



BELLATRIX 28 FED COM 8H

DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division DELAWARE BASIN	County EDDY	Field Name HACKBERRY	Region DELAWARE SLOPE EAST	State/Province NM
Surface Legal Location Sec. 29 T19S R31E	API/UWI 300154237.1	Latitude (°) 32° 37' 39.594" N	Longitude (°) 103° 52' 58.065" W	Ground Elev M. 3,483.40
Wellbores		Orig KB Elev (ft) 3,508.40	Tubing Head Elevation (ft)	
Wellbore Name OH	Parent Wellbore	SAP Well ID 37587	Vertical Section Direction	

Kick Offs & Key Depths

Date 1/28/2015	Type Kick Off	Top Depth (ftKB) 7,739.0
Actual Deviation Survey TELEDRIFF SURVEYS, Proposed? No	Definitive? Yes	Proposed? No
Proposed Deviation Survey		

Deviation Survey

Date 1/12/2015	Description TELEDRIFF 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)	DLS (°/100ft)	Survey Tool	Survey Company
1/12/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	TELEDRIFF
1/12/2015	132.00	0.30	113.60	132.00	0.33	-0.14	0.32	0.23	MWD	TELEDRIFF
1/12/2015	165.00	0.20	311.00	165.00	0.36	-0.14	0.35	1.50	MWD	TELEDRIFF
1/12/2015	257.00	0.10	191.00	257.00	0.22	-0.11	0.22	0.29	MWD	TELEDRIFF
1/12/2015	349.00	0.10	349.00	349.00	0.19	-0.11	0.19	0.21	MWD	TELEDRIFF
1/12/2015	440.00	0.00	299.00	440.00	0.17	-0.03	0.17	0.11	MWD	TELEDRIFF
1/12/2015	521.00	0.01	175.00	521.00	0.17	-0.04	0.17	0.01	MWD	TELEDRIFF
1/16/2015	672.00	0.20	127.60	672.00	0.40	-0.21	0.38	0.13	MWD	TELEDRIFF
1/16/2015	731.00	0.30	203.60	731.00	0.43	-0.42	0.40	0.54	MWD	TELEDRIFF
1/16/2015	824.00	0.00	41.60	824.00	0.35	-0.64	0.30	0.32	MWD	TELEDRIFF
1/16/2015	917.00	0.30	163.60	917.00	0.44	-0.87	0.37	0.32	MWD	TELEDRIFF
1/16/2015	1,010.00	0.10	138.60	1,010.00	0.58	-1.17	0.49	0.23	MWD	TELEDRIFF
1/16/2015	1,103.00	0.10	82.60	1,103.00	0.72	-1.22	0.63	0.10	MWD	TELEDRIFF
1/17/2015	1,289.00	0.20	211.60	1,289.00	0.73	-1.47	0.62	0.15	MWD	TELEDRIFF
1/17/2015	1,369.00	0.50	341.60	1,369.00	0.53	-1.26	0.44	0.81	MWD	TELEDRIFF
1/17/2015	1,461.00	0.40	212.60	1,460.99	0.22	-1.15	0.14	0.88	MWD	TELEDRIFF
1/17/2015	1,554.00	0.50	189.60	1,553.99	0.03	-1.82	0.11	0.22	MWD	TELEDRIFF
1/17/2015	1,647.00	0.20	29.60	1,646.99	0.07	-2.08	0.09	0.74	MWD	TELEDRIFF
1/17/2015	1,741.00	0.30	57.60	1,740.99	0.33	-1.81	0.19	0.16	MWD	TELEDRIFF
1/17/2015	1,836.00	0.03	109.60	1,835.99	0.56	-1.68	0.43	0.30	MWD	TELEDRIFF
1/17/2015	1,943.00	0.30	117.60	1,942.99	0.84	-1.82	0.70	0.25	MWD	TELEDRIFF
1/17/2015	2,037.00	0.30	123.60	2,036.99	1.28	-2.07	1.13	0.03	MWD	TELEDRIFF
