



Well Name: SHIRE 22 FED 1H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name PADUCA		County EDDY		State/Province NM					
Surface Legal Location SEC 15-25S-31E		API/UMI 3001543222		Latitude (°) 32° 7' 23.295" N		Longitude (°) 103° 45' 45.784" W		Orig KB Elevation (ft) 3,387.00		Ground Elev MSL (ft) 3,362.00		P.B. - GL (ft) 25.00	
Wellbores													
Wellbore Name OH				Parent Wellbore OH				SAP Well ID 39060				Vertical Section Direction (°) 183.33	
Kick Offs & Key Depths													
Date 11/2/2015				Type CURVE				Top Depth (ftKB) 9,711.0					
Actual Deviation Survey EXTREME SURVEYS, Proposed? No				Definitive? No		Proposed? No		Proposed Deviation Survey EXTREME SURVEYS, Proposed? No					
Deviation Survey													
Date 10/24/2015				Description EXTREME SURVEYS									
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)	OLS (°/100ft)	Survey Tool	Survey Company			
10/24/2...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME			
10/24/2...	273.00	0.62	310.91	272.99	-0.90	0.97	-1.12	0.23	MWD	EXTREME			
10/24/2...	367.00	0.88	329.50	366.99	-1.81	1.92	-1.87	0.38	MWD	EXTREME			
10/24/2...	462.00	1.19	340.84	461.97	-3.33	3.48	-2.56	0.39	MWD	EXTREME			
10/24/2...	556.00	1.32	347.21	555.95	-5.27	5.46	-3.12	0.20	MWD	EXTREME			
10/24/2...	650.00	1.58	342.91	649.92	-7.52	7.76	-3.74	0.30	MWD	EXTREME			
10/24/2...	745.00	1.80	343.21	744.88	-10.15	10.44	-4.56	0.23	MWD	EXTREME			
10/24/2...	777.00	1.71	349.81	776.86	-11.09	11.39	-4.79	0.69	MWD	EXTREME			
10/24/2...	986.00	0.26	320.70	985.83	-14.47	14.82	-5.64	0.71	MWD	PATHFINDER			
10/24/2...	1,080.00	0.26	316.91	1,079.83	-14.77	15.14	-5.92	0.02	MWD	PATHFINDER			
10/24/2...	1,175.00	0.70	305.73	1,174.82	-15.23	15.64	-6.54	0.47	MWD	PATHFINDER			
10/24/2...	1,264.00	0.53	330.64	1,263.82	-15.87	16.32	-7.18	0.35	MWD	PATHFINDER			
10/24/2...	1,353.00	0.44	272.98	1,352.81	-16.22	16.69	-7.72	0.53	MWD	PATHFINDER			
10/24/2...	1,442.00	0.44	277.24	1,441.81	-16.24	16.75	-8.40	0.04	MWD	PATHFINDER			
10/24/2...	1,532.00	0.44	346.21	1,531.81	-16.59	17.13	-8.83	0.55	MWD	PATHFINDER			
10/24/2...	1,621.00	0.53	300.60	1,620.81	-17.11	17.67	-9.27	0.43	MWD	PATHFINDER			
10/24/2...	1,711.00	0.44	287.19	1,710.80	-17.38	17.99	-9.95	0.16	MWD	PATHFINDER			
10/24/2...	1,800.00	0.44	326.19	1,799.80	-17.73	18.37	-10.47	0.33	MWD	PATHFINDER			
10/24/2...	1,889.00	0.09	295.79	1,888.80	-18.03	18.69	-10.72	0.41	MWD	PATHFINDER			
