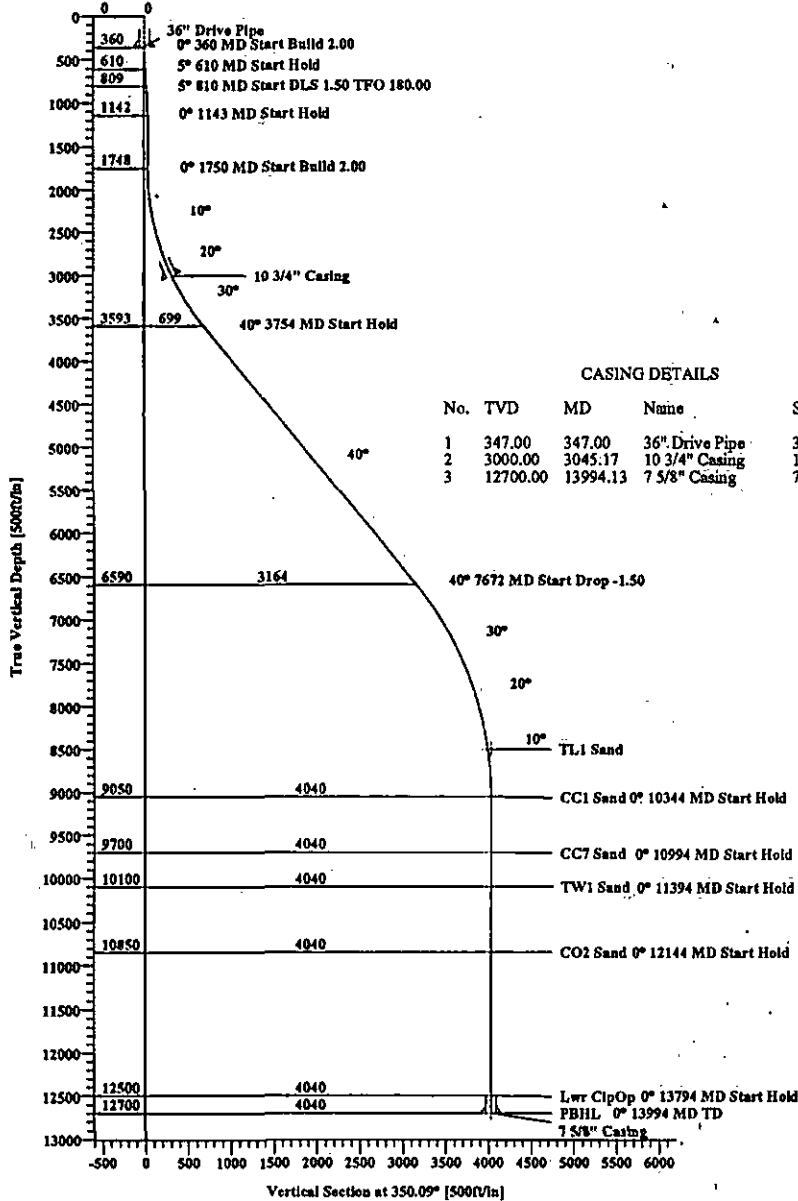




Azimuths to Grid North  
 True North: 0.42°  
 Magnetic North: 2.59°  
 Magnetic Field  
 Strength: 48591aT  
 Dip Angle: 59.49°  
 Date: 12/2/2003  
 Model: igr2000

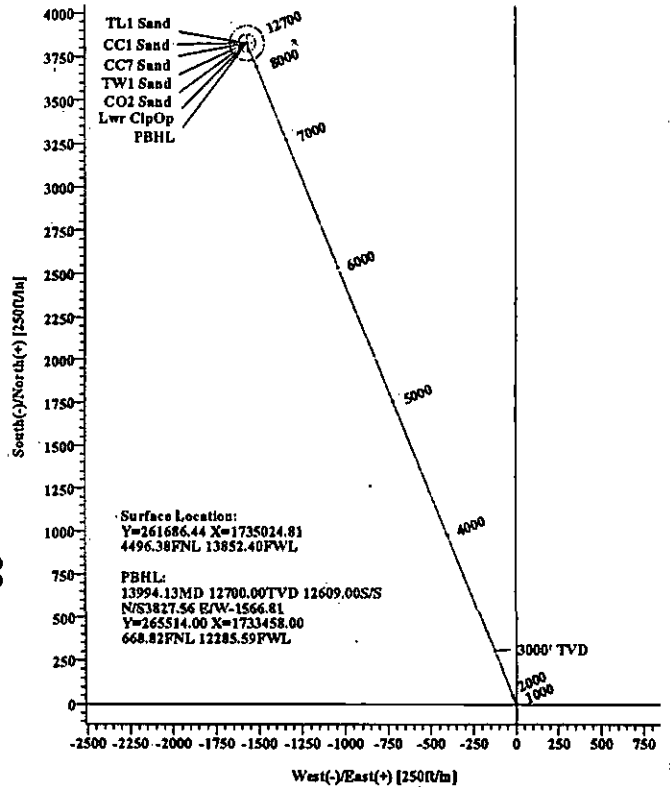


Field: Vermilion  
 Site: Vermilion Block 51 #3  
 Well: OCS-G 22605 Well #3  
 Wellpath: OH  
 Plan: Plan #6



CASING DETAILS

No.	TVD	MD	Name	Size
1	347.00	347.00	36" Drive Pipe	36.000
2	3000.00	3045.17	10 3/4" Casing	10.750
3	12700.00	13994.13	7 5/8" Casing	7.625



TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
TL1 Sand	8500.00	3827.56	-1566.81	265514.00	1733458.00	Circle (Radius: 50)
CC1 Sand	9050.00	3827.56	-1566.81	265514.00	1733458.00	Circle (Radius: 50)
CC7 Sand	9700.00	3827.56	-1566.81	265514.00	1733458.00	Circle (Radius: 50)
TW1 Sand	10100.00	3827.56	-1566.81	265514.00	1733458.00	Circle (Radius: 50)
CO2 Sand	10850.00	3827.56	-1566.81	265514.00	1733458.00	Circle (Radius: 50)
Lwr ClipOp	12500.00	3827.56	-1566.81	265514.00	1733458.00	Circle (Radius: 100)
PBHL	12700.00	3827.56	-1566.81	265514.00	1733458.00	Point

