



**\*KIRBY 28060\***



**\*Barge Strapping Tables\***





# BARGE "KIRBY 28060"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-3/4	- 02-3/4	03-1/4	- 03-1/4
1 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-3/4	- 02-3/4	03-1/4	- 03-1/4
2 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4
2 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4
3 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-6/8	- 02-6/8	03-1/4	- 03-1/4
3 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

### EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 01-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-10 7/8"

LENGTH BETWEEN DRAFT MARKS: 242'-03"

March 30, 2004

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28060"

## 1 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-07 3/4"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS														
0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.					
0	0	0	0	4,514.36	0	4,182.06	0	3,826.00	0	3,459.95	0	3,093.88	0	2,727.82
1/4	1/4	1/4	1/4	4,507.68	1/4	4,174.85	1/4	3,818.38	1/4	3,452.32	1/4	3,086.26	1/4	2,720.20
1/2	1/2	1/2	1/2	4,500.99	1/2	4,167.64	1/2	3,810.75	1/2	3,444.69	1/2	3,078.63	1/2	2,712.57
3/4	3/4	3/4	3/4	4,494.31	3/4	4,160.43	3/4	3,803.13	3/4	3,437.07	3/4	3,071.01	3/4	2,704.94
1	1	1	1	4,487.59	1	4,153.18	1	3,795.50	1	3,429.44	1	3,063.38	1	2,697.32
1 1/4	1 1/4	1 1/4	1 1/4	4,480.87	1 1/4	4,145.94	1 1/4	3,787.88	1 1/4	3,421.82	1 1/4	3,055.75	1 1/4	2,689.69
1 1/2	1 1/2	1 1/2	1 1/2	4,474.16	1 1/2	4,138.69	1 1/2	3,780.25	1 1/2	3,414.19	1 1/2	3,048.13	1 1/2	2,682.06
1 3/4	1 3/4	1 3/4	1 3/4	4,467.44	1 3/4	4,131.44	1 3/4	3,772.65	1 3/4	3,406.56	1 3/4	3,040.50	1 3/4	2,674.44
2	2	2	2	4,460.69	2	4,124.16	2	3,765.00	2	3,398.94	2	3,032.87	2	2,666.81
2 1/4	2 1/4	2 1/4	2 1/4	4,453.93	2 1/4	4,116.87	2 1/4	3,757.37	2 1/4	3,391.31	2 1/4	3,025.25	2 1/4	2,659.19
2 1/2	2 1/2	2 1/2	2 1/2	4,447.18	2 1/2	4,109.59	2 1/2	3,749.75	2 1/2	3,383.68	2 1/2	3,017.62	2 1/2	2,651.56
2 3/4	2 3/4	2 3/4	2 3/4	4,440.43	2 3/4	4,102.30	2 3/4	3,742.12	2 3/4	3,376.06	2 3/4	3,010.00	2 3/4	2,643.93
3	3	3	3	4,433.64	3	4,094.98	3	3,734.49	3	3,368.43	3	3,002.37	3	2,636.31
3 1/4	3 1/4	3 1/4	3 1/4	4,426.85	3 1/4	4,087.66	3 1/4	3,726.87	3 1/4	3,360.81	3 1/4	2,994.74	3 1/4	2,628.68
3 1/2	3 1/2	3 1/2	3 1/2	4,420.06	3 1/2	4,080.34	3 1/2	3,719.24	3 1/2	3,353.18	3 1/2	2,987.12	3 1/2	2,621.05
3 3/4	3 3/4	3 3/4	3 3/4	4,413.27	3 3/4	4,073.02	3 3/4	3,711.61	3 3/4	3,345.55	3 3/4	2,979.49	3 3/4	2,613.43
4	4	4	4	4,406.44	4	4,065.67	4	3,703.99	4	3,337.93	4	2,971.86	4	2,605.80
4 1/4	4 1/4	4 1/4	4 1/4	4,399.62	4 1/4	4,058.31	4 1/4	3,696.36	4 1/4	3,330.30	4 1/4	2,964.24	4 1/4	2,598.18
4 1/2	4 1/2	4 1/2	4 1/2	4,392.79	4 1/2	4,050.96	4 1/2	3,688.74	4 1/2	3,322.67	4 1/2	2,956.61	4 1/2	2,590.55
4 3/4	4 3/4	4 3/4	4 3/4	4,385.96	4 3/4	4,043.61	4 3/4	3,681.11	4 3/4	3,315.05	4 3/4	2,948.98	4 3/4	2,582.92
5	5	5	5	4,379.10	5	4,036.22	5	3,673.48	5	3,307.42	5	2,941.36	5	2,575.30
5 1/4	5 1/4	5 1/4	5 1/4	4,372.24	5 1/4	4,028.83	5 1/4	3,665.86	5 1/4	3,299.79	5 1/4	2,933.73	5 1/4	2,567.67
5 1/2	5 1/2	5 1/2	5 1/2	4,365.37	5 1/2	4,021.44	5 1/2	3,658.23	5 1/2	3,292.17	5 1/2	2,926.11	5 1/2	2,560.04
5 3/4	5 3/4	5 3/4	5 3/4	4,358.51	5 3/4	4,014.06	5 3/4	3,650.60	5 3/4	3,284.54	5 3/4	2,918.48	5 3/4	2,552.42
6	6	6	6	4,351.61	6	4,006.63	6	3,642.98	6	3,276.92	6	2,910.85	6	2,544.79
6 1/4	6 1/4	6 1/4	6 1/4	4,344.70	6 1/4	3,999.20	6 1/4	3,635.35	6 1/4	3,269.29	6 1/4	2,903.23	6 1/4	2,537.16
6 1/2	6 1/2	6 1/2	6 1/2	4,337.80	6 1/2	3,991.78	6 1/2	3,627.73	6 1/2	3,261.66	6 1/2	2,895.60	6 1/2	2,529.54
6 3/4	6 3/4	6 3/4	6 3/4	4,330.90	6 3/4	3,984.35	6 3/4	3,620.10	6 3/4	3,254.04	6 3/4	2,887.97	6 3/4	2,521.91
7	7	7	7	4,323.94	7	3,976.89	7	3,612.47	7	3,246.41	7	2,880.35	7	2,514.29
7 1/4	7 1/4	7 1/4	7 1/4	4,316.98	7 1/4	3,969.43	7 1/4	3,604.85	7 1/4	3,238.78	7 1/4	2,872.72	7 1/4	2,506.66
7 1/2	7 1/2	7 1/2	7 1/2	4,310.02	7 1/2	3,961.97	7 1/2	3,597.22	7 1/2	3,231.16	7 1/2	2,865.10	7 1/2	2,499.03
7 3/4	7 3/4	7 3/4	7 3/4	4,303.06	7 3/4	3,954.50	7 3/4	3,589.59	7 3/4	3,223.53	7 3/4	2,857.47	7 3/4	2,491.41
8	8	8	8	4,296.02	8	3,947.00	8	3,581.97	8	3,215.91	8	2,849.84	8	2,483.78
8 1/4	8 1/4	8 1/4	8 1/4	4,288.98	8 1/4	3,939.50	8 1/4	3,574.34	8 1/4	3,208.28	8 1/4	2,842.22	8 1/4	2,476.15
8 1/2	8 1/2	8 1/2	8 1/2	4,281.94	8 1/2	3,932.00	8 1/2	3,566.72	8 1/2	3,200.65	8 1/2	2,834.59	8 1/2	2,468.53
8 3/4	8 3/4	8 3/4	8 3/4	4,274.90	8 3/4	3,924.50	8 3/4	3,559.09	8 3/4	3,193.03	8 3/4	2,826.96	8 3/4	2,460.90
9	9	9	9	4,267.80	9	3,916.97	9	3,551.46	9	3,185.40	9	2,819.34	9	2,453.28
9 1/4	9 1/4	9 1/4	9 1/4	4,260.70	9 1/4	3,909.43	9 1/4	3,543.84	9 1/4	3,177.77	9 1/4	2,811.71	9 1/4	2,445.65
9 1/2	9 1/2	9 1/2	9 1/2	4,253.61	9 1/2	3,901.89	9 1/2	3,536.21	9 1/2	3,170.15	9 1/2	2,804.09	9 1/2	2,438.02
9 3/4	9 3/4	9 3/4	9 3/4	4,246.51	9 3/4	3,894.35	9 3/4	3,528.58	9 3/4	3,162.52	9 3/4	2,796.46	9 3/4	2,430.40
10	10	10	10	4,239.37	10	3,886.78	10	3,520.96	10	3,154.90	10	2,788.83	10	2,422.77
10 1/4	10 1/4	10 1/4	10 1/4	4,232.24	10 1/4	3,879.20	10 1/4	3,513.33	10 1/4	3,147.27	10 1/4	2,781.21	10 1/4	2,415.14
10 1/2	10 1/2	10 1/2	10 1/2	4,225.10	10 1/2	3,871.63	10 1/2	3,505.70	10 1/2	3,139.64	10 1/2	2,773.58	10 1/2	2,407.52
10 3/4	10 3/4	10 3/4	10 3/4	4,217.97	10 3/4	3,864.05	10 3/4	3,498.08	10 3/4	3,132.02	10 3/4	2,765.95	10 3/4	2,399.89
11	11	11	11	4,210.79	11	3,856.45	11	3,490.45	11	3,124.39	11	2,758.33	11	2,392.27
11 1/4	11 1/4	11 1/4	11 1/4	4,203.62	11 1/4	3,848.84	11 1/4	3,482.83	11 1/4	3,116.76	11 1/4	2,750.70	11 1/4	2,384.64
11 1/2	11 1/2	11 1/2	11 1/2	4,196.45	11 1/2	3,841.23	11 1/2	3,475.20	11 1/2	3,109.14	11 1/2	2,743.07	11 1/2	2,377.01
11 3/4	11 3/4	11 3/4	11 3/4	4,189.27	11 3/4	3,833.63	11 3/4	3,467.67	11 3/4	3,101.51	11 3/4	2,735.45	11 3/4	2,369.39

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY  
 PRECISION MEASUREMENT  
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 Pearland, Texas 77488  
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BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIED WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT (HERMETIC) LOCATED 12 3/8" OFF CENTERLINE AND 51'-10" FORWARD OF AFT BULKHEAD.



