



BARGE "MAP-775"
MARATHON ASHLAND PETROLEUM

OUTAGE TABLE

1 PORT

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

HULL NO. 4503

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	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	N	D	
0	0	4,007.88	0	3,625.51	0	3,243.14	0	2,860.44	0	2,477.49	0	2,094.55	0	1,711.60	0	1,328.66	0	945.72	0	562.77	0	185.47	0		0		0		0	
1/4	1/4	3,999.91	1/4	3,617.54	1/4	3,235.17	1/4	2,852.46	1/4	2,469.51	1/4	2,086.57	1/4	1,703.63	1/4	1,320.68	1/4	937.74	1/4	555.57	1/4	177.48	1/4		1/4		1/4		1/4	
1/2	1/2	3,991.94	1/2	3,609.58	1/2	3,227.21	1/2	2,844.48	1/2	2,461.54	1/2	2,078.59	1/2	1,695.65	1/2	1,312.70	1/2	929.76	1/2	548.38	1/2	169.48	1/2		1/2		1/2		1/2	
3/4	3/4	3,983.98	3/4	3,601.61	3/4	3,219.24	3/4	2,836.50	3/4	2,453.56	3/4	2,070.61	3/4	1,687.67	3/4	1,304.73	3/4	921.78	3/4	541.18	3/4	161.49	3/4		3/4		3/4		3/4	
1	1	3,976.01	1	3,593.64	1	3,211.28	1	2,828.52	1	2,445.58	1	2,062.64	1	1,679.69	1	1,286.77	1	913.80	1	533.98	1	153.50	1		1		1		1	
1/4	1/4	3,968.05	1/4	3,585.68	1/4	3,203.31	1/4	2,812.57	1/4	2,439.62	1/4	2,054.68	1/4	1,671.71	1/4	1,288.77	1/4	905.83	1/4	526.78	1/4	145.50	1/4		1/4		1/4		1/4	
1/2	1/2	3,960.08	1/2	3,577.71	1/2	3,195.34	1/2	2,804.59	1/2	2,431.65	1/2	2,046.68	1/2	1,663.74	1/2	1,280.79	1/2	897.85	1/2	519.58	1/2	137.51	1/2		1/2		1/2		1/2	
3/4	3/4	3,952.11	3/4	3,569.75	3/4	3,187.38	3/4	2,796.61	3/4	2,423.67	3/4	2,038.70	3/4	1,655.76	3/4	1,272.81	3/4	889.87	3/4	512.39	3/4	129.52	3/4		3/4		3/4		3/4	
2	2	3,944.15	2	3,561.78	2	3,179.41	2	2,788.63	2	2,413.67	2	2,030.72	2	1,647.78	2	1,264.84	2	881.89	2	505.19	2	121.52	2		2		2		2	
1/4	1/4	3,936.18	1/4	3,553.81	1/4	3,171.45	1/4	2,780.66	1/4	2,397.71	1/4	2,022.75	1/4	1,631.82	1/4	1,256.86	1/4	873.91	1/4	497.20	1/4	114.33	1/4		1/4		1/4		1/4	
1/2	1/2	3,928.22	1/2	3,545.85	1/2	3,163.48	1/2	2,772.68	1/2	2,389.73	1/2	2,014.77	1/2	1,623.85	1/2	1,248.88	1/2	865.94	1/2	489.20	1/2	107.13	1/2		1/2		1/2		1/2	
3/4	3/4	3,920.25	3/4	3,537.88	3/4	3,155.51	3/4	2,764.70	3/4	2,381.76	3/4	2,006.79	3/4	1,615.87	3/4	1,240.90	3/4	857.96	3/4	481.21	3/4	99.93	3/4		3/4		3/4		3/4	
3	3	3,912.28	3	3,529.92	3	3,147.55	3	2,756.72	3	2,373.78	3	1,990.83	3	1,615.87	3	1,232.92	3	849.98	3	473.22	3	92.73	3		3		3		3	
1/4	1/4	3,904.32	1/4	3,521.95	1/4	3,139.58	1/4	2,748.74	1/4	2,365.80	1/4	1,982.86	1/4	1,599.91	1/4	1,226.97	1/4	842.00	1/4	465.22	1/4	85.53	1/4		1/4		1/4		1/4	
1/2	1/2	3,896.35	1/2	3,513.98	1/2	3,131.62	1/2	2,740.77	1/2	2,357.82	1/2	1,982.86	1/2	1,589.91	1/2	1,216.97	1/2	834.02	1/2	457.23	1/2	78.34	1/2		1/2		1/2		1/2	
3/4	3/4	3,888.39	3/4	3,506.02	3/4	3,123.65	3/4	2,732.79	3/4	2,349.84	3/4	1,974.88	3/4	1,593.96	3/4	1,201.01	3/4	826.05	3/4	449.24	3/4	71.14	3/4		3/4		3/4		3/4	
4	4	3,880.42	4	3,498.05	4	3,115.68	4	2,724.81	4	2,341.87	4	1,966.90	4	1,583.96	4	1,201.01	4	818.07	4	441.24	4	63.94	4		4		4		4	
