



BARGE "MAP-705"
MARATHON ASHLAND PETROLEUM

OUTAGE TABLE

1 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 2145-2

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		
N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	
0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		
1	3.859.97	1	3.647.50	1	3.282.51	1	2.917.52	1	2.555.92	1	2.196.01	1	1.836.11	1	1.476.20	1	1.116.30	1	756.40	1	415.38	1	116.70	1	110.72	1	110.72	1	110.72	1
1/4	3.859.61	1/4	3.639.90	1/4	3.274.90	1/4	2.909.91	1/4	2.548.42	1/4	2.188.61	1/4	1.828.61	1/4	1.468.71	1/4	1.108.80	1/4	748.81	1/4	409.23	1/4	110.72	1/4	110.72	1/4	110.72	1/4	110.72	1/4
1/2	3.859.25	1/2	3.632.29	1/2	3.267.30	1/2	2.902.31	1/2	2.540.92	1/2	2.181.02	1/2	1.821.11	1/2	1.461.21	1/2	1.101.30	1/2	741.21	1/2	403.07	1/2	104.74	1/2	104.74	1/2	104.74	1/2	104.74	1/2
3/4	3.858.90	3/4	3.624.69	3/4	3.259.70	3/4	2.894.70	3/4	2.533.42	3/4	2.173.52	3/4	1.813.61	3/4	1.453.71	3/4	1.093.81	3/4	733.62	3/4	396.91	3/4	98.75	3/4	98.75	3/4	98.75	3/4	98.75	3/4
2	3.858.54	2	3.617.08	2	3.252.09	2	2.887.10	2	2.525.92	2	2.166.02	2	1.806.12	2	1.446.21	2	1.086.31	2	726.03	2	390.75	2	92.77	2	92.77	2	92.77	2	92.77	2
1/4	3.857.42	1/4	3.609.48	1/4	3.244.49	1/4	2.879.50	1/4	2.518.43	1/4	2.158.52	1/4	1.798.62	1/4	1.438.71	1/4	1.078.81	1/4	718.70	1/4	384.32	1/4	87.96	1/4	87.96	1/4	87.96	1/4	87.96	1/4
1/2	3.856.30	1/2	3.601.88	1/2	3.236.88	1/2	2.871.89	1/2	2.510.93	1/2	2.151.02	1/2	1.791.12	1/2	1.431.22	1/2	1.071.31	1/2	711.37	1/2	377.89	1/2	83.14	1/2	83.14	1/2	83.14	1/2	83.14	1/2
3/4	3.855.18	3/4	3.594.27	3/4	3.229.28	3/4	2.864.29	3/4	2.503.43	3/4	2.143.53	3/4	1.783.62	3/4	1.423.72	3/4	1.063.81	3/4	704.04	3/4	371.46	3/4	78.33	3/4	78.33	3/4	78.33	3/4	78.33	3/4
3	3.854.06	3	3.586.67	3	3.221.68	3	2.856.68	3	2.495.93	3	2.136.03	3	1.776.12	3	1.416.22	3	1.056.32	3	696.71	3	365.02	3	73.52	3	73.52	3	73.52	3	73.52	3
1/4	3.852.18	1/4	3.579.06	1/4	3.214.07	1/4	2.849.08	1/4	2.488.43	1/4	2.128.53	1/4	1.768.63	1/4	1.408.72	1/4	1.048.82	1/4	689.38	1/4	358.59	1/4	68.71	1/4	68.71	1/4	68.71	1/4	68.71	1/4
1/2	3.850.29	1/2	3.571.46	1/2	3.206.47	1/2	2.841.48	1/2	2.480.94	1/2	2.121.03	1/2	1.761.13	1/2	1.401.22	1/2	1.041.32	1/2	682.05	1/2	352.16	1/2	63.90	1/2	63.90	1/2	63.90	1/2	63.90	1/2
3/4	3.848.41	3/4	3.563.86	3/4	3.198.86	3/4	2.833.87	3/4	2.473.44	3/4	2.113.53	3/4	1.753.63	3/4	1.393.73	3/4	1.033.82	3/4	674.72	3/4	345.73	3/4	59.08	3/4	59.08	3/4	59.08	3/4	59.08	3/4
4	3.846.53	4	3.556.25	4	3.191.26	4	2.826.27	4	2.465.94	4	2.106.04	4	1.746.13	4	1.386.23	4	1.026.32	4	667.39	4	339.30	4	54.27	4	54.27	4	54.27	4	54.27	4
1/4	3.843.88	1/4	3.548.65	1/4	3.183.66	1/4	2.818.66	1/4	2.458.44	1/4	2.098.54	1/4	1.738.63	1/4	1.378.73	1/4	1.018.83	1/4	660.06	1/4	332.86	1/4	49.27	1/4	49.27	1/4	49.27	1/4	49.27	1/4
1/2	3.841.24	1/2	3.541.04	1/2	3.176.05	1/2	2.811.06	1/2	2.450.94	1/2	2.091.04	1/2	1.731.14	1/2	1.371.23	1/2	1.011.33	1/2	652.73	1/2	326.43	1/2	44.27	1/2	44.27	1/2	44.27	1/2	44.27	1/2
3/4	3.838.59	3/4	3.533.44	3/4	3.168.45	3/4	2.803.46	3/4	2.443.45	3/4	2.083.54	3/4	1.723.64	3/4	1.363.73	3/4	1.003.83	3/4	645.40	3/4	320.00	3/4	39.28	3/4	39.28	3/4	39.28	3/4	39.28	3/4
5	3.835.94	5	3.525.84	5	3.160.84	5	2.795.85	5	2.435.95	5	2.076.04	5	1.716.14	5	1.356.24	5	996.33	5	638.07	5	313.57	5	34.28	5	34.28	5	34.28	5	34.28	5
1/4	3.832.54	1/4	3.518.23	1/4	3.153.24	1/4	2.788.35	1/4	2.428.45	1/4	2.066.55	1/4	1.708.64	1/4	1.348.74	1/4	988.83	1/4	630.74	1/4	307.14	1/4	30.35	1/4	30.35	1/4	30.35	1/4	30.35	1/4
1/2	3.829.13	1/2	3.510.63	1/2	3.145.64	1/2	2.780.86	1/2	2.420.95	1/2	2.061.05	1/2	1.701.14	1/2	1.341.24	1/2	981.34	1/2	623.41	1/2	300.70	1/2	26.42	1/2	26.42	1/2	26.42	1/2	26.42	1/2
3/4	3.825.72	3/4	3.503.02	3/4	3.138.03	3/4	2.773.36	3/4	2.413.45	3/4	2.053.55	3/4	1.693.65	3/4	1.333.74	3/4	973.84	3/4	616.08	3/4	294.27	3/4	22.49	3/4	22.49	3/4	22.49	3/4	22.49	3/4
6	3.822.31	6	3.495.42	6	3.130.43	6	2.765.86	6	2.405.96	6	2.046.05	6	1.686.15	6	1.326.24	6	966.34	6	608.75	6	287.84	6	18.56	6	18.56	6	18.56	6	18.56	6
1/4	3.818.14	1/4	3.487.82	1/4	3.122.82	1/4	2.758.36	1/4	2.398.46	1/4	2.038.55	1/4	1.678.65	1/4	1.318.75	1/4	958.84	1/4	601.42	1/4	281.41	1/4	17.48	1/4	17.48	1/4	17.48	1/4	17.48	1/4
1/2	3.813.97	1/2	3.480.21	1/2	3.115.22	1/2	2.750.86	1/2	2.390.96	1/2	2.031.06	1/2	1.671.15	1/2	1.311.25	1/2	951.34	1/2	594.09	1/2	274.98	1/2	16.54	1/2	16.54	1/2	16.54	1/2	16.54	1/2
3/4	3.809.80	3/4	3.472.61	3/4	3.107.62	3/4	2.743.37	3/4	2.383.46	3/4	2.023.56	3/4	1.663.65	3/4	1.303.75	3/4	943.85	3/4	586.76	3/4	268.54	3/4	15.62	3/4	15.62	3/4	15.62	3/4	15.62	3/4
7	3.805.62	7	3.465.00	7	3.100.01	7	2.735.87	7	2.375.96	7	2.016.06	7	1.656.16	7	1.296.25	7	936.35	7	579.43	7	262.11	7	14.66	7	14.66	7	14.66	7	14.66	7
1/4	3.800.69	1/4	3.457.40	1/4	3.092.41	1/4	2.728.37	1/4	2.368.47	1/4	2.008.56	1/4	1.648.66	1/4	1.288.75	1/4	928.85	1/4	572.10	1/4	255.68	1/4	13.74	1/4	13.74	1/4	13.74	1/4	13.74	1/4
1/2	3.795.76	1/2	3.449.80	1/2	3.084.80	1/2	2.720.87	1/2	2.360.97	1/2	2.001.06	1/2	1.641.16	1/2	1.281.26	1/2	921.35	1/2	564.77	1/2	249.25	1/2	12.82	1/2	12.82	1/2	12.82	1/2	12.82	1/2
3/4	3.790.82	3/4	3.442.19	3/4	3.077.20	3/4	2.713.37	3/4	2.353.47	3/4	1.993.57	3/4	1.633.66	3/4	1.273.76	3/4	913.85	3/4	557.44	3/4	242.82	3/4	11.90	3/4	11.90	3/4	11.90	3/4	11.90	3/4
8	3.785.89	8	3.434.59	8	3.069.60	8	2.705.88	8	2.345.97	8	1.986.07	8	1.626.16	8	1.266.26	8	906.36	8	550.11	8	236.38	8	10.98	8	10.98	8	10.98	8	10.98	8
1/4	3.780.19	1/4	3.426.98	1/4	3.061.99	1/4	2.698.38	1/4	2.338.47	1/4	1.978.57	1/4	1.618.67	1/4	1.258.76	1/4	898.86	1/4	543.23	1/4	230.40	1/4	10.06	1/4	10.06	1/4	10.06	1/4	10.06	1/4
1/2	3.774.49	1/2	3.419.38	1/2	3.054.39	1/2	2.690.88	1/2	2.330.98	1/2	1.971.07	1/2	1.611.17	1/2	1.251.26</															