# BARGE "KIRBY 28060"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

Gauge Height 16'-07 3/4"

H ft.	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W
0	2,361.76	0	1,995.70	0	1,629.62	0	1,264.20	0	900.23	0	534.53	0	188.09	0						
1/16	2,354.13	1/16	1,988.07	1/16	1,622.00	1/16	1,256.57	1/16	892.66	1/16	526.90	1/16	181.40	1/16						
1/2	2,346.51	1/2	1,980.45	1/2	1,614.37	1/2	1,248.95	1/2	885.09	1/2	519.28	1/2	174.70	1/2						
3/4	2,338.88	3/4	1,972.82	3/4	1,606.74	3/4	1,241.32	3/4	877.52	3/4	511.65	3/4	168.01	3/4						
1	2,331.25	1	1,965.19	1	1,599.12	1	1,233.69	1	869.94	1	504.04	1	161.40	1						
1/16	2,323.63	1/16	1,957.57	1/16	1,591.49	1/16	1,226.06	1/16	862.35	1/16	496.44	1/16	154.79	1/16						
1/2	2,316.00	1/2	1,949.94	1/2	1,583.86	1/2	1,218.44	1/2	854.76	1/2	488.83	1/2	148.19	1/2						
3/4	2,308.38	3/4	1,942.31	3/4	1,576.24	3/4	1,210.81	3/4	847.18	3/4	481.22	3/4	141.58	3/4						
2	2,300.75	2	1,934.69	2	1,568.61	2	1,203.20	2	839.57	2	473.68	2	135.06	2						
1/16	2,293.12	1/16	1,927.06	1/16	1,560.98	1/16	1,195.58	1/16	831.95	1/16	466.14	1/16	128.55	1/16						
1/2	2,285.50	1/2	1,919.43	1/2	1,553.36	1/2	1,187.97	1/2	824.34	1/2	458.60	1/2	122.03	1/2						
3/4	2,277.87	3/4	1,911.81	3/4	1,545.73	3/4	1,180.36	3/4	816.73	3/4	451.05	3/4	115.52	3/4						
3	2,270.24	3	1,904.18	3	1,538.10	3	1,172.77	3	809.10	3	443.60	3	109.10	3						
1/16	2,262.62	1/16	1,896.55	1/16	1,530.48	1/16	1,165.19	1/16	801.48	1/16	436.14	1/16	102.68	1/16						
1/2	2,254.99	1/2	1,888.93	1/2	1,522.85	1/2	1,157.60	1/2	793.85	1/2	428.68	1/2	96.26	1/2						
3/4	2,247.37	3/4	1,881.30	3/4	1,515.22	3/4	1,150.02	3/4	786.22	3/4	421.22	3/4	89.85	3/4						
4	2,239.74	4	1,873.68	4	1,507.60	4	1,142.45	4	778.60	4	413.85	4	83.43	4						
1/16	2,232.11	1/16	1,866.05	1/16	1,499.97	1/16	1,134.88	1/16	770.97	1/16	406.48	1/16	77.22	1/16						
1/2	2,224.49	1/2	1,858.42	1/2	1,492.35	1/2	1,127.30	1/2	763.34	1/2	399.10	1/2	70.90	1/2						
3/4	2,216.86	3/4	1,850.80	3/4	1,484.72	3/4	1,119.73	3/4	755.72	3/4	391.73	3/4	64.59	3/4						
5	2,209.23	5	1,843.17	5	1,477.11	5	1,112.16	5	748.09	5	384.44	5	58.40	5						
1/16	2,201.61	1/16	1,835.54	1/16	1,469.49	1/16	1,104.60	1/16	740.46	1/16	377.15	1/16	52.20	1/16						
1/2	2,193.98	1/2	1,827.92	1/2	1,461.88	1/2	1,097.03	1/2	732.83	1/2	369.87	1/2	46.00	1/2						
3/4	2,186.35	3/4	1,820.29	3/4	1,454.27	3/4	1,089.46	3/4	725.21	3/4	362.68	3/4	39.81	3/4						
6	2,178.73	6	1,812.66	6	1,446.67	6	1,081.89	6	717.58	6	355.38	6	34.31	6						
1/16	2,171.10	1/16	1,805.04	1/16	1,439.07	1/16	1,074.32	1/16	709.96	1/16	348.17	1/16	28.81	1/16						
1/2	2,163.48	1/2	1,797.41	1/2	1,431.47	1/2	1,066.75	1/2	702.33	1/2	340.97	1/2	23.31	1/2						
3/4	2,155.86	3/4	1,789.78	3/4	1,423.87	3/4	1,059.18	3/4	694.70	3/4	333.76	3/4	17.81	3/4						
7	2,148.22	7	1,782.16	7	1,416.27	7	1,051.61	7	687.07	7	326.65	7	14.25	7						
1/16	2,140.60	1/16	1,774.53	1/16	1,408.67	1/16	1,044.04	1/16	679.45	1/16	319.53	1/16	10.70	1/16						
1/2	2,132.97	1/2	1,766.90	1/2	1,401.07	1/2	1,036.48	1/2	671.82	1/2	312.41	1/2	7.14	1/2						
3/4	2,125.34	3/4	1,759.28	3/4	1,393.48	3/4	1,028.91	3/4	664.19	3/4	305.29	3/4	3.58	3/4						
8	2,117.72	8	1,751.65	8	1,385.88	8	1,021.34	8	656.57	8	298.26	8		8						
1/16	2,110.09	1/16	1,744.02	1/16	1,378.28	1/16	1,013.77	1/16	648.94	1/16	291.22	1/16		1/16						
1/2	2,102.47	1/2	1,736.40	1/2	1,370.68	1/2	1,006.20	1/2	641.31	1/2	284.19	1/2		1/2						
3/4	2,094.84	3/4	1,728.77	3/4	1,363.08	3/4	998.63	3/4	633.68	3/4	277.16	3/4		3/4						
9	2,087.21	9	1,721.14	9	1,355.48	9	991.06	9	626.06	9	270.21	9		9						
1/16	2,079.59	1/16	1,713.52	1/16	1,347.88	1/16	983.49	1/16	618.43	1/16	263.26	1/16		1/16						
1/2	2,071.96	1/2	1,705.89	1/2	1,340.28	1/2	975.92	1/2	610.80	1/2	256.31	1/2		1/2						
3/4	2,064.33	3/4	1,698.26	3/4	1,332.68	3/4	968.36	3/4	603.18	3/4	249.36	3/4		3/4						
10	2,056.71	10	1,690.64	10	1,325.08	10	960.79	10	595.55	10	242.50	10		10						
1/16	2,049.08	1/16	1,683.01	1/16	1,317.48	1/16	953.22	1/16	587.92	1/16	235.63	1/16		1/16						
1/2	2,041.46	1/2	1,675.38	1/2	1,309.88	1/2	945.65	1/2	580.29	1/2	228.77	1/2		1/2						
3/4	2,033.83	3/4	1,667.76	3/4	1,302.28	3/4	938.08	3/4	572.67	3/4	221.90	3/4		3/4						
11	2,026.20	11	1,660.13	11	1,294.67	11	930.51	11	565.04	11	215.12	11		11						
1/16	2,018.58	1/16	1,652.50	1/16	1,287.05	1/16	922.94	1/16	557.41	1/16	208.34	1/16		1/16						
1/2	2,010.95	1/2	1,644.88	1/2	1,279.44	1/2	915.37	1/2	549.78	1/2	201.58	1/2		1/2						
3/4	2,003.32	3/4	1,637.25	3/4	1,271.83	3/4	907.80	3/4	542.16	3/4	194.78	3/4		3/4						

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/28/2004 CL - SW  
CALCULATED: 03/29/2004 CL  
PRINTED: 03/29/2004 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2004