1/4	1/4	3,872.45	1/4	3,490.09	1/4	3,107.72	1/4	2,716.83	1/4	2,333.89	1/4	1,958.92	1/4	1,575.98	1/4	1,193.03	1/4	810.09	1/4	433.25	1/4	56.95	1/4		1/4		1/4		1/4	
1/2	1/2	3,864.49	1/2	3,482.12	1/2	3,099.75	1/2	2,708.85	1/2	2,325.91	1/2	1,950.94	1/2	1,568.00	1/2	1,185.06	1/2	802.11	1/2	425.26	1/2	49.95	1/2		1/2		1/2		1/2	
3/4	3/4	3,856.52	3/4	3,474.15	3/4	3,091.79	3/4	2,700.88	3/4	2,317.93	3/4	1,942.97	3/4	1,560.02	3/4	1,177.08	3/4	794.13	3/4	417.27	3/4	42.96	3/4		3/4		3/4		3/4	
5	5	3,848.56	5	3,466.19	5	3,083.82	5	2,700.88	5	2,309.95	5	1,934.99	5	1,552.04	5	1,169.10	5	786.16	5	409.27	5	35.97	5		5		5		5	
1/4	1/4	3,840.59	1/4	3,458.22	1/4	3,075.84	1/4	2,692.90	1/4	2,294.00	1/4	1,927.01	1/4	1,544.07	1/4	1,161.12	1/4	778.18	1/4	401.28	1/4	30.97	1/4		1/4		1/4		1/4	
1/2	1/2	3,832.62	1/2	3,450.26	1/2	3,067.86	1/2	2,684.92	1/2	2,286.02	1/2	1,919.03	1/2	1,536.09	1/2	1,153.14	1/2	770.20	1/2	393.29	1/2	25.98	1/2		1/2		1/2		1/2	
3/4	3/4	3,824.66	3/4	3,442.29	3/4	3,059.89	3/4	2,676.94	3/4	2,278.04	3/4	1,911.05	3/4	1,528.11	3/4	1,145.17	3/4	762.22	3/4	385.29	3/4	20.98	3/4		3/4		3/4		3/4	
6	6	3,816.69	6	3,434.32	6	3,051.91	6	2,668.96	6	2,266.02	6	1,903.08	6	1,520.13	6	1,137.19	6	754.24	6	377.30	6	15.99	6		6		6		6	
1/4	1/4	3,808.73	1/4	3,426.36	1/4	3,043.93	1/4	2,660.99	1/4	2,278.04	1/4	1,895.10	1/4	1,512.15	1/4	1,129.21	1/4	746.27	1/4	369.31	1/4	12.98	1/4		1/4		1/4		1/4	
1/2	1/2	3,800.76	1/2	3,418.39	1/2	3,035.95	1/2	2,653.03	1/2	2,270.06	1/2	1,887.12	1/2	1,504.18	1/2	1,121.23	1/2	738.29	1/2	361.31	1/2	10.98	1/2		1/2		1/2		1/2	
3/4	3/4	3,792.79	3/4	3,410.43	3/4	3,027.97	3/4	2,645.03	3/4	2,262.09	3/4	1,879.14	3/4	1,496.20	3/4	1,113.25	3/4	730.31	3/4	353.32	3/4	9.97	3/4		3/4		3/4		3/4	
7	7	3,784.83	7	3,402.46	7	3,020.00	7	2,637.05	7	2,254.11	7	1,871.16	7	1,488.22	7	1,105.28	7	722.33	7	345.33	7	8.97	7		7		7		7	
1/4	1/4	3,776.86	1/4	3,394.49	1/4	3,012.02	1/4	2,629.07	1/4	2,246.13	1/4	1,863.19	1/4	1,480.24	1/4	1,097.30	1/4	714.35	1/4	337.34	1/4	7.97	1/4		1/4		1/4		1/4	
1/2	1/2	3,768.90	1/2	3,386.53	1/2	3,004.04	1/2	2,621.10	1/2	2,238.15	1/2	1,855.21	1/2	1,472.26	1/2	1,089.32	1/2	706.38	1/2	329.34	1/2	6.97	1/2		1/2		1/2		1/2	
3/4	3/4	3,760.93	3/4	3,378.56	3/4	2,996.06	3/4	2,613.12	3/4	2,220.17	3/4	1,847.23	3/4	1,464.29	3/4	1,081.34	3/4	698.40	3/4	321.35	3/4	5.97	3/4		3/4		3/4		3/4	
8	8	3,752.96	8	3,370.60	8	2,988.08	8	2,605.14	8	2,222.20	8	1,839.25	8	1,456.31	8	1,073.36	8	690.42	8	313.36	8	4.97	8		8		8		8	
1/4	1/4	3,745.00	1/4	3,362.63	1/4	2,980.11	1/4	2,597.16	1/4	2,214.22	1/4	1,831.27	1/4	1,448.33	1/4	1,065.39	1/4	682.44	1/4	305.36	1/4	3.97	1/4		1/4		1/4		1/4	
1/2	1/2	3,737.03	1/2	3,354.66	1/2	2,972.13	1/2	2,589.18	1/2	2,206.24	1/2	1,823.30	1/2	1,440.35	1/2	1,057.41	1/2	674.46	1/2	297.37	1/2	2.97	1/2		1/2		1/2		1/2	
3/4	3/4	3,729.07	3/4	3,346.70	3/4	2,964.15	3/4	2,581.21	3/4	2,198.26	3/4	1,815.32	3/4	1,432.37	3/4	1,049.43	3/4	666.49	3/4	289.38	3/4	1.97	3/4		3/4		3/4		3/4	
9	9	3,7271.1																												