BARGE "MAP-705"
MARATHON ASHLAND PETROLEUM

OUTAGE TABLE

1 STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 2145-2

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
N		N		N		N		N		N		N		N		N		N		N		N		N		N		N	
0		0	3,677.92	0	3,312.92	0	2,947.93	0	2,585.91	0	2,226.00	0	1,866.10	0	1,506.20	0	1,146.29	0	786.39	0	440.02	0	134.66	0		0		0	
1/4		1/4	3,670.31	1/4	3,305.32	1/4	2,940.33	1/4	2,578.41	1/4	2,218.51	1/4	1,858.60	1/4	1,498.70	1/4	1,138.79	1/4	778.89	1/4	433.86	1/4	140.64	1/4		1/4		1/4	
1/2		1/2	3,662.71	1/2	3,297.72	1/2	2,932.72	1/2	2,570.91	1/2	2,211.01	1/2	1,851.10	1/2	1,491.20	1/2	1,131.30	1/2	771.39	1/2	427.70	1/2	128.67	1/2		1/2		1/2	
3/4		3/4	3,655.10	3/4	3,290.11	3/4	2,925.12	3/4	2,563.41	3/4	2,203.51	3/4	1,843.61	3/4	1,483.70	3/4	1,123.80	3/4	763.89	3/4	421.54	3/4	122.69	3/4		3/4		3/4	
1	3,859.97	1	3,647.50	1	3,282.51	1	2,917.52	1	2,555.92	1	2,196.01	1	1,836.11	1	1,476.20	1	1,116.30	1	756.40	1	415.38	1	116.70	1		1		1	
1/4	3,859.61	1/4	3,639.90	1/4	3,274.90	1/4	2,909.91	1/4	2,548.91	1/4	2,188.51	1/4	1,828.61	1/4	1,468.71	1/4	1,108.80	1/4	748.81	1/4	409.23	1/4	110.72	1/4		1/4		1/4	
1/2	3,859.25	1/2	3,632.29	1/2	3,267.30	1/2	2,902.31	1/2	2,540.92	1/2	2,181.02	1/2	1,821.11	1/2	1,461.21	1/2	1,101.30	1/2	741.21	1/2	403.07	1/2	104.74	1/2		1/2		1/2	
3/4	3,858.90	3/4	3,624.69	3/4	3,259.70	3/4	2,894.70	3/4	2,533.42	3/4	2,173.52	3/4	1,813.61	3/4	1,453.71	3/4	1,093.81	3/4	733.62	3/4	396.91	3/4	98.75	3/4		3/4		3/4	
2	3,858.54	2	3,617.08	2	3,252.09	2	2,887.10	2	2,525.92	2	2,166.02	2	1,806.12	2	1,446.21	2	1,086.31	2	726.03	2	390.75	2	92.77	2		2		2	
1/4	3,857.42	1/4	3,609.48	1/4	3,244.49	1/4	2,879.50	1/4	2,518.43	1/4	2,158.52	1/4	1,798.62	1/4	1,438.71	1/4	1,076.81	1/4	718.70	1/4	384.32	1/4	87.86	1/4		1/4		1/4	
1/2	3,856.30	1/2	3,601.88	1/2	3,236.88	1/2	2,871.89	1/2	2,510.93	1/2	2,151.02	1/2	1,791.12	1/2	1,431.22	1/2	1,071.31	1/2	711.37	1/2	377.89	1/2	83.14	1/2		1/2		1/2	
3/4	3,855.18	3/4	3,594.27	3/4	3,229.28	3/4	2,864.29	3/4	2,503.43	3/4	2,143.53	3/4	1,783.62	3/4	1,423.72	3/4	1,063.81	3/4	704.04	3/4	371.46	3/4	78.33	3/4		3/4		3/4	
3	3,854.06	3	3,586.67	3	3,221.68	3	2,856.68	3	2,495.93	3	2,136.03	3	1,776.12	3	1,416.22	3	1,056.32	3	696.71	3	365.02	3	73.52	3		3		3	
1/4	3,852.18	1/4	3,579.06	1/4	3,214.07	1/4	2,849.08	1/4	2,488.43	1/4	2,128.53	1/4	1,768.63	1/4	1,408.72	1/4	1,048.82	1/4	689.38	1/4	358.59	1/4	68.71	1/4		1/4		1/4	
1/2	3,850.29	1/2	3,571.46	1/2	3,206.47	1/2	2,841.48	1/2	2,480.94	1/2	2,121.03	1/2	1,761.13	1/2	1,401.22	1/2	1,041.32	1/2	682.05	1/2	352.16	1/2	63.90	1/2		1/2		1/2	
3/4	3,848.41	3/4	3,563.86	3/4	3,198.86	3/4	2,833.87	3/4	2,473.44	3/4	2,113.53	3/4	1,753.63	3/4	1,393.73	3/4	1,033.82	3/4	674.72	3/4	345.73	3/4	59.08	3/4		3/4		3/4	
4	3,846.53	4	3,556.25	4	3,191.26	4	2,826.27	4	2,465.94	4	2,106.04	4	1,746.13	4	1,386.23	4	1,026.32	4	667.39	4	339.30	4	54.27	4		4		4	