FIELD DETAILS

Vermilion  
 Geodetic System: US State Plane Coordinate System 1927  
 Ellipsoid: NAD27 (Clarke 1866)  
 Zone: Louisiana, Southern Zone  
 Magnetic Model: igr2000  
 System Datum: Mean Sea Level  
 Local North: Grid North

SITE DETAILS

Vermilion Block 51 #3  
 Site Centre Northing: 261686.44  
 Easting: 1735024.81  
 Water Depth: 0.00  
 Positional Uncertainty: 0.00  
 Convergence: -0.42

WELLPATH DETAILS

OH  
 Rtg: SITE 91.00R  
 Ref Datum:  
 V.Section Angle: 350.09°  
 Origin +N-S: 0.00  
 Origin +E-W: 0.00  
 Starting From TVD: 0.00  
 Plan: Plan #6 (OCS-G 22605 Well #3/OH)  
 Created By: Jenae Kirkpatrick  
 Date: 3/16/2004

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	337.88	0.00	0.00	0.00	0.00	0.00	0.00	
2	360.00	0.00	337.88	360.00	0.00	0.00	0.00	337.88	0.00	
3	610.00	5.00	337.88	609.68	10.10	-4.10	2.00	337.88	10.65	
4	810.00	5.00	337.88	808.92	26.25	-10.67	0.00	0.00	27.69	
5	1143.33	0.00	337.74	1141.83	39.71	-16.14	1.50	180.00	41.90	
6	1750.00	0.00	337.74	1748.50	39.71	-16.14	0.00	0.00	41.90	
7	3754.35	40.09	337.74	3593.28	662.57	-271.13	2.00	337.74	699.35	
8	7671.67	40.09	337.74	6590.29	2997.08	-1226.83	0.00	0.00	3163.50	
9	10344.13	0.00	337.74	9050.00	3827.56	-1566.81	1.50	180.00	4040.10	CC1 Sand
10	10994.13	0.00	337.74	9700.00	3827.56	-1566.81	0.00	337.74	4040.10	CC7 Sand
11	11394.13	0.00	337.74	10100.00	3827.56	-1566.81	0.00	337.74	4040.10	TW1 Sand
12	12144.13	0.00	337.74	10850.00	3827.56	-1566.81	0.00	337.74	4040.10	CO2 Sand
13	13794.13	0.00	337.74	12500.00	3827.56	-1566.81	0.00	337.74	4040.10	Lwr ClipOp
14	13994.13	0.00	337.74	12700.00	3827.56	-1566.81	0.00	337.74	4040.10	PBHL



# PathFinder Energy Services

## Pathfinder X & Y Report

Company: Bois D'Arc Offshore	Date: 3/16/2004	Time: 14:08:29	Page: 2
Field: Vermilion	Co-ordinate(N/E) Reference: Well: OCS-G-22605 Well #3, Grid North	SITE: 91.0	
Site: Vermilion Block 51 #3	Vertical (TYD) Reference: Well (0.00N, 0.00E, 350.09AZ)	Db: Sybase	
Well: OCS-G 22605 Well #3	Section (N/S) Reference:		
Wellpath: OH	Survey Calculation Method: Minimum Curvature		

### Plan Section Information

MD ft	Incl deg	Azim deg	TYD ft	+N/S ft	+E/W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	337.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
360.00	0.00	337.88	360.00	0.00	0.00	0.00	0.00	0.00	337.88	
610.00	5.00	337.88	609.68	10.10	-4.10	2.00	2.00	0.00	337.88	
810.00	5.00	337.88	808.92	26.25	-10.67	0.00	0.00	0.00	0.00	
1143.33	0.00	337.74	1141.83	39.71	-16.14	1.50	-1.50	6.64	180.00	
1750.00	0.00	337.74	1748.50	39.71	-16.14	0.00	0.00	0.00	0.00	
3754.35	40.09	337.74	3593.28	662.57	-271.13	2.00	2.00	0.00	337.74	
7671.67	40.09	337.74	6590.29	2997.08	-1226.83	0.00	0.00	0.00	0.00	
10344.13	0.00	337.74	9050.00	3827.56	-1566.81	1.50	-1.50	0.00	180.00	CC1 Sand
10994.13	0.00	337.74	9700.00	3827.56	-1566.81	0.00	0.00	0.00	337.74	CC7 Sand
11394.13	0.00	337.74	10100.00	3827.56	-1566.81	0.00	0.00	0.00	337.74	TW1 Sand
12144.13	0.00	337.74	10850.00	3827.56	-1566.81	0.00	0.00	0.00	337.74	CO2 Sand
13794.13	0.00	337.74	12500.00	3827.56	-1566.81	0.00	0.00	0.00	337.74	Lwr CipOp
13994.13	0.00	337.74	12700.00	3827.56	-1566.81	0.00	0.00	0.00	337.74	PBHL