10/24/2...	1,979.00	0.53	285.21	1,978.80	-18.15	18.83	-11.19	0.49	MWD	PATHFINDER			
10/24/2...	2,068.00	0.53	267.66	2,067.78	-18.19	18.92	-12.00	0.18	MWD	PATHFINDER			
10/24/2...	2,157.00	0.35	235.49	2,156.79	-17.98	18.75	-12.63	0.34	MWD	PATHFINDER			
10/24/2...	2,246.00	0.44	318.12	2,245.79	-18.05	18.85	-13.09	0.59	MWD	PATHFINDER			
10/24/2...	2,336.00	0.44	222.40	2,335.79	-18.03	18.85	-13.55	0.73	MWD	PATHFINDER			
10/24/2...	2,425.00	0.62	228.39	2,424.78	-17.42	18.28	-14.14	0.21	MWD	PATHFINDER			
10/24/2...	2,514.00	0.70	218.98	2,513.78	-16.64	17.53	-14.84	0.15	MWD	PATHFINDER			
10/24/2...	2,604.00	0.70	232.33	2,603.77	-15.84	16.77	-15.62	0.18	MWD	PATHFINDER			
10/24/2...	2,693.00	0.62	291.90	2,692.77	-15.63	16.62	-16.50	0.74	MWD	PATHFINDER			
10/24/2...	2,782.00	0.53	299.69	2,781.76	-15.97	17.00	-17.30	0.13	MWD	PATHFINDER			
10/24/2...	2,872.00	0.53	285.02	2,871.76	-16.24	17.32	-18.07	0.15	MWD	PATHFINDER			
10/24/2...	2,961.00	0.18	245.84	2,960.76	-16.26	17.37	-18.59	0.46	MWD	PATHFINDER			
10/24/2...	3,051.00	0.18	272.68	3,050.76	-16.19	17.31	-18.86	0.09	MWD	PATHFINDER			
10/24/2...	3,140.00	0.44	31.03	3,139.76	-16.49	17.61	-18.83	0.62	MWD	PATHFINDER			
10/24/2...	3,229.00	0.44	26.77	3,228.75	-17.11	18.21	-18.50	0.04	MWD	PATHFINDER			
10/24/2...	3,319.00	0.62	41.79	3,318.75	-17.80	18.88	-18.02	0.25	MWD	PATHFINDER			
10/24/2...	3,408.00	0.35	21.45	3,407.75	-18.44	19.50	-17.60	0.36	MWD	PATHFINDER			
10/24/2...	3,497.00	0.44	30.31	3,496.74	-19.00	20.04	-17.32	0.12	MWD	PATHFINDER			
10/24/2...	3,586.00	0.44	72.73	3,585.74	-19.43	20.44	-16.83	0.36	MWD	PATHFINDER			
10/24/2...	3,675.00	0.88	92.46	3,674.74	-19.56	20.51	-15.82	0.55	MWD	PATHFINDER			
10/24/2...	3,765.00	1.67	84.79	3,764.71	-19.76	20.60	-13.82	0.90	MWD	PATHFINDER			
10/28/2...	3,854.00	1.41	93.94	3,853.68	-19.94	20.64	-11.44	0.40	MWD	PATHFINDER			
10/28/2...	3,943.00	1.93	107.17	3,942.64	-19.57	20.13	-8.91	0.72	MWD	PATHFINDER			
10/28/2...	4,033.00	2.11	115.70	4,032.59	-18.58	18.96	-5.97	0.39	MWD	PATHFINDER			
10/28/2...	4,122.00	1.85	124.99	4,121.53	-17.20	17.43	-3.32	0.46	MWD	PATHFINDER			
10/28/2...	4,212.00	1.23	132.99	4,211.50	-15.82	15.93	-1.42	0.73	MWD	PATHFINDER			
10/28/2...	4,256.00	1.06	133.66	4,255.49	-15.26	15.33	-0.78	0.39	MWD	PATHFINDER			
10/30/2...	4,376.00	0.62	127.97	4,375.48	-14.17	14.17	0.53	0.37	MWD	PATHFINDER			