1/4	3,843.88	1/4	3,548.65	1/4	3,183.66	1/4	2,818.66	1/4	2,458.44	1/4	2,098.54	1/4	1,738.63	1/4	1,378.73	1/4	1,018.83	1/4	660.06	1/4	332.86	1/4	49.27	1/4		1/4		1/4	
1/2	3,841.24	1/2	3,541.04	1/2	3,176.05	1/2	2,811.06	1/2	2,450.94	1/2	2,091.04	1/2	1,731.14	1/2	1,371.23	1/2	1,011.33	1/2	652.06	1/2	326.43	1/2	44.27	1/2		1/2		1/2	
3/4	3,838.59	3/4	3,533.44	3/4	3,168.45	3/4	2,803.46	3/4	2,443.45	3/4	2,083.54	3/4	1,723.64	3/4	1,363.73	3/4	1,003.83	3/4	645.40	3/4	320.00	3/4	39.28	3/4		3/4		3/4	
5	3,835.94	5	3,525.84	5	3,160.84	5	2,795.85	5	2,435.95	5	2,076.04	5	1,716.14	5	1,356.24	5	996.33	5	630.07	5	313.57	5	34.28	5		5		5	
1/4	3,832.54	1/4	3,518.23	1/4	3,153.24	1/4	2,788.35	1/4	2,428.45	1/4	2,068.55	1/4	1,708.64	1/4	1,348.74	1/4	988.83	1/4	630.74	1/4	307.14	1/4	30.35	1/4		1/4		1/4	
1/2	3,829.13	1/2	3,510.63	1/2	3,145.64	1/2	2,780.86	1/2	2,420.95	1/2	2,061.05	1/2	1,701.14	1/2	1,341.24	1/2	981.34	1/2	623.41	1/2	300.70	1/2	26.42	1/2		1/2		1/2	
3/4	3,825.72	3/4	3,503.02	3/4	3,138.03	3/4	2,773.36	3/4	2,413.45	3/4	2,053.55	3/4	1,693.65	3/4	1,333.74	3/4	963.84	3/4	616.08	3/4	294.27	3/4	22.49	3/4		3/4		3/4	
6	3,822.31	6	3,495.42	6	3,130.43	6	2,765.86	6	2,405.96	6	2,046.05	6	1,686.15	6	1,326.24	6	963.34	6	608.75	6	287.84	6	18.56	6		6		6	
1/4	3,818.14	1/4	3,487.82	1/4	3,122.82	1/4	2,758.36	1/4	2,398.46	1/4	2,038.55	1/4	1,678.65	1/4	1,318.75	1/4	958.84	1/4	601.42	1/4	281.41	1/4		1/4		1/4		1/4	
1/2	3,813.97	1/2	3,480.21	1/2	3,115.22	1/2	2,750.86	1/2	2,390.96	1/2	2,031.06	1/2	1,671.15	1/2	1,311.25	1/2	951.34	1/2	594.09	1/2	274.98	1/2		1/2		1/2		1/2	
3/4	3,809.80	3/4	3,472.61	3/4	3,107.62	3/4	2,743.37	3/4	2,383.46	3/4	2,023.56	3/4	1,663.65	3/4	1,303.75	3/4	943.85	3/4	586.76	3/4	268.54	3/4		3/4		3/4		3/4	
7	3,805.62	7	3,465.00	7	3,100.41	7	2,735.87	7	2,375.96	7	2,016.06	7	1,656.16	7	1,296.25	7	936.35	7	579.43	7	262.11	7		7		7		7	
1/4	3,800.69	1/4	3,457.40	1/4	3,092.41	1/4	2,728.37	1/4	2,368.47	1/4	2,008.56	1/4	1,648.66	1/4	1,288.75	1/4	928.85	1/4	572.10	1/4	255.68	1/4		1/4		1/4		1/4	
1/2	3,795.76	1/2	3,449.80	1/2	3,084.80	1/2	2,720.87	1/2	2,360.97	1/2	2,001.06	1/2	1,641.16	1/2	1,281.26	1/2	921.35	1/2	564.77	1/2	249.25	1/2		1/2		1/2		1/2	
3/4	3,790.82	3/4	3,442.19	3/4	3,077.20	3/4	2,713.37	3/4	2,353.47	3/4	1,993.57	3/4	1,633.66	3/4	1,273.76	3/4	913.85	3/4	557.44	3/4	242.82	3/4		3/4		3/4		3/4	
8	3,785.89	8	3,434.59	8	3,069.60	8	2,705.88	8	2,345.97	8	1,986.07	8	1,626.16	8	1,266.26	8	906.36	8	550.11	8	236.38	8		8		8		8	
1/4	3,780.19	1/4	3,426.98	1/4	3,061.99	1/4	2,698.38	1/4	2,338.47	1/4	1,978.57	1/4	1,618.67	1/4	1,258.76	1/4	898.86	1/4	543.23	1/4	230.40	1/4		1/4		1/4		1/4	
1/2	3,774.49	1/2	3,419.38	1/2	3,054.39	1/2	2,690.88	1/2	2,330.98	1/2	1,971.07	1/2	1,611.17	1/2	1,251.26	1/2	891.36	1/2	536.35	1/2	224.42	1/2		1/2		1/2		1/2	
3/4	3,768.80	3/4	3,411.78	3/4	3,046.78	3/4	2,683.38	3/4	2,323.48	3/4	1,963.57	3/4	1,603.67	3/4	1,243.77	3/4	883.86	3/4	529.47	3/4	218.43	3/4		3/4		3/4		3/4	
9	3,763.10	9	3,404.17	9	3,039.18	9	2,675.88	9																					