### Survey

MD ft	Incl deg	Azim deg	TYD ft	Subsen ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	MapN ft	MapE ft	Tool/Comment
0.00	0.00	337.88	0.00	-91.00	0.00	0.00	0.00	0.00	261686.44	1735024.81	
100.00	0.00	337.88	100.00	9.00	0.00	0.00	0.00	0.00	261686.44	1735024.81	
200.00	0.00	337.88	200.00	109.00	0.00	0.00	0.00	0.00	261686.44	1735024.81	
300.00	0.00	337.88	300.00	209.00	0.00	0.00	0.00	0.00	261686.44	1735024.81	
360.00	0.00	337.88	360.00	269.00	0.00	0.00	0.00	0.00	261686.44	1735024.81	
400.00	0.80	337.88	400.00	309.00	0.27	0.26	-0.11	2.00	261686.70	1735024.70	
500.00	2.80	337.88	499.94	408.94	3.34	3.17	-1.29	2.00	261689.61	1735023.52	
610.00	5.00	337.88	609.68	518.68	10.65	10.10	-4.10	2.00	261696.54	1735020.71	
700.00	5.00	337.88	699.34	608.34	18.32	17.37	-7.06	0.00	261703.81	1735017.75	
810.00	5.00	337.88	808.92	717.92	27.69	26.25	-10.67	0.00	261712.69	1735014.14	
900.00	3.65	337.88	898.66	807.66	34.33	32.53	-13.22	1.50	261718.97	1735011.59	
1000.00	2.15	337.88	998.53	907.53	39.27	37.22	-15.13	1.50	261723.66	1735009.68	
1100.00	0.65	337.88	1098.50	1007.50	41.66	39.48	-16.05	1.50	261725.92	1735008.76	
1143.33	0.00	337.74	1141.83	1050.83	41.90	39.71	-16.14	1.50	261726.15	1735008.67	
1200.00	0.00	337.74	1198.50	1107.50	41.90	39.71	-16.14	0.00	261726.15	1735008.67	
1300.00	0.00	337.74	1298.50	1207.50	41.90	39.71	-16.14	0.00	261726.15	1735008.67	
1400.00	0.00	337.74	1398.50	1307.50	41.90	39.71	-16.14	0.00	261726.15	1735008.67	
1500.00	0.00	337.74	1498.50	1407.50	41.90	39.71	-16.14	0.00	261726.15	1735008.67	
1600.00	0.00	337.74	1598.50	1507.50	41.90	39.71	-16.14	0.00	261726.15	1735008.67	
1700.00	0.00	337.74	1698.50	1607.50	41.90	39.71	-16.14	0.00	261726.15	1735008.67	
1750.00	0.00	337.74	1748.50	1657.50	41.90	39.71	-16.14	0.00	261726.15	1735008.67	
1800.00	1.00	337.74	1798.50	1707.50	42.32	40.12	-16.31	2.00	261726.56	1735008.50	
1900.00	3.00	337.74	1898.43	1807.43	45.73	43.35	-17.63	2.00	261729.79	1735007.18	
2000.00	5.00	337.74	1998.18	1907.18	52.55	49.80	-20.27	2.00	261736.24	1735004.54	
2100.00	7.00	337.74	2097.63	2006.63	62.76	59.47	-24.23	2.00	261745.91	1735000.58	
2200.00	9.00	337.74	2196.65	2105.65	76.35	72.35	-29.50	2.00	261758.79	1734995.31	
2300.00	11.00	337.74	2295.13	2204.13	93.31	88.42	-36.08	2.00	261774.86	1734988.73	
2400.00	13.00	337.74	2392.94	2301.94	113.62	107.66	-43.96	2.00	261794.10	1734980.85	
2500.00	15.00	337.74	2489.96	2398.96	137.25	130.05	-53.12	2.00	261816.49	1734971.69	
2600.00	17.00	337.74	2586.08	2495.08	164.18	155.56	-63.57	2.00	261842.00	1734961.24	
2700.00	19.00	337.74	2681.18	2590.18	194.36	184.16	-75.27	2.00	261870.60	1734949.54	
2800.00	21.00	337.74	2775.15	2684.15	227.77	215.81	-88.23	2.00	261902.25	1734936.58	
2900.00	23.00	337.74	2867.86	2776.86	264.36	250.47	-102.42	2.00	261936.91	1734922.39	
3000.00	25.00	337.74	2959.21	2868.21	304.09	288.11	-117.83	2.00	261974.55	1734906.98	
3045.17	25.90	337.74	3000.00	2909.00	323.06	306.08	-125.19	2.00	261992.52	1734899.62	3000' TV
3100.00	27.00	337.74	3049.09	2958.09	346.91	328.68	-134.44	2.00	262015.12	1734890.37	
3200.00	29.00	337.74	3137.38	3046.38	392.77	372.12	-152.22	2.00	262058.56	1734872.59	

