE...
7/3/2015	9,919.00	2.02	352.00	9,913.02	-143.81	-144.00	-30.59	0.90	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,014.00	0.79	26.93	10,007.99	-141.57	-141.76	-30.52	1.52	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,106.00	0.88	11.41	10,099.98	-140.31	-140.50	-30.09	0.26	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,145.00	0.79	5.61	10,138.98	-139.75	-139.94	-30.01	0.32	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,170.00	0.88	355.03	10,163.97	-139.39	-139.57	-30.01	0.71	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,202.00	2.29	347.10	10,195.96	-138.52	-138.71	-30.17	4.45	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,234.00	5.72	342.46	10,227.88	-136.37	-136.56	-30.80	10.76	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,265.00	9.85	344.44	10,258.59	-132.34	-132.53	-31.97	13.35	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,297.00	13.10	345.46	10,289.94	-126.18	-126.38	-33.62	10.18	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,328.00	16.27	346.49	10,319.93	-118.54	-118.76	-35.52	10.26	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,360.00	19.61	347.99	10,350.37	-108.91	-109.14	-37.68	10.54	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,391.00	22.34	353.53	10,379.31	-97.96	-98.20	-39.43	10.88	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,422.00	25.32	358.47	10,407.67	-85.47	-85.71	-40.27	11.56	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,454.00	28.93	1.36	10,436.15	-70.89	-71.13	-40.27	12.01	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,485.00	32.45	2.72	10,462.80	-55.08	-55.32	-39.70	11.57	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,517.00	35.17	3.25	10,489.39	-37.31	-37.54	-38.77	8.55	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,548.00	37.55	2.69	10,514.35	-18.96	-19.19	-37.82	7.75	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,580.00	40.10	0.44	10,539.28	1.09	0.86	-37.28	9.11	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,611.00	42.74	359.26	10,562.52	21.59	21.37	-37.34	8.88	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,643.00	44.76	359.00	10,585.84	43.72	43.49	-37.67	6.34	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,674.00	47.04	358.68	10,607.21	65.98	65.75	-38.13	7.39	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,706.00	48.80	359.14	10,628.85	89.72	89.49	-38.58	5.60	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,737.00	51.35	359.28	10,648.55	113.50	113.26	-38.90	8.23	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,769.00	54.87	359.78	10,667.75	139.08	138.85	-39.11	11.07	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,800.00	59.53	0.53	10,684.54	165.13	164.90	-39.04	15.17	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,832.00	64.02	0.97	10,699.67	193.32	193.08	-38.67	14.08	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,863.00	66.48	0.97	10,712.65	221.46	221.23	-38.19	7.94	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,894.00	68.06	0.53	10,724.63	250.04	249.82	-37.82	5.26	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,925.00	70.61	357.54	10,735.57	279.04	278.81	-38.31	12.21	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,957.00	73.86	356.39	10,745.33	309.48	309.24	-39.93	10.72	MWD	PATHFINDER ENERGY SE...
7/3/2015	10,988.00	76.68	355.97	10,753.21	339.40	339.15	-41.92	9.19	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,020.00	80.20	356.11	10,759.62	370.88	370.42	-44.09	11.01	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,051.00	84.59	356.76	10,763.73	401.36	401.08	-46.00	14.31	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,074.00	86.61	357.57	10,765.49	424.26	423.99	-47.13	9.48	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,106.00	89.34	0.08	10,766.62	456.24	455.95	-47.79	11.59	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,138.00	90.84	1.04	10,766.57	488.23	487.95	-47.47	5.57	MWD	PATHFINDER ENERGY SE...

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Directional Survey

Well Name: PAINT 33 FED 2H

Sub-Division DELAWARE BASIN WEST	Region BASIN WEST	Field Name PADUCA	County EA	State/Province NM
Surface Legal Location SEC33 T24S R32E	APN 3002642591	Latitude (°) 32° 10' 2.136" N	Longitude (°) 103° 40' 54.217" W	Orig KB Elevation (ft) 3,518.10
				Ground Elev MSL (ft) 3,493.10
				KB - GL (ft) 25.00