BARGE "MAP-775"
MARATHON ASHLAND PETROLEUM

OUTAGE TABLE

1 STAR

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

HULL NO. 4503

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	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	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	1/4	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	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	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	
4.198.52	1	3.976.01	1	3.593.64	1	3.211.28	1	2.828.52	1	2.445.58	1	2.064.66	1	1.679.69	1	1.286.75	1	913.80	1	533.98	1	153.50	1	1	1	1	1	1	1	1
4.198.15	1/4	3.968.05	1/4	3.585.68	1/4	3.203.31	1/4	2.820.55	1/4	2.437.62	1/4	2.054.64	1/4	1.671.71	1/4	1.280.77	1/4	905.83	1/4	526.78	1/4	145.50	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.197.77	1/2	3.960.08	1/2	3.577.71	1/2	3.195.34	1/2	2.812.57	1/2	2.429.62	1/2	2.046.68	1/2	1.663.74	1/2	1.268.79	1/2	897.85	1/2	519.58	1/2	137.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4.197.40	3/4	3.952.11	3/4	3.569.75	3/4	3.187.38	3/4	2.804.59	3/4	2.421.65	3/4	2.038.70	3/4	1.655.76	3/4	1.272.81	3/4	889.87	3/4	512.39	3/4	129.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4.197.03	2	3.944.15	2	3.561.78	2	3.179.41	2	2.796.61	2	2.413.67	2	2.030.72	2	1.647.78	2	1.264.84	2	881.89	2	505.19	2	121.52	2	2	2	2	2	2	2	2
4.195.86	1/4	3.936.18	1/4	3.553.81	1/4	3.171.45	1/4	2.788.63	1/4	2.405.69	1/4	2.022.75	1/4	1.639.80	1/4	1.256.86	1/4	873.91	1/4	497.20	1/4	114.33	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.194.68	1/2	3.928.22	1/2	3.545.85	1/2	3.163.48	1/2	2.780.66	1/2	2.397.71	1/2	2.014.77	1/2	1.631.82	1/2	1.248.88	1/2	865.94	1/2	488.20	1/2	107.13	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4.193.51	3/4	3.920.25	3/4	3.537.88	3/4	3.155.51	3/4	2.772.68	3/4	2.389.73	3/4	2.006.79	3/4	1.623.85	3/4	1.240.90	3/4	857.96	3/4	481.21	3/4	99.93	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4.192.34	3	3.912.28	3	3.529.92	3	3.147.55	3	2.764.70	3	2.381.76	3	1.998.81	3	1.615.87	3	1.232.92	3	849.98	3	473.22	3	92.73	3	3	3	3	3	3	3	3
4.190.37	1/4	3.904.32	1/4	3.521.95	1/4	3.139.58	1/4	2.756.72	1/4	2.373.78	1/4	1.990.83	1/4	1.607.89	1/4	1.224.95	1/4	842.00	1/4	465.22	1/4	85.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.188.40	1/2	3.896.35	1/2	3.513.98	1/2	3.131.62	1/2	2.748.74	1/2	2.365.80	1/2	1.992.86	1/2	1.599.91	1/2	1.216.97	1/2	834.02	1/2	457.23	1/2	78.34	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4.186.43	3/4	3.888.39	3/4	3.506.02	3/4	3.123.65	3/4	2.740.77	3/4	2.357.82	3/4	1.974.88	3/4	1.591.93	3/4	1.208.99	3/4	826.05	3/4	449.24	3/4	71.14	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4.184.46	4	3.880.42	4	3.498.05	4	3.115.68	4	2.732.79	4	2.349.84	4	1.966.90	4	1.583.96	4	1.201.01	4	818.07	4	441.24	4	63.94	4	4	4	4	4	4	4	4
4.181.69	1/4	3.872.45	1/4	3.490.09	1/4	3.107.72	1/4	2.724.81	1/4	2.341.87	1/4	1.958.92	1/4	1.575.98	1/4	1.193.03	1/4	810.09	1/4	433.25	1/4	56.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.178.92	1/2	3.864.49	1/2	3.482.12	1/2	3.099.75	1/2	2.716.83	1/2	2.333.89	1/2	1.950.94	1/2	1.568.00	1/2	1.185.06	1/2	802.11	1/2	425.26	1/2	49.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4.176.15	3/4	3.856.52	3/4	3.474.15	3/4	3.091.79	3/4	2.708.85	3/4	2.325.91	3/4	1.942.97	3/4	1.560.02	3/4	1.177.08	3/4	794.13	3/4	417.27	3/4	42.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4.173.38	5	3.848.56	5	3.466.19	5	3.083.82	5	2.700.88	5	2.317.93	5	1.934.99	5	1.552.04	5	1.169.10	5	786.16	5	409.27	5	35.97	5	5	5	5	5	5	5	5
4.169.81	1/4	3.840.59	1/4	3.458.22	1/4	3.075.84	1/4	2.692.90	1/4	2.309.95	1/4	1.927.01	1/4	1.544.07	1/4	1.161.12	1/4	778.18	1/4	401.28	1/4	30.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.166.24	1/2	3.832.62	1/2	3.450.26	1/2	3.067.86	1/2	2.684.92	1/2	2.301.98	1/2	1.919.03	1/2	1.536.09	1/2	1.153.14	1/2	770.20	1/2	393.29	1/2	25.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4.162.67	3/4	3.824.66	3/4	3.442.29	3/4	3.059.89	3/4	2.676.94	3/4	2.294.00	3/4	1.911.05	3/4	1.528.11	3/4	1.145.17	3/4	762.22	3/4	385.29	3/4	20.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4.159.10	6	3.816.69	6	3.434.32	6	3.051.91	6	2.668.96	6	2.286.02	6	1.903.08	6	1.520.13	6	1.137.19	6	754.24	6	377.30	6	15.99	6	6	6	6	6	6	6	6
4.154.73	1/4	3.808.73	1/4	3.426.36	1/4	3.043.93	1/4	2.660.99	1/4	2.278.04	1/4	1.895.10	1/4	1.512.15	1/4	1.129.21	1/4	746.27	1/4	369.31	1/4	14.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.150.36	1/2	3.800.76	1/2	3.418.39	1/2	3.035.95	1/2	2.653.01	1/2	2.270.06	1/2	1.887.12	1/2	1.504.18	1/2	1.121.23	1/2	738.29	1/2	361.31	1/2	12.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4.145.99	3/4	3.792.79	3/4	3.410.43	3/4	3.027.97	3/4	2.645.03	3/4	2.262.09	3/4	1.879.14	3/4	1.496.20	3/4	1.113.25	3/4	730.31	3/4	353.32	3/4	10.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4.141.62	7	3.784.83	7	3.402.46	7	3.020.00	7	2.637.05	7	2.254.11	7	1.871.16	7	1.488.22	7	1.105.28	7	722.33	7	345.33	7	8.00	7	7	7	7	7	7	7	7
4.136.45	1/4	3.776.86	1/4	3.394.49	1/4	3.012.02	1/4	2.629.07	1/4	2.246.13	1/4	1.863.19	1/4	1.480.24	1/4	1.097.30	1/4	714.35	1/4	337.34	1/4	6.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.131.28	1/2	3.768.90	1/2	3.386.53	1/2	3.004.04	1/2	2.621.10	1/2	2.238.15	1/2	1.855.21	1/2	1.472.26	1/2	1.089.32	1/2	706.38	1/2	329.34	1/2	4.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
4.126.11	3/4	3.760.93	3/4	3.378.56	3/4	2.996.06	3/4	2.613.12	3/4	2.230.17	3/4	1.847.23	3/4	1.464.29	3/4	1.081.34	3/4	698.40	3/4	321.35	3/4	2.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4.120.94	8	3.752.96	8	3.370.60	8	2.988.08	8	2.605.14	8	2.222.20	8	1.839.25	8	1.456.31	8	1.073.36	8	690.42	8	313.36	8	1.00	8	8	8	8	8	8	8	8
4.114.98	1/4	3.745.00	1/4	3.362.63	1/4	2.980.11	1/4	2.597.16	1/4	2.214.22	1/4	1.831.27	1/4	1.448.33	1/4	1.065.39	1/4	682.44	1/4	305.36	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
4.109.01	1/2	3.737.03	1/2	3.354.66	1/2	2.972.13	1/2	2.589.18	1/2	2.206.24	1/2	1.823.30	1/2	1.440.35	1/2	1.057.41														