1/17/2015	2,131.00	0.10	76.60	2,130.99	1.58	-2.19	1.41	0.26	MWD	TELEDRIFF
1/17/2015	2,223.00	0.10	71.60	2,222.99	1.73	-2.15	1.56	0.01	MWD	TELEDRIFF
1/17/2015	2,318.00	0.10	321.60	2,317.99	1.75	-2.06	1.59	0.17	MWD	TELEDRIFF
1/17/2015	2,406.00	0.20	187.60	2,405.99	1.69	-2.15	1.52	0.32	MWD	TELEDRIFF
1/17/2015	2,501.00	0.10	186.60	2,500.99	1.67	-2.39	1.49	0.11	MWD	TELEDRIFF
1/17/2015	2,595.00	0.30	222.60	2,594.99	1.52	-2.66	1.32	0.24	MWD	TELEDRIFF
1/17/2015	2,690.00	0.20	271.60	2,689.98	1.20	-2.83	0.98	0.24	MWD	TELEDRIFF
1/17/2015	2,786.00	0.50	250.60	2,785.98	0.65	-2.97	0.42	0.33	MWD	TELEDRIFF
1/21/2015	2,880.00	0.50	234.60	2,879.98	0.04	-3.34	0.30	0.15	MWD	TELEDRIFF
1/21/2015	2,975.00	0.50	274.60	2,974.98	0.78	-3.55	1.05	0.36	MWD	TELEDRIFF
1/21/2015	3,069.00	0.60	259.60	3,068.97	1.66	-3.61	1.95	0.19	MWD	TELEDRIFF
1/21/2015	3,164.00	0.70	244.60	3,163.97	2.65	-3.94	2.96	0.21	MWD	TELEDRIFF
1/21/2015	3,257.00	0.70	252.60	3,256.96	3.67	-4.36	4.01	0.11	MWD	TELEDRIFF
1/21/2015	3,351.00	0.70	270.60	3,350.95	4.77	-4.52	5.14	0.23	MWD	TELEDRIFF
1/21/2015	3,445.00	0.60	271.60	3,444.95	5.84	-4.50	6.20	0.11	MWD	TELEDRIFF
1/22/2015	3,539.00	0.60	266.60	3,538.94	6.82	-4.52	7.19	0.06	MWD	TELEDRIFF
1/22/2015	3,633.00	0.70	268.60	3,632.93	7.87	-4.56	8.25	0.11	MWD	TELEDRIFF
1/22/2015	3,727.00	0.50	274.60	3,726.93	8.86	-4.54	9.23	0.22	MWD	TELEDRIFF
1/22/2015	3,823.00	0.50	272.60	3,822.93	9.69	-4.49	10.07	0.02	MWD	TELEDRIFF
1/22/2015	3,917.00	0.60	267.60	3,916.92	10.59	-4.49	10.97	0.12	MWD	TELEDRIFF
1/22/2015	4,011.00	0.70	269.60	4,010.92	11.65	-4.52	12.04	0.11	MWD	TELEDRIFF
1/22/2015	4,107.00	0.60	271.60	4,106.91	12.74	-4.51	13.13	0.11	MWD	TELEDRIFF
1/22/2015	4,164.00	0.70	292.60	4,163.91	13.37	-4.37	13.75	0.45	MWD	TELEDRIFF
1/22/2015	4,297.00	0.70	277.69	4,296.90	14.95	-3.95	15.30	0.14	MWD	PATHFINDER
1/22/2015	4,392.00	1.14	155.35	4,391.89	15.07	-4.73	15.48	1.71	MWD	PATHFINDER



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Surface Legal Location Sec. 29 T19S R31E	APUWI 3001542371	Latitude (°) 32° 37' 39.594" N	Longitude (°) 103° 52' 58.065" W	Ground Elev M. 3,483.40
				Orig KB Elev (ft) 3,508.40
				Tubing Head Elevation (ft)

Survey Data											
Date	MD (ftKB)	Ind (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company	
1/22/2015	4,486.00	3.43	169.32	4,485.81	13.88	-8.34	14.57	2.49	MWD	PATHFINDER	
1/22/2015	4,581.00	3.87	175.74	4,580.62	12.66	-14.33	13.81	0.63	MWD	PATHFINDER	