10/30/2...	4,465.00	0.53	115.10	4,464.48	-13.75	13.69	1.29	0.18	MWD	PATHFINDER			
10/30/2...	4,554.00	0.44	205.70	4,553.47	-13.28	13.21	1.51	0.78	MWD	PATHFINDER			
10/30/2...	4,644.00	0.79	226.29	4,643.47	-12.50	12.47	0.91	0.45	MWD	PATHFINDER			
10/30/2...	4,733.00	1.85	238.28	4,732.44	-11.23	11.29	-0.75	1.22	MWD	PATHFINDER			
10/30/2...	4,823.00	2.81	234.93	4,822.37	-9.02	9.26	-3.79	1.08	MWD	PATHFINDER			
10/30/2...	4,912.00	3.69	239.00	4,911.22	-6.05	6.53	-8.03	1.02	MWD	PATHFINDER			
10/30/2...	5,001.00	4.57	243.00	4,999.99	-2.65	3.45	-13.65	1.04	MWD	PATHFINDER			
10/30/2...	5,090.00	4.48	242.79	5,088.71	0.91	0.25	-19.90	0.10	MWD	PATHFINDER			
10/30/2...	5,180.00	4.31	242.97	5,178.45	4.40	-2.90	-26.04	0.19	MWD	PATHFINDER			
10/30/2...	5,269.00	4.48	237.03	5,267.19	8.15	-6.31	-31.93	0.55	MWD	PATHFINDER			
10/30/2...	5,358.00	4.75	244.51	5,355.90	11.99	-9.78	-38.18	0.74	MWD	PATHFINDER			
10/30/2...	5,458.00	4.92	246.05	5,455.54	15.95	-13.31	-45.83	0.21	MWD	PATHFINDER			
10/30/2...	5,537.00	4.75	246.89	5,534.26	18.96	-15.97	-51.94	0.23	MWD	PATHFINDER			
10/30/2...	5,626.00	5.45	251.13	5,622.91	22.19	-18.78	-59.32	0.89	MWD	PATHFINDER			
10/30/2...	5,716.00	5.54	251.91	5,712.50	25.40	-21.51	-67.50	0.13	MWD	PATHFINDER			

Provide signature page for survey

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				Ground Elev MSL (ft) 3,362.00
				KB - GL (ft) 25.00

Survey Data

Date	MD (ft/B)	Incl (°)	Azm (°)	TVD (ft/B)	VS (ft)	N/S (ft)	E/W (ft)	DLS (ft/100ft)	Survey Tool	Survey Company
10/30/2...	5,805.00	5.63	252.98	5,801.08	28.48	-24.12	-75.76	0.15	MWD	PATHFINDER
10/30/2...	5,894.00	5.28	255.09	5,889.67	31.28	-26.45	-83.89	0.45	MWD	PATHFINDER
10/30/2...	5,984.00	5.28	258.32	5,979.29	33.65	-28.36	-91.95	0.33	MWD	PATHFINDER
10/30/2...	6,073.00	5.28	243.85	6,067.92	36.73	-30.99	-99.63	1.49	MWD	PATHFINDER
10/30/2...	6,162.00	5.72	239.80	6,156.51	41.19	-35.03	-107.14	0.66	MWD	PATHFINDER
10/30/2...	6,252.00	5.45	237.57	6,246.08	46.17	-39.58	-114.62	0.38	MWD	PATHFINDER
10/30/2...	6,341.00	5.19	237.51	6,334.70	50.99	-44.00	-121.59	0.29	MWD	PATHFINDER
10/30/2...	6,430.00	5.10	237.49	6,423.34	55.66	-48.29	-128.32	0.10	MWD	PATHFINDER
10/30/2...	6,520.00	4.75	236.55	6,513.01	60.24	-52.50	-134.80	0.40	MWD	PATHFINDER
10/31/2...	6,609.00	5.19	238.81	6,601.67	64.74	-56.62	-141.31	0.53	MWD	PATHFINDER
10/31/2...	6,698.00	4.31	235.49	6,690.36	69.08	-60.62	-147.50	1.03	MWD	PATHFINDER