BARGE "MAP-775"
MARATHON ASHLAND PETROLEUM
OUTAGE TABLE

2 PORT

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN																												HULL NO. 4503	
N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.
0	0	0	4,347.71	0	3,933.95	0	3,520.19	0	3,105.12	0	2,689.10	0	2,273.08	0	1,857.07	0	1,441.05	0	1,025.04	0	609.02	0	200.71	0	0	0	0	0	0
1/4	1/4	1/4	4,339.09	1/4	3,925.33	1/4	3,511.57	1/4	3,096.45	1/4	2,680.43	1/4	2,266.42	1/4	1,846.40	1/4	1,432.39	1/4	1,016.37	1/4	601.23	1/4	192.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,330.47	1/2	3,916.71	1/2	3,502.95	1/2	3,087.78	1/2	2,671.77	1/2	2,255.75	1/2	1,839.73	1/2	1,423.72	1/2	1,007.70	1/2	593.44	1/2	183.41	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,321.85	3/4	3,908.09	3/4	3,494.33	3/4	3,079.12	3/4	2,661.10	3/4	2,247.08	3/4	1,831.07	3/4	1,415.05	3/4	999.04	3/4	585.65	3/4	174.76	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	4,313.23	1	3,899.47	1	3,485.71	1	3,070.45	1	2,654.43	1	2,238.42	1	1,822.40	1	1,406.38	1	990.37	1	577.86	1	166.11	1	1	1	1	1	1
1/4	1/4	1/4	4,304.61	1/4	3,890.85	1/4	3,477.09	1/4	3,061.78	1/4	2,645.77	1/4	2,229.75	1/4	1,813.73	1/4	1,397.72	1/4	981.70	1/4	570.08	1/4	157.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,295.99	1/2	3,882.23	1/2	3,468.47	1/2	3,053.11	1/2	2,637.23	1/2	2,221.08	1/2	1,805.07	1/2	1,389.05	1/2	973.03	1/2	562.29	1/2	148.81	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,287.37	3/4	3,873.61	3/4	3,459.85	3/4	3,044.45	3/4	2,628.43	3/4	2,212.42	3/4	1,796.40	3/4	1,380.38	3/4	964.37	3/4	554.50	3/4	140.16	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	4,278.75	2	3,864.99	2	3,451.23	2	3,035.78	2	2,619.76	2	2,203.75	2	1,787.73	2	1,371.72	2	955.70	2	546.71	2	131.51	2	2	2	2	2	2
1/4	1/4	1/4	4,270.13	1/4	3,856.37	1/4	3,442.61	1/4	3,027.11	1/4	2,611.10	1/4	2,195.08	1/4	1,779.07	1/4	1,363.05	1/4	947.03	1/4	538.06	1/4	123.72	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,261.51	1/2	3,847.75	1/2	3,433.99	1/2	3,018.45	1/2	2,602.43	1/2	2,186.41	1/2	1,770.40	1/2	1,354.38	1/2	938.37	1/2	529.41	1/2	115.93	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,252.81	3/4	3,839.13	3/4	3,425.37	3/4	3,009.78	3/4	2,593.76	3/4	2,177.75	3/4	1,761.73	3/4	1,345.72	3/4	929.70	3/4	520.76	3/4	108.14	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4,244.27	4	3,830.51	4	3,416.75	4	3,001.11	4	2,585.10	4	2,169.08	4	1,753.06	4	1,337.05	4	921.03	4	512.11	4	100.35	4	4	4	4	4	4
1/4	1/4	1/4	4,235.65	1/4	3,821.89	1/4	3,408.13	1/4	2,992.45	1/4	2,576.43	1/4	2,157.75	1/4	1,744.40	1/4	1,328.38	1/4	912.37	1/4	503.46	1/4	92.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,227.03	1/2	3,813.27	1/2	3,399.51	1/2	2,983.78	1/2	2,567.76	1/2	2,151.75	1/2	1,735.73	1/2	1,319.71	1/2	903.70	1/2	494.81	1/2	84.77	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,218.41	3/4	3,804.65	3/4	3,390.89	3/4	2,975.11	3/4	2,559.10	3/4	2,143.08	3/4	1,727.06	3/4	1,311.05	3/4	895.03	3/4	486.16	3/4	76.99	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4,209.79	4	3,796.03	4	3,382.27	4	2,966.44	4	2,550.43	4	2,134.41	4	1,718.40	4	1,302.38	4	886.36	4	477.51	4	69.20	4	4	4	4	4	4
1/4	1/4	1/4	4,201.17	1/4	3,787.41	1/4	3,373.65	1/4	2,957.78	1/4	2,541.76	1/4	2,125.75	1/4	1,709.73	1/4	1,293.71	1/4	877.70	1/4	468.86	1/4	61.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,192.55	1/2	3,778.79	1/2	3,365.03	1/2	2,949.11	1/2	2,533.09	1/2	2,117.08	1/2	1,701.06	1/2	1,285.05	1/2	869.03	1/2	460.21	1/2	54.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,183.93	3/4	3,770.17	3/4	3,356.41	3/4	2,940.44	3/4	2,524.43	3/4	2,108.41	3/4	1,692.40	3/4	1,276.38	3/4	860.36	3/4	451.56	3/4	46.49	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	4,175.31	5	3,761.55	5	3,347.79	5	2,931.78	5	2,515.76	5	2,099.78	5	1,683.73	5	1,267.71	5	851.70	5	442.91	5	38.92	5	5	5	5	5	5
1/4	1/4	1/4	4,166.69	1/4	3,752.93	1/4	3,339.13	1/4	2,923.11	1/4	2,507.09	1/4	2,091.04	1/4	1,675.06	1/4	1,259.05	1/4	843.03	1/4	434.26	1/4	33.52	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,158.07	1/2	3,744.31	1/2	3,330.46	1/2	2,914.44	1/2	2,498.43	1/2	2,082.41	1/2	1,666.39	1/2	1,250.38	1/2	834.36	1/2	425.61	1/2	28.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,149.45	3/4	3,735.69	3/4	3,321.79	3/4	2,905.78	3/4	2,488.76	3/4	2,073.74	3/4	1,657.37	3/4	1,241.71	3/4	825.70	3/4	416.96	3/4	22.71	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	4,140.83	6	3,727.07	6	3,313.12	6	2,897.11	6	2,481.09	6	2,065.08	6	1,649.06	6	1,233.04	6	817.03	6	408.31	6	17.30	6	6	6	6	6	6
1/4	1/4	1/4	4,132.21	1/4	3,718.45	1/4	3,304.46	1/4	2,888.44	1/4	2,472.43	1/4	2,056.41	1/4	1,640.39	1/4	1,224.38	1/4	808.36	1/4	399.66	1/4	14.81	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,123.59	1/2	3,709.83	1/2	3,295.79	1/2	2,879.77	1/2	2,465.76	1/2	2,047.74	1/2	1,631.73	1/2	1,215.71	1/2	799.69	1/2	391.01	1/2	12.81	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,114.97	3/4	3,701.21	3/4	3,287.12	3/4	2,871.11	3/4	2,455.09	3/4	2,039.08	3/4	1,623.06	3/4	1,207.04	3/4	791.03	3/4	382.36	3/4	11.81	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	4,106.35	7	3,692.59	7	3,278.46	7	2,862.44	7	2,446.42	7	2,030.41	7	1,614.39	7	1,198.38	7	782.36	7	373.71	7	10.81	7	7	7	7	7	7
1/4	1/4	1/4	4,097.73	1/4	3,683.97	1/4	3,269.79	1/4	2,853.77	1/4	2,437.76	1/4	2,021.74	1/4	1,605.73	1/4	1,189.77	1/4	773.69	1/4	365.06	1/4	9.81	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,089.11	1/2	3,675.35	1/2	3,261.12	1/2	2,845.11	1/2	2,429.09	1/2	2,013.07	1/2	1,597.06	1/2	1,181.04	1/2	765.03	1/2	356.41	1/2	8.81	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,080.49	3/4	3,666.73	3/4	3,252.46	3/4	2,836.44	3/4	2,420.42	3/4	2,004.41	3/4	1,589.72	3/4	1,172.38	3/4	756.36	3/4	347.76	3/4	7.81	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	4,070.07	8	3,658.11	8	3,243.79	8	2,827.77	8	2,411.76	8	1,995.74	8	1,579.72	8	1,163.71	8	747.69	8	339.11	8	6.81	8	8	8	8	8	8
1/4	1/4	1/4	4,063.25	1/4	3,649.49	1/4	3,235.12	1/4	2,819.11	1/4	2,403.09	1/4	1,987.07	1/4	1,571.06	1/4	1,155.04	1/4	739.03	1/4	330.46	1/4	5.81	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	4,054.63	1/2	3,640.87	1/2	3,226.45	1/2	2,810.44	1/2	2,394.42	1/2	1,978.41	1/2	1,562.39	1/2	1,146.37	1/2	730.36	1/2	321.81	1/2	4.81	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	4,046.01	3/4	3,632.25	3/4	3,217.79	3/4	2,801.77	3/4	2,385.76	3/4	1,969.74	3/4	1,553.72	3/4	1,137.71	3/4	721.69	3/4	313.16	3/4	3.81	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	4,037.39	9	3,623.63	9	3,209.12	9	2,793.10	9	2,377.09	9	1,9																



