



Yates Petroleum Corp.

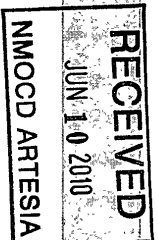
Eddy County
Bonbon "BNN" State Com
#1H
OH

Survey: BonBon-MWD

Pathfinder X & Y Survey Report

15 March, 2010

PATHFINDER





Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	WELL @ 2964.00ft (18' KB Correction)
Site:	Bonbon "BNN" State Com	MD Reference:	WELL @ 2964.00ft (18' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Project:	Eddy County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Bonbon "BNN" State Com			
Site Position:		Northing:	398,470.369 ft	Latitude:	32° 5' 42.814 N
From:	Map	Easting:	619,023.707 ft	Longitude:	104° 4' 56.869 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.13 °

Well:	#1H					
Well Position	+N/-S	0.00 ft	Northing:	398,470.369 ft	Latitude:	32° 5' 42.814 N
	+E/-W	0.00 ft	Easting:	619,023.707 ft	Longitude:	104° 4' 56.869 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	2,946.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/04/2010	7.97	60.01	48.619

Design:	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	89.53

Survey Program		Date 03/15/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
200.00	7,317.00	MWD #1 (OH)	MWD	MWD - Standard



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Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	Latitude	Longitude	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
0.00	0.00	0.00	0.00	-2,964.00	32° 5' 42.814 N	104° 4' 56.869 W	0.00	0.00	398,470.37	619,023.71	
200.00	0.25	93.02	200.00	-2,764.00	32° 5' 42.814 N	104° 4' 56.864 W	0.44	0.12	398,470.35	619,024.14	
400.00	1.00	124.12	399.99	-2,564.01	32° 5' 42.804 N	104° 4' 56.843 W	2.31	0.40	398,469.34	619,026.02	
600.00	0.75	142.22	599.96	-2,364.04	32° 5' 42.784 N	104° 4' 56.817 W	4.54	0.18	398,467.33	619,028.27	
800.00	1.50	182.41	799.93	-2,164.07	32° 5' 42.748 N	104° 4' 56.809 W	5.20	0.52	398,463.68	619,028.96	
1,000.00	0.50	192.51	999.89	-1,964.11	32° 5' 42.713 N	104° 4' 56.812 W	4.87	0.51	398,460.21	619,028.66	
1,200.00	0.25	347.61	1,199.89	-1,764.11	32° 5' 42.709 N	104° 4' 56.815 W	4.59	0.37	398,459.79	619,028.38	