10/31/2...	6,787.00	4.31	235.85	6,779.11	73.17	-64.39	-153.03	0.03	MWD	PATHFINDER
10/31/2...	6,877.00	5.80	235.90	6,868.76	77.99	-68.84	-159.59	1.66	MWD	PATHFINDER
10/31/2...	6,966.00	5.36	236.10	6,957.34	83.24	-73.68	-166.77	0.49	MWD	PATHFINDER
10/31/2...	7,056.00	5.89	235.63	7,046.90	88.61	-78.63	-174.07	0.59	MWD	PATHFINDER
10/31/2...	7,145.00	5.63	235.20	7,135.45	94.09	-83.70	-181.42	0.30	MWD	PATHFINDER
10/31/2...	7,235.00	4.92	233.71	7,225.07	99.28	-88.50	-188.16	0.80	MWD	PATHFINDER
10/31/2...	7,324.00	5.54	233.96	7,313.70	104.44	-93.29	-194.71	0.70	MWD	PATHFINDER
10/31/2...	7,414.00	5.28	235.80	7,403.30	109.72	-98.17	-201.65	0.35	MWD	PATHFINDER
10/31/2...	7,503.00	5.01	234.53	7,491.94	114.65	-102.73	-208.20	0.33	MWD	PATHFINDER
10/31/2...	7,592.00	5.63	236.90	7,580.56	119.68	-107.37	-215.02	0.74	MWD	PATHFINDER
10/31/2...	7,682.00	5.36	237.39	7,670.15	124.76	-112.04	-222.26	0.30	MWD	PATHFINDER
10/31/2...	7,771.00	5.01	237.63	7,758.78	129.47	-116.36	-229.04	0.39	MWD	PATHFINDER
10/31/2...	7,860.00	4.57	235.57	7,847.47	133.91	-120.45	-235.25	0.53	MWD	PATHFINDER
10/31/2...	7,950.00	4.31	231.38	7,937.20	138.37	-124.59	-240.85	0.46	MWD	PATHFINDER
10/31/2...	8,039.00	4.04	229.25	8,025.96	142.78	-128.72	-245.84	0.35	MWD	PATHFINDER
10/31/2...	8,128.00	3.78	230.54	8,114.76	146.96	-132.63	-250.48	0.31	MWD	PATHFINDER
10/31/2...	8,218.00	3.61	228.17	8,204.57	150.98	-136.41	-254.88	0.25	MWD	PATHFINDER
10/31/2...	8,307.00	3.17	231.46	8,293.41	154.61	-139.81	-258.89	0.54	MWD	PATHFINDER
10/31/2...	8,397.00	2.99	232.38	8,383.28	157.81	-142.79	-262.70	0.21	MWD	PATHFINDER
11/1/2015	8,486.00	2.29	234.32	8,472.19	160.45	-145.25	-265.98	0.79	MWD	PATHFINDER
11/1/2015	8,576.00	1.67	236.84	8,562.13	162.36	-147.01	-268.54	0.70	MWD	PATHFINDER
11/1/2015	8,665.00	1.49	259.73	8,651.10	163.41	-147.93	-270.76	0.73	MWD	PATHFINDER
11/1/2015	8,754.00	2.02	246.10	8,740.06	164.40	-148.77	-273.34	0.75	MWD	PATHFINDER
11/1/2015	8,844.00	1.23	256.27	8,830.02	165.41	-149.64	-275.72	0.93	MWD	PATHFINDER
11/1/2015	8,933.00	1.23	260.59	8,919.00	165.90	-150.03	-277.59	0.10	MWD	PATHFINDER
11/1/2015	9,022.00	1.58	271.22	9,007.98	166.15	-150.16	-279.76	0.49	MWD	PATHFINDER
11/1/2015	9,111.00	1.58	296.27	9,096.94	165.72	-149.59	-282.09	0.77	MWD	PATHFINDER
11/1/2015	9,201.00	1.32	300.82	9,186.91	164.76	-148.51	-284.09	0.32	MWD	PATHFINDER
11/1/2015	9,290.00	0.70	212.39	9,275.90	164.76	-148.44	-285.26	1.66	MWD	PATHFINDER