BARGE "MAP-775"
MARATHON ASHLAND PETROLEUM
OUTAGE TABLE

2 STAR

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

HULL NO. 4503

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			4,356.33	0	3,942.57	0	3,528.81	0	3,113.78	0	2,697.77	0	2,281.75	0	1,865.74	0	1,449.72	0	1,033.70	0	617.69	0	209.36	0	0	0	0	0	0
	1/4	1/4	4,347.71	1/4	3,933.95	1/4	3,520.19	1/4	3,105.12	1/4	2,689.10	1/4	2,273.08	1/4	1,857.07	1/4	1,441.05	1/4	1,025.04	1/4	609.02	1/4	200.71	1/4	1/4	1/4	1/4	1/4	
	1/2	1/2	4,339.09	1/2	3,925.33	1/2	3,511.57	1/2	3,096.45	1/2	2,680.43	1/2	2,264.42	1/2	1,848.40	1/2	1,432.39	1/2	1,016.37	1/2	601.23	1/2	192.06	1/2	1/2	1/2	1/2	1/2	
	3/4	3/4	4,330.47	3/4	3,916.71	3/4	3,502.95	3/4	3,087.78	3/4	2,671.77	3/4	2,255.75	3/4	1,839.73	3/4	1,423.72	3/4	1,007.70	3/4	593.44	3/4	183.41	3/4	3/4	3/4	3/4	3/4	
1	1	4,321.85	1	3,908.09	1	3,494.33	1	3,079.12	1	2,663.10	1	2,247.08	1	1,831.07	1	1,415.05	1	999.04	1	585.65	1	174.76	1	1	1	1	1	1	
1/4	1/4	4,313.23	1/4	3,899.47	1/4	3,485.71	1/4	3,070.45	1/4	2,654.43	1/4	2,238.42	1/4	1,822.40	1/4	1,406.38	1/4	990.37	1/4	577.86	1/4	166.11	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,304.61	1/2	3,890.85	1/2	3,477.09	1/2	3,061.78	1/2	2,645.77	1/2	2,229.75	1/2	1,813.73	1/2	1,397.72	1/2	981.70	1/2	570.08	1/2	157.46	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,295.99	3/4	3,882.23	3/4	3,468.47	3/4	3,053.11	3/4	2,637.10	3/4	2,221.08	3/4	1,805.07	3/4	1,389.05	3/4	973.03	3/4	562.29	3/4	148.81	3/4	3/4	3/4	3/4	3/4	3/4	
2	2	4,287.37	2	3,873.61	2	3,459.85	2	3,044.45	2	2,628.43	2	2,212.42	2	1,796.40	2	1,380.38	2	964.37	2	554.50	2	140.16	2	2	2	2	2	2	
1/4	1/4	4,278.75	1/4	3,864.99	1/4	3,451.23	1/4	3,035.78	1/4	2,619.76	1/4	2,203.75	1/4	1,787.73	1/4	1,371.72	1/4	955.70	1/4	546.71	1/4	131.51	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,270.13	1/2	3,856.37	1/2	3,442.61	1/2	3,027.11	1/2	2,611.10	1/2	2,195.08	1/2	1,779.07	1/2	1,363.05	1/2	947.03	1/2	538.06	1/2	123.72	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,261.51	3/4	3,847.75	3/4	3,433.99	3/4	3,018.45	3/4	2,602.43	3/4	2,186.41	3/4	1,770.40	3/4	1,354.38	3/4	938.37	3/4	529.41	3/4	115.93	3/4	3/4	3/4	3/4	3/4	3/4	
3	3	4,252.89	3	3,839.13	3	3,425.37	3	3,009.78	3	2,593.76	3	2,177.75	3	1,761.73	3	1,345.72	3	929.70	3	520.76	3	108.14	3	3	3	3	3	3	
1/4	1/4	4,244.27	1/4	3,830.51	1/4	3,416.75	1/4	3,001.11	1/4	2,585.10	1/4	2,169.08	1/4	1,753.06	1/4	1,337.05	1/4	921.03	1/4	512.11	1/4	100.35	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,235.65	1/2	3,821.89	1/2	3,408.13	1/2	2,992.45	1/2	2,576.43	1/2	2,160.41	1/2	1,744.40	1/2	1,328.38	1/2	912.37	1/2	503.46	1/2	92.56	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,227.03	3/4	3,813.27	3/4	3,399.51	3/4	2,983.78	3/4	2,567.76	3/4	2,151.75	3/4	1,735.73	3/4	1,319.71	3/4	903.70	3/4	494.81	3/4	84.77	3/4	3/4	3/4	3/4	3/4	3/4	
4	4	4,218.41	4	3,804.65	4	3,390.89	4	2,975.11	4	2,559.10	4	2,143.08	4	1,727.06	4	1,311.05	4	895.03	4	486.16	4	76.99	4	4	4	4	4	4	
1/4	1/4	4,209.79	1/4	3,796.03	1/4	3,382.27	1/4	2,966.44	1/4	2,550.43	1/4	2,134.41	1/4	1,718.40	1/4	1,302.38	1/4	886.36	1/4	477.51	1/4	69.20	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,201.17	1/2	3,787.41	1/2	3,373.65	1/2	2,957.78	1/2	2,541.76	1/2	2,125.75	1/2	1,709.73	1/2	1,293.71	1/2	877.70	1/2	468.86	1/2	61.63	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,192.55	3/4	3,778.79	3/4	3,365.03	3/4	2,949.11	3/4	2,533.09	3/4	2,117.08	3/4	1,701.06	3/4	1,285.05	3/4	869.03	3/4	460.21	3/4	54.06	3/4	3/4	3/4	3/4	3/4	3/4	
5	5	4,183.93	5	3,770.17	5	3,356.41	5	2,940.44	5	2,524.43	5	2,108.41	5	1,692.40	5	1,276.38	5	860.36	5	451.56	5	46.49	5	5	5	5	5	5	
1/4	1/4	4,175.31	1/4	3,761.55	1/4	3,347.79	1/4	2,931.78	1/4	2,515.76	1/4	2,099.74	1/4	1,683.73	1/4	1,267.71	1/4	851.70	1/4	442.91	1/4	38.92	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,166.69	1/2	3,752.93	1/2	3,339.13	1/2	2,923.11	1/2	2,507.09	1/2	2,091.08	1/2	1,675.06	1/2	1,259.05	1/2	843.03	1/2	434.26	1/2	33.52	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,158.07	3/4	3,744.31	3/4	3,330.46	3/4	2,914.44	3/4	2,498.43	3/4	2,082.41	3/4	1,666.39	3/4	1,250.38	3/4	834.36	3/4	425.61	3/4	28.11	3/4	3/4	3/4	3/4	3/4	3/4	
6	6	4,149.45	6	3,735.69	6	3,321.79	6	2,905.78	6	2,489.76	6	2,073.74	6	1,657.73	6	1,241.71	6	825.70	6	416.96	6	22.71	6	6	6	6	6	6	
1/4	1/4	4,140.83	1/4	3,727.07	1/4	3,313.12	1/4	2,897.11	1/4	2,481.09	1/4	2,065.08	1/4	1,649.06	1/4	1,233.04	1/4	817.03	1/4	408.31	1/4	17.30	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,132.21	1/2	3,718.45	1/2	3,304.46	1/2	2,888.44	1/2	2,472.43	1/2	2,056.41	1/2	1,640.39	1/2	1,224.38	1/2	808.36	1/2	399.66	1/2	12.11	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,123.59	3/4	3,709.83	3/4	3,295.79	3/4	2,879.77	3/4	2,463.76	3/4	2,047.74	3/4	1,631.73	3/4	1,215.71	3/4	799.69	3/4	391.01	3/4	11.02	3/4	3/4	3/4	3/4	3/4	3/4	
7	7	4,114.97	7	3,701.21	7	3,287.12	7	2,871.11	7	2,455.09	7	2,039.08	7	1,623.06	7	1,207.04	7	791.03	7	382.36	7	7	7	7	7	7	7	7	
1/4	1/4	4,106.35	1/4	3,692.59	1/4	3,278.46	1/4	2,862.44	1/4	2,446.42	1/4	2,030.41	1/4	1,614.39	1/4	1,196.38	1/4	782.36	1/4	373.71	1/4	6	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,106.85	1/2	3,683.97	1/2	3,269.79	1/2	2,853.77	1/2	2,437.76	1/2	2,021.74	1/2	1,605.73	1/2	1,189.71	1/2	773.69	1/2	365.06	1/2	5	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,108.11	3/4	3,675.35	3/4	3,261.12	3/4	2,845.11	3/4	2,429.09	3/4	2,013.07	3/4	1,597.06	3/4	1,181.04	3/4	765.03	3/4	356.41	3/4	4	3/4	3/4	3/4	3/4	3/4	3/4	
8	8	4,080.49	8	3,666.73	8	3,252.46	8	2,836.44	8	2,420.42	8	2,004.41	8	1,588.39	8	1,172.38	8	756.36	8	347.76	8	3	8	8	8	8	8	8	
1/4	1/4	4,071.87	1/4	3,658.11	1/4	3,243.79	1/4	2,827.77	1/4	2,411.76	1/4	1,995.74	1/4	1,579.72	1/4	1,163.71	1/4	747.69	1/4	339.11	1/4	2	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1/2	4,063.25	1/2	3,649.49	1/2	3,235.12	1/2	2,819.11	1/2	2,403.09	1/2	1,987.07	1/2	1,571.06	1/2	1,155.04	1/2	739.03	1/2	330.46	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	3/4	4,054.63	3/4	3,640.87	3/4	3,226.45	3/4	2,810.44	3/4	2,394.42	3/4	1,978.41	3/4	1,563.39	3/4	1,146.37	3/4	730.36	3/4	321.81	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	
9	9	4,046.01	9	3,632.25	9</																								