# PathFinder Energy Services

## PathFinder X & Y Report

Company: Bois D'Arc Offshore	Date: 3/16/2004	Time: 14:08:29	Page: 3
Field: Vermilion	Co-ordinate(NE) Reference:	Well: OCS-G-22605 Well #3, Grid North	
Site: Vermilion Block 51 #3	Vertical (TVD) Reference:	SITE 91-D	
Well: OCS-G 22605 Well #3	Section (VS) Reference:	Well (0.00N, 0.00E, 350.09AZ)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	Subsea ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	MapN ft	MapE ft	Tool/Comment
3300.00	31.00	337.74	3223.97	3132.97	441.61	418.39	-171.17	2.00	262104.83	1734853.64	
3400.00	33.00	337.74	3308.77	3217.77	493.37	467.43	-191.24	2.00	262153.87	1734833.57	
3500.00	35.00	337.74	3391.67	3300.67	547.99	519.18	-212.43	2.00	262205.62	1734812.38	
3600.00	37.00	337.74	3472.57	3381.57	605.41	573.58	-234.69	2.00	262260.02	1734790.12	
3700.00	39.00	337.74	3551.37	3460.37	665.55	630.55	-258.02	2.00	262316.99	1734766.79	
3754.35	40.09	337.74	3593.28	3502.28	699.35	662.57	-271.13	2.00	262349.01	1734753.68	
3800.00	40.09	337.74	3628.21	3537.21	728.06	689.78	-282.27	0.00	262376.22	1734742.54	
3900.00	40.09	337.74	3704.71	3613.71	790.97	749.37	-306.66	0.00	262435.81	1734718.15	
4000.00	40.09	337.74	3781.22	3690.22	853.87	808.97	-331.06	0.00	262495.41	1734693.75	
4100.00	40.09	337.74	3857.73	3766.73	916.78	868.56	-355.46	0.00	262555.00	1734669.35	
4200.00	40.09	337.74	3934.23	3843.23	979.68	928.16	-379.85	0.00	262614.60	1734644.96	
4300.00	40.09	337.74	4010.74	3919.74	1042.58	987.75	-404.25	0.00	262674.19	1734620.56	
4400.00	40.09	337.74	4087.25	3996.25	1105.49	1047.34	-428.65	0.00	262733.78	1734596.16	
4500.00	40.09	337.74	4163.75	4072.75	1168.39	1106.94	-453.04	0.00	262793.38	1734571.77	
4600.00	40.09	337.74	4240.26	4149.26	1231.30	1166.53	-477.44	0.00	262852.97	1734547.37	
4700.00	40.09	337.74	4316.77	4225.77	1294.20	1226.13	-501.84	0.00	262912.57	1734522.97	
4800.00	40.09	337.74	4393.27	4302.27	1357.10	1285.72	-526.23	0.00	262972.16	1734498.58	
4900.00	40.09	337.74	4469.78	4378.78	1420.01	1345.32	-550.63	0.00	263031.76	1734474.18	
5000.00	40.09	337.74	4546.29	4455.29	1482.91	1404.91	-575.03	0.00	263091.35	1734449.78	
5100.00	40.09	337.74	4622.79	4531.79	1545.82	1464.51	-599.42	0.00	263150.95	1734425.39	
5200.00	40.09	337.74	4699.30	4608.30	1608.72	1524.10	-623.82	0.00	263210.54	1734400.99	
5300.00	40.09	337.74	4775.81	4684.81	1671.62	1583.70	-648.22	0.00	263270.14	1734376.59	
5400.00	40.09	337.74	4852.31	4761.31	1734.53	1643.29	-672.61	0.00	263329.73	1734352.20	
5500.00	40.09	337.74	4928.82	4837.82	1797.43	1702.88	-697.01	0.00	263389.32	1734327.80	
5600.00	40.09	337.74	5005.33	4914.33	1860.34	1762.48	-721.41	0.00	263448.92	1734303.40	
5700.00	40.09	337.74	5081.83	4990.83	1923.24	1822.07	-745.80	0.00	263508.51	1734279.01	
5800.00	40.09	337.74	5158.34	5067.34	1986.15	1881.67	-770.20	0.00	263568.11	1734254.61	
5900.00	40.09	337.74	5234.85	5143.85	2049.05	1941.26	-794.60	0.00	263627.70	1734230.21	
6000.00	40.09	337.74	5311.35	5220.35	2111.95	2000.86	-818.99	0.00	263687.30	1734205.82	
6100.00	40.09	337.74	5387.86	5296.86	2174.86	2060.45	-843.39	0.00	263746.89	1734181.42	
6200.00	40.09	337.74	5464.37	5373.37	2237.76	2120.05	-867.79	0.00	263806.49	1734157.02	
6300.00	40.09	337.74	5540.87	5449.87	2300.67	2179.64	-892.19	0.00	263866.08	1734132.62	
6400.00	40.09	337.74	5617.38	5526.38	2363.57	2239.24	-916.58	0.00	263925.68	1734108.23	
6500.00	40.09	337.74	5693.89	5602.89	2426.47	2298.83	-940.98	0.00	263985.27	1734083.83	
6600.00	40.09	337.74	5770.39	5679.39	2489.38	2358.43	-965.38	0.00	264044.87	1734059.43	
6700.00	40.09	337.74	5846.90	5755.90	2552.28	2418.02	-989.77	0.00	264104.46	1734035.04	
6800.00	40.09	337.74	5923.41	5832.41	2615.19	2477.61	-1014.17	0.00	264164.05	1734010.64	
6900.00	40.09	337.74	5999.91	5908.91	2678.09	2537.21	-1038.57	0.00	264223.65	1733986.24	
7000.00	40.09	337.74	6076.42	5985.42	2740.99	2596.80	-1062.96	0.00	264283.24	1733961.85	
7100.00	40.09	337.74	6152.93	6061.93	2803.90	2656.40	-1087.36	0.00	264342.84	1733937.45	
7200.00	40.09	337.74	6229.43	6138.43	2866.80	2715.99	-1111.76	0.00	264402.43	1733913.05	
7300.00	40.09	337.74	6305.94	6214.94	2929.71	2775.59	-1136.15	0.00	264462.03	1733888.66	
7400.00	40.09	337.74	6382.45	6291.45	2992.61	2835.18	-1160.55	0.00	264521.62	1733864.26	
7500.00	40.09	337.74	6458.95	6367.95	3055.51	2894.78	-1184.95	0.00	264581.22	1733839.86	
7600.00	40.09	337.74	6535.46	6444.46	3118.42	2954.37	-1209.34	0.00	264640.81	1733815.47	
7671.67	40.09	337.74	6590.29	6499.29	3163.50	2997.08	-1226.83	0.00	264683.52	1733797.98	
7700.00	39.66	337.74	6612.04	6521.04	3181.24	3013.89	-1233.71	1.50	264700.33	1733791.10	
7800.00	38.16	337.74	6689.84	6598.84	3242.60	3072.02	-1257.51	1.50	264758.46	1733767.30	
7900.00	36.66	337.74	6769.27	6678.27	3301.95	3128.24	-1280.52	1.50	264814.68	1733744.29	
8000.00	35.16	337.74	6850.26	6759.26	3359.24	3182.52	-1302.74	1.50	264868.96	1733722.07	
8100.00	33.66	337.74	6932.76	6841.76	3414.45	3234.82	-1324.16	1.50	264921.26	1733700.65	
8200.00	32.16	337.74	7016.71	6925.71	3467.52	3285.11	-1344.74	1.50	264971.55	1733680.07	
8300.00	30.66	337.74	7102.05	7011.05	3518.43	3333.34	-1364.49	1.50	265019.78	1733660.32	