1/22/2015	4,676.00	4.04	181.10	4,675.39	11.98	-20.87	13.63	0.43	MWD	PATHFINDER	
1/22/2015	4,770.00	5.80	191.12	4,769.04	12.34	-28.84	14.61	2.08	MWD	PATHFINDER	
1/22/2015	4,864.00	6.86	195.51	4,862.47	13.98	-38.91	17.03	1.24	MWD	PATHFINDER	
1/22/2015	4,959.00	6.24	186.02	4,956.85	15.21	-49.52	19.09	1.31	MWD	PATHFINDER	
1/22/2015	5,053.00	6.24	182.33	5,050.29	15.17	-59.70	19.83	0.43	MWD	PATHFINDER	
1/22/2015	5,148.00	6.07	185.84	5,144.75	15.10	-69.86	20.55	0.43	MWD	PATHFINDER	
1/22/2015	5,242.00	5.89	187.25	5,238.23	15.46	-79.59	21.67	0.25	MWD	PATHFINDER	
1/22/2015	5,337.00	6.86	178.99	5,332.65	15.17	-90.09	22.18	1.40	MWD	PATHFINDER	
1/22/2015	5,431.00	7.47	181.19	5,425.91	14.29	-101.82	22.21	0.71	MWD	PATHFINDER	
1/22/2015	5,526.00	6.95	179.16	5,520.16	13.42	-113.74	22.25	0.61	MWD	PATHFINDER	
1/26/2015	5,620.00	6.77	185.58	5,613.49	13.01	-124.94	22.71	0.84	MWD	PATHFINDER	
1/26/2015	5,714.00	8.18	184.09	5,706.69	13.08	-137.12	23.72	1.51	MWD	PATHFINDER	
1/26/2015	5,808.00	8.44	185.49	5,799.70	13.17	-150.66	24.86	0.35	MWD	PATHFINDER	
1/26/2015	5,903.00	7.21	182.94	5,893.82	13.14	-163.55	25.83	1.35	MWD	PATHFINDER	
1/27/2015	5,997.00	7.03	186.28	5,987.09	13.18	-175.16	26.77	0.48	MWD	PATHFINDER	
1/27/2015	6,092.00	6.77	189.45	6,081.40	13.86	-186.47	28.32	0.49	MWD	PATHFINDER	
1/27/2015	6,186.00	7.56	179.69	6,174.67	13.83	-198.12	29.20	1.54	MWD	PATHFINDER	
1/27/2015	6,280.00	7.65	177.67	6,267.85	12.59	-210.55	28.91	0.30	MWD	PATHFINDER	
1/27/2015	6,375.00	7.65	185.58	6,362.00	11.97	-223.16	29.27	1.11	MWD	PATHFINDER	
1/27/2015	6,469.00	7.56	184.88	6,455.18	12.15	-235.55	30.40	0.14	MWD	PATHFINDER	
1/27/2015	6,564.00	7.21	185.23	6,549.39	12.28	-247.71	31.48	0.37	MWD	PATHFINDER	
1/27/2015	6,658.00	7.03	185.49	6,642.66	12.47	-259.31	32.57	0.19	MWD	PATHFINDER	
1/27/2015	6,753.00	6.68	186.11	6,736.98	12.74	-270.59	33.71	0.38	MWD	PATHFINDER	
1/27/2015	6,848.00	7.12	181.80	6,831.30	12.63	-281.97	34.48	0.71	MWD	PATHFINDER	
1/27/2015	6,942.00	7.74	178.11	6,924.51	11.67	-294.12	34.46	0.83	MWD	PATHFINDER	
1/27/2015	7,037.00	7.47	176.62	7,018.67	10.13	-306.68	33.88	0.35	MWD	PATHFINDER	
1/27/2015	7,131.00	7.12	183.12	7,111.91	9.17	-318.60	33.84	0.95	MWD	PATHFINDER	
1/27/2015	7,225.00	6.68	189.18	7,205.23	9.49	-329.81	35.03	0.90	MWD	PATHFINDER	
1/27/2015	7,320.00	7.65	181.36	7,299.49	9.61	-341.59	36.06	1.45	MWD	PATHFINDER	
1/27/2015	7,414.00	7.91	178.73	7,392.63	8.63	-354.31	36.06	0.47	MWD	PATHFINDER	