11/1/2015	9,379.00	1.14	197.15	9,364.89	166.09	-149.74	-285.82	0.56	MWD	PATHFINDER
11/1/2015	9,469.00	1.32	209.51	9,454.87	167.89	-151.50	-286.59	0.36	MWD	PATHFINDER
11/1/2015	9,558.00	1.23	206.48	9,543.85	169.69	-153.25	-287.52	0.13	MWD	PATHFINDER
11/1/2015	9,647.00	1.14	222.27	9,632.83	171.26	-154.76	-288.54	0.38	MWD	PATHFINDER
11/2/2015	9,726.00	2.99	208.99	9,711.78	173.73	-157.14	-290.07	2.40	MWD	PATHFINDER
11/2/2015	9,770.00	8.35	188.85	9,755.55	177.95	-161.31	-291.12	12.81	MWD	PATHFINDER
11/2/2015	9,815.00	12.66	182.00	9,799.79	186.13	-169.47	-291.80	9.96	MWD	PATHFINDER
11/2/2015	9,860.00	13.72	179.25	9,843.60	196.38	-179.73	-291.90	2.74	MWD	PATHFINDER
11/2/2015	9,904.00	17.06	176.34	9,886.02	208.00	-191.39	-291.42	7.79	MWD	PATHFINDER
11/2/2015	9,949.00	21.81	177.35	9,928.44	222.87	-206.34	-290.61	10.58	MWD	PATHFINDER
11/2/2015	9,993.00	24.71	179.19	9,968.86	240.18	-223.71	-290.10	6.79	MWD	PATHFINDER
11/2/2015	10,038.00	28.49	181.30	10,009.09	260.29	-243.85	-290.21	8.66	MWD	PATHFINDER
11/2/2015	10,083.00	33.41	182.77	10,047.67	283.42	-266.97	-291.05	11.06	MWD	PATHFINDER
11/2/2015	10,127.00	37.20	183.15	10,083.57	308.85	-292.36	-292.37	8.63	MWD	PATHFINDER
11/2/2015	10,172.00	39.83	182.20	10,118.78	336.66	-320.35	-293.67	5.99	MWD	PATHFINDER
11/2/2015	10,217.00	42.38	182.78	10,152.68	366.44	-349.90	-294.96	5.73	MWD	PATHFINDER
11/2/2015	10,261.00	44.05	181.09	10,184.75	396.56	-380.01	-295.97	4.62	MWD	PATHFINDER
11/2/2015	10,306.00	46.52	180.10	10,216.41	428.50	-411.98	-296.30	5.71	MWD	PATHFINDER
11/2/2015	10,351.00	49.24	180.68	10,245.59	461.83	-445.36	-296.53	6.12	MWD	PATHFINDER
11/2/2015	10,395.00	52.50	180.55	10,274.35	495.92	-479.48	-296.89	7.41	MWD	PATHFINDER
11/2/2015	10,440.00	57.07	180.32	10,300.29	532.62	-516.23	-297.17	10.16	MWD	PATHFINDER
11/2/2015	10,485.00	63.40	181.07	10,322.62	571.63	-555.27	-297.65	14.14	MWD	PATHFINDER
11/2/2015	10,529.00	68.94	180.38	10,340.39	611.82	-595.50	-298.16	12.67	MWD	PATHFINDER
11/2/2015	10,574.00	72.28	181.05	10,355.33	654.21	-637.94	-298.69	7.55	MWD	PATHFINDER
11/2/2015	10,618.00	76.68	181.98	10,367.10	696.58	-680.31	-299.81	10.21	MWD	PATHFINDER
11/2/2015	10,663.00	79.84	182.71	10,376.26	740.62	-724.33	-301.62	7.20	MWD	PATHFINDER
11/2/2015	10,708.00	83.71	183.36	10,382.69	785.15	-768.79	-303.98	8.72	MWD	PATHFINDER
11/4/2015	10,767.00	88.99	183.38	10,386.45	844.01	-827.55	-307.44	8.95	MWD	PATHFINDER