# PathFinder Energy Services

Fatimid A & I Report

Company: Bois D'Arc Offshore	Date: 3/16/2004	Time: 14:08:29	Page: 4
Field: Vermilion	Co-ordinate (NE) Reference: Well: OCS-G-22605 Well #3, Grd North		
Site: Vermilion Block 51 #3	Vertical (TYD) Reference: SITE 91.0		
Well: OCS-G 22605 Well #3	Section (VS) Reference: Well (0.00N,0.00E:350.09Az)		
Wellpath: OH	Survey Calculation Method: Minimum Curvature	Db: Sybase	

**Survey**

MD ft	Incl deg	Azim deg	TYD ft	Subsea ft	VS ft	NS ft	E/W ft	DLS deg/100ft	MapN ft	MapE ft	Tool/Comment
8400.00	29.16	337.74	7188.72	7097.72	3567.14	3379.49	-1383.38	1.50	265065.93	1733641.43	
8500.00	27.66	337.74	7276.68	7185.68	3613.62	3423.52	-1401.40	1.50	265109.96	1733623.41	
8600.00	26.16	337.74	7365.84	7274.84	3657.83	3465.41	-1418.55	1.50	265151.85	1733606.26	
8700.00	24.66	337.74	7456.17	7365.17	3699.75	3505.12	-1434.81	1.50	265191.56	1733590.00	
8800.00	23.16	337.74	7547.58	7456.58	3739.34	3542.63	-1450.16	1.50	265229.07	1733574.65	
8900.00	21.66	337.74	7640.02	7549.02	3776.59	3577.91	-1464.61	1.50	265264.35	1733560.20	
9000.00	20.16	337.74	7733.44	7642.44	3811.45	3610.94	-1478.13	1.50	265297.38	1733546.68	
9100.00	18.66	337.74	7827.75	7736.75	3843.92	3641.70	-1490.72	1.50	265328.14	1733534.09	
9200.00	17.16	337.74	7922.90	7831.90	3873.96	3670.16	-1502.37	1.50	265356.60	1733522.44	
9300.00	15.66	337.74	8018.82	7927.82	3901.56	3696.31	-1513.08	1.50	265382.75	1733511.73	
9400.00	14.16	337.74	8115.45	8024.45	3926.70	3720.12	-1522.83	1.50	265406.56	1733501.98	
9500.00	12.66	337.74	8212.72	8121.72	3949.36	3741.59	-1531.62	1.50	265428.03	1733493.19	
9600.00	11.16	337.74	8310.56	8219.56	3969.52	3760.69	-1539.44	1.50	265447.13	1733485.37	
9700.00	9.66	337.74	8408.91	8317.91	3987.17	3777.42	-1546.28	1.50	265463.86	1733478.53	
9792.22	8.28	337.74	8500.00	8409.00	4001.22	3790.72	-1551.73	1.50	265477.16	1733473.08	TL1 Sand
9800.00	8.16	337.74	8507.70	8416.70	4002.30	3791.75	-1552.15	1.50	265478.19	1733472.66	
9900.00	6.66	337.74	8606.87	8515.87	4014.91	3803.69	-1557.04	1.50	265490.13	1733467.77	
10000.00	5.16	337.74	8706.33	8615.33	4024.97	3813.22	-1560.94	1.50	265499.66	1733463.87	
10100.00	3.66	337.74	8806.03	8715.03	4032.48	3820.34	-1563.86	1.50	265506.78	1733460.95	
10200.00	2.16	337.74	8905.90	8814.90	4037.44	3825.04	-1565.78	1.50	265511.48	1733458.03	
10300.00	0.66	337.74	9005.87	8914.87	4039.85	3827.32	-1566.71	1.50	265513.76	1733458.10	
10344.13	0.00	337.74	9050.00	8959.00	4040.10	3827.56	-1566.81	1.50	265514.00	1733458.00	CC1 Sand
10400.00	0.00	337.74	9105.87	9014.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
10500.00	0.00	337.74	9205.87	9114.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
10600.00	0.00	337.74	9305.87	9214.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
10700.00	0.00	337.74	9405.87	9314.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
10800.00	0.00	337.74	9505.87	9414.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
10900.00	0.00	337.74	9605.87	9514.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
10994.13	0.00	337.74	9700.00	9609.00	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	CC7 Sand
11000.00	0.00	337.74	9705.87	9614.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11100.00	0.00	337.74	9805.87	9714.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11200.00	0.00	337.74	9905.87	9814.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11300.00	0.00	337.74	10005.87	9914.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11394.13	0.00	337.74	10100.00	10009.00	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	TW1 Sand
11400.00	0.00	337.74	10105.87	10014.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11500.00	0.00	337.74	10205.87	10114.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11600.00	0.00	337.74	10305.87	10214.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11700.00	0.00	337.74	10405.87	10314.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11800.00	0.00	337.74	10505.87	10414.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
11900.00	0.00	337.74	10605.87	10514.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12000.00	0.00	337.74	10705.87	10614.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12100.00	0.00	337.74	10805.87	10714.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12144.13	0.00	337.74	10850.00	10759.00	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	CO2 Sand
12200.00	0.00	337.74	10905.87	10814.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12300.00	0.00	337.74	11005.87	10914.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12400.00	0.00	337.74	11105.87	11014.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12500.00	0.00	337.74	11205.87	11114.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12600.00	0.00	337.74	11305.87	11214.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12700.00	0.00	337.74	11405.87	11314.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12800.00	0.00	337.74	11505.87	11414.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
12900.00	0.00	337.74	11605.87	11514.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13000.00	0.00	337.74	11705.87	11614.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	