1/27/2015	7,509.00	7.03	182.15	7,486.82	7.75	-366.66	36.14	0.04	MWD	PATHFINDER	
1/27/2015	7,604.00	6.86	154.64	7,581.15	4.70	-377.59	33.93	3.47	MWD	PATHFINDER	
1/28/2015	7,696.00	7.74	116.15	7,672.46	3.79	-385.29	26.01	5.30	MWD	PATHFINDER	
1/28/2015	7,728.00	7.91	106.65	7,704.16	7.94	-386.87	21.96	4.07	MWD	PATHFINDER	
1/28/2015	7,759.00	10.20	104.28	7,734.77	12.73	-388.16	17.26	7.48	MWD	PATHFINDER	
1/28/2015	7,791.00	12.84	106.48	7,766.12	19.00	-389.87	11.10	8.36	MWD	PATHFINDER	
1/28/2015	7,822.00	16.18	107.09	7,796.13	26.58	-392.12	3.67	10.79	MWD	PATHFINDER	
1/28/2015	7,854.00	19.26	102.44	7,826.61	36.16	-394.57	5.75	10.59	MWD	PATHFINDER	
1/28/2015	7,885.00	22.60	98.39	7,855.56	47.17	-396.54	16.64	11.74	MWD	PATHFINDER	
1/28/2015	7,917.00	26.29	95.49	7,884.69	60.40	-398.11	29.78	12.12	MWD	PATHFINDER	
1/28/2015	7,948.00	30.25	93.29	7,911.99	75.07	-399.22	44.42	13.21	MWD	PATHFINDER	
1/28/2015	7,980.00	33.85	92.68	7,939.11	92.05	-400.10	61.37	11.30	MWD	PATHFINDER	
1/28/2015	8,011.00	37.11	92.50	7,964.35	110.03	-400.91	79.34	10.52	MWD	PATHFINDER	
1/28/2015	8,042.00	39.83	93.12	7,988.62	129.30	-401.86	98.60	8.86	MWD	PATHFINDER	
1/28/2015	8,074.00	43.09	93.91	8,012.59	150.48	-403.16	119.75	10.32	MWD	PATHFINDER	
1/28/2015	8,105.00	45.64	93.65	8,034.75	172.16	-404.59	141.38	8.25	MWD	PATHFINDER	
1/28/2015	8,137.00	48.80	92.42	8,056.49	195.63	-405.83	164.83	10.27	MWD	PATHFINDER	
1/28/2015	8,168.00	51.44	91.45	8,076.36	219.40	-406.63	188.60	8.85	MWD	PATHFINDER	
1/28/2015	8,200.00	54.26	89.43	8,095.68	244.84	-406.81	214.10	10.15	MWD	PATHFINDER	
1/28/2015	8,231.00	56.98	88.55	8,113.19	270.30	-406.36	239.68	9.08	MWD	PATHFINDER	
1/28/2015	8,263.00	59.53	88.20	8,130.02	297.36	-405.59	266.88	8.02	MWD	PATHFINDER	
1/28/2015	8,294.00	61.64	88.46	8,145.25	324.21	-404.80	293.87	6.85	MWD	PATHFINDER	
1/28/2015	8,326.00	65.16	89.16	8,159.57	352.68	-404.21	322.47	11.17	MWD	PATHFINDER	
1/28/2015	8,357.00	68.24	90.04	8,171.83	381.05	-404.01	350.94	10.27	MWD	PATHFINDER	
1/28/2015	8,388.00	71.05	91.01	8,182.62	410.04	-404.28	380.00	9.53	MWD	PATHFINDER	
1/28/2015	8,420.00	74.39	91.89	8,192.12	440.55	-405.06	410.54	10.76	MWD	PATHFINDER	



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DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division		County	Field Name		Region			State/Province		
DELAWARE BASIN		EDDY	HACKBERRY		DELAWARE SLOPE EAST			NM		
Surface Legal Location		API/UMI	Latitude (°)		Longitude (°)		Ground Elev M.	Orig KB Elev (ft)	Tubing Head Elevation (ft)	