11/4/2015	10,856.00	90.31	182.53	10,386.99	933.01	-916.43	-312.02	1.76	MWD	PATHFINDER
11/4/2015	10,946.00	89.25	181.99	10,367.34	1,022.99	-1,006.36	-315.57	1.32	MWD	PATHFINDER
11/4/2015	11,035.00	88.20	181.07	10,389.32	1,111.92	-1,095.30	-317.95	1.57	MWD	PATHFINDER
11/4/2015	11,124.00	87.76	179.75	10,392.46	1,200.75	-1,184.24	-318.58	1.56	MWD	PATHFINDER
11/4/2015	11,213.00	87.85	179.54	10,395.86	1,289.50	-1,273.17	-318.03	0.26	MWD	PATHFINDER
11/4/2015	11,303.00	88.20	179.00	10,398.97	1,379.22	-1,363.11	-316.89	0.71	MWD	PATHFINDER
11/4/2015	11,392.00	88.64	179.74	10,401.42	1,467.97	-1,452.07	-315.91	0.97	MWD	PATHFINDER



Well Name: SHIRE 22 FED 1H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name PADUCA				County EDDY		State/Province NM			
Surface Legal Location SEC 15-25S-31E		API/OWI 3001543222		Latitude (°) 32° 7' 23.295" N		Longitude (°) 103° 45' 45.784" W		Orig KB Elevation (ft) 3,387.00		Ground Elev MSL (ft) 3,362.00		KB - GL (ft) 25.00	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
11/4/2015	11,482.00	89.25	180.77	10,403.08	1,557.82	-1,542.05	-316.31	1.33	MWD	PATHFINDER			
11/5/2015	11,571.00	88.20	180.51	10,405.06	1,646.70	-1,631.03	-317.30	1.22	MWD	PATHFINDER			
11/5/2015	11,661.00	87.93	181.11	10,408.10	1,736.56	-1,720.96	-318.58	0.73	MWD	PATHFINDER			
11/5/2015	11,760.00	88.37	181.55	10,410.97	1,825.46	-1,809.89	-320.64	0.70	MWD	PATHFINDER			
11/5/2015	11,840.00	89.08	182.17	10,412.97	1,915.41	-1,899.82	-323.56	1.05	MWD	PATHFINDER			
11/5/2015	11,929.00	89.52	182.79	10,414.06	2,004.39	-1,988.73	-327.41	0.85	MWD	PATHFINDER			
11/5/2015	12,019.00	89.87	183.16	10,414.54	2,094.39	-2,078.61	-332.08	0.57	MWD	PATHFINDER			
11/5/2015	12,108.00	90.57	182.30	10,414.20	2,183.38	-2,167.51	-336.32	1.25	MWD	PATHFINDER			
11/5/2015	12,198.00	91.10	180.36	10,412.89	2,273.31	-2,257.47	-338.41	2.23	MWD	PATHFINDER			
11/5/2015	12,287.00	91.19	179.42	10,411.11	2,362.13	-2,346.45	-338.24	1.06	MWD	PATHFINDER			
11/5/2015	12,377.00	91.01	179.11	10,409.38	2,451.89	-2,436.42	-337.08	0.40	MWD	PATHFINDER			
11/5/2015	12,466.00	91.80	179.28	10,407.20	2,540.63	-2,525.39	-335.83	0.91	MWD	PATHFINDER			
11/5/2015	12,555.00	90.22	178.16	10,405.63	2,629.33	-2,614.35	-333.85	2.18	MWD	PATHFINDER			
11/5/2015	12,645.00	90.22	178.75	10,405.28	2,719.00	-2,704.31	-331.42	0.66	MWD	PATHFINDER			