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pma-inc.net







# BARGE "KIRBY 28060"

## 1 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-07 1/4"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N
0	0	1,981.60	0	1,615.57	0	1,250.19	0	885.18	0	519.21	0	174.68	0	0	0	0	0	0	0		
1/4	1/4	1,973.97	1/4	1,607.94	1/4	1,242.58	1/4	877.58	1/4	511.58	1/4	167.98	1/4	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	1/2	1,966.35	1/2	1,600.31	1/2	1,234.93	1/2	869.97	1/2	503.97	1/2	161.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	3/4	1,958.72	3/4	1,592.69	3/4	1,227.31	3/4	862.36	3/4	496.37	3/4	154.77	3/4	3/4	3/4	3/4	3/4	3/4	3/4		
1	1	1,951.10	1	1,585.06	1	1,219.68	1	854.74	1	488.76	1	148.16	1	1	1	1	1	1	1		
1 1/4	1 1/4	1,943.47	1 1/4	1,577.44	1 1/4	1,212.05	1 1/4	847.13	1 1/4	481.16	1 1/4	141.58	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4		
1 1/2	1 1/2	1,935.85	1 1/2	1,569.81	1 1/2	1,204.43	1 1/2	839.50	1 1/2	473.62	1 1/2	135.04	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2		
2	2	1,928.22	2	1,562.19	2	1,196.80	2	831.88	2	466.08	2	128.53	2	2	2	2	2	2	2		
2 1/4	2 1/4	1,920.59	2 1/4	1,554.56	2 1/4	1,189.17	2 1/4	824.25	2 1/4	458.53	2 1/4	122.01	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4		
2 1/2	2 1/2	1,912.97	2 1/2	1,546.93	2 1/2	1,181.55	2 1/2	816.63	2 1/2	450.99	2 1/2	115.50	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2		
3	3	1,905.34	3	1,539.31	3	1,173.93	3	809.00	3	443.54	3	109.08	3	3	3	3	3	3	3		
3 1/4	3 1/4	1,897.72	3 1/4	1,531.68	3 1/4	1,166.32	3 1/4	801.37	3 1/4	436.08	3 1/4	102.67	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4		
3 1/2	3 1/2	1,890.09	3 1/2	1,524.06	3 1/2	1,158.71	3 1/2	793.75	3 1/2	428.62	3 1/2	96.25	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2		
4	4	1,882.47	4	1,516.43	4	1,151.09	4	786.12	4	421.17	4	89.83	4	4	4	4	4	4	4		
4 1/4	4 1/4	1,874.84	4 1/4	1,508.81	4 1/4	1,143.49	4 1/4	778.50	4 1/4	413.79	4 1/4	83.52	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4		
4 1/2	4 1/2	1,867.21	4 1/2	1,501.18	4 1/2	1,135.90	4 1/2	770.87	4 1/2	406.42	4 1/2	77.21	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2		
5	5	1,859.59	5	1,493.55	5	1,128.30	5	763.24	5	399.05	5	70.89	5	5	5	5	5	5	5		
5 1/4	5 1/4	1,851.96	5 1/4	1,485.93	5 1/4	1,120.70	5 1/4	755.62	5 1/4	391.68	5 1/4	64.58	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4		
5 1/2	5 1/2	1,844.34	5 1/2	1,478.32	5 1/2	1,113.10	5 1/2	747.99	5 1/2	384.39	5 1/2	58.39	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2		
6	6	1,836.71	6	1,470.71	6	1,105.50	6	740.37	6	377.10	6	52.19	6	6	6	6	6	6	6		
6 1/4	6 1/4	1,829.09	6 1/4	1,463.09	6 1/4	1,097.91	6 1/4	732.74	6 1/4	369.82	6 1/4	46.00	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4		
6 1/2	6 1/2	1,821.46	6 1/2	1,455.48	6 1/2	1,090.31	6 1/2	725.11	6 1/2	362.53	6 1/2	39.80	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2		
7	7	1,813.83	7	1,447.88	7	1,082.71	7	717.49	7	355.33	7	34.30	7	7	7	7	7	7	7		
7 1/4	7 1/4	1,806.21	7 1/4	1,440.29	7 1/4	1,075.12	7 1/4	709.88	7 1/4	348.12	7 1/4	28.80	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4		
7 1/2	7 1/2	1,798.58	7 1/2	1,432.69	7 1/2	1,067.52	7 1/2	702.24	7 1/2	340.92	7 1/2	23.31	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2		
8	8	1,790.96	8	1,425.09	8	1,059.92	8	694.61	8	333.72	8	17.81	8	8	8	8	8	8	8		
8 1/4	8 1/4	1,783.33	8 1/4	1,417.49	8 1/4	1,052.32	8 1/4	686.95	8 1/4	326.60	8 1/4	14.25	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4		
8 1/2	8 1/2	1,775.71	8 1/2	1,409.89	8 1/2	1,044.73	8 1/2	679.38	8 1/2	319.48	8 1/2	10.69	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2		
9	9	1,768.08	9	1,402.30	9	1,037.13	9	671.73	9	312.37	9	7.14	9	9	9	9	9	9	9		
9 1/4	9 1/4	1,760.45	9 1/4	1,394.70	9 1/4	1,029.53	9 1/4	664.11	9 1/4	305.25	9 1/4	3.58	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4		
9 1/2	9 1/2	1,752.83	9 1/2	1,387.10	9 1/2	1,021.94	9 1/2	656.48	9 1/2	298.21	9 1/2	0	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2		
10	10	1,745.20	10	1,379.50	10	1,014.34	10	648.85	10	291.18	10	0	10	10	10	10	10	10	10		
10 1/4	10 1/4	1,737.58	10 1/4	1,371.90	10 1/4	1,006.74	10 1/4	641.23	10 1/4	284.15	10 1/4	0	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4		
10 1/2	10 1/2	1,729.95	10 1/2	1,364.30	10 1/2	999.14	10 1/2	633.60	10 1/2	277.12	10 1/2	0	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2		
11	11	1,722.33	11	1,356.70	11	991.55	11	625.98	11	270.17	11	0	11	11	11	11	11	11	11		
11 1/4	11 1/4	1,714.70	11 1/4	1,349.11	11 1/4	983.95	11 1/4	618.35	11 1/4	263.22	11 1/4	0	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4		
11 1/2	11 1/2	1,707.07	11 1/2	1,341.51	11 1/2	976.35	11 1/2	610.72	11 1/2	256.27	11 1/2	0	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2		
12	12	1,699.45	12	1,333.91	12	968.76	12	603.10	12	249.32	12	0	12	12	12	12	12	12	12		
12 1/4	12 1/4	1,691.82	12 1/4	1,326.31	12 1/4	961.16	12 1/4	595.47	12 1/4	242.46	12 1/4	0	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4		
12 1/2	12 1/2	1,684.20	12 1/2	1,318.71	12 1/2	953.56	12 1/2	587.84	12 1/2	235.60	12 1/2	0	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2		
13	13	1,676.57	13	1,311.11	13	945.97	13	580.22	13	228.73	13	0	13	13	13	13	13	13	13		
13 1/4	13 1/4	1,668.95	13 1/4	1,303.51	13 1/4	938.37	13 1/4	572.59	13 1/4	221.87	13 1/4	0	13 1/4	13 1/4	13 1/4	13 1/4	13 1/4	13 1/4	13 1/4		
13 1/2	13 1/2	1,661.32	13 1/2	1,295.90	13 1/2	930.77	13 1/2	564.96	13 1/2	215.09	13 1/2	0	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2		
14	14	1,653.69	14	1,288.29	14	923.17	14	557.34	14	208.31	14	0	14	14	14	14	14	14	14		
14 1/4	14 1/4	1,646.07	14 1/4	1,280.68	14 1/4	915.58	14 1/4	549.71	14 1/4	201.53	14 1/4	0	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4		
14 1/2	14 1/2	1,638.44	14 1/2	1,273.06	14 1/2	907.98	14 1/2	542.09	14 1/2	194.76	14 1/2	0	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2		
15	15	1,630.82	15	1,265.44	15	900.38	15	534.45	15	188.06	15	0	15	15	15	15	15	15	15		
15 1/4	15 1/4	1,623.19	15 1/4	1,257.81	15 1/4	892.78	15 1/4	526.83	15 1/4	181.37	15 1/4	0	15 1/4	15 1/4	15 1/4	15 1/4	15 1/4	15 1/4	15 1/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03232004 CL - BW  
 CALCULATED: 03232004 CL  
 PRINTED: 03232004 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 032004

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 1992  
 Pearland, Texas 77664  
 Http://www.ipmascorp.net