# PathFinder Energy Services

## PathFinder X & Y Report

Company: Bois D'Arc Offshore	Date: 3/16/2004	Time: 14:08:29	Page: 5
Field: Vermilion	Co-ordinate (NE) Reference:	Well: OCS-G-22605 Well #3, Gnd North	
Site: Vermilion Block 51 #3	Vertical (TYD) Reference:	SITE 91.0	
Well: OCS-G-22605 Well #3	Section (VS) Reference:	Well (0.00N,0.00E,350.09Azi)	
Wellpath: QH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	Subsea ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	MapN ft	MapE ft	Tool/Comment
13100.00	0.00	337.74	11805.87	11714.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13200.00	0.00	337.74	11905.87	11814.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13300.00	0.00	337.74	12005.87	11914.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13400.00	0.00	337.74	12105.87	12014.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13500.00	0.00	337.74	12205.87	12114.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13600.00	0.00	337.74	12305.87	12214.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13700.00	0.00	337.74	12405.87	12314.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13794.13	0.00	337.74	12500.00	12409.00	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	Lwr CipO
13800.00	0.00	337.74	12505.87	12414.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13900.00	0.00	337.74	12605.87	12514.87	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	
13994.13	0.00	337.74	12700.00	12609.00	4040.10	3827.56	-1566.81	0.00	265514.00	1733458.00	PBHL

# PathFinder Energy Services

## Anticollision Report

Company:	Bois D'Arc Offshore	Date:	3/10/2004	Time:	16:09:42	Page:	1
Field:	Vermilion	Co-ordinate(NE) Reference:	Well: OCS-G: 22605: Well #3: Grid: North				
Reference Site:	Vermilion Block 51 #3	Vertical (TVD) Reference:	SITE 91:0				
Reference Well:	OCS-G: 22605: Well #3	Reference Wellpath:	OH				
							Db: Sybase

<b>NO GLOBAL SCAN: Using user defined selection &amp; scan criteria</b> Interpolation Method: MD + Stations Interval: 100.00 ft Depth Range: 0.00 to 12144.13 ft Maximum Radius: 100.00 ft	Reference: Plan: Plan #6 Error Model: Systematic Ellipse Scan Method: Closest Approach 3D Error Surface: Ellipse
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Plan: Plan #6	Date Composed: 2/27/2004
Principal: Yes	Version: 1
	Tied-to: From Surface

### Summary

Site	Offset Wellpath Well	Reference MD ft	Offset MD ft	Ctrl-Ctrl Distance ft	Edge Distance ft	Separation Factor	Warning
SMI 220 #1	OCS-G 22648 Well #OH V4 Plan: Plan #5 V1	300.00	300.00	7.51	7.15	20.66	
Vermilion Block 51#1	OCS-G 22605 Well #OH V0 Plan: Plan #5 V1	0.00	0.00	13.00			No Data
Vermilion Block 51#2	OCS-G 22605 Well #DH V4 Plan: Plan #2 V1	100.00	100.03	7.34			No Data
Vermilion Block 51#2	OCS-G 22605 Well #S1 V3 Plan: Plan #1 V1	100.00	100.03	7.34			No Data

Site: SMI 220 #1 Well: OCS-G 22648 Well #1 Wellpath: OH V4 Plan: Plan #5 V1	Inter-Site Error: 0.00 ft
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Reference MD ft	TVD ft	Offset		Semi-Major Axis			Offset Location		Ctrl-Ctrl Distance ft	Edge Distance ft	Separation Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
0.00	0.00	0.00	0.00	0.00	0.00	179.31	-7.51	0.09	7.51		No Data	
100.00	100.00	100.00	100.00	0.00	0.12	179.31	-7.51	0.09	7.51	7.39	61.99	
200.00	200.00	200.00	200.00	0.00	0.24	179.31	-7.51	0.09	7.51	7.27	30.99	
300.00	300.00	300.00	300.00	0.00	0.36	179.31	-7.51	0.09	7.51	7.15	20.66	
360.00	360.00	359.95	359.95	0.00	0.44	179.28	-7.53	0.09	7.53	7.09	17.13	
400.00	400.00	399.63	399.62	0.00	0.51	199.47	-8.58	0.31	8.86	8.35	17.41	
500.00	499.94	499.32	499.20	0.00	0.71	194.04	-12.92	1.01	16.26	15.58	23.75	
600.00	599.72	598.65	598.43	0.00	0.91	191.55	-17.61	1.28	27.42	26.56	31.83	
610.00	609.68	608.57	608.33	0.00	0.93	191.39	-18.09	1.28	28.73	27.85	32.67	
700.00	699.34	697.77	697.43	0.00	1.11	190.42	-22.37	1.23	40.63	39.59	39.09	
800.00	798.96	796.98	796.53	0.00	1.32	189.61	-27.11	1.39	53.90	52.68	44.26	
810.00	808.92	807.06	806.59	0.00	1.34	189.54	-27.56	1.41	55.20	53.96	44.66	
900.00	898.66	896.95	896.42	0.00	1.52	189.17	-30.97	1.42	65.21	63.81	46.69	
1000.00	998.53	997.49	996.92	0.00	1.70	189.16	-33.97	1.27	73.08	71.50	46.41	
1100.00	1098.50	1096.82	1096.21	0.00	1.89	189.37	-36.53	1.16	77.97	76.22	44.55	
1143.33	1141.83	1140.17	1139.55	0.00	1.98	167.49	-37.85	1.07	79.48	77.65	43.49	
1200.00	1198.50	1196.88	1196.23	0.00	2.08	167.95	-39.55	0.78	81.08	79.15	42.05	
1300.00	1298.50	1296.36	1295.64	0.00	2.28	169.05	-42.95	-0.14	84.24	82.14	40.00	
1400.00	1398.50	1396.93	1396.16	0.00	2.47	170.08	-46.20	-1.12	87.24	84.96	38.18	
1500.00	1498.50	1497.32	1496.50	0.00	2.66	171.14	-48.96	-2.32	89.77	87.30	36.44	
1600.00	1598.50	1598.23	1597.39	0.00	2.84	171.85	-50.82	-3.18	91.46	88.82	34.68	
1700.00	1698.50	1698.40	1697.55	0.00	3.01	172.25	-51.81	-3.69	92.37	89.56	32.85	
1750.00	1748.50	1748.01	1747.16	0.00	3.10	172.50	-52.47	-4.01	92.99	90.09	32.06	
1800.00	1798.50	1798.03	1797.17	0.00	3.19	195.00	-53.25	-4.39	94.13	91.15	31.50	
1900.00	1898.43	1898.01	1897.14	0.00	3.36	195.14	-54.73	-5.32	98.85	95.69	31.24	