BARGE "MAP-705"
MARATHON ASHLAND PETROLEUM
OUTAGE TABLE

2 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 2145-2

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		
N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	
0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		
1/4	3,938.75	1/4	3,743.65	1/4	3,396.27	1/4	3,048.96	1/4	2,689.06	1/4	2,322.39	1/4	1,955.71	1/4	1,589.04	1/4	1,222.37	1/4	848.06	1/4	485.75	1/4	139.64	1/4	0	1/4	146.91	1/4	0	1/4
1/2	3,938.75	1/2	3,743.65	1/2	3,396.27	1/2	3,048.96	1/2	2,689.06	1/2	2,322.39	1/2	1,955.71	1/2	1,589.04	1/2	1,222.37	1/2	848.06	1/2	485.75	1/2	139.64	1/2	0	1/2	146.91	1/2	0	1/2
3/4	3,938.41	3/4	3,729.18	3/4	3,381.80	3/4	3,034.42	3/4	2,673.78	3/4	2,307.11	3/4	1,940.44	3/4	1,573.76	3/4	1,207.09	3/4	840.42	3/4	479.20	3/4	132.36	3/4	0	3/4	132.36	3/4	0	3/4
1	3,938.07	1	3,721.94	1	3,374.56	1	3,027.19	1	2,668.14	1	2,299.47	1	1,932.80	1	1,566.13	1	1,199.45	1	832.78	1	472.66	1	125.09	1	0	1	125.09	1	0	1
1/4	3,937.74	1/4	3,714.70	1/4	3,367.33	1/4	3,019.95	1/4	2,660.86	1/4	2,291.83	1/4	1,925.16	1/4	1,559.49	1/4	1,191.81	1/4	825.14	1/4	466.11	1/4	117.82	1/4	0	1/4	117.82	1/4	0	1/4
1/2	3,937.40	1/2	3,707.46	1/2	3,360.09	1/2	3,012.71	1/2	2,650.86	1/2	2,284.19	1/2	1,917.52	1/2	1,550.85	1/2	1,184.18	1/2	817.50	1/2	459.56	1/2	110.55	1/2	0	1/2	110.55	1/2	0	1/2
3/4	3,936.33	3/4	3,700.23	3/4	3,352.85	3/4	3,005.47	3/4	2,643.22	3/4	2,276.55	3/4	1,909.88	3/4	1,543.21	3/4	1,176.54	3/4	809.86	3/4	452.29	3/4	104.00	3/4	0	3/4	104.00	3/4	0	3/4
2	3,935.26	2	3,692.99	2	3,345.61	2	2,998.24	2	2,635.59	2	2,268.91	2	1,902.24	2	1,535.57	2	1,168.90	2	802.23	2	445.02	2	97.46	2	0	2	97.46	2	0	2
1/4	3,934.20	1/4	3,685.75	1/4	3,338.38	1/4	2,991.00	1/4	2,627.95	1/4	2,261.27	1/4	1,894.60	1/4	1,527.93	1/4	1,161.26	1/4	794.59	1/4	437.75	1/4	90.91	1/4	0	1/4	90.91	1/4	0	1/4
1/2	3,933.13	1/2	3,678.52	1/2	3,331.14	1/2	2,983.76	1/2	2,620.31	1/2	2,253.64	1/2	1,886.96	1/2	1,520.29	1/2	1,153.62	1/2	786.95	1/2	430.48	1/2	84.36	1/2	0	1/2	84.36	1/2	0	1/2
3/4	3,931.34	3/4	3,671.28	3/4	3,323.90	3/4	2,976.53	3/4	2,612.67	3/4	2,246.00	3/4	1,879.32	3/4	1,512.65	3/4	1,145.98	3/4	779.31	3/4	423.20	3/4	77.81	3/4	0	3/4	77.81	3/4	0	3/4
3	3,929.55	3	3,664.04	3	3,316.67	3	2,969.29	3	2,605.03	3	2,238.36	3	1,871.69	3	1,505.01	3	1,138.34	3	771.67	3	415.93	3	71.26	3	0	3	71.26	3	0	3
1/4	3,927.75	1/4	3,656.81	1/4	3,309.43	1/4	2,957.39	1/4	2,597.39	1/4	2,230.72	1/4	1,864.05	1/4	1,497.37	1/4	1,130.70	1/4	764.03	1/4	408.66	1/4	64.72	1/4	0	1/4	64.72	1/4	0	1/4
1/2	3,925.96	1/2	3,649.57	1/2	3,302.19	1/2	2,954.82	1/2	2,589.75	1/2	2,223.08	1/2	1,856.41	1/2	1,489.74	1/2	1,123.06	1/2	756.39	1/2	401.39	1/2	58.17	1/2	0	1/2	58.17	1/2	0	1/2
3/4	3,923.44	3/4	3,642.33	3/4	3,294.95	3/4	2,947.58	3/4	2,582.11	3/4	2,215.44	3/4	1,848.77	3/4	1,482.10	3/4	1,115.42	3/4	748.75	3/4	394.12	3/4	51.81	3/4	0	3/4	51.81	3/4	0	3/4
4	3,920.92	4	3,635.09	4	3,287.72	4	2,940.34	4	2,574.47	4	2,207.80	4	1,841.13	4	1,474.46	4	1,107.79	4	741.11	4	386.85	4	45.44	4	0	4	45.44	4	0	4