BARGE "MAP-775"
MARATHON ASHLAND PETROLEUM
OUTAGE TABLE

3 PORT

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN																												HULL NO. 4503																											
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	N	I																								
0	0	4,034.66	0	3,649.90	0	3,265.13	0	2,879.83	0	2,494.15	0	2,108.47	0	1,722.79	0	1,337.11	0	951.43	0	565.75	0	186.45	0	0	0	0	0	0	0	0	0																								
1/4	1/4	4,026.65	1/4	3,641.88	1/4	3,257.11	1/4	2,871.79	1/4	2,486.11	1/4	2,100.43	1/4	1,714.75	1/4	1,329.07	1/4	943.39	1/4	558.51	1/4	178.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4																								
1/2	1/2	4,018.63	1/2	3,633.86	1/2	3,249.10	1/2	2,863.76	1/2	2,478.08	1/2	2,092.40	1/2	1,706.72	1/2	1,321.04	1/2	935.36	1/2	551.27	1/2	170.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2																								
3/4	3/4	4,010.62	3/4	3,625.85	3/4	3,241.08	3/4	2,855.72	3/4	2,470.04	3/4	2,084.36	3/4	1,698.68	3/4	1,313.00	3/4	927.32	3/4	544.04	3/4	162.35	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
1	1	4,002.60	1	3,617.83	1	3,233.06	1	2,847.69	1	2,462.01	1	2,076.33	1	1,690.65	1	1,304.97	1	919.29	1	536.80	1	154.31	1	1	1	1	1	1	1	1	1	1																							
1/4	1/4	4,025.98	1/4	3,994.58	1/4	3,225.05	1/4	2,839.65	1/4	2,454.94	1/4	2,060.26	1/4	1,674.58	1/4	1,288.90	1/4	903.22	1/4	522.33	1/4	138.24	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4																								
1/2	1/2	4,225.60	1/2	3,986.57	1/2	3,217.03	1/2	2,831.62	1/2	2,445.94	1/2	2,052.22	1/2	1,674.58	1/2	1,288.90	1/2	895.18	1/2	515.09	1/2	130.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2																								
3/4	3/4	4,225.23	3/4	3,978.55	3/4	3,209.02	3/4	2,823.58	3/4	2,437.90	3/4	2,044.19	3/4	1,666.54	3/4	1,280.86	3/4	895.18	3/4	515.09	3/4	130.21	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
2	2	4,224.85	2	3,970.54	2	3,585.77	2	2,815.55	2	2,429.87	2	2,044.19	2	1,658.47	2	1,272.83	2	887.15	2	507.85	2	122.17	2	2	2	2	2	2	2	2	2	2																							
1/4	1/4	4,223.67	1/4	3,962.52	1/4	3,577.75	1/4	2,807.51	1/4	2,412.83	1/4	2,036.15	1/4	1,650.47	1/4	1,264.79	1/4	879.11	1/4	499.82	1/4	114.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4																								
1/2	1/2	4,222.50	1/2	3,954.50	1/2	3,569.74	1/2	2,799.48	1/2	2,413.80	1/2	2,028.12	1/2	1,642.44	1/2	1,256.76	1/2	871.08	1/2	491.78	1/2	107.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2																								
3/4	3/4	4,221.32	3/4	3,946.49	3/4	3,561.72	3/4	2,791.44	3/4	2,405.76	3/4	2,020.08	3/4	1,634.40	3/4	1,248.72	3/4	863.04	3/4	483.75	3/4	100.46	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
3	3	4,220.14	3	3,938.47	3	3,553.70	3	2,783.41	3	2,397.73	3	2,012.05	3	1,626.37	3	1,240.69	3	855.01	3	475.71	3	93.22	3	3	3	3	3	3	3	3	3	3																							
1/4	1/4	4,218.16	1/4	3,930.46	1/4	3,545.69	1/4	2,775.37	1/4	2,389.69	1/4	2,004.01	1/4	1,618.33	1/4	1,232.65	1/4	846.97	1/4	467.68	1/4	85.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4																								
1/2	1/2	4,216.18	1/2	3,922.44	1/2	3,537.67	1/2	2,767.34	1/2	2,381.66	1/2	1,995.98	1/2	1,610.30	1/2	1,224.62	1/2	838.94	1/2	459.64	1/2	78.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2																								
3/4	3/4	4,214.20	3/4	3,914.42	3/4	3,529.66	3/4	2,759.30	3/4	2,373.62	3/4	1,987.94	3/4	1,602.26	3/4	1,216.58	3/4	830.90	3/4	451.61	3/4	71.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
4	4	4,212.22	4	3,906.41	4	3,521.64	4	2,751.27	4	2,365.59	4	1,979.91	4	1,594.23	4	1,208.55	4	822.87	4	443.57	4	64.28	4	4	4	4	4	4	4	4	4	4																							
1/4	1/4	4,209.43	1/4	3,898.39	1/4	3,513.62	1/4	2,743.23	1/4	2,357.55	1/4	1,971.87	1/4	1,586.19	1/4	1,200.51	1/4	814.83	1/4	435.54	1/4	57.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4																								
1/2	1/2	4,206.64	1/2	3,890.38	1/2	3,505.61	1/2	2,735.20	1/2	2,349.52	1/2	1,963.94	1/2	1,578.16	1/2	1,192.48	1/2	806.80	1/2	427.50	1/2	50.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2																								
3/4	3/4	4,203.86	3/4	3,882.36	3/4	3,497.59	3/4	2,727.16	3/4	2,341.48	3/4	1,955.80	3/4	1,570.12	3/4	1,184.44	3/4	798.76	3/4	419.47	3/4	43.19	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
5	5	4,201.07	5	3,874.34	5	3,489.58	5	2,719.13	5	2,333.45	5	1,947.77	5	1,562.09	5	1,176.41	5	790.73	5	411.43	5	36.16	5	5	5	5	5	5	5	5	5	5																							
1/4	1/4	4,197.48	1/4	3,866.33	1/4	3,481.56	1/4	2,711.09	1/4	2,325.41	1/4	1,939.73	1/4	1,554.05	1/4	1,168.37	1/4	782.69	1/4	403.40	1/4	31.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4																								
1/2	1/2	4,193.89	1/2	3,858.31	1/2	3,473.54	1/2	2,703.06	1/2	2,317.38	1/2	1,931.70	1/2	1,546.02	1/2	1,160.34	1/2	774.66	1/2	395.36	1/2	26.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2																								
3/4	3/4	4,190.30	3/4	3,850.30	3/4	3,465.53	3/4	2,695.92	3/4	2,309.34	3/4	1,923.66	3/4	1,537.98	3/4	1,152.30	3/4	766.62	3/4	387.33	3/4	21.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
6	6	4,186.71	6	3,842.28	6	3,457.51	6	2,686.99	6	2,301.37	6	1,915.63	6	1,529.95	6	1,144.27	6	758.59	6	379.29	6	16.07	6	6	6	6	6	6	6	6	6	6																							
1/4	1/4	4,182.32	1/4	3,834.26	1/4	3,449.50	1/4	2,678.95	1/4	2,293.27	1/4	1,907.59	1/4	1,521.91	1/4	1,136.23	1/4	750.55	1/4	371.26	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	4,177.93	1/2	3,826.25	1/2	3,441.48	1/2	2,670.92	1/2	2,285.24	1/2	1,899.56	1/2	1,513.88	1/2	1,128.20	1/2	742.52	1/2	363.22	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	4,173.43	3/4	3,818.23	3/4	3,433.46	3/4	2,662.88	3/4	2,277.20	3/4	1,891.52	3/4	1,505.84	3/4	1,120.16	3/4	734.48	3/4	355.19	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
7	7	4,169.14	7	3,810.22	7	3,425.45	7	2,654.85	7	2,269.17	7	1,883.49	7	1,489.77	7	1,112.13	7	726.45	7	347.15	7	7	7	7	7	7	7	7	7	7	7	7																							
1/4	1/4	4,163.95	1/4	3,802.20	1/4	3,417.43	1/4	2,646.81	1/4	2,261.13	1/4	1,875.45	1/4	1,489.77	1/4	1,104.09	1/4	718.41	1/4	339.12	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	4,158.75	1/2	3,794.18	1/2	3,408.42	1/2	2,638.78	1/2	2,253.10	1/2	1,867.42	1/2	1,481.74	1/2	1,096.06	1/2	710.38	1/2	331.08	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	4,153.56	3/4	3,786.17	3/4	3,401.40	3/4	2,630.74	3/4	2,245.06	3/4	1,859.38	3/4	1,473.70	3/4	1,088.02	3/4	702.34	3/4	323.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4																								
8	8	4,148.36	8	3,778.15	8	3,393.38	8	2,622.71	8	2,237.03	8	1,851.35	8	1,465.67	8	1,079.99	8	694.31	8	315.01	8	8	8	8	8	8	8	8	8	8	8	8																							
1/4	1/4	4,142.36	1/4	3,770.14	1/4	3,385.37	1/4	2,614.67	1/4	2																																													