1,400.00	0.50	247.70	1,399.89	-1,564.11	32° 5' 42.710 N	104° 4' 56.826 W	3.69	0.30	398,459.88	619,027.48	
1,600.00	0.50	327.80	1,599.88	-1,364.12	32° 5' 42.714 N	104° 4' 56.841 W	2.42	0.32	398,460.29	619,026.21	
1,800.00	1.50	77.90	1,799.86	-1,164.14	32° 5' 42.727 N	104° 4' 56.816 W	4.52	0.87	398,461.58	619,028.30	
2,000.00	3.00	81.99	1,999.70	-964.30	32° 5' 42.739 N	104° 4' 56.726 W	12.27	0.75	398,462.85	619,036.04	
2,200.00	1.25	105.10	2,199.56	-764.44	32° 5' 42.741 N	104° 4' 56.642 W	19.57	0.96	398,463.02	619,043.33	
2,400.00	0.50	2.68	2,399.54	-564.46	32° 5' 42.744 N	104° 4' 56.617 W	21.71	0.72	398,463.32	619,045.48	
2,600.00	0.50	274.77	2,599.54	-364.46	32° 5' 42.753 N	104° 4' 56.626 W	20.89	0.35	398,464.26	619,044.65	
2,800.00	0.50	286.87	2,799.53	-164.47	32° 5' 42.756 N	104° 4' 56.646 W	19.19	0.05	398,464.59	619,042.95	
3,000.00	0.25	270.97	2,999.52	35.52	32° 5' 42.759 N	104° 4' 56.661 W	17.92	0.13	398,464.85	619,041.68	
3,200.00	0.50	289.07	3,199.52	235.52	32° 5' 42.762 N	104° 4' 56.675 W	16.66	0.14	398,465.14	619,040.41	
3,400.00	0.25	329.16	3,399.52	435.52	32° 5' 42.768 N	104° 4' 56.688 W	15.62	0.17	398,465.80	619,039.37	
3,600.00	0.75	284.26	3,599.51	635.51	32° 5' 42.775 N	104° 4' 56.705 W	14.13	0.30	398,466.50	619,037.87	
3,800.00	0.50	292.36	3,799.50	835.50	32° 5' 42.782 N	104° 4' 56.729 W	12.06	0.13	398,467.15	619,035.80	
4,000.00	0.50	221.45	3,999.49	1,035.49	32° 5' 42.779 N	104° 4' 56.745 W	10.68	0.29	398,466.83	619,034.41	
4,200.00	0.50	208.55	4,199.48	1,235.48	32° 5' 42.765 N	104° 4' 56.757 W	9.67	0.06	398,465.41	619,033.42	
4,400.00	0.25	187.65	4,399.48	1,435.48	32° 5' 42.753 N	104° 4' 56.762 W	9.19	0.14	398,464.21	619,032.94	
4,600.00	0.50	185.75	4,599.47	1,635.47	32° 5' 42.740 N	104° 4' 56.764 W	9.03	0.13	398,462.91	619,032.80	
4,800.00	0.75	188.84	4,799.46	1,835.46	32° 5' 42.719 N	104° 4' 56.767 W	8.72	0.13	398,460.75	619,032.51	
5,000.00	1.00	178.94	4,999.44	2,035.44	32° 5' 42.688 N	104° 4' 56.769 W	8.53	0.15	398,457.71	619,032.34	
5,200.00	1.00	179.04	5,199.41	2,235.41	32° 5' 42.654 N	104° 4' 56.769 W	8.56	0.00	398,454.22	619,032.40	