# BARGE "KIRBY 28060"

## 2 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-07 1/2"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.					
0	0	0	0	4,528.63	0	4,197.95	0	3,843.76	0	3,480.05	0	3,116.34	0	2,752.62
1/4	1/4	1/4	1/4	4,521.99	1/4	4,190.76	1/4	3,836.19	1/4	3,472.48	1/4	3,108.76	1/4	2,745.04
1/2	1/2	1/2	1/2	4,515.35	1/2	4,183.62	1/2	3,828.61	1/2	3,464.90	1/2	3,101.18	1/2	2,737.47
3/4	3/4	3/4	3/4	4,508.67	3/4	4,176.42	3/4	3,821.04	3/4	3,457.32	3/4	3,093.61	3/4	2,729.89
1	1	1	1	4,502.00	1	4,169.22	1	3,813.46	1	3,449.74	1	3,086.03	1	2,722.31
1/4	1/4	1/4	1/4	4,495.33	1/4	4,162.02	1/4	3,805.88	1/4	3,442.17	1/4	3,078.45	1/4	2,714.74
1/2	1/2	1/2	1/2	4,488.65	1/2	4,154.81	1/2	3,798.30	1/2	3,434.59	1/2	3,070.87	1/2	2,707.16
3/4	3/4	3/4	3/4	4,481.94	3/4	4,147.58	3/4	3,790.73	3/4	3,427.01	3/4	3,063.30	3/4	2,699.58
1	1	1	1	4,475.24	1	4,140.34	1	3,783.15	1	3,419.43	1	3,055.72	1	2,692.00
1/4	1/4	1/4	1/4	4,468.53	1/4	4,133.10	1/4	3,775.57	1/4	3,411.86	1/4	3,048.14	1/4	2,684.43
1/2	1/2	1/2	1/2	4,461.82	1/2	4,125.86	1/2	3,767.99	1/2	3,404.28	1/2	3,040.56	1/2	2,676.85
3/4	3/4	3/4	3/4	4,455.07	3/4	4,118.59	3/4	3,760.42	3/4	3,396.70	3/4	3,032.99	3/4	2,669.27
1	1	1	1	4,448.33	1	4,111.31	1	3,752.84	1	3,389.12	1	3,025.41	1	2,661.69
1/4	1/4	1/4	1/4	4,441.58	1/4	4,104.04	1/4	3,745.26	1/4	3,381.55	1/4	3,017.83	1/4	2,654.12
1/2	1/2	1/2	1/2	4,434.84	1/2	4,096.77	1/2	3,737.68	1/2	3,373.97	1/2	3,010.25	1/2	2,646.54
3/4	3/4	3/4	3/4	4,428.05	3/4	4,089.46	3/4	3,730.11	3/4	3,366.39	3/4	3,002.68	3/4	2,638.96
1	1	1	1	4,421.27	1	4,082.15	1	3,722.53	1	3,358.81	1	2,995.10	1	2,631.38
1/4	1/4	1/4	1/4	4,414.49	1/4	4,074.85	1/4	3,714.95	1/4	3,351.24	1/4	2,987.52	1/4	2,623.81
1/2	1/2	1/2	1/2	4,407.70	1/2	4,067.54	1/2	3,707.37	1/2	3,343.66	1/2	2,979.94	1/2	2,616.23
3/4	3/4	3/4	3/4	4,400.88	3/4	4,060.20	3/4	3,699.80	3/4	3,336.06	3/4	2,972.37	3/4	2,608.65
1	1	1	1	4,394.06	1	4,052.86	1	3,692.22	1	3,328.50	1	2,964.79	1	2,601.07
1/4	1/4	1/4	1/4	4,387.24	1/4	4,045.52	1/4	3,684.64	1/4	3,320.93	1/4	2,957.21	1/4	2,593.50
1/2	1/2	1/2	1/2	4,380.43	1/2	4,038.18	1/2	3,677.06	1/2	3,313.35	1/2	2,949.63	1/2	2,585.92
3/4	3/4	3/4	3/4	4,373.57	3/4	4,030.80	3/4	3,669.49	3/4	3,305.77	3/4	2,942.06	3/4	2,578.34
1	1	1	1	4,366.71	1	4,023.42	1	3,661.91	1	3,298.19	1	2,934.48	1	2,570.76
1/4	1/4	1/4	1/4	4,359.85	1/4	4,016.05	1/4	3,654.33	1/4	3,290.62	1/4	2,926.90	1/4	2,563.19
1/2	1/2	1/2	1/2	4,353.00	1/2	4,008.67	1/2	3,646.76	1/2	3,283.04	1/2	2,919.32	1/2	2,555.61
3/4	3/4	3/4	3/4	4,346.08	3/4	4,001.25	3/4	3,639.18	3/4	3,275.46	3/4	2,911.75	3/4	2,548.03
1	1	1	1	4,339.17	1	3,993.84	1	3,631.60	1	3,267.89	1	2,904.17	1	2,540.45
1/4	1/4	1/4	1/4	4,332.25	1/4	3,986.42	1/4	3,624.02	1/4	3,260.31	1/4	2,896.59	1/4	2,532.88
1/2	1/2	1/2	1/2	4,325.34	1/2	3,979.01	1/2	3,616.45	1/2	3,252.73	1/2	2,889.02	1/2	2,525.30
3/4	3/4	3/4	3/4	4,318.34	3/4	3,971.56	3/4	3,608.87	3/4	3,245.15	3/4	2,881.44	3/4	2,517.72
1	1	1	1	4,311.35	1	3,964.11	1	3,601.29	1	3,237.58	1	2,873.86	1	2,510.15
1/4	1/4	1/4	1/4	4,304.35	1/4	3,956.65	1/4	3,593.71	1/4	3,230.00	1/4	2,866.28	1/4	2,502.57
1/2	1/2	1/2	1/2	4,297.36	1/2	3,949.20	1/2	3,586.14	1/2	3,222.42	1/2	2,858.71	1/2	2,494.99
3/4	3/4	3/4	3/4	4,290.30	3/4	3,941.71	3/4	3,578.56	3/4	3,214.84	3/4	2,851.13	3/4	2,487.41
1	1	1	1	4,283.25	1	3,934.22	1	3,570.98	1	3,207.27	1	2,843.55	1	2,479.84
1/4	1/4	1/4	1/4	4,276.20	1/4	3,926.73	1/4	3,563.40	1/4	3,199.69	1/4	2,835.97	1/4	2,472.26
1/2	1/2	1/2	1/2	4,269.15	1/2	3,919.24	1/2	3,555.83	1/2	3,192.11	1/2	2,828.40	1/2	2,464.68
3/4	3/4	3/4	3/4	4,262.06	3/4	3,911.72	3/4	3,548.26	3/4	3,184.53	3/4	2,820.82	3/4	2,457.10
1	1	1	1	4,254.97	1	3,904.19	1	3,540.67	1	3,176.95	1	2,813.24	1	2,449.53
1/4	1/4	1/4	1/4	4,247.88	1/4	3,896.67	1/4	3,533.09	1/4	3,169.36	1/4	2,805.66	1/4	2,441.95
1/2	1/2	1/2	1/2	4,240.79	1/2	3,889.14	1/2	3,525.52	1/2	3,161.80	1/2	2,798.09	1/2	2,434.37
3/4	3/4	3/4	3/4	4,233.68	3/4	3,881.58	3/4	3,517.94	3/4	3,154.22	3/4	2,790.51	3/4	2,426.79
1	1	1	1	4,226.53	1	3,874.02	1	3,510.36	1	3,146.85	1	2,782.93	1	2,419.22
1/4	1/4	1/4	1/4	4,219.40	1/4	3,866.47	1/4	3,502.78	1/4	3,139.07	1/4	2,775.35	1/4	2,411.64
1/2	1/2	1/2	1/2	4,212.28	1/2	3,858.91	1/2	3,495.21	1/2	3,131.49	1/2	2,767.78	1/2	2,404.06
3/4	3/4	3/4	3/4	4,205.11	3/4	3,851.33	3/4	3,487.63	3/4	3,123.91	3/4	2,760.20	3/4	2,396.48

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12.07' OFF CENTERLINE AND 64.50' FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77584  
<http://www.pmaincorp.net>



# BARGE "KIRBY 28060"

## 2 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-07 1/2"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,388.91	2,025.19	1,661.47	1,301.62	950.95	590.93	227.16			
1/4	2,381.33	2,017.61	1,653.89	1,294.04	943.70	583.36	219.59			
1/2	2,373.75	2,010.03	1,646.31	1,286.46	936.45	575.77	212.01			
3/4	2,366.17	2,002.46	1,638.73	1,278.89	929.19	568.19	204.43			
1	2,358.60	1,994.88	1,631.15	1,271.31	921.93	560.61	196.86			
1 1/4	2,351.02	1,987.30	1,623.58	1,263.73	914.66	553.03	189.28			
1 1/2	2,343.44	1,979.72	1,616.00	1,256.16	907.40	545.46	181.70			
3/4	2,335.87	1,972.15	1,608.42	1,248.72	900.12	537.88	174.14			
2	2,328.29	1,964.57	1,600.84	1,241.30	892.84	530.30	166.57			
1 1/4	2,320.71	1,956.99	1,593.27	1,233.87	885.57	522.72	159.00			
1 1/2	2,313.13	1,949.41	1,585.69	1,226.44	878.29	515.14	151.43			
3/4	2,305.56	1,941.84	1,578.11	1,219.18	870.86	507.56	143.87			
3	2,297.98	1,934.26	1,570.53	1,211.91	863.44	499.99	136.32			
1 1/4	2,290.40	1,926.68	1,562.96	1,204.65	856.01	492.41	128.76			
1 1/2	2,282.82	1,919.10	1,555.38	1,197.38	848.58	484.83	121.20			
3/4	2,275.25	1,911.53	1,547.80	1,190.13	841.00	477.25	113.67			
4	2,267.67	1,903.95	1,540.39	1,182.88	833.43	469.67	106.13			
1 1/4	2,260.09	1,896.37	1,532.89	1,175.63	825.85	462.09	98.59			
1 1/2	2,252.51	1,888.79	1,525.39	1,168.38	818.27	454.52	91.06			
3/4	2,244.94	1,881.22	1,517.98	1,161.14	810.69	446.94	83.55			
5	2,237.36	1,873.64	1,510.56	1,153.89	803.11	439.36	76.05			
1 1/4	2,229.78	1,866.06	1,503.15	1,146.64	795.54	431.78	68.54			
1 1/2	2,222.20	1,858.48	1,495.73	1,139.39	787.96	424.20	61.04			
3/4	2,214.63	1,850.91	1,488.31	1,132.15	780.38	416.62	54.14			
6	2,207.05	1,843.33	1,480.90	1,124.90	772.80	409.04	47.25			
1 1/4	2,199.47	1,835.75	1,473.48	1,117.65	765.22	401.47	40.35			
1 1/2	2,191.89	1,828.17	1,466.07	1,110.40	757.65	393.89	33.45			
3/4	2,184.32	1,820.59	1,458.66	1,103.16	750.07	386.31	26.40			
7	2,176.74	1,813.02	1,451.24	1,095.91	742.49	378.73	23.36			
1 1/4	2,169.16	1,805.44	1,443.82	1,088.66	734.91	371.15	16.30			
1 1/2	2,161.58	1,797.86	1,436.41	1,081.41	727.33	363.57	13.25			
3/4	2,154.01	1,790.28	1,428.99	1,074.17	719.76	356.00				
8	2,146.43	1,782.71	1,421.57	1,066.92	712.18	348.42				
1 1/4	2,138.85	1,775.13	1,414.16	1,059.67	704.60	340.84				
1 1/2	2,131.28	1,767.55	1,406.74	1,052.42	697.02	333.26				
3/4	2,123.70	1,759.97	1,399.33	1,045.18	689.44	325.68				
9	2,116.12	1,752.40	1,391.91	1,037.93	681.87	318.10				
1 1/4	2,108.54	1,744.82	1,384.49	1,030.68	674.29	310.53				
1 1/2	2,100.97	1,737.24	1,377.08	1,023.43	666.71	302.95				
3/4	2,093.39	1,729.66	1,369.58	1,016.18	659.13	295.37				
10	2,085.81	1,722.09	1,362.08	1,008.94	651.55	287.79				
1 1/4	2,078.23	1,714.51	1,354.59	1,001.69	643.98	280.21				
1 1/2	2,070.66	1,706.93	1,347.09	994.44	636.40	272.63				
3/4	2,063.08	1,699.35	1,339.51	987.19	628.82	265.06				
11	2,055.50	1,691.78	1,331.93	979.95	621.24	257.48				
1 1/4	2,047.92	1,684.20	1,324.35	972.70	613.66	249.90				
1 1/2	2,040.35	1,676.62	1,316.78	965.45	606.08	242.32				
3/4	2,032.77	1,669.04	1,309.20	958.20	598.50	234.74				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/20/2004 CL - 8W  
CALCULATED: 03/20/2004 CL  
PRINTED: 03/20/2004 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/20/04