11/5/2015	12,734.00	90.57	179.10	10,404.67	2,807.73	-2,793.30	-329.75	0.56	MWD	PATHFINDER			
11/5/2015	12,823.00	89.52	178.95	10,404.60	2,896.48	-2,882.28	-328.24	1.19	MWD	PATHFINDER			
11/5/2015	12,913.00	89.96	178.29	10,405.01	2,986.18	-2,972.25	-326.07	0.88	MWD	PATHFINDER			
11/5/2015	13,002.00	89.96	178.84	10,405.07	3,074.87	-3,061.23	-323.84	0.62	MWD	PATHFINDER			
11/5/2015	13,091.00	90.22	177.95	10,404.93	3,163.54	-3,150.19	-321.35	1.04	MWD	PATHFINDER			
11/5/2015	13,181.00	90.22	178.43	10,404.58	3,253.17	-3,240.14	-318.50	0.53	MWD	PATHFINDER			
11/5/2015	13,270.00	90.48	178.68	10,404.04	3,341.86	-3,329.11	-316.26	0.41	MWD	PATHFINDER			
11/5/2015	13,359.00	90.48	179.50	10,403.29	3,430.62	-3,418.10	-314.85	0.92	MWD	PATHFINDER			
11/5/2015	13,449.00	90.66	180.10	10,402.40	3,520.44	-3,508.09	-314.53	0.70	MWD	PATHFINDER			
11/5/2015	13,538.00	89.78	179.66	10,402.06	3,609.28	-3,597.09	-314.35	1.11	MWD	PATHFINDER			
11/5/2015	13,628.00	90.22	180.43	10,402.06	3,699.13	-3,687.09	-314.42	0.99	MWD	PATHFINDER			
11/5/2015	13,717.00	90.66	181.31	10,401.37	3,788.04	-3,776.08	-315.77	1.11	MWD	PATHFINDER			
11/5/2015	13,807.00	90.04	181.31	10,400.82	3,877.98	-3,866.05	-317.83	0.69	MWD	PATHFINDER			
11/5/2015	13,896.00	90.13	180.78	10,400.69	3,966.91	-3,955.04	-319.45	0.60	MWD	PATHFINDER			
11/5/2015	13,985.00	89.60	180.22	10,400.90	4,055.80	-4,044.03	-320.23	0.87	MWD	PATHFINDER			
11/5/2015	14,075.00	89.69	178.25	10,401.46	4,145.57	-4,134.02	-319.02	2.19	MWD	PATHFINDER			
11/6/2015	14,164.00	89.08	176.12	10,402.42	4,234.05	-4,222.90	-314.65	2.49	MWD	PATHFINDER			
11/6/2015	14,253.00	89.60	178.08	10,403.44	4,322.51	-4,311.77	-310.15	2.28	MWD	PATHFINDER			
11/6/2015	14,342.00	90.04	179.01	10,403.72	4,411.20	-4,400.74	-307.89	1.16	MWD	PATHFINDER			
11/6/2015	14,432.00	90.13	178.94	10,403.59	4,500.94	-4,490.73	-306.28	0.13	MWD	PATHFINDER			
11/6/2015	14,521.00	90.57	178.86	10,403.04	4,589.67	-4,579.71	-304.57	0.50	MWD	PATHFINDER			
11/6/2015	14,610.00	89.60	178.61	10,402.91	4,678.38	-4,668.59	-302.61	1.13	MWD	PATHFINDER			
11/6/2015	14,699.00	88.90	179.22	10,404.08	4,767.11	-4,757.66	-300.92	1.04	MWD	PATHFINDER			
11/6/2015	14,789.00	89.16	180.05	10,405.60	4,856.91	-4,847.65	-300.35	0.97	MWD	PATHFINDER			
11/6/2015	14,878.00	89.34	180.95	10,406.76	4,945.79	-4,936.64	-301.13	1.03	MWD	PATHFINDER			
11/6/2015	14,947.00	89.34	180.95	10,407.56	5,014.73	-5,005.62	-302.27	0.00	BIT	PATHFINDER			