Pathfinder
Pathfinder X & Y Survey Report



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Site:	Bonbon "BNN" State Com	MD Reference:	WELL @ 2964.00ft (18' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	Latitude	Longitude	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,400.00	0.50	188.13	5,399.39	2,435.39	32° 5' 42.628 N	104° 4' 56.770 W	8.45	0.26	398,451.61	619,032.31	
5,600.00	0.75	223.23	5,599.38	2,635.38	32° 5' 42.610 N	104° 4' 56.782 W	7.41	0.22	398,449.79	619,031.29	
5,800.00	0.75	197.33	5,799.36	2,835.36	32° 5' 42.588 N	104° 4' 56.797 W	6.11	0.17	398,447.59	619,030.00	
6,000.00	1.25	178.42	5,999.33	3,035.33	32° 5' 42.554 N	104° 4' 56.801 W	5.75	0.30	398,444.16	619,029.67	
6,128.00	1.23	226.70	6,127.30	3,163.30	32° 5' 42.531 N	104° 4' 56.812 W	4.77	0.79	398,441.82	619,028.71	
6,160.00	1.76	78.38	6,159.30	3,195.30	32° 5' 42.530 N	104° 4' 56.809 W	5.00	9.00	398,441.69	619,028.94	
6,191.00	6.60	81.94	6,190.21	3,226.21	32° 5' 42.533 N	104° 4' 56.783 W	7.23	15.63	398,442.03	619,031.17	
6,223.00	11.34	83.43	6,221.81	3,257.81	32° 5' 42.539 N	104° 4' 56.726 W	12.19	14.83	398,442.65	619,036.12	
6,255.00	15.92	84.61	6,252.90	3,288.90	32° 5' 42.547 N	104° 4' 56.639 W	19.69	14.34	398,443.42	619,043.62	
6,287.00	19.35	84.51	6,283.39	3,319.39	32° 5' 42.556 N	104° 4' 56.526 W	29.35	10.72	398,444.34	619,053.27	
6,318.00	23.13	86.82	6,312.28	3,348.28	32° 5' 42.564 N	104° 4' 56.396 W	40.55	12.49	398,445.17	619,064.47	
6,350.00	26.52	86.85	6,341.32	3,377.32	32° 5' 42.571 N	104° 4' 56.240 W	53.97	10.59	398,445.91	619,077.88	
6,382.00	30.25	89.10	6,369.47	3,405.47	32° 5' 42.575 N	104° 4' 56.064 W	69.17	12.12	398,446.43	619,093.08	
6,413.00	32.71	89.19	6,395.90	3,431.90	32° 5' 42.577 N	104° 4' 55.876 W	85.36	7.94	398,446.67	619,109.26	
6,445.00	35.17	90.30	6,422.45	3,458.45	32° 5' 42.578 N	104° 4' 55.668 W	103.22	7.93	398,446.75	619,127.13	
6,477.00	37.20	91.53	6,448.28	3,484.28	32° 5' 42.574 N	104° 4' 55.448 W	122.11	6.74	398,446.44	619,146.02	
6,508.00	40.27	91.89	6,472.45	3,508.45	32° 5' 42.568 N	104° 4' 55.223 W	141.49	9.93	398,445.86	619,165.40	
6,540.00	43.97	92.40	6,496.19	3,532.19	32° 5' 42.560 N	104° 4' 54.974 W	162.92	11.61	398,445.05	619,186.84	
6,572.00	47.40	91.55	6,518.54	3,554.54	32° 5' 42.551 N	104° 4' 54.708 W	185.80	10.89	398,444.27	619,209.72	
6,603.00	49.95	90.44	6,539.01	3,575.01	32° 5' 42.547 N	104° 4' 54.437 W	209.07	8.65	398,443.87	619,233.00	
6,635.00	53.29	89.40	6,558.87	3,594.87	32° 5' 42.547 N	104° 4' 54.146 W	234.15	10.74	398,443.91	619,258.08	
6,667.00	56.98	87.95	6,577.16	3,613.16	32° 5' 42.552 N	104° 4' 53.840 W	260.39	12.12	398,444.53	619,284.32	
6,698.00	60.59	87.27	6,593.23	3,629.23	32° 5' 42.563 N	104° 4' 53.533 W	286.89	11.80	398,445.63	619,310.81	
6,730.00	64.98	87.11	6,607.86	3,643.86	32° 5' 42.576 N	104° 4' 53.202 W	315.31	13.73	398,447.03	619,339.22	
6,762.00	70.00	87.53	6,620.10	3,656.10	32° 5' 42.589 N	104° 4' 52.859 W	344.84	15.73	398,448.41	619,368.74	
6,794.00	75.01	87.99	6,629.72	3,665.72	32° 5' 42.600 N	104° 4' 52.504 W	375.34	15.72	398,449.60	619,399.23	
6,858.00	86.17	90.36	6,640.17	3,676.17	32° 5' 42.607 N	104° 4' 51.772 W	438.37	17.81	398,450.49	619,462.26	