Sec. 29 T19S R31E		3001542371	32° 37' 39.594" N		103° 52' 58.065" W		3,483.40	3,508.40		
Survey Data										
Date	MD (ft)	Ind (°)	Azm (°)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/28/2015	8,451.00	77.12	93.29	8,199.75	470.58	-406.42	440.55	9.83	MWD	PATHFINDER
1/28/2015	8,483.00	79.76	91.80	8,206.16	501.91	-407.81	471.87	9.43	MWD	PATHFINDER
1/29/2015	8,514.00	83.62	91.27	8,210.64	532.54	-408.63	502.52	12.57	MWD	PATHFINDER
1/30/2015	8,548.00	85.91	90.75	8,213.74	566.34	-409.22	536.37	6.91	MWD	PATHFINDER
1/30/2015	8,580.00	88.55	90.48	8,215.29	598.23	-409.57	568.33	8.29	MWD	PATHFINDER
1/30/2015	8,642.00	90.75	89.52	8,215.67	660.04	-409.57	630.33	3.87	MWD	PATHFINDER
1/29/2015	8,737.00	89.43	88.81	8,215.52	754.63	-408.18	725.31	1.58	MWD	PATHFINDER
1/30/2015	8,831.00	88.55	88.72	8,217.18	848.16	-406.16	819.28	0.94	MWD	PATHFINDER
1/30/2015	8,926.00	88.11	87.93	8,219.94	942.58	-403.38	914.19	0.95	MWD	PATHFINDER
1/30/2015	9,020.00	88.99	87.93	8,222.32	1,035.95	-399.99	1,008.10	0.94	MWD	PATHFINDER
1/30/2015	9,115.00	88.64	90.22	8,224.29	1,130.51	-398.45	1,103.06	2.44	MWD	PATHFINDER
1/30/2015	9,209.00	88.46	90.22	8,226.67	1,224.22	-398.81	1,197.03	0.19	MWD	PATHFINDER
1/30/2015	9,304.00	88.55	90.13	8,229.14	1,318.93	-399.10	1,292.00	0.13	MWD	PATHFINDER
1/30/2015	9,398.00	88.02	90.48	8,231.96	1,412.65	-399.60	1,385.96	0.68	MWD	PATHFINDER
1/30/2015	9,492.00	87.93	90.48	8,235.28	1,506.36	-400.39	1,479.89	0.10	MWD	PATHFINDER
1/30/2015	9,587.00	88.81	90.75	8,237.98	1,601.12	-401.41	1,574.85	0.97	MWD	PATHFINDER
1/30/2015	9,681.00	89.52	90.83	8,239.35	1,694.92	-402.71	1,668.83	0.76	MWD	PATHFINDER
1/31/2015	9,775.00	88.81	90.48	8,240.72	1,788.70	-403.78	1,762.81	0.84	MWD	PATHFINDER
1/31/2015	9,870.00	89.16	89.87	8,242.40	1,883.43	-404.07	1,857.80	0.74	MWD	PATHFINDER
1/31/2015	9,964.00	88.02	90.22	8,244.72	1,977.12	-404.14	1,951.77	1.27	MWD	PATHFINDER
1/31/2015	10,058.00	87.93	89.87	8,248.04	2,070.79	-404.22	2,045.71	0.38	MWD	PATHFINDER
1/31/2015	10,153.00	88.20	89.96	8,251.25	2,165.44	-404.08	2,140.65	0.30	MWD	PATHFINDER
1/31/2015	10,247.00	88.46	89.87	8,253.99	2,259.11	-403.94	2,234.61	0.29	MWD	PATHFINDER
1/31/2015	10,342.00	88.90	90.13	8,256.17	2,353.80	-403.94	2,329.59	0.54	MWD	PATHFINDER
1/31/2015	10,436.00	89.52	90.04	8,257.47	2,447.52	-404.08	2,423.58	0.67	MWD	PATHFINDER
1/31/2015	10,531.00	89.60	90.31	8,258.20	2,542.26	-404.37	2,518.57	0.30	MWD	PATHFINDER