1/4	3,918.40	1/4	3,627.86	1/4	3,280.48	1/4	2,933.10	1/4	2,566.83	1/4	2,200.16	1/4	1,833.49	1/4	1,466.82	1/4	1,100.15	1/4	733.47	1/4	379.58	1/4	39.08	1/4	0	1/4	39.08	1/4	0	1/4
1/2	3,915.88	1/2	3,620.62	1/2	3,273.24	1/2	2,925.87	1/2	2,559.20	1/2	2,192.52	1/2	1,825.85	1/2	1,459.18	1/2	1,092.51	1/2	725.84	1/2	372.31	1/2	32.72	1/2	0	1/2	32.72	1/2	0	1/2
3/4	3,912.63	3/4	3,613.38	3/4	3,266.01	3/4	2,918.23	3/4	2,551.56	3/4	2,184.88	3/4	1,818.21	3/4	1,451.54	3/4	1,084.87	3/4	718.20	3/4	365.04	3/4	28.18	3/4	0	3/4	28.18	3/4	0	3/4
5	3,909.38	5	3,606.15	5	3,258.77	5	2,910.59	5	2,543.92	5	2,177.25	5	1,810.57	5	1,443.90	5	1,077.23	5	710.56	5	357.77	5	23.63	5	0	5	23.63	5	0	5
1/4	3,906.14	1/4	3,598.91	1/4	3,251.53	1/4	2,902.95	1/4	2,536.28	1/4	2,169.61	1/4	1,802.93	1/4	1,436.26	1/4	1,069.59	1/4	702.92	1/4	350.49	1/4	19.09	1/4	0	1/4	19.09	1/4	0	1/4
1/2	3,902.89	1/2	3,591.67	1/2	3,244.30	1/2	2,895.31	1/2	2,528.64	1/2	2,161.97	1/2	1,795.30	1/2	1,428.62	1/2	1,061.95	1/2	695.28	1/2	343.22	1/2	14.54	1/2	0	1/2	14.54	1/2	0	1/2
3/4	3,898.91	3/4	3,584.44	3/4	3,237.06	3/4	2,887.67	3/4	2,521.00	3/4	2,154.33	3/4	1,787.66	3/4	1,420.92	3/4	1,054.31	3/4	687.64	3/4	335.95	3/4	11.81	3/4	0	3/4	11.81	3/4	0	3/4
6	3,894.94	6	3,577.20	6	3,229.82	6	2,880.03	6	2,513.36	6	2,146.69	6	1,780.02	6	1,413.35	6	1,046.67	6	680.00	6	328.68	6	0	6	0	6	0	6	0	6
1/4	3,890.96	1/4	3,569.96	1/4	3,222.58	1/4	2,872.39	1/4	2,505.72	1/4	2,139.05	1/4	1,772.38	1/4	1,405.71	1/4	1,039.03	1/4	672.36	1/4	321.41	1/4	0	1/4	0	1/4	321.41	1/4	0	1/4
1/2	3,886.99	1/2	3,562.72	1/2	3,215.35	1/2	2,864.76	1/2	2,498.08	1/2	2,131.41	1/2	1,764.74	1/2	1,398.07	1/2	1,031.40	1/2	664.72	1/2	314.14	1/2	0	1/2	0	1/2	314.14	1/2	0	1/2
3/4	3,882.29	3/4	3,555.49	3/4	3,208.11	3/4	2,857.12	3/4	2,490.44	3/4	2,123.77	3/4	1,757.10	3/4	1,390.43	3/4	1,023.76	3/4	657.08	3/4	306.87	3/4	0	3/4	0	3/4	306.87	3/4	0	3/4
7	3,877.58	7	3,548.25	7	3,200.87	7	2,849.48	7	2,482.81	7	2,116.13	7	1,749.46	7	1,382.79	7	1,016.12	7	649.45	7	299.60	7	0	7	0	7	0	7	0	7
1/4	3,872.88	1/4	3,541.01	1/4	3,193.64	1/4	2,841.84	1/4	2,475.17	1/4	2,108.49	1/4	1,741.82	1/4	1,375.15	1/4	1,008.48	1/4	641.81	1/4	292.33	1/4	0	1/4	0	1/4	292.33	1/4	0	1/4
1/2	3,868.18	1/2	3,533.78	1/2	3,186.40	1/2	2,834.20	1/2	2,467.53	1/2	2,100.86	1/2	1,734.18	1/2	1,367.51	1/2	1,000.84	1/2	634.17	1/2	285.06	1/2	0	1/2	0	1/2	285.06	1/2	0	1/2
3/4	3,862.75	3/4	3,526.54	3/4	3,179.16	3/4	2,826.56	3/4	2,459.89	3/4	2,093.22	3/4	1,726.54	3/4	1,359.87	3/4	993.20	3/4	626.53	3/4	277.78	3/4	0	3/4	0	3/4	277.78	3/4	0	3/4
8	3,857.32	8	3,519.30	8	3,171.93	8	2,818.92	8	2,452.25	8	2,085.58	8	1,718.91	8	1,352.23	8	985.56	8	618.69	8	270.51	8	0	8	0	8	0	8	0	8
1/4	3,851.89	1/4	3,512.07	1/4	3,164.69	1/4	2,811.28	1/4	2,444.61	1/4	2,077.94	1/4	1,711.27	1/4	1,344.59	1/4	977.92	1/4	611.25	1/4	263.24	1/4	0	1/4	0	1/4	263.24	1/4	0	1/4
1/2	3,846.46	1/2	3,504.83																											