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Site:	Bonbon "BNN" State Com	MD Reference:	WELL @ 2964.00ft (18' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	Latitude	Longitude	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
6,890.00	88.20	91.76	6,641.74	3,677.74	32° 5' 42.600 N	104° 4' 51.400 W	470.32	7.70	398,449.90	619,494.21	
6,985.00	88.02	92.01	6,644.87	3,680.87	32° 5' 42.567 N	104° 4' 50.297 W	565.19	0.32	398,446.77	619,589.11	
7,080.00	88.90	91.42	6,647.43	3,683.43	32° 5' 42.537 N	104° 4' 49.194 W	660.08	1.12	398,443.93	619,684.03	
7,175.00	88.99	92.14	6,649.18	3,685.18	32° 5' 42.506 N	104° 4' 48.090 W	754.99	0.76	398,440.98	619,778.97	
7,269.00	89.60	89.11	6,650.33	3,686.33	32° 5' 42.493 N	104° 4' 46.998 W	848.96	3.29	398,439.95	619,872.94	
7,365.00	90.22	90.43	6,650.48	3,686.48	32° 5' 42.495 N	104° 4' 45.882 W	944.95	1.52	398,440.34	619,968.94	
7,460.00	89.96	90.54	6,650.33	3,686.33	32° 5' 42.485 N	104° 4' 44.777 W	1,039.94	0.30	398,439.54	620,063.94	
7,555.00	88.90	88.25	6,651.28	3,687.28	32° 5' 42.492 N	104° 4' 43.673 W	1,134.93	2.66	398,440.54	620,158.92	
7,650.00	88.29	87.33	6,653.61	3,689.61	32° 5' 42.526 N	104° 4' 42.570 W	1,229.85	1.16	398,444.20	620,253.82	
7,745.00	88.55	85.66	6,656.23	3,692.23	32° 5' 42.582 N	104° 4' 41.468 W	1,324.68	1.78	398,450.01	620,348.60	
7,840.00	91.98	87.93	6,655.79	3,691.79	32° 5' 42.632 N	104° 4' 40.365 W	1,419.55	4.33	398,455.32	620,443.43	
7,935.00	90.66	86.69	6,653.60	3,689.60	32° 5' 42.674 N	104° 4' 39.262 W	1,514.45	1.91	398,459.77	620,538.30	
8,030.00	87.76	87.58	6,654.91	3,690.91	32° 5' 42.719 N	104° 4' 38.159 W	1,609.35	3.19	398,464.52	620,633.16	
8,125.00	88.11	87.97	6,658.33	3,694.33	32° 5' 42.753 N	104° 4' 37.056 W	1,704.24	0.55	398,468.21	620,728.02	
8,220.00	88.46	87.01	6,661.18	3,697.18	32° 5' 42.792 N	104° 4' 35.953 W	1,799.14	1.08	398,472.37	620,822.89	
8,315.00	88.11	84.20	6,664.02	3,700.02	32° 5' 42.862 N	104° 4' 34.853 W	1,893.86	2.98	398,479.64	620,917.56	
8,410.00	91.45	88.47	6,664.39	3,700.39	32° 5' 42.919 N	104° 4' 33.751 W	1,988.68	5.71	398,485.71	621,012.33	
8,506.00	88.99	91.38	6,664.02	3,700.02	32° 5' 42.918 N	104° 4' 32.635 W	2,084.66	3.97	398,485.84	621,108.31	
8,601.00	90.84	90.05	6,664.16	3,700.16	32° 5' 42.904 N	104° 4' 31.531 W	2,179.63	2.40	398,484.65	621,203.29	
8,696.00	89.69	91.89	6,663.72	3,699.72	32° 5' 42.886 N	104° 4' 30.427 W	2,274.59	2.28	398,483.04	621,298.27	
8,791.00	92.77	90.79	6,661.68	3,697.68	32° 5' 42.862 N	104° 4' 29.323 W	2,369.51	3.44	398,480.82	621,393.21	
8,886.00	92.24	91.12	6,657.53	3,693.53	32° 5' 42.844 N	104° 4' 28.220 W	2,464.39	0.66	398,479.24	621,488.11	
8,982.00	90.66	91.41	6,655.10	3,691.10	32° 5' 42.821 N	104° 4' 27.105 W	2,560.31	1.67	398,477.12	621,584.05	
9,076.00	86.79	91.26	6,657.19	3,693.19	32° 5' 42.797 N	104° 4' 26.013 W	2,654.23	4.12	398,474.93	621,677.99	
9,172.00	87.76	90.46	6,661.75	3,697.75	32° 5' 42.780 N	104° 4' 24.898 W	2,750.09	1.31	398,473.49	621,773.86	
9,267.00	88.72	90.67	6,664.67	3,700.67	32° 5' 42.769 N	104° 4' 23.794 W	2,845.03	1.03	398,472.56	621,868.81	
9,362.00	89.60	91.05	6,666.06	3,702.06	32° 5' 42.753 N	104° 4' 22.690 W	2,939.99	1.01	398,471.13	621,963.79	