1/31/2015	10,625.00	90.04	90.31	8,258.50	2,636.02	-404.88	2,612.57	0.47	MWD	PATHFINDER
1/31/2015	10,719.00	89.25	91.54	8,259.08	2,729.84	-406.39	2,706.56	1.56	MWD	PATHFINDER
1/31/2015	10,814.00	88.90	90.66	8,260.61	2,824.66	-408.22	2,801.52	1.00	MWD	PATHFINDER
1/31/2015	10,908.00	89.25	90.83	8,262.13	2,918.46	-409.44	2,895.50	0.41	MWD	PATHFINDER
1/31/2015	11,003.00	88.37	89.78	8,264.10	3,013.19	-409.95	2,990.48	1.44	MWD	PATHFINDER
1/31/2015	11,097.00	88.11	89.16	8,266.99	3,106.79	-409.08	3,084.43	0.71	MWD	PATHFINDER
1/31/2015	11,191.00	90.04	88.20	8,268.51	3,200.30	-406.91	3,178.39	2.29	MWD	PATHFINDER
1/31/2015	11,286.00	91.54	88.02	8,267.20	3,294.72	-403.78	3,273.32	1.59	MWD	PATHFINDER
1/31/2015	11,380.00	91.63	88.29	8,264.60	3,388.12	-400.75	3,367.24	0.30	MWD	PATHFINDER
1/31/2015	11,475.00	92.42	87.58	8,261.24	3,482.45	-397.33	3,462.12	1.12	MWD	PATHFINDER
2/1/2015	11,569.00	90.75	88.72	8,258.64	3,575.85	-394.30	3,556.03	2.15	MWD	PATHFINDER
2/1/2015	11,663.00	91.36	89.08	8,256.91	3,669.39	-392.49	3,649.99	0.75	MWD	PATHFINDER
2/1/2015	11,758.00	89.43	89.96	8,256.25	3,764.04	-391.70	3,744.98	2.23	MWD	PATHFINDER
2/1/2015	11,852.00	88.64	90.31	8,257.84	3,857.76	-391.92	3,838.97	0.92	MWD	PATHFINDER
2/1/2015	11,946.00	88.55	90.66	8,260.14	3,951.51	-392.72	3,932.94	0.38	MWD	PATHFINDER
2/1/2015	12,041.00	89.08	90.66	8,262.11	4,046.28	-393.81	4,027.91	0.56	MWD	PATHFINDER
2/1/2015	12,135.00	87.05	91.45	8,265.28	4,140.06	-395.54	4,121.83	2.32	MWD	PATHFINDER
2/1/2015	12,229.00	86.00	91.19	8,270.98	4,233.75	-397.70	4,215.64	1.15	MWD	PATHFINDER
2/1/2015	12,323.00	85.82	91.19	8,277.68	4,327.36	-399.65	4,309.38	0.19	MWD	PATHFINDER
2/1/2015	12,418.00	86.88	91.45	8,283.73	4,422.03	-401.83	4,404.16	1.15	MWD	PATHFINDER
2/2/2015	12,512.00	86.79	90.04	8,288.92	4,515.69	-403.05	4,498.00	1.50	MWD	PATHFINDER
2/2/2015	12,607.00	85.82	88.99	8,295.04	4,610.14	-402.25	4,592.80	1.50	MWD	PATHFINDER
2/2/2015	12,701.00	85.56	88.72	8,302.11	4,703.43	-400.38	4,686.51	0.40	MWD	PATHFINDER
2/2/2015	12,795.00	86.44	89.43	8,308.66	4,796.80	-398.86	4,780.27	1.20	MWD	PATHFINDER
2/2/2015	12,890.00	87.85	90.13	8,313.40	4,891.36	-398.50	4,875.15	1.66	MWD	PATHFINDER
2/2/2015	12,984.00	87.32	90.48	8,317.36	4,985.04	-399.00	4,969.07	0.68	MWD	PATHFINDER
2/2/2015	13,078.00	87.05	90.22	8,321.97	5,078.69	-399.57	5,062.95	0.40	MWD	PATHFINDER
2/2/2015	13,196.00	87.76	90.92	8,327.32	5,196.30	-400.75	5,180.82	0.84	BIT	PATHFINDER