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
http://www.pma.com.net





# BARGE "KIRBY 28060"

## 2 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-07 1/2"

IN	0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
	M	1/4	M	1/4	M	1/4	M	1/4	M	1/4	M	1/4	M	1/4	M	1/4	M	1/4	M	1/4	
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
1/2	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
1	1		1		1		1		1		1		1		1		1		1		1
1 1/4	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4
1 1/2	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2
1 3/4	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4
2	2		2		2		2		2		2		2		2		2		2		2
2 1/4	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4		2 1/4		2 1/4		2 1/4		2 1/4		2 1/4		2 1/4
2 1/2	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2		2 1/2
2 3/4	2 3/4		2 3/4		2 3/4		2 3/4		2 3/4		2 3/4		2 3/4		2 3/4		2 3/4		2 3/4		2 3/4
3	3		3		3		3		3		3		3		3		3		3		3
3 1/4	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4
3 1/2	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2
3 3/4	3 3/4		3 3/4		3 3/4		3 3/4		3 3/4		3 3/4		3 3/4		3 3/4		3 3/4		3 3/4		3 3/4
4	4		4		4		4		4		4		4		4		4		4		4
4 1/4	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4		4 1/4		4 1/4		4 1/4		4 1/4		4 1/4		4 1/4
4 1/2	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2
4 3/4	4 3/4		4 3/4		4 3/4		4 3/4		4 3/4		4 3/4		4 3/4		4 3/4		4 3/4		4 3/4		4 3/4
5	5		5		5		5		5		5		5		5		5		5		5
5 1/4	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4		5 1/4		5 1/4		5 1/4		5 1/4		5 1/4		5 1/4
5 1/2	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2		5 1/2		5 1/2		5 1/2		5 1/2		5 1/2		5 1/2
5 3/4	5 3/4		5 3/4		5 3/4		5 3/4		5 3/4		5 3/4		5 3/4		5 3/4		5 3/4		5 3/4		5 3/4
6	6		6		6		6		6		6		6		6		6		6		6
6 1/4	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4		6 1/4		6 1/4		6 1/4		6 1/4		6 1/4		6 1/4
6 1/2	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2		6 1/2		6 1/2		6 1/2		6 1/2		6 1/2		6 1/2
6 3/4	6 3/4		6 3/4		6 3/4		6 3/4		6 3/4		6 3/4		6 3/4		6 3/4		6 3/4		6 3/4		6 3/4
7	7		7		7		7		7		7		7		7		7		7		7
7 1/4	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4		7 1/4		7 1/4		7 1/4		7 1/4		7 1/4		7 1/4
7 1/2	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2		7 1/2		7 1/2		7 1/2		7 1/2		7 1/2		7 1/2
7 3/4	7 3/4		7 3/4		7 3/4		7 3/4		7 3/4		7 3/4		7 3/4		7 3/4		7 3/4		7 3/4		7 3/4
8	8		8		8		8		8		8		8		8		8		8		8
8 1/4	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4
8 1/2	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2
8 3/4	8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4
9	9		9		9		9		9		9		9		9		9		9		9
9 1/4	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4
9 1/2	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2
9 3/4	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4
10	10		10		10		10		10		10		10		10		10		10		10
10 1/4	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4
10 1/2	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2
10 3/4	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4
11	11		11		11		11		11		11		11		11		11		11		11
11 1/4	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4
11 1/2	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2
11 3/4	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4
12	12		12		12		12		12		12		12		12		12		12		12
12 1/4	12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4
12 1/2	12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2
12 3/4	12 3/4		12 3/4		12 3/4		12 3/4		12 3/4		12 3/4		12 3/4		12 3/4		12 3/4		12 3/4		12 3/4
13	13		13		13		13		13		13		13		13		13		13		13