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9,457.00	90.04	89.51	6,666.36	3,702.36	32° 5' 42.746 N	104° 4' 21.586 W	3,034.98	1.69	398,470.67	622,058.79
9,553.00	90.66	90.40	6,665.78	3,701.78	32° 5' 42.744 N	104° 4' 20.470 W	3,130.97	1.13	398,470.74	622,154.78
9,648.00	91.45	89.80	6,664.03	3,700.03	32° 5' 42.740 N	104° 4' 19.366 W	3,225.95	1.04	398,470.58	622,249.77
9,743.00	92.24	88.22	6,660.97	3,696.97	32° 5' 42.754 N	104° 4' 18.262 W	3,320.90	1.86	398,472.22	622,344.70
9,838.00	90.57	86.69	6,658.64	3,694.64	32° 5' 42.794 N	104° 4' 17.159 W	3,415.80	2.38	398,476.43	622,439.57
9,933.00	91.54	87.05	6,656.89	3,692.89	32° 5' 42.843 N	104° 4' 16.056 W	3,510.68	1.09	398,481.62	622,534.41
10,028.00	87.58	87.21	6,657.62	3,693.62	32° 5' 42.887 N	104° 4' 14.953 W	3,605.57	4.17	398,486.38	622,629.27
10,123.00	88.55	87.84	6,660.83	3,696.83	32° 5' 42.926 N	104° 4' 13.851 W	3,700.46	1.22	398,490.48	622,724.13
10,218.00	87.32	88.40	6,664.25	3,700.25	32° 5' 42.954 N	104° 4' 12.747 W	3,795.37	1.42	398,493.59	622,819.01
10,314.00	88.64	86.88	6,667.63	3,703.63	32° 5' 42.991 N	104° 4' 11.633 W	3,891.25	2.10	398,497.54	622,914.87
10,409.00	88.64	87.21	6,669.89	3,705.89	32° 5' 43.037 N	104° 4' 10.530 W	3,986.13	0.35	398,502.44	623,009.71
10,504.00	88.55	86.15	6,672.22	3,708.22	32° 5' 43.089 N	104° 4' 9.428 W	4,080.99	1.12	398,507.94	623,104.52
10,599.00	89.87	86.26	6,673.53	3,709.53	32° 5' 43.149 N	104° 4' 8.326 W	4,175.82	1.39	398,514.22	623,199.30
10,694.00	89.34	85.45	6,674.18	3,710.18	32° 5' 43.215 N	104° 4' 7.224 W	4,270.62	1.02	398,521.09	623,294.05
10,790.00	88.46	87.00	6,676.03	3,712.03	32° 5' 43.275 N	104° 4' 6.111 W	4,366.44	1.86	398,527.41	623,389.82
10,885.00	88.20	88.53	6,678.79	3,714.79	32° 5' 43.309 N	104° 4' 5.007 W	4,461.35	1.63	398,531.11	623,484.71
10,980.00	87.23	86.32	6,682.58	3,718.58	32° 5' 43.349 N	104° 4' 3.905 W	4,556.20	2.54	398,535.38	623,579.53
11,015.00	88.55	87.34	6,683.87	3,719.87	32° 5' 43.368 N	104° 4' 3.499 W	4,591.14	4.76	398,537.31	623,614.45
11,094.00	88.55	87.34	6,685.87	3,721.87	32° 5' 43.402 N	104° 4' 2.582 W	4,670.05	0.00	398,540.98	623,693.34

BHL - 11094.00' MD, 88.55° INC, 87.34° AZI, 6685.87' TVD, 4670.05' VS, 70.61' N, 4669.63' E - BHL - 691.2' FSL 5000.6' FWL



Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	WELL @ 2964.00ft (18' KB Correction)
Site:	Bonbon "BNN" State Com	MD Reference:	WELL @ 2964.00ft (18' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL(BB#1)	0.00	0.00	6,690.00	38.66	4,669.65	398,509.030	623,693.357	32° 5' 43.086 N	104° 4' 2.582 W
- survey misses target center by 32 18ft at 11092.64ft MD (6685.84 TVD, 70.54 N, 4668.27 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	
11,094.00	6,685.87	70.61	4,669.63	BHL - 11094.00'MD,88.55°INC,87.34°AZI, 6685.87'TVD, 4670.05'VS, 7
11,094.00	6,685.87	70.61	4,669.63	BHL - 691.2' FSL 5000.6' FWL

Checked By: _____ Approved By: _____ Date: _____