Site: Vermilion Block 51#1 Well: OCS-G 22605 Well #1 Wellpath: OH V0 Plan: Plan #5 V1	Inter-Site Error: 0.00 ft
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Reference MD ft	TVD ft	Offset		Semi-Major Axis			Offset Location		Ctrl-Ctrl Distance ft	Edge Distance ft	Separation Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-IIS deg	North ft	East ft				
0.00	0.00	0.00	0.00	0.00	0.00	209.23	-11.35	-6.35	13.00		No Data	
100.00	100.00	99.99	99.99	0.00	0.00	208.28	-11.47	-6.17	13.03		No Data	
200.00	200.00	199.94	199.93	0.00	0.24	205.74	-11.98	-5.77	13.30	13.05	55.23	
300.00	300.00	299.82	299.81	0.00	0.50	201.86	-13.18	-5.29	14.20	13.70	28.28	
360.00	360.00	359.79	359.77	0.00	0.66	199.64	-14.19	-5.07	15.07	14.41	22.86	

# PathFinder Energy Services

## Anticollision Report

Company:	Bois D'Arc Offshore	Date:	3/10/2004	Time:	16:09:42	Page:	2
Field:	Vermilion	Co-ordinate(NE) Reference:	Well: OCS-G 22605 Well #3, Grid North				
Reference Site:	Vermilion Block 51 #3	Vertical (TVD) Reference:	SITE 91.0				
Reference Well:	OCS-G 22605 Well #3						
Reference Wellpath:	OH						
			Db: Sybase				

Site: Vermilion Block 51#1  
 Well: OCS-G 22605 Well #1  
 Wellpath: OH V0 Plan: Plan #5 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-IIS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
400.00	400.00	399.76	399.73	0.00	0.76	220.17	-14.88	-5.04	15.93	15.16	20.85	
500.00	499.94	499.65	499.57	0.00	1.03	220.95	-16.02	-7.80	20.27	19.24	19.76	
600.00	599.72	600.16	599.85	0.00	1.29	226.21	-14.02	-14.17	25.53	24.24	19.80	
610.00	609.68	610.19	609.84	0.00	1.32	226.70	-13.62	-14.91	26.07	24.75	19.80	
700.00	699.34	700.32	699.55	0.00	1.55	232.02	-9.05	-22.21	30.46	28.90	19.59	
800.00	798.96	801.13	799.59	0.00	1.82	240.95	-1.01	-31.62	33.95	32.13	18.63	
810.00	808.92	811.24	809.60	0.00	1.85	241.99	0.02	-32.58	34.18	32.33	18.48	
900.00	898.66	901.87	899.15	0.00	2.09	254.51	11.24	-40.89	34.92	32.82	16.68	
1000.00	998.53	1001.53	997.37	0.00	2.36	273.71	25.73	-49.52	36.28	33.92	15.36	
1100.00	1098.50	1100.61	1094.89	0.00	2.63	294.68	41.30	-57.57	41.72	39.09	15.89	
1143.33	1141.83	1143.21	1136.69	0.00	2.75	281.54	48.84	-60.83	45.90	43.16	16.78	
1200.00	1198.50	1198.42	1190.67	0.00	2.90	292.26	59.66	-64.87	53.23	50.35	18.50	
1300.00	1298.50	1294.13	1283.56	0.00	3.17	307.22	81.72	-71.45	71.04	67.93	22.81	
1400.00	1398.50	1386.74	1372.27	0.00	3.44	317.79	107.56	-77.69	95.28	91.95	28.60	

Site: Vermilion Block 51#2  
 Well: OCS-G 22605 Well #2  
 Wellpath: OH V4 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-IIS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	239.27	-3.84	-6.46	7.52			No Data
100.00	100.00	100.03	100.02	0.00	0.00	234.41	-4.27	-5.97	7.34			No Data
200.00	200.00	199.91	199.90	0.00	0.05	229.07	-5.15	-5.94	7.87	7.82	161.17	
300.00	300.00	299.84	299.82	0.00	0.10	225.56	-6.64	-6.77	9.48	9.38	92.58	
360.00	360.00	359.89	359.86	0.00	0.14	221.74	-7.83	-6.98	10.49	10.36	78.68	
400.00	400.00	399.94	399.89	0.00	0.16	239.68	-8.52	-6.85	11.08	10.92	71.87	
500.00	499.94	499.82	499.77	0.00	0.21	224.77	-10.15	-6.83	14.43	14.22	69.94	
600.00	599.72	599.77	599.71	0.00	0.38	210.63	-10.68	-6.74	20.20	19.83	53.44	
610.00	609.68	609.80	609.74	0.00	0.40	209.29	-10.67	-6.69	20.93	20.53	51.76	
700.00	699.34	699.94	699.86	0.00	0.64	199.45	-9.43	-5.79	26.83	26.20	42.14	
800.00	798.96	800.07	799.95	0.00	0.90	191.25	-6.98	-4.11	33.03	32.13	36.75	
810.00	808.92	810.13	810.01	0.00	0.93	190.54	-6.62	-3.93	33.57	32.65	36.29	
900.00	898.66	900.43	900.19	0.00	1.16	184.77	-2.52	-2.27	36.76	35.60	31.64	
1000.00	998.53	1000.46	1000.09	0.00	1.43	179.33	2.54	-0.56	37.65	36.22	26.43	
1100.00	1098.50	1100.55	1100.02	0.00	1.69	174.06	7.80	0.85	35.94	34.25	21.30	
1143.33	1141.83	1143.81	1143.21	0.00	1.80	149.37	10.17	1.35	34.36	32.56	19.07	
1200.00	1198.50	1200.13	1199.46	0.00	1.95	145.61	13.01	2.14	32.38	30.43	16.60	
1300.00	1298.50	1300.06	1299.26	0.00	2.21	137.68	17.74	3.87	29.73	27.52	13.43	
1400.00	1398.50	1400.17	1399.15	0.00	2.48	125.51	23.95	5.94	27.14	24.66	10.95	
1500.00	1498.50	1499.84	1498.52	0.00	2.74	108.92	31.32	8.34	25.88	23.13	9.44	
1600.00	1598.50	1599.65	1598.10	0.00	3.01	93.96	37.87	10.46	26.67	23.66	8.88	
1700.00	1698.50	1699.73	1698.04	0.00	3.27	84.01	42.67	12.03	28.33	25.06	8.67	
1750.00	1748.50	1749.81	1748.09	0.00	3.40	81.01	44.26	12.59	29.09	25.69	8.56	
1800.00	1798.50	1799.88	1798.14	0.00	3.53	101.99	45.43	13.02	29.81	26.28	8.45	
1900.00	1898.43	1899.91	1898.16	0.00	3.79	105.26	47.19	13.86	31.73	27.94	8.37	
2000.00	1998.18	1999.86	1998.11	0.00	4.05	114.94	48.13	14.20	34.52	30.46	8.52	
2100.00	2097.63	2099.35	2097.59	0.00	4.31	128.01	48.39	14.53	40.31	36.01	9.36	
2200.00	2196.65	2198.63	2196.87	0.00	4.57	140.03	48.91	14.42	49.79	45.22	10.89	
2300.00	2295.13	2297.19	2295.42	0.00	4.83	148.99	50.00	14.59	63.59	58.77	13.17	
2400.00	2392.94	2395.21	2393.44	0.00	5.09	155.54	51.17	14.95	81.62	76.53	16.05	