BARGE "MAP-775"
MARATHON ASHLAND PETROLEUM

OUTAGE TABLE

3 STAR

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

HULL NO. 4503

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
1/4	4,018.63	1/4	4,018.63	1/4	3,633.86	1/4	3,248.10	1/4	2,863.76	1/4	2,478.08	1/4	2,092.40	1/4	1,706.72	1/4	1,321.04	1/4	935.36	1/4	558.57	1/4	178.42	1/4	170.38	1/4	551.27	1/4	170.38
1/2	4,010.62	1/2	4,010.62	1/2	3,625.85	1/2	3,241.08	1/2	2,855.72	1/2	2,470.04	1/2	2,084.36	1/2	1,698.68	1/2	1,313.02	1/2	927.32	1/2	544.04	1/2	162.35	1/2	154.31	1/2	544.04	1/2	162.35
3/4	4,226.35	3/4	4,002.60	3/4	3,617.83	3/4	3,233.06	3/4	2,847.69	3/4	2,462.01	3/4	2,076.33	3/4	1,690.65	3/4	1,304.97	3/4	919.29	3/4	536.80	3/4	154.31	3/4	146.28	3/4	536.80	3/4	154.31
1	4,225.98	1	3,994.58	1	3,609.82	1	3,225.05	1	2,839.65	1	2,453.97	1	2,068.29	1	1,682.61	1	1,296.93	1	911.25	1	529.56	1	146.28	1	138.24	1	529.56	1	146.28
1/4	4,225.23	1/4	3,998.55	1/4	3,601.80	1/4	3,217.03	1/4	2,831.62	1/4	2,445.94	1/4	2,060.26	1/4	1,674.58	1/4	1,280.90	1/4	903.22	1/4	522.33	1/4	138.24	1/4	130.21	1/4	522.33	1/4	130.21
1/2	4,225.23	1/2	3,978.55	1/2	3,593.78	1/2	3,209.02	1/2	2,823.58	1/2	2,437.90	1/2	2,052.52	1/2	1,666.54	1/2	1,280.86	1/2	895.18	1/2	515.09	1/2	130.21	1/2	122.17	1/2	515.09	1/2	130.21
3/4	4,223.85	3/4	3,970.54	3/4	3,585.77	3/4	3,201.98	3/4	2,815.55	3/4	2,429.87	3/4	2,044.19	3/4	1,658.51	3/4	1,272.83	3/4	887.15	3/4	507.85	3/4	122.17	3/4	114.94	3/4	507.85	3/4	122.17
2	4,222.50	2	3,962.52	2	3,577.75	2	3,192.98	2	2,807.51	2	2,418.83	2	2,036.15	2	1,650.47	2	1,264.19	2	879.11	2	499.82	2	114.94	2	107.70	2	499.82	2	107.70
1/4	4,222.50	1/4	3,954.50	1/4	3,569.74	1/4	3,184.97	1/4	2,799.48	1/4	2,413.80	1/4	2,028.12	1/4	1,642.44	1/4	1,256.76	1/4	871.08	1/4	491.78	1/4	107.70	1/4	100.46	1/4	491.78	1/4	100.46
1/2	4,221.32	1/2	3,946.49	1/2	3,561.72	1/2	3,176.95	1/2	2,791.44	1/2	2,405.76	1/2	2,020.08	1/2	1,634.40	1/2	1,248.72	1/2	863.04	1/2	483.75	1/2	100.46	1/2	93.22	1/2	483.75	1/2	93.22
3/4	4,220.14	3/4	3,938.47	3/4	3,553.70	3/4	3,168.94	3/4	2,783.41	3/4	2,397.73	3/4	2,012.05	3/4	1,626.37	3/4	1,240.69	3/4	855.01	3/4	475.71	3/4	93.22	3/4	85.99	3/4	475.71	3/4	85.99
3	4,218.16	3	3,930.46	3	3,545.69	3	3,160.92	3	2,775.37	3	2,389.69	3	2,004.01	3	1,618.33	3	1,232.65	3	846.97	3	467.68	3	85.99	3	78.75	3	467.68	3	78.75
1/4	4,218.16	1/4	3,922.44	1/4	3,537.67	1/4	3,152.99	1/4	2,767.34	1/4	2,381.66	1/4	1,995.98	1/4	1,610.30	1/4	1,224.62	1/4	838.94	1/4	459.64	1/4	78.75	1/4	71.51	1/4	459.64	1/4	71.51
1/2	4,214.20	1/2	3,914.42	1/2	3,529.66	1/2	3,144.89	1/2	2,759.30	1/2	2,373.62	1/2	1,987.94	1/2	1,602.26	1/2	1,216.58	1/2	830.90	1/2	451.61	1/2	71.51	1/2	64.28	1/2	451.61	1/2	64.28
3/4	4,212.22	3/4	3,906.41	3/4	3,521.64	3/4	3,138.86	3/4	2,751.27	3/4	2,365.59	3/4	1,979.91	3/4	1,584.23	3/4	1,208.55	3/4	822.87	3/4	443.57	3/4	64.28	3/4	57.25	3/4	443.57	3/4	57.25
4	4,209.43	4	3,898.39	4	3,513.62	4	3,128.86	4	2,743.23	4	2,357.55	4	1,971.87	4	1,586.19	4	1,200.51	4	814.83	4	435.54	4	57.25	4	50.22	4	435.54	4	50.22
1/4	4,206.64	1/4	3,890.38	1/4	3,505.61	1/4	3,120.84	1/4	2,735.20	1/4	2,349.52	1/4	1,963.84	1/4	1,578.16	1/4	1,192.48	1/4	806.80	1/4	427.50	1/4	50.22	1/4	43.19	1/4	427.50	1/4	43.19
1/2	4,203.86	1/2	3,882.36	1/2	3,497.59	1/2	3,112.82	1/2	2,727.16	1/2	2,341.48	1/2	1,955.80	1/2	1,570.12	1/2	1,184.44	1/2	798.76	1/2	419.47	1/2	43.19	1/2	36.16	1/2	419.47	1/2	36.16
3/4	4,201.07	3/4	3,874.34	3/4	3,489.58	3/4	3,104.81	3/4	2,719.13	3/4	2,333.45	3/4	1,947.77	3/4	1,562.09	3/4	1,176.41	3/4	790.73	3/4	411.43	3/4	36.16	3/4	21.09	3/4	411.43	3/4	21.09
5	4,197.48	5	3,868.33	5	3,481.56	5	3,096.77	5	2,711.09	5	2,325.41	5	1,939.73	5	1,554.05	5	1,168.37	5	782.69	5	403.40	5	31.13	5	26.11	5	403.40	5	31.13