BARGE "MAP-705"
MARATHON ASHLAND PETROLEUM
OUTAGE TABLE

2 STAR

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 2145-2

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0	N	0
0		0	3,758.12	0	3,410.75	0	3,063.37	0	2,704.34	0	2,337.66	0	1,970.99	0	1,604.32	0	1,237.65	0	870.98	0	505.40	0	161.45	0		0			
1/4	1/4	1/4	3,750.89	1/4	3,403.51	1/4	3,056.13	1/4	2,696.70	1/4	2,330.03	1/4	1,963.35	1/4	1,596.68	1/4	1,230.01	1/4	863.34	1/4	498.85	1/4	154.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,743.65	1/2	3,396.27	1/2	3,048.90	1/2	2,689.02	1/2	2,322.39	1/2	1,955.71	1/2	1,589.04	1/2	1,222.37	1/2	855.70	1/2	492.30	1/2	146.91	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,736.41	3/4	3,389.04	3/4	3,041.66	3/4	2,681.42	3/4	2,314.75	3/4	1,948.08	3/4	1,581.40	3/4	1,214.73	3/4	848.06	3/4	485.75	3/4	139.64	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	3,729.18	1	3,381.80	1	3,034.42	1	2,673.78	1	2,307.11	1	1,940.44	1	1,573.76	1	1,207.09	1	840.42	1	479.20	1	132.36	1	1	1	1	1	1
1/4	1/4	1/4	3,721.94	1/4	3,374.56	1/4	3,027.19	1/4	2,666.14	1/4	2,299.47	1/4	1,932.80	1/4	1,566.43	1/4	1,199.45	1/4	832.78	1/4	472.66	1/4	125.09	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,714.70	1/2	3,367.33	1/2	3,019.95	1/2	2,658.50	1/2	2,291.83	1/2	1,925.16	1/2	1,558.48	1/2	1,191.81	1/2	825.14	1/2	466.11	1/2	117.82	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,707.46	3/4	3,360.09	3/4	3,012.71	3/4	2,650.86	3/4	2,284.19	3/4	1,917.52	3/4	1,550.85	3/4	1,184.18	3/4	817.50	3/4	459.56	3/4	110.55	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	3,700.23	2	3,352.85	2	3,005.47	2	2,643.22	2	2,276.55	2	1,909.88	2	1,543.21	2	1,176.54	2	809.86	2	452.29	2	104.00	2	2	2	2	2	2
1/4	1/4	1/4	3,692.99	1/4	3,345.61	1/4	2,998.24	1/4	2,635.59	1/4	2,268.91	1/4	1,902.24	1/4	1,535.57	1/4	1,168.90	1/4	802.23	1/4	445.02	1/4	97.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,685.75	1/2	3,338.38	1/2	2,992.05	1/2	2,627.95	1/2	2,261.27	1/2	1,894.60	1/2	1,527.93	1/2	1,161.26	1/2	794.59	1/2	437.75	1/2	90.91	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,678.52	3/4	3,331.14	3/4	2,985.76	3/4	2,620.31	3/4	2,253.64	3/4	1,886.96	3/4	1,520.29	3/4	1,153.62	3/4	786.95	3/4	430.48	3/4	84.36	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3,671.28	3	3,323.90	3	2,976.53	3	2,612.67	3	2,246.00	3	1,879.32	3	1,512.65	3	1,145.98	3	779.31	3	423.20	3	77.81	3	3	3	3	3	3
1/4	1/4	1/4	3,664.04	1/4	3,316.67	1/4	2,969.29	1/4	2,605.03	1/4	2,238.36	1/4	1,871.69	1/4	1,505.01	1/4	1,138.34	1/4	771.67	1/4	415.93	1/4	71.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,656.81	1/2	3,309.43	1/2	2,962.05	1/2	2,597.39	1/2	2,230.72	1/2	1,864.05	1/2	1,497.37	1/2	1,130.70	1/2	764.03	1/2	408.66	1/2	64.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,649.57	3/4	3,302.19	3/4	2,954.82	3/4	2,589.75	3/4	2,223.08	3/4	1,856.41	3/4	1,489.74	3/4	1,123.06	3/4	756.39	3/4	401.39	3/4	58.17	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	3,642.33	4	3,294.95	4	2,947.58	4	2,582.11	4	2,215.44	4	1,848.77	4	1,482.10	4	1,115.42	4	748.75	4	394.12	4	51.81	4	4	4	4	4	4
1/4	1/4	1/4	3,635.09	1/4	3,287.72	1/4	2,940.34	1/4	2,574.47	1/4	2,207.80	1/4	1,841.13	1/4	1,474.46	1/4	1,107.79	1/4	741.11	1/4	386.85	1/4	45.44	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,627.86	1/2	3,280.48	1/2	2,933.10	1/2	2,566.83	1/2	2,200.16	1/2	1,833.49	1/2	1,466.82	1/2	1,100.15	1/2	733.47	1/2	379.58	1/2	39.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,620.62	3/4	3,273.24	3/4	2,925.87	3/4	2,559.20	3/4	2,192.52	3/4	1,825.85	3/4	1,459.18	3/4	1,092.51	3/4	725.84	3/4	372.31	3/4	32.72	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	3,613.38	5	3,266.01	5	2,918.23	5	2,551.56	5	2,184.88	5	1,818.21	5	1,451.54	5	1,084.87	5	718.20	5	365.04	5	28.18	5	5	5	5	5	5
1/4	1/4	1/4	3,606.15	1/4	3,258.77	1/4	2,910.59	1/4	2,543.92	1/4	2,177.25	1/4	1,810.57	1/4	1,443.90	1/4	1,077.23	1/4	710.56	1/4	357.77	1/4	23.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,598.91	1/2	3,251.53	1/2	2,902.95	1/2	2,536.28	1/2	2,169.61	1/2	1,802.93	1/2	1,436.26	1/2	1,069.59	1/2	702.92	1/2	350.49	1/2	19.09	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,591.67	3/4	3,244.30	3/4	2,895.31	3/4	2,528.64	3/4	2,161.97	3/4	1,793.30	3/4	1,428.62	3/4	1,061.95	3/4	695.28	3/4	343.22	3/4	14.54	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	3,584.44	6	3,237.06	6	2,887.67	6	2,521.00	6	2,154.33	6	1,787.66	6	1,420.98	6	1,054.31	6	687.64	6	335.95	6		6	6	6	6	6	6
1/4	1/4	1/4	3,577.20	1/4	3,229.82	1/4	2,880.03	1/4	2,513.36	1/4	2,146.69	1/4	1,780.02	1/4	1,413.35	1/4	1,046.67	1/4	680.00	1/4	328.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,569.96	1/2	3,222.58	1/2	2,872.39	1/2	2,505.72	1/2	2,139.05	1/2	1,772.38	1/2	1,405.71	1/2	1,039.03	1/2	672.36	1/2	321.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,562.72	3/4	3,215.35	3/4	2,864.76	3/4	2,498.08	3/4	2,131.41	3/4	1,764.74	3/4	1,398.07	3/4	1,031.40	3/4	664.72	3/4	314.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	3,555.49	7	3,208.11	7	2,857.12	7	2,490.44	7	2,123.77	7	1,757.10	7	1,390.43	7	1,023.76	7	657.08	7	306.87	7		7	7	7	7	7	7
1/4	1/4	1/4	3,548.25	1/4	3,200.87	1/4	2,849.48	1/4	2,482.81	1/4	2,116.13	1/4	1,749.46	1/4	1,382.79	1/4	1,016.12	1/4	649.45	1/4	299.60	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,541.01	1/2	3,193.64	1/2	2,841.84	1/2	2,475.17	1/2	2,108.49	1/2	1,741.82	1/2	1,375.15	1/2	1,008.48	1/2	641.81	1/2	292.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,533.78	3/4	3,186.40	3/4	2,834.20	3/4	2,467.53	3/4	2,100.86	3/4	1,734.18	3/4	1,367.51	3/4	1,000.84	3/4	634.17	3/4	285.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	3,526.54	8	3,179.16	8	2,826.56	8	2,459.89	8	2,093.22	8	1,726.54	8	1,359.87	8	993.20	8	626.53	8	277.78	8		8	8	8	8	8	8
1/4	1/4	1/4	3,519.30	1/4	3,171.93	1/4	2,818.92	1/4	2,452.25	1/4	2,085.58	1/4	1,718.91	1/4	1,352.23	1/4	985.56	1/4	618.89	1/4	270.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	3,512.07	1/2	3,164.69	1/2	2,811.28	1/2	2,444.61	1/2	2,077.94	1/2	1,711.27	1/2	1,344.59	1/2	977.92	1/2	611.25	1/2	263.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3,504.83	3/4	3,157.45	3/4	2,803.64	3																					