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API RPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 84'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2892  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 28060"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,404.87	0	2,041.11	0	1,677.34	0	1,317.45	0	954.88	0	591.00	0	227.19	0		0		0	
1/4	2,397.29	1/4	2,033.53	1/4	1,669.76	1/4	1,309.87	1/4	947.13	1/4	583.42	1/4	219.61	1/4		1/4		1/4	
1/2	2,389.71	1/2	2,025.95	1/2	1,662.18	1/2	1,302.29	1/2	939.58	1/2	575.84	1/2	212.03	1/2		1/2		1/2	
3/4	2,382.13	3/4	2,018.37	3/4	1,654.60	3/4	1,294.71	3/4	932.01	3/4	568.26	3/4	204.46	3/4		3/4		3/4	
1	2,374.55	1	2,010.79	1	1,647.03	1	1,287.13	1	924.45	1	560.68	1	196.88	1		1		1	
1 1/4	2,366.98	1 1/4	2,003.21	1 1/4	1,639.45	1 1/4	1,279.56	1 1/4	916.88	1 1/4	553.10	1 1/4	189.30	1 1/4		1 1/4		1 1/4	
1 1/2	2,359.40	1 1/2	1,995.64	1 1/2	1,631.87	1 1/2	1,271.98	1 1/2	909.31	1 1/2	545.52	1 1/2	181.73	1 1/2		1 1/2		1 1/2	
3/4	2,351.82	3/4	1,988.06	3/4	1,624.29	3/4	1,264.40	3/4	901.73	3/4	537.94	3/4	174.16	3/4		3/4		3/4	
2	2,344.24	2	1,980.48	2	1,616.71	2	1,256.82	2	894.15	2	530.36	2	166.59	2		2		2	
2 1/4	2,336.66	2 1/4	1,972.90	2 1/4	1,609.13	2 1/4	1,249.24	2 1/4	886.58	2 1/4	522.78	2 1/4	159.02	2 1/4		2 1/4		2 1/4	
2 1/2	2,329.08	2 1/2	1,965.32	2 1/2	1,601.55	2 1/2	1,241.66	2 1/2	879.00	2 1/2	515.20	2 1/2	151.45	2 1/2		2 1/2		2 1/2	
3/4	2,321.51	3/4	1,957.74	3/4	1,593.98	3/4	1,234.09	3/4	871.42	3/4	507.62	3/4	143.89	3/4		3/4		3/4	
3	2,313.93	3	1,950.17	3	1,586.40	3	1,226.53	3	863.84	3	500.05	3	136.33	3		3		3	
3 1/4	2,306.35	3 1/4	1,942.59	3 1/4	1,578.82	3 1/4	1,218.96	3 1/4	856.26	3 1/4	492.47	3 1/4	128.78	3 1/4		3 1/4		3 1/4	
3 1/2	2,298.77	3 1/2	1,935.01	3 1/2	1,571.24	3 1/2	1,211.39	3 1/2	848.68	3 1/2	484.89	3 1/2	121.22	3 1/2		3 1/2		3 1/2	
3/4	2,291.19	3/4	1,927.43	3/4	1,563.66	3/4	1,203.81	3/4	841.10	3/4	477.31	3/4	113.68	3/4		3/4		3/4	
4	2,283.61	4	1,919.85	4	1,556.08	4	1,196.23	4	833.52	4	469.73	4	106.14	4		4		4	
4 1/4	2,276.04	4 1/4	1,912.27	4 1/4	1,548.50	4 1/4	1,188.74	4 1/4	825.95	4 1/4	462.15	4 1/4	98.60	4 1/4		4 1/4		4 1/4	
4 1/2	2,268.46	4 1/2	1,904.69	4 1/2	1,540.92	4 1/2	1,181.19	4 1/2	818.37	4 1/2	454.57	4 1/2	91.07	4 1/2		4 1/2		4 1/2	
3/4	2,260.88	3/4	1,897.12	3/4	1,533.35	3/4	1,173.64	3/4	810.79	3/4	446.99	3/4	83.56	3/4		3/4		3/4	
5	2,253.30	5	1,889.54	5	1,525.77	5	1,166.09	5	803.21	5	439.41	5	76.06	5		5		5	
5 1/4	2,245.72	5 1/4	1,881.96	5 1/4	1,518.19	5 1/4	1,158.54	5 1/4	795.63	5 1/4	431.83	5 1/4	68.55	5 1/4		5 1/4		5 1/4	
5 1/2	2,238.14	5 1/2	1,874.38	5 1/2	1,510.61	5 1/2	1,150.99	5 1/2	788.05	5 1/2	424.25	5 1/2	61.05	5 1/2		5 1/2		5 1/2	
3/4	2,230.57	3/4	1,866.80	3/4	1,503.03	3/4	1,143.44	3/4	780.47	3/4	416.67	3/4	54.15	3/4		3/4		3/4	
6	2,222.99	6	1,859.22	6	1,495.45	6	1,135.89	6	772.89	6	409.09	6	47.25	6		6		6	
6 1/4	2,215.41	6 1/4	1,851.64	6 1/4	1,487.87	6 1/4	1,128.34	6 1/4	765.32	6 1/4	401.51	6 1/4	40.36	6 1/4		6 1/4		6 1/4	
6 1/2	2,207.83	6 1/2	1,844.07	6 1/2	1,480.29	6 1/2	1,120.79	6 1/2	757.74	6 1/2	393.93	6 1/2	33.46	6 1/2		6 1/2		6 1/2	
3/4	2,200.25	3/4	1,836.49	3/4	1,472.71	3/4	1,113.24	3/4	750.16	3/4	386.36	3/4	28.41	3/4		3/4		3/4	
7	2,192.67	7	1,828.91	7	1,465.13	7	1,105.69	7	742.58	7	378.78	7	23.38	7		7		7	
7 1/4	2,185.09	7 1/4	1,821.33	7 1/4	1,457.55	7 1/4	1,098.14	7 1/4	735.00	7 1/4	371.20	7 1/4	18.31	7 1/4		7 1/4		7 1/4	
7 1/2	2,177.52	7 1/2	1,813.75	7 1/2	1,450.00	7 1/2	1,090.59	7 1/2	727.42	7 1/2	363.62	7 1/2	13.26	7 1/2		7 1/2		7 1/2	
3/4	2,169.94	3/4	1,806.17	3/4	1,442.44	3/4	1,083.04	3/4	719.84	3/4	356.04	3/4	8.25	3/4		3/4		3/4	
8	2,162.36	8	1,798.60	8	1,434.87	8	1,075.49	8	712.26	8	348.46	8	3.25	8		8		8	
8 1/4	2,154.78	8 1/4	1,791.02	8 1/4	1,427.30	8 1/4	1,067.94	8 1/4	704.68	8 1/4	340.88	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	2,147.20	8 1/2	1,783.44	8 1/2	1,419.74	8 1/2	1,060.39	8 1/2	697.11	8 1/2	333.30	8 1/2		8 1/2		8 1/2		8 1/2	
3/4	2,139.63	3/4	1,775.86	3/4	1,412.17	3/4	1,052.84	3/4	689.53	3/4	325.72	3/4		3/4		3/4		3/4	
9	2,132.05	9	1,768.28	9	1,404.60	9	1,045.29	9	681.95	9	318.14	9		9		9		9	
9 1/4	2,124.47	9 1/4	1,760.70	9 1/4	1,400.04	9 1/4	1,037.74	9 1/4	674.37	9 1/4	310.56	9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	2,116.89	9 1/2	1,753.12	9 1/2	1,392.48	9 1/2	1,030.19	9 1/2	666.79	9 1/2	302.98	9 1/2		9 1/2		9 1/2		9 1/2	
3/4	2,109.31	3/4	1,745.55	3/4	1,384.91	3/4	1,022.64	3/4	659.21	3/4	295.40	3/4		3/4		3/4		3/4	
10	2,101.74	10	1,737.97	10	1,377.34	10	1,015.09	10	651.63	10	287.82	10		10		10		10	
10 1/4	2,094.16	10 1/4	1,730.39	10 1/4	1,370.00	10 1/4	1,007.54	10 1/4	644.05	10 1/4	280.25	10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	2,086.58	10 1/2	1,722.81	10 1/2	1,362.63	10 1/2	999.99	10 1/2	636.47	10 1/2	272.67	10 1/2		10 1/2		10 1/2		10 1/2	
3/4	2,079.00	3/4	1,715.23	3/4	1,355.06	3/4	992.44	3/4	628.89	3/4	265.09	3/4		3/4		3/4		3/4	
11	2,071.42	11	1,707.65	11	1,347.47	11	984.89	11	621.31	11	257.51	11		11		11		11	
11 1/4	2,063.84	11 1/4	1,700.07	11 1/4	1,340.19	11 1/4	977.34	11 1/4	613.73	11 1/4	249.93	11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	2,056.27	11 1/2	1,692.50	11 1/2	1,332.61	11 1/2	969.79	11 1/2	606.16	11 1/2	242.35	11 1/2		11 1/2		11 1/2		11 1/2	
3/4	2,048.69	3/4	1,684.92	3/4	1,325.03	3/4	962.23	3/4	598.58	3/4	234.77	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STAMPED: 03/27/2004 CL - BW  
CALCULATED: 03/20/2004 CL  
PRINTED: 03/20/2004 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2004

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2093  
Pearland, Texas 77588  
<http://www.pma.com.net>