1/4	4,193.89	1/4	3,858.31	1/4	3,473.54	1/4	3,088.74	1/4	2,703.06	1/4	2,317.38	1/4	1,931.70	1/4	1,546.02	1/4	1,160.34	1/4	774.66	1/4	395.36	1/4	26.11	1/4	21.09	1/4	395.36	1/4	21.09
1/2	4,190.30	1/2	3,850.30	1/2	3,465.53	1/2	3,080.70	1/2	2,695.02	1/2	2,309.34	1/2	1,923.66	1/2	1,537.98	1/2	1,152.30	1/2	766.62	1/2	387.33	1/2	21.09	1/2	16.07	1/2	387.33	1/2	16.07
3/4	4,186.71	3/4	3,842.28	3/4	3,457.51	3/4	3,072.67	3/4	2,686.99	3/4	2,301.31	3/4	1,915.63	3/4	1,529.95	3/4	1,144.27	3/4	758.59	3/4	379.29	3/4	16.07	3/4	11.04	3/4	379.29	3/4	11.04
6	4,182.32	6	3,834.26	6	3,449.50	6	3,064.63	6	2,678.95	6	2,293.27	6	1,907.59	6	1,521.91	6	1,136.23	6	750.55	6	371.26	6	11.04	6	6.06	6	371.26	6	6.06
1/4	4,177.93	1/4	3,826.25	1/4	3,441.48	1/4	3,056.60	1/4	2,670.92	1/4	2,285.24	1/4	1,899.56	1/4	1,513.88	1/4	1,128.20	1/4	742.52	1/4	363.22	1/4	6.06	1/4	5.03	1/4	363.22	1/4	5.03
1/2	4,173.53	1/2	3,818.23	1/2	3,433.46	1/2	3,046.56	1/2	2,662.88	1/2	2,271.20	1/2	1,891.52	1/2	1,505.84	1/2	1,120.16	1/2	734.48	1/2	355.19	1/2	5.03	1/2	4.00	1/2	355.19	1/2	4.00
3/4	4,169.14	3/4	3,810.22	3/4	3,425.45	3/4	3,040.53	3/4	2,654.85	3/4	2,259.17	3/4	1,883.49	3/4	1,497.81	3/4	1,112.13	3/4	726.45	3/4	347.15	3/4	4.00	3/4	3.00	3/4	347.15	3/4	3.00
7	4,163.95	7	3,802.20	7	3,417.43	7	3,032.49	7	2,646.81	7	2,246.13	7	1,875.45	7	1,489.77	7	1,104.09	7	718.41	7	339.12	7	3.00	7	2.00	7	339.12	7	2.00
1/4	4,158.75	1/4	3,794.18	1/4	3,409.42	1/4	3,024.46	1/4	2,638.78	1/4	2,235.10	1/4	1,867.42	1/4	1,481.70	1/4	1,096.06	1/4	710.38	1/4	331.08	1/4	2.00	1/4	1.00	1/4	331.08	1/4	1.00
1/2	4,153.56	1/2	3,786.17	1/2	3,401.40	1/2	3,016.42	1/2	2,630.74	1/2	2,225.10	1/2	1,859.38	1/2	1,473.74	1/2	1,088.02	1/2	702.34	1/2	323.05	1/2	1.00	1/2	0.00	1/2	323.05	1/2	0.00
3/4	4,148.36	3/4	3,778.15	3/4	3,393.38	3/4	3,008.35	3/4	2,622.71	3/4	2,217.03	3/4	1,851.35	3/4	1,465.67	3/4	1,079.99	3/4	694.31	3/4	315.01	3/4	0.00	3/4	0.00	3/4	315.01	3/4	0.00
8	4,142.36	8	3,770.14	8	3,385.37	8	3,000.35	8	2,614.67	8	2,208.99	8	1,843.31	8	1,457.63	8	1,071.95	8	686.27	8	306.98	8	0.00	8	0.00	8	306.98	8	0.00
1/4	4,136.36	1/4	3,762.12	1/4	3,377.35	1/4	2,992.32	1/4	2,606.64	1/4	2,200.96	1/4	1,835.28	1/4	1,449.60	1/4	1,063.92	1/4	678.24	1/4	298.94	1/4	0.00	1/4	0.00	1/4	298.94	1/4	0.00
1/2	4,130.36	1/2	3,754.10	1/2	3,369.34	1/2	2,984.28	1/2	2,598.60	1/2	2,192.92	1/2	1,827.24	1/2	1,441.56	1/2	1,055.88	1/2	670.20	1/2	290.91	1/2	0.00	1/2	0.00	1/2	290.91	1/2	0.00
3/4	4,124.36	3/4	3,746.09	3/4	3,361.32	3/4	2,976.25	3/4	2,590.57	3/4	2,180.78	3/4	1,819.21	3/4	1,433.53	3/4	1,047.85	3/4	662.17	3/4	282.87	3/4	0.00	3/4	0.00	3/4	282.87	3/4	0.00
9	4,117.56	9	3,738.07	9	3,353.30	9	2,968.21	9	2,582.53	9	2,166.85	9	1,811.17	9	1,425.49	9	1,039.81	9	654.13	9	274.84	9	0.00	9	0.00	9	274.84	9	0.00
1/4	4,110.76	1/4	3,730.06	1/4	3,345.29	1/4	2,960.18	1/4	2,574.50	1/4	2,188.82	1/4	1,803.14	1/4	1,417.46	1/4	1,031.78	1/4	646.10	1/4	266.80	1/4	0.00	1/4	0.00	1/4	266.80	1/4	0.00
1/2	4,103.96	1/2	3,722.04	1/2	3,337.27	1/2	2,952.14	1/2	2,566.46	1/2	2,180.78	1/2	1,790.78	1/2	1,409.42	1/2	1,023.74	1/2	638.06	1/2	258.77	1/2	0.00	1/2	0.00	1/2	258.77	1/2	0.00
3/4	4,097.15	3/4	3,714.02	3/4	3,329.26	3/4	2,944.11	3/4	2,558.43	3/4	2,172.75	3/4	1,783.07	3/4	1,401.39	3/4	1,015.71	3/4	630.03	3/4	250.73	3/4	0.00	3/4	0.00	3/4	250.73	3/4	0.00
10	4,089.55	10	3,706.01	10	3,321.24	10	2,936.07	10	2,550.39	10	2,164.71	10	1,779.03	10	1,393.35	10	1,007.67	10	621.99	10	242.70	10	0.00	10	0.00	10	242.70	10	0.00
1/4	4,081.94	1/4	3,697.99	1/4	3,313.22	1/4	2,928.04	1/4	2,542.36	1/4	2,156.68	1/4	1,771.00	1/4	1,385.32	1/4	999.64	1/4	61										

* CAPACITY BELOW STRIKE POINT

REFERENCE GAUGE HEIGHT : 11'-5 3/4" (RIM OF HATCH LOCATED NEAR CENTER OF TANK)

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE

INSPECTORATE AMERICA CORPORATION