BARGE "MAP-705"
MARATHON ASHLAND PETROLEUM
OUTAGE TABLE

3 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 2145-2

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.					
N		N		N		N		N		N		N		N		N		N		N		N		N		N		N		N			
0		0	3,733.83	0	3,370.23	0	3,006.63	0	2,649.04	0	2,295.37	0	1,941.71	0	1,588.04	0	1,234.38	0	880.72	0	527.58	0	168.54	0									
1/4		1/4	3,726.26	1/4	3,362.66	1/4	2,999.06	1/4	2,641.67	1/4	2,288.00	1/4	1,934.34	1/4	1,580.68	1/4	1,227.01	1/4	873.35	1/4	520.75	1/4	160.95	1/4	0								
1/2		1/2	3,718.68	1/2	3,355.08	1/2	2,991.48	1/2	2,634.30	1/2	2,280.64	1/2	1,926.97	1/2	1,573.31	1/2	1,219.64	1/2	865.98	1/2	513.91	1/2	153.36	1/2	0								
3/4	3,922.50	3/4	3,711.11	3/4	3,347.51	3/4	2,976.33	3/4	2,626.93	3/4	2,273.27	3/4	1,919.24	3/4	1,565.94	3/4	1,212.28	3/4	856.61	3/4	507.08	3/4	145.77	3/4	0								
1	3,922.14	1	3,703.53	1	3,339.93	1	2,976.33	1	2,619.56	1	2,265.90	1	1,912.24	1	1,558.57	1	1,204.91	1	851.24	1	500.24	1	138.18	1	0								
1/4	3,921.79	1/4	3,695.96	1/4	3,332.36	1/4	2,968.76	1/4	2,612.20	1/4	2,258.53	1/4	1,904.87	1/4	1,551.20	1/4	1,197.54	1/4	843.88	1/4	493.40	1/4	130.59	1/4	1								
1/2	3,921.43	1/2	3,688.38	1/2	3,324.78	1/2	2,961.18	1/2	2,604.83	1/2	2,251.16	1/2	1,897.50	1/2	1,543.84	1/2	1,190.17	1/2	836.51	1/2	486.57	1/2	123.00	1/2	0								
3/4	3,921.08	3/4	3,680.81	3/4	3,317.21	3/4	2,953.61	3/4	2,597.46	3/4	2,243.80	3/4	1,890.13	3/4	1,536.47	3/4	1,182.80	3/4	829.14	3/4	479.83	3/4	115.41	3/4	0								
2	3,919.97	2	3,673.23	2	3,309.63	2	2,946.03	2	2,590.09	2	2,236.43	2	1,882.76	2	1,529.10	2	1,175.44	2	821.77	2	472.14	2	108.58	2	0								
1/4	3,918.85	1/4	3,665.66	1/4	3,302.06	1/4	2,938.46	1/4	2,582.72	1/4	2,229.06	1/4	1,875.40	1/4	1,521.73	1/4	1,168.07	1/4	814.40	1/4	464.55	1/4	101.74	1/4	0								
1/2	3,917.74	1/2	3,658.08	1/2	3,294.48	1/2	2,930.88	1/2	2,575.36	1/2	2,221.69	1/2	1,868.03	1/2	1,514.36	1/2	1,160.70	1/2	807.04	1/2	456.96	1/2	94.90	1/2	0								
3/4	3,916.63	3/4	3,650.51	3/4	3,286.91	3/4	2,923.31	3/4	2,567.99	3/4	2,214.32	3/4	1,860.66	3/4	1,507.00	3/4	1,153.33	3/4	799.67	3/4	449.37	3/4	88.07	3/4	0								
3	3,914.76	3	3,642.93	3	3,279.33	3	2,915.73	3	2,560.62	3	2,206.96	3	1,853.29	3	1,499.63	3	1,145.96	3	792.30	3	441.78	3	81.23	3	0								
1/4	3,912.88	1/4	3,635.36	1/4	3,271.76	1/4	2,908.16	1/4	2,553.25	1/4	2,199.59	1/4	1,845.92	1/4	1,492.26	1/4	1,138.60	1/4	784.93	1/4	434.19	1/4	74.40	1/4	0								
1/2	3,911.01	1/2	3,627.78	1/2	3,264.18	1/2	2,900.58	1/2	2,545.88	1/2	2,192.22	1/2	1,838.56	1/2	1,484.89	1/2	1,131.23	1/2	777.56	1/2	426.60	1/2	67.56	1/2	0								
3/4	3,909.14	3/4	3,620.21	3/4	3,256.61	3/4	2,893.01	3/4	2,538.52	3/4	2,184.85	3/4	1,831.19	3/4	1,477.52	3/4	1,123.86	3/4	770.20	3/4	419.01	3/4	60.72	3/4	0								
4	3,906.51	4	3,612.63	4	3,249.03	4	2,885.43	4	2,531.15	4	2,177.48	4	1,823.82	4	1,470.16	4	1,116.49	4	762.83	4	411.42	4	54.08	4	0								
1/4	3,903.88	1/4	3,605.06	1/4	3,241.46	1/4	2,877.86	1/4	2,523.78	1/4	2,170.12	1/4	1,816.45	1/4	1,462.79	1/4	1,109.12	1/4	755.46	1/4	403.83	1/4	47.44	1/4	0								
1/2	3,901.25	1/2	3,597.48	1/2	3,233.88	1/2	2,870.28	1/2	2,516.41	1/2	2,162.75	1/2	1,809.08	1/2	1,455.42	1/2	1,101.76	1/2	748.09	1/2	396.24	1/2	40.80	1/2	0								
3/4	3,898.62	3/4	3,589.91	3/4	3,226.31	3/4	2,862.71	3/4	2,509.04	3/4	2,155.38	3/4	1,801.72	3/4	1,448.05	3/4	1,094.39	3/4	740.72	3/4	388.65	3/4	34.16	3/4	0								
5	3,895.23	5	3,582.33	5	3,218.73	5	2,855.34	5	2,501.68	5	2,148.01	5	1,794.35	5	1,440.68	5	1,087.02	5	733.36	5	381.06	5	29.42	5	0								
1/4	3,891.83	1/4	3,574.76	1/4	3,211.16	1/4	2,847.97	1/4	2,494.31	1/4	2,140.40	1/4	1,786.98	1/4	1,433.92	1/4	1,079.65	1/4	725.99	1/4	373.47	1/4	24.67	1/4	0								
1/2	3,888.44	1/2	3,567.18	1/2	3,203.58	1/2	2,840.60	1/2	2,486.94	1/2	2,133.28	1/2	1,779.61	1/2	1,425.55	1/2	1,072.28	1/2	718.62	1/2	365.88	1/2	19.93	1/2	0								
3/4	3,885.05	3/4	3,559.61	3/4	3,196.01	3/4	2,833.24	3/4	2,479.57	3/4	2,125.91	3/4	1,772.44	3/4	1,418.58	3/4	1,064.92	3/4	711.25	3/4	358.29	3/4	15.18	3/4	0								
6	3,880.90	6	3,552.03	6	3,188.43	6	2,825.87	6	2,472.20	6	2,118.54	6	1,764.88	6	1,411.21	6	1,057.55	6	703.88	6	350.70	6	6	6	0								
1/4	3,876.75	1/4	3,544.46	1/4	3,180.86	1/4	2,818.50	1/4	2,464.84	1/4	2,111.17	1/4	1,757.51	1/4	1,403.84	1/4	1,050.18	1/4	696.52	1/4	343.11	1/4	1/4	1/4	0								
1/2	3,872.60	1/2	3,536.88	1/2	3,173.28	1/2	2,811.13	1/2	2,457.47	1/2	2,103.80	1/2	1,750.14	1/2	1,396.48	1/2	1,042.81	1/2	689.15	1/2	335.52	1/2	3/4	1/2	0								
3/4	3,868.45	3/4	3,529.31	3/4	3,165.71	3/4	2,803.76	3/4	2,450.10	3/4	2,096.44	3/4	1,742.77	3/4	1,389.11	3/4	1,035.44	3/4	681.78	3/4	327.93	3/4	3/4	3/4	0								
7	3,863.54	7	3,521.73	7	3,158.13	7	2,796.40	7	2,442.73	7	2,089.07	7	1,735.40	7	1,381.74	7	1,028.08	7	674.41	7	320.34	7	3/4	7	0								
1/4	3,858.64	1/4	3,514.16	1/4	3,150.56	1/4	2,789.03	1/4	2,435.36	1/4	2,081.70	1/4	1,728.04	1/4	1,374.37	1/4	1,020.71	1/4	667.04	1/4	312.75	1/4	1/4	1/4	0								
1/2	3,853.73	1/2	3,506.58	1/2	3,142.98	1/2	2,781.66	1/2	2,428.00	1/2	2,074.33	1/2	1,720.67	1/2	1,367.00	1/2	1,013.34	1/2	659.68	1/2	305.16	1/2	1/2	1/2	0								
3/4	3,848.82	3/4	3,499.01	3/4	3,135.41	3/4	2,774.29	3/4	2,420.63	3/4	2,066.96	3/4	1,713.30	3/4	1,359.64	3/4	1,005.97	3/4	652.31	3/4	297.57	3/4	3/4	3/4	0								
8	3,843.15	8	3,491.43	8	3,127.83	8	2,766.92	8	2,413.26	8	2,059.60	8	1,705.93	8	1,352.27	8	998.60	8	644.94	8	289.98	8	1/4	8	0								
1/4	3,837.49	1/4	3,483.86	1/4	3,120.26	1/4	2,759.56	1/4	2,405.89	1/4	2,052.23	1/4	1,698.56	1/4	1,344.90	1/4	991.24	1/4	637.57	1/4	282.39	1/4	1/4	1/4	0								
1/2	3,831.82	1/2	3,476.28	1/2	3,112.68	1/2	2,752.19	1/2	2,398.52	1/2	2,044.86	1/2	1,691.20	1/2	1,337.53	1/2	983.87	1/2	630.20	1/2	274.80	1/2	1/2	1/2	0								
3/4	3,826.15	3/4	3,468.71	3/4	3,105.11	3/4	2,744.82	3/4	2,391.16	3/4	2,037.49	3/4	1,683																				