# BARGE "KIRBY 28060"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
N	1/2	N	1/2	N	1/2	N	1/2	N	1/2	N	1/2	N	1/2	N	1/2	N	1/2	N	1/2	
0	0	0	0	0	0	4,223.20	0	3,982.95	0	3,688.60	0	3,408.48	0	3,049.51	0	2,685.80	0	2,685.80	0	2,685.80
1/4	1/4	1/4	1/4	1/4	1/4	4,217.93	1/4	3,957.35	1/4	3,682.77	1/4	3,402.64	1/4	3,041.93	1/4	2,678.22	1/4	2,678.22	1/4	2,678.22
1/2	1/2	1/2	1/2	1/2	1/2	4,212.63	1/2	3,951.74	1/2	3,676.94	1/2	3,395.92	1/2	3,034.35	1/2	2,670.64	1/2	2,670.64	1/2	2,670.64
3/4	3/4	3/4	3/4	3/4	3/4	4,207.34	3/4	3,946.12	3/4	3,671.11	3/4	3,389.21	3/4	3,026.78	3/4	2,663.07	3/4	2,663.07	3/4	2,663.07
1	1	1	1	1	1	4,202.04	1	3,940.51	1	3,665.27	1	3,382.49	1	3,019.20	1	2,655.49	1	2,655.49	1	2,655.49
1/4	1/4	1/4	1/4	1/4	1/4	4,196.75	1/4	3,934.90	1/4	3,659.44	1/4	3,375.77	1/4	3,011.62	1/4	2,647.91	1/4	2,647.91	1/4	2,647.91
1/2	1/2	1/2	1/2	1/2	1/2	4,191.44	1/2	3,929.26	1/2	3,653.70	1/2	3,368.18	1/2	3,004.04	1/2	2,640.33	1/2	2,640.33	1/2	2,640.33
3/4	3/4	3/4	3/4	3/4	3/4	4,186.13	3/4	3,923.63	3/4	3,647.76	3/4	3,360.58	3/4	2,996.47	3/4	2,632.76	3/4	2,632.76	3/4	2,632.76
1	1	1	1	1	1	4,180.82	1	3,917.99	1	3,641.93	1	3,352.98	1	2,988.89	1	2,625.18	1	2,625.18	1	2,625.18
1/4	1/4	1/4	1/4	1/4	1/4	4,175.50	1/4	3,912.36	1/4	3,636.09	1/4	3,345.38	1/4	2,981.31	1/4	2,617.60	1/4	2,617.60	1/4	2,617.60
1/2	1/2	1/2	1/2	1/2	1/2	4,170.17	1/2	3,906.70	1/2	3,630.26	1/2	3,337.79	1/2	2,973.74	1/2	2,610.03	1/2	2,610.03	1/2	2,610.03
3/4	3/4	3/4	3/4	3/4	3/4	4,164.84	3/4	3,901.05	3/4	3,624.42	3/4	3,330.19	3/4	2,966.16	3/4	2,602.45	3/4	2,602.45	3/4	2,602.45
1	1	1	1	1	1	4,159.51	1	3,895.40	1	3,618.58	1	3,322.59	1	2,958.58	1	2,594.87	1	2,594.87	1	2,594.87
1/4	1/4	1/4	1/4	1/4	1/4	4,154.18	1/4	3,889.74	1/4	3,612.75	1/4	3,314.99	1/4	2,951.00	1/4	2,587.29	1/4	2,587.29	1/4	2,587.29
1/2	1/2	1/2	1/2	1/2	1/2	4,148.83	1/2	3,884.07	1/2	3,606.91	1/2	3,307.40	1/2	2,943.43	1/2	2,579.72	1/2	2,579.72	1/2	2,579.72
3/4	3/4	3/4	3/4	3/4	3/4	4,143.48	3/4	3,878.40	3/4	3,601.07	3/4	3,299.80	3/4	2,935.85	3/4	2,572.14	3/4	2,572.14	3/4	2,572.14
1	1	1	1	1	1	4,138.13	1	3,872.72	1	3,595.24	1	3,292.20	1	2,928.27	1	2,564.56	1	2,564.56	1	2,564.56
1/4	1/4	1/4	1/4	1/4	1/4	4,132.78	1/4	3,867.05	1/4	3,589.40	1/4	3,284.60	1/4	2,920.69	1/4	2,556.98	1/4	2,556.98	1/4	2,556.98
1/2	1/2	1/2	1/2	1/2	1/2	4,127.41	1/2	3,861.36	1/2	3,583.67	1/2	3,277.01	1/2	2,913.12	1/2	2,549.41	1/2	2,549.41	1/2	2,549.41
3/4	3/4	3/4	3/4	3/4	3/4	4,122.04	3/4	3,855.67	3/4	3,577.73	3/4	3,269.41	3/4	2,905.54	3/4	2,541.83	3/4	2,541.83	3/4	2,541.83
1	1	1	1	1	1	4,116.67	1	3,849.98	1	3,571.69	1	3,261.81	1	2,897.96	1	2,534.25	1	2,534.25	1	2,534.25
1/4	1/4	1/4	1/4	1/4	1/4	4,111.30	1/4	3,844.29	1/4	3,565.96	1/4	3,254.22	1/4	2,890.39	1/4	2,526.67	1/4	2,526.67	1/4	2,526.67
1/2	1/2	1/2	1/2	1/2	1/2	4,105.91	1/2	3,838.58	1/2	3,560.22	1/2	3,246.62	1/2	2,882.81	1/2	2,519.10	1/2	2,519.10	1/2	2,519.10
3/4	3/4	3/4	3/4	3/4	3/4	4,100.52	3/4	3,832.87	3/4	3,554.38	3/4	3,239.02	3/4	2,875.23	3/4	2,511.52	3/4	2,511.52	3/4	2,511.52
1	1	1	1	1	1	4,095.13	1	3,827.16	1	3,548.55	1	3,231.42	1	2,867.85	1	2,503.94	1	2,503.94	1	2,503.94
1/4	1/4	1/4	1/4	1/4	1/4	4,089.74	1/4	3,821.45	1/4	3,542.71	1/4	3,223.83	1/4	2,860.08	1/4	2,496.37	1/4	2,496.37	1/4	2,496.37
1/2	1/2	1/2	1/2	1/2	1/2	4,084.33	1/2	3,815.72	1/2	3,536.87	1/2	3,216.24	1/2	2,852.50	1/2	2,488.79	1/2	2,488.79	1/2	2,488.79
3/4	3/4	3/4	3/4	3/4	3/4	4,078.92	3/4	3,810.00	3/4	3,531.04	3/4	3,208.65	3/4	2,844.92	3/4	2,481.21	3/4	2,481.21	3/4	2,481.21
1	1	1	1	1	1	4,073.51	1	3,804.27	1	3,525.20	1	3,201.06	1	2,837.34	1	2,473.63	1	2,473.63	1	2,473.63
1/4	1/4	1/4	1/4	1/4	1/4	4,068.10	1/4	3,798.54	1/4	3,519.37	1/4	3,193.48	1/4	2,829.77	1/4	2,466.06	1/4	2,466.06	1/4	2,466.06
1/2	1/2	1/2	1/2	1/2	1/2	4,062.65	1/2	3,792.79	1/2	3,513.53	1/2	3,185.90	1/2	2,822.19	1/2	2,458.48	1/2	2,458.48	1/2	2,458.48
3/4	3/4	3/4	3/4	3/4	3/4	4,057.20	3/4	3,787.04	3/4	3,507.69	3/4	3,178.32	3/4	2,814.61	3/4	2,450.90	3/4	2,450.90	3/4	2,450.90
1	1	1	1	1	1	4,051.75	1	3,781.29	1	3,501.86	1	3,170.75	1	2,807.03	1	2,443.32	1	2,443.32	1	2,443.32
1/4	1/4	1/4	1/4	1/4	1/4	4,046.30	1/4	3,775.54	1/4	3,496.02	1/4	3,163.17	1/4	2,799.46	1/4	2,435.75	1/4	2,435.75	1/4	2,435.75
1/2	1/2	1/2	1/2	1/2	1/2	4,040.78	1/2	3,769.77	1/2	3,490.18	1/2	3,155.59	1/2	2,791.88	1/2	2,428.17	1/2	2,428.17	1/2	2,428.17
3/4	3/4	3/4	3/4	3/4	3/4	4,035.27	3/4	3,764.00	3/4	3,484.35	3/4	3,148.01	3/4	2,784.30	3/4	2,420.59	3/4	2,420.59	3/4	2,420.59
1	1	1	1	1	1	4,029.75	1	3,758.23	1	3,478.51	1	3,140.44	1	2,776.73	1	2,413.02	1	2,413.02	1	2,413.02
1/4	1/4	1/4	1/4	1/4	1/4	4,024.24	1/4	3,752.47	1/4	3,472.68	1/4	3,132.86	1/4	2,769.15	1/4	2,405.44	1/4	2,405.44	1/4	2,405.44
1/2	1/2	1/2	1/2	1/2	1/2	4,018.69	1/2	3,746.68	1/2	3,466.84	1/2	3,125.28	1/2	2,761.57	1/2	2,397.86	1/2	2,397.86	1/2	2,397.86
3/4	3/4	3/4	3/4	3/4	3/4	4,013.14	3/4	3,740.89	3/4	3,461.00	3/4	3,117.70	3/4	2,753.99	3/4	2,390.28	3/4	2,390.28	3/4	2,390.28
1	1	1	1	1	1	4,007.58	1	3,735.10	1	3,455.17	1	3,110.13	1	2,746.42	1	2,382.71	1	2,382.71	1	2,382.71
1/4	1/4	1/4	1/4	1/4	1/4	4,002.03	1/4	3,729.31	1/4	3,449.33	1/4	3,102.56	1/4	2,738.84	1/4	2,375.13	1/4	2,375.13	1/4	2,375.13
1/2	1/2	1/2	1/2	1/2	1/2	3,996.45	1/2	3,723.50	1/2	3,443.49	1/2	3,094.97	1/2	2,731.26	1/2	2,367.55	1/2	2,367.55	1/2	2,367.55
3/4	3/4	3/4	3/4	3/4	3/4	3,990.88	3/4	3,717.69	3/4	3,437.66	3/4	3,087.40	3/4	2,723.68	3/4	2,359.97	3/4	2,359.97	3/4	2,359.97
1	1	1	1	1	1	3,985.30	1	3,711.88	1	3,431.82	1	3,079.82	1	2,716.11	1	2,352.40	1	2,352.40	1	2,352.40
1/4	1/4	1/4	1/4	1/4	1/4	3,979.73	1/4	3,706.08	1/4	3,425.99	1/4	3,072.24	1/4	2,708.53	1/4	2,344.82	1/4	2,344.82	1/4	2,344.82
1/2	1/2	1/2	1/2	1/2	1/2	3,974.13	1/2	3,700.25	1/2	3,420.15	1/2	3,064.66	1/2	2,700.95	1/2	2,337.24	1/2	2,337.24	1/2	2,337.24
3/4	3/4	3/4	3/4	3/4	3/4	3,968.54	3/4	3,694.42	3/4	3,414.31	3/4	3,057.09	3/4	2,693.38	3/4	2,329.67	3/4	2,329.67	3/4	2,329.67

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS  
 CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.  
 BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIED WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HEURMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HEURMETIC) LOCATED 12-00" OFF CENTERLINE AND 61-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2692  
 Pearland, Texas 77588  
<http://www.pmscorp.net>