Survey Data

Date	MD (ft)	Incl (°)	Azin (°)	TVD (ft)	VS (ft)	NIS (ft)	EAV (ft)	DLS (ft)	Survey Tool	Survey Company
7/3/2015	11,169.00	91.98	1.18	10,765.81	519.21	518.94	-46.87	3.71	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,264.00	92.77	1.12	10,761.87	614.10	613.83	-44.97	0.83	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,358.00	92.59	2.42	10,757.48	707.93	707.69	-42.07	1.39	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,452.00	91.80	1.44	10,753.87	801.78	801.56	-38.91	1.34	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,547.00	90.57	0.66	10,751.91	896.73	896.52	-37.16	1.53	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,641.00	91.80	0.40	10,749.97	990.70	990.50	-36.30	1.34	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,735.00	87.32	1.70	10,750.69	1,084.64	1,084.45	-34.57	4.96	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,830.00	87.58	1.81	10,754.91	1,179.48	1,179.31	-31.67	0.30	MWD	PATHFINDER ENERGY SE...
7/3/2015	11,924.00	90.40	1.36	10,756.57	1,273.41	1,273.25	-29.07	3.04	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,018.00	92.42	1.65	10,754.26	1,367.32	1,367.19	-26.60	2.17	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,112.00	91.63	0.58	10,750.94	1,461.23	1,461.11	-24.77	1.41	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,207.00	92.15	359.62	10,747.80	1,556.18	1,556.05	-24.61	1.15	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,301.00	90.57	359.47	10,745.57	1,650.15	1,650.02	-25.35	1.69	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,395.00	91.98	0.11	10,743.48	1,744.12	1,744.00	-25.70	1.65	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,489.00	90.66	0.26	10,741.32	1,838.09	1,837.97	-25.39	1.41	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,584.00	91.54	0.04	10,739.49	1,933.07	1,932.95	-25.15	0.95	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,678.00	92.42	1.10	10,736.24	2,027.00	2,026.89	-24.21	1.47	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,772.00	91.10	1.11	10,733.36	2,120.92	2,120.82	-22.40	1.40	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,866.00	90.04	1.20	10,732.42	2,214.88	2,214.80	-20.50	1.13	MWD	PATHFINDER ENERGY SE...
7/3/2015	12,961.00	89.08	0.75	10,733.15	2,309.85	2,309.78	-18.89	1.12	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,055.00	87.14	0.17	10,736.25	2,403.79	2,403.72	-18.13	2.15	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,149.00	86.26	359.82	10,741.66	2,497.63	2,497.56	-18.14	1.01	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,244.00	87.58	359.93	10,746.77	2,592.49	2,592.42	-18.35	1.39	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,339.00	85.74	359.37	10,752.30	2,687.32	2,687.26	-18.93	2.02	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,433.00	86.35	0.14	10,758.79	2,781.10	2,781.03	-19.33	1.04	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,528.00	86.97	0.54	10,764.32	2,875.93	2,875.87	-18.77	0.78	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,622.00	87.67	0.37	10,768.72	2,969.81	2,969.76	-18.02	0.77	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,717.00	89.34	1.32	10,771.19	3,064.76	3,064.71	-16.62	2.02	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,811.00	89.52	0.79	10,772.13	3,158.72	3,158.69	-14.89	0.60	MWD	PATHFINDER ENERGY SE...
7/3/2015	13,906.00	89.52	1.75	10,772.92	3,253.68	3,253.66	-12.78	1.01	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,000.00	90.04	0.78	10,773.29	3,347.64	3,347.64	-10.71	1.17	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,095.00	91.36	0.39	10,772.13	3,442.62	3,442.63	-9.74	1.45	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,189.00	89.96	358.23	10,771.04	3,536.60	3,536.60	-10.87	2.74	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,283.00	90.40	359.05	10,770.75	3,630.59	3,630.58	-13.10	0.99	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,378.00	88.90	358.20	10,771.33	3,725.57	3,725.54	-15.38	1.81	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,472.00	89.25	358.54	10,772.84	3,819.53	3,819.49	-18.05	0.52	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,566.00	89.60	358.39	10,773.79	3,913.51	3,913.45	-20.57	0.41	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,661.00	90.48	358.61	10,773.72	4,008.49	4,008.42	-23.06	0.95	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,755.00	89.52	358.50	10,773.72	4,102.47	4,102.39	-25.43	1.03	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,850.00	90.04	358.88	10,774.09	4,197.45	4,197.36	-27.60	0.68	MWD	PATHFINDER ENERGY SE...
7/3/2015	14,944.00	89.25	359.42	10,774.67	4,291.45	4,291.35	-29.00	1.02	MWD	PATHFINDER ENERGY SE...
7/3/2015	15,038.00	90.04	359.63	10,775.25	4,385.44	4,385.34	-29.77	0.87	MWD	PATHFINDER ENERGY SE...
7/3/2015	15,133.00	90.75	359.96	10,774.60	4,480.44	4,480.34	-30.11	0.82	MWD	PATHFINDER ENERGY SE...
7/3/2015	15,227.00	90.84	0.30	10,773.29	4,574.43	4,574.33	-29.90	0.37	MWD	PATHFINDER ENERGY SE...
7/3/2015	15,321.00	90.57	0.35	10,772.14	4,668.41	4,668.32	-29.37	0.29	MWD	PATHFINDER ENERGY SE...
7/3/2015	15,348.00	89.87	359.97	10,772.03	4,695.41	4,695.32	-29.29	2.95	MWD	PATHFINDER ENERGY SE...
7/3/2015	15,405.00	89.87	359.97	10,772.16	4,752.41	4,752.32	-29.32	0.00	BIT	PATHFINDER ENERGY SE...