BARGE "MAP-705"
MARATHON ASHLAND PETROLEUM
OUTAGE TABLE

3 STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 2145-2

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		12 FT.		13 FT.		14 FT.	
N		N		N		N		N		N		N		N		N		N		N		N		N		N		N	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1/4	3,922.50	1/4	3,718.68	1/4	3,355.08	1/4	2,991.48	1/4	2,634.30	1/4	2,273.27	1/4	1,919.60	1/4	1,565.94	1/4	1,212.28	1/4	865.98	1/4	513.91	1/4	153.36	1/4	0	1/4	0	1/4	0
1/2	3,922.14	1/2	3,703.53	1/2	3,347.51	1/2	2,983.91	1/2	2,626.96	1/2	2,273.27	1/2	1,919.60	1/2	1,565.94	1/2	1,212.28	1/2	858.61	1/2	507.08	1/2	145.77	1/2	1/4	1/4	1/4	1/4	1/4
3/4	3,921.79	3/4	3,695.96	3/4	3,332.36	3/4	2,968.76	3/4	2,612.20	3/4	2,258.53	3/4	1,904.87	3/4	1,551.20	3/4	1,197.54	3/4	843.88	3/4	493.40	3/4	130.59	3/4	1/2	1/2	1/2	1/2	1/2
1	3,921.43	1	3,688.38	1	3,324.78	1	2,961.18	1	2,604.83	1	2,251.16	1	1,897.50	1	1,543.84	1	1,190.17	1	836.51	1	486.57	1	123.00	1	3/4	3/4	3/4	3/4	3/4
1/4	3,921.08	1/4	3,680.81	1/4	3,317.21	1/4	2,953.61	1/4	2,597.46	1/4	2,243.80	1/4	1,890.13	1/4	1,536.47	1/4	1,182.80	1/4	829.14	1/4	479.73	1/4	115.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,919.97	1/2	3,673.23	1/2	3,309.63	1/2	2,946.03	1/2	2,590.09	1/2	2,236.43	1/2	1,882.76	1/2	1,529.10	1/2	1,175.44	1/2	821.77	1/2	472.14	1/2	108.58	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,918.85	3/4	3,665.66	3/4	3,302.06	3/4	2,938.46	3/4	2,582.72	3/4	2,229.06	3/4	1,875.40	3/4	1,521.73	3/4	1,168.07	3/4	814.40	3/4	464.55	3/4	101.74	3/4	3/4	3/4	3/4	3/4	3/4
2	3,917.74	2	3,658.08	2	3,294.48	2	2,930.88	2	2,575.36	2	2,221.69	2	1,868.03	2	1,514.36	2	1,160.70	2	807.04	2	456.96	2	94.90	2	2	2	2	2	2
1/4	3,916.63	1/4	3,650.51	1/4	3,286.91	1/4	2,923.31	1/4	2,567.99	1/4	2,214.32	1/4	1,860.66	1/4	1,507.00	1/4	1,153.33	1/4	799.67	1/4	449.37	1/4	88.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,914.76	1/2	3,642.93	1/2	3,279.33	1/2	2,915.73	1/2	2,560.62	1/2	2,206.96	1/2	1,853.29	1/2	1,499.63	1/2	1,145.96	1/2	792.30	1/2	441.78	1/2	81.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,912.88	3/4	3,635.36	3/4	3,271.76	3/4	2,908.16	3/4	2,553.25	3/4	2,199.59	3/4	1,845.82	3/4	1,492.26	3/4	1,138.60	3/4	784.93	3/4	434.19	3/4	74.40	3/4	3/4	3/4	3/4	3/4	3/4
3	3,911.01	3	3,627.78	3	3,264.61	3	2,900.58	3	2,545.88	3	2,192.22	3	1,838.56	3	1,484.89	3	1,131.23	3	777.56	3	426.60	3	67.56	3	3	3	3	3	3
1/4	3,909.14	1/4	3,620.21	1/4	3,256.61	1/4	2,893.01	1/4	2,538.52	1/4	2,184.85	1/4	1,831.19	1/4	1,477.52	1/4	1,123.86	1/4	770.20	1/4	419.01	1/4	60.72	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,906.51	1/2	3,612.63	1/2	3,249.03	1/2	2,885.43	1/2	2,531.15	1/2	2,177.48	1/2	1,823.82	1/2	1,470.16	1/2	1,116.49	1/2	762.83	1/2	411.42	1/2	54.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,903.88	3/4	3,605.06	3/4	3,241.46	3/4	2,877.86	3/4	2,523.78	3/4	2,170.12	3/4	1,816.45	3/4	1,462.79	3/4	1,109.12	3/4	755.46	3/4	403.83	3/4	47.44	3/4	3/4	3/4	3/4	3/4	3/4
4	3,901.25	4	3,597.48	4	3,233.88	4	2,870.28	4	2,516.41	4	2,162.75	4	1,809.08	4	1,455.42	4	1,101.76	4	748.09	4	396.24	4	40.80	4	4	4	4	4	4
1/4	3,898.62	1/4	3,589.91	1/4	3,226.31	1/4	2,862.71	1/4	2,509.04	1/4	2,155.38	1/4	1,801.72	1/4	1,448.05	1/4	1,094.39	1/4	740.72	1/4	388.65	1/4	34.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,895.23	1/2	3,582.33	1/2	3,218.73	1/2	2,855.34	1/2	2,501.68	1/2	2,148.01	1/2	1,794.35	1/2	1,440.68	1/2	1,087.02	1/2	733.36	1/2	381.06	1/2	29.42	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,891.83	3/4	3,574.76	3/4	3,211.16	3/4	2,847.97	3/4	2,494.31	3/4	2,140.64	3/4	1,786.98	3/4	1,433.32	3/4	1,079.65	3/4	725.99	3/4	373.47	3/4	24.67	3/4	3/4	3/4	3/4	3/4	3/4
5	3,888.44	5	3,567.18	5	3,203.51	5	2,840.60	5	2,486.94	5	2,133.28	5	1,779.61	5	1,425.95	5	1,072.28	5	718.62	5	365.88	5	19.93	5	5	5	5	5	5
1/4	3,885.05	1/4	3,559.61	1/4	3,196.01	1/4	2,833.24	1/4	2,479.57	1/4	2,125.91	1/4	1,772.24	1/4	1,418.58	1/4	1,064.92	1/4	711.25	1/4	358.29	1/4	15.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,880.90	1/2	3,552.03	1/2	3,188.43	1/2	2,825.87	1/2	2,472.20	1/2	2,118.54	1/2	1,764.88	1/2	1,411.21	1/2	1,057.55	1/2	703.88	1/2	350.70	1/2	15.18	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,876.75	3/4	3,544.46	3/4	3,180.86	3/4	2,818.50	3/4	2,464.84	3/4	2,111.17	3/4	1,757.51	3/4	1,403.84	3/4	1,050.18	3/4	696.52	3/4	343.11	3/4	15.18	3/4	3/4	3/4	3/4	3/4	3/4
6	3,872.60	6	3,536.88	6	3,173.28	6	2,811.13	6	2,457.47	6	2,103.80	6	1,750.14	6	1,396.96	6	1,042.81	6	689.15	6	335.52	6	15.18	6	6	6	6	6	6
1/4	3,868.45	1/4	3,529.31	1/4	3,165.71	1/4	2,803.76	1/4	2,450.10	1/4	2,096.44	1/4	1,742.77	1/4	1,389.11	1/4	1,035.44	1/4	681.78	1/4	327.93	1/4	15.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,863.54	1/2	3,521.73	1/2	3,158.13	1/2	2,796.40	1/2	2,442.73	1/2	2,089.07	1/2	1,735.40	1/2	1,381.74	1/2	1,028.08	1/2	674.41	1/2	320.34	1/2	15.18	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,858.64	3/4	3,514.16	3/4	3,150.56	3/4	2,789.03	3/4	2,435.36	3/4	2,081.70	3/4	1,728.04	3/4	1,374.37	3/4	1,020.71	3/4	667.04	3/4	312.75	3/4	15.18	3/4	3/4	3/4	3/4	3/4	3/4
7	3,853.73	7	3,506.58	7	3,142.98	7	2,781.66	7	2,428.00	7	2,074.33	7	1,720.67	7	1,367.00	7	1,013.34	7	659.68	7	305.16	7	15.18	7	7	7	7	7	7
1/4	3,848.82	1/4	3,499.01	1/4	3,135.41	1/4	2,774.29	1/4	2,420.63	1/4	2,066.96	1/4	1,713.30	1/4	1,359.64	1/4	1,005.97	1/4	652.31	1/4	297.57	1/4	15.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,843.15	1/2	3,491.43	1/2	3,127.83	1/2	2,766.92	1/2	2,413.26	1/2	2,059.60	1/2	1,705.93	1/2	1,352.27	1/2	998.60	1/2	644.94	1/2	289.98	1/2	15.18	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,837.49	3/4	3,483.86	3/4	3,120.26	3/4	2,759.56	3/4	2,405.89	3/4	2,052.23	3/4	1,698.56	3/4	1,344.90	3/4	991.24	3/4	637.57	3/4	282.39	3/4	15.18	3/4	3/4	3/4	3/4	3/4	3/4
8	3,831.82	8	3,476.28	8	3,112.68	8	2,752.19	8	2,398.52	8	2,044.86	8	1,691.20	8	1,337.53	8	983.87	8	630.20	8	274.80	8	15.18	8	8	8	8	8	8
1/4	3,826.15	1/4	3,468.71	1/4	3,105.11	1/4	2,744.82	1/4	2,391.16	1/4	2,037.49	1/4	1,683.83	1/4	1,330.16	1/4	976.50	1/4	622.84	1/4	267.21	1/4	15.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,819.73	1/2	3,461.13	1/2	3,097.53	1/2	2,737.45	1/2	2,383.79	1/2	2,030.12	1/2	1,676.46	1/2	1,322.80	1/2	969.13	1/2	615.47	1/2	259.								