# PathFinder Energy Services

## Anticollision Report

Company:	Bois D'Arc Offshore	Date:	3/10/2004	Time:	16:09:42	Page:	3
Field:	Vermillon	Co-ordinate(NE) Reference:	Well: OCS-G:22605 Well #3 Grid North				
Reference Site:	Vermillon Block 51 #3	Vertical (TVD) Reference:	SITE 91.0				
Reference Well:	OCS-G 22605 Well #3	Reference Wellpath:	OH				
Reference Wellpath:	OH	Db:	Sybase				

Site: Vermillon Block 51#2  
 Well: OCS-G 22605 Well #2  
 Wellpath: S1 V3 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Cir-Cir	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	239.27	-3.84	-6.46	7.52			No Data
100.00	100.00	100.03	100.02	0.00	0.00	234.41	-4.27	-5.97	7.34			No Data
200.00	200.00	199.91	199.90	0.00	0.05	229.07	-5.15	-5.94	7.87	7.82	161.17	
300.00	300.00	299.84	299.82	0.00	0.10	225.56	-6.64	-6.77	9.48	9.38	92.58	
360.00	360.00	359.89	359.86	0.00	0.14	221.74	-7.83	-6.98	10.49	10.36	78.68	
400.00	400.00	399.94	399.89	0.00	0.16	239.68	-8.52	-6.85	11.08	10.92	71.87	
500.00	499.94	499.94	499.89	0.00	0.42	224.24	-9.59	-6.47	13.77	13.36	33.17	
600.00	599.72	599.76	599.71	0.00	0.68	209.58	-9.96	-6.28	19.43	18.75	28.71	
610.00	609.68	609.79	609.73	0.00	0.70	208.22	-9.96	-6.22	20.17	19.46	28.67	
700.00	699.34	699.91	699.84	0.00	0.94	198.35	-8.72	-5.33	26.14	25.21	27.87	
800.00	798.96	800.03	799.92	0.00	1.20	190.20	-6.26	-3.64	32.42	31.22	27.02	
810.00	808.92	810.09	809.97	0.00	1.23	189.49	-5.91	-3.46	32.97	31.74	26.89	
900.00	898.66	900.38	900.15	0.00	1.46	183.73	-1.81	-1.81	36.22	34.76	24.77	
1000.00	998.53	1000.41	1000.04	0.00	1.73	178.25	3.25	-0.09	37.18	35.45	21.55	
1100.00	1098.50	1100.49	1099.98	0.00	1.99	172.85	8.51	1.31	35.54	33.55	17.87	
1143.33	1141.83	1143.75	1143.17	0.00	2.10	148.08	10.89	1.82	33.99	31.89	16.17	
1200.00	1198.50	1200.08	1199.42	0.00	2.25	144.20	13.72	2.60	32.06	29.81	14.24	
1300.00	1298.50	1300.01	1299.22	0.00	2.51	136.08	18.45	4.34	29.53	27.01	11.75	
1400.00	1398.50	1400.09	1399.09	0.00	2.78	123.72	24.66	6.41	27.12	24.34	9.76	
1500.00	1498.50	1499.77	1498.46	0.00	3.04	107.11	32.03	8.80	26.10	23.06	8.58	
1600.00	1598.50	1599.59	1598.05	0.00	3.31	92.39	38.58	10.92	27.09	23.79	8.20	
1700.00	1698.50	1699.69	1698.01	0.00	3.57	82.70	43.38	12.50	28.88	25.31	8.10	
1750.00	1748.50	1749.78	1748.07	0.00	3.70	79.79	44.97	13.05	29.67	25.97	8.02	
1800.00	1798.50	1799.85	1798.13	0.00	3.83	100.82	46.14	13.49	30.40	26.57	7.94	
1900.00	1898.43	1899.89	1898.14	0.00	4.09	104.10	47.90	14.33	32.28	28.19	7.89	
2000.00	1998.18	1999.85	1998.10	0.00	4.35	113.73	48.85	14.67	34.96	30.60	8.03	
2100.00	2097.63	2099.34	2097.59	0.00	4.61	126.86	49.11	15.00	40.58	35.97	8.81	
2200.00	2196.65	2198.62	2196.87	0.00	4.87	139.05	49.62	14.89	49.88	45.00	10.24	
2300.00	2295.13	2297.17	2295.41	0.00	5.13	148.22	50.72	15.06	63.54	58.41	12.39	
2400.00	2392.94	2395.20	2393.43	0.00	5.39	154.94	51.89	15.42	81.46	76.08	15.12	