# BARGE "KIRBY 28060"

## 3 PORT ULLAGE TABLE



CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N
0	0	1,958.38	0	1,594.89	0	1,235.51	0	880.51	0	524.20	0	159.48	0	0	0	0	0	0	0
1/4	1/4	1,950.80	1/4	1,587.13	1/4	1,227.95	1/4	873.15	1/4	516.60	1/4	151.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,943.22	1/2	1,579.57	1/2	1,220.39	1/2	865.79	1/2	509.00	1/2	144.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,935.64	3/4	1,572.02	3/4	1,212.83	3/4	858.43	3/4	501.40	3/4	137.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1,928.07	1	1,564.46	1	1,205.26	1	851.07	1	493.80	1	130.03	1	1	1	1	1	1	1
1/4	1/4	1,920.49	1/4	1,556.91	1/4	1,197.70	1/4	843.71	1/4	486.20	1/4	122.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,912.91	1/2	1,549.36	1/2	1,190.14	1/2	836.33	1/2	478.61	1/2	115.42	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,905.33	3/4	1,541.80	3/4	1,182.58	3/4	828.98	3/4	471.01	3/4	110.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	1,897.76	2	1,534.25	2	1,175.01	2	821.58	2	463.41	2	103.76	2	2	2	2	2	2	2
1/4	1/4	1,890.18	1/4	1,526.69	1/4	1,167.45	1/4	814.21	1/4	455.81	1/4	97.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,882.60	1/2	1,519.14	1/2	1,160.00	1/2	806.82	1/2	448.21	1/2	92.37	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,875.02	3/4	1,511.59	3/4	1,152.54	3/4	799.43	3/4	440.62	3/4	87.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	1,867.45	3	1,504.03	3	1,145.08	3	792.05	3	433.02	3	82.25	3	3	3	3	3	3	3
1/4	1/4	1,859.87	1/4	1,496.48	1/4	1,137.52	1/4	784.66	1/4	425.42	1/4	77.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,852.29	1/2	1,488.92	1/2	1,130.28	1/2	777.27	1/2	417.82	1/2	73.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,844.71	3/4	1,481.37	3/4	1,122.93	3/4	769.88	3/4	410.22	3/4	69.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	1,837.14	4	1,473.82	4	1,115.58	4	762.50	4	402.62	4	65.85	4	4	4	4	4	4	4
1/4	1/4	1,829.56	1/4	1,466.26	1/4	1,108.23	1/4	755.11	1/4	395.03	1/4	62.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,821.98	1/2	1,458.79	1/2	1,100.89	1/2	747.72	1/2	387.43	1/2	59.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,814.40	3/4	1,451.32	3/4	1,093.55	3/4	740.33	3/4	379.83	3/4	57.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	1,806.83	5	1,443.84	5	1,086.21	5	732.95	5	372.23	5	54.58	5	5	5	5	5	5	5
1/4	1/4	1,799.25	1/4	1,436.37	1/4	1,078.86	1/4	725.56	1/4	364.63	1/4	52.08	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,791.67	1/2	1,428.97	1/2	1,071.52	1/2	718.17	1/2	357.03	1/2	50.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,784.09	3/4	1,421.58	3/4	1,064.18	3/4	710.78	3/4	349.44	3/4	49.68	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	1,776.52	6	1,414.16	6	1,056.84	6	703.40	6	341.84	6	48.48	6	6	6	6	6	6	6
1/4	1/4	1,768.94	1/4	1,406.75	1/4	1,049.50	1/4	696.01	1/4	334.24	1/4	47.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,761.36	1/2	1,399.34	1/2	1,042.16	1/2	688.62	1/2	326.64	1/2	46.08	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,753.78	3/4	1,391.92	3/4	1,034.82	3/4	681.23	3/4	319.04	3/4	45.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	1,746.21	7	1,384.51	7	1,027.48	7	673.85	7	311.44	7	44.29	7	7	7	7	7	7	7
1/4	1/4	1,738.63	1/4	1,377.09	1/4	1,020.14	1/4	666.46	1/4	303.85	1/4	43.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,731.05	1/2	1,369.67	1/2	1,012.80	1/2	659.07	1/2	296.25	1/2	42.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,723.47	3/4	1,362.26	3/4	1,005.46	3/4	651.68	3/4	288.65	3/4	42.21	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	1,715.90	8	1,354.84	8	998.12	8	644.30	8	281.05	8	41.70	8	8	8	8	8	8	8
1/4	1/4	1,708.32	1/4	1,347.42	1/4	990.78	1/4	636.91	1/4	273.45	1/4	41.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,700.74	1/2	1,340.01	1/2	983.44	1/2	629.52	1/2	265.85	1/2	40.97	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,693.16	3/4	1,332.59	3/4	976.10	3/4	622.13	3/4	258.26	3/4	40.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	1,685.59	9	1,325.17	9	968.76	9	614.75	9	250.66	9	40.63	9	9	9	9	9	9	9
1/4	1/4	1,678.01	1/4	1,317.76	1/4	961.42	1/4	607.36	1/4	243.06	1/4	40.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,670.43	1/2	1,310.35	1/2	954.07	1/2	599.86	1/2	235.46	1/2	40.69	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,662.85	3/4	1,302.94	3/4	946.72	3/4	592.37	3/4	227.86	3/4	40.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	1,655.28	10	1,295.53	10	939.37	10	584.88	10	220.26	10	41.15	10	10	10	10	10	10	10
1/4	1/4	1,647.70	1/4	1,288.12	1/4	932.02	1/4	577.38	1/4	212.67	1/4	41.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,640.12	1/2	1,280.64	1/2	924.66	1/2	569.79	1/2	205.07	1/2	42.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,632.54	3/4	1,273.16	3/4	917.30	3/4	562.19	3/4	197.47	3/4	42.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	1,988.69	11	1,624.97	11	909.94	11	554.59	11	189.87	11	43.27	11	11	11	11	11	11	11
1/4	1/4	1,981.11	1/4	1,617.39	1/4	902.58	1/4	546.99	1/4	182.27	1/4	44.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1,973.53	1/2	1,609.82	1/2	895.23	1/2	539.39	1/2	174.67	1/2	44.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	1,965.95	3/4	1,602.26	3/4	887.87	3/4	531.79	3/4	167.08	3/4	45.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 63222804 CL - BW  
CALCULATED: 03262804 CL  
PRINTED: 03262804 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2004

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2992  
Pearland, Texas 77668  
<http://www.pma.com>



# BARGE "KIRBY 28060"

## 3 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-06 1/4"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	0	0	4,246.09	8,385.83	12,525.57	16,665.30	20,805.04	24,944.78
1/4	1/4	1/4	1/4	4,494.66	8,980.24	13,165.72	17,351.09	21,536.50	25,731.22
1/2	1/2	1/2	1/2	4,489.93	8,974.62	13,158.83	17,345.90	21,531.61	25,726.73
3/4	3/4	3/4	3/4	4,485.20	8,969.01	13,153.94	17,340.99	21,527.12	25,722.24
1	1	1	1	4,480.46	8,963.40	13,149.05	17,336.08	21,522.63	25,717.75
1 1/4	1 1/4	1 1/4	1 1/4	4,475.73	8,957.78	13,144.16	17,331.17	21,518.14	25,713.26
1 1/2	1 1/2	1 1/2	1 1/2	4,471.00	8,952.17	13,139.27	17,326.26	21,513.65	25,708.77
1 3/4	1 3/4	1 3/4	1 3/4	4,466.27	8,946.55	13,134.38	17,321.35	21,509.16	25,704.28
2	2	2	2	4,461.54	8,940.94	13,129.49	17,316.44	21,504.67	25,699.79
2 1/4	2 1/4	2 1/4	2 1/4	4,456.81	8,935.32	13,124.60	17,311.53	21,500.18	25,695.30
2 1/2	2 1/2	2 1/2	2 1/2	4,452.08	8,929.71	13,119.71	17,306.62	21,495.69	25,690.81
2 3/4	2 3/4	2 3/4	2 3/4	4,447.35	8,924.10	13,114.82	17,301.71	21,491.20	25,686.32
3	3	3	3	4,442.62	8,918.49	13,110.00	17,296.80	21,486.71	25,681.83
3 1/4	3 1/4	3 1/4	3 1/4	4,437.89	8,912.88	13,105.19	17,291.89	21,482.22	25,677.34
3 1/2	3 1/2	3 1/2	3 1/2	4,433.16	8,907.27	13,100.38	17,286.98	21,477.73	25,672.85
3 3/4	3 3/4	3 3/4	3 3/4	4,428.43	8,901.66	13,095.57	17,282.07	21,473.24	25,668.36
4	4	4	4	4,423.70	8,896.05	13,090.76	17,277.16	21,468.75	25,663.87
4 1/4	4 1/4	4 1/4	4 1/4	4,418.97	8,890.44	13,085.95	17,272.25	21,464.26	25,659.38
4 1/2	4 1/2	4 1/2	4 1/2	4,414.24	8,884.83	13,081.14	17,267.34	21,459.77	25,654.89
4 3/4	4 3/4	4 3/4	4 3/4	4,409.51	8,879.22	13,076.33	17,262.43	21,455.28	25,650.40
5	5	5	5	4,404.78	8,873.61	13,071.52	17,257.52	21,450.79	25,645.91
5 1/4	5 1/4	5 1/4	5 1/4	4,400.05	8,867.99	13,066.71	17,252.61	21,446.30	25,641.42
5 1/2	5 1/2	5 1/2	5 1/2	4,395.32	8,862.38	13,061.90	17,247.70	21,441.81	25,636.93
5 3/4	5 3/4	5 3/4	5 3/4	4,390.59	8,856.77	13,057.09	17,242.79	21,437.32	25,632.44
6	6	6	6	4,385.86	8,851.16	13,052.28	17,237.88	21,432.83	25,627.95
6 1/4	6 1/4	6 1/4	6 1/4	4,381.13	8,845.55	13,047.47	17,232.97	21,428.34	25,623.46
6 1/2	6 1/2	6 1/2	6 1/2	4,376.40	8,839.94	13,042.66	17,228.06	21,423.85	25,618.97
6 3/4	6 3/4	6 3/4	6 3/4	4,371.67	8,834.33	13,037.85	17,223.15	21,419.36	25,614.48
7	7	7	7	4,366.94	8,828.72	13,033.04	17,218.24	21,414.87	25,609.99
7 1/4	7 1/4	7 1/4	7 1/4	4,362.21	8,823.11	13,028.23	17,213.33	21,410.38	25,605.50
7 1/2	7 1/2	7 1/2	7 1/2	4,357.48	8,817.50	13,023.42	17,208.42	21,405.89	25,601.01
7 3/4	7 3/4	7 3/4	7 3/4	4,352.75	8,811.89	13,018.61	17,203.51	21,401.40	25,596.52
8	8	8	8	4,348.02	8,806.28	13,013.80	17,198.60	21,396.91	25,592.03
8 1/4	8 1/4	8 1/4	8 1/4	4,343.29	8,800.67	13,008.99	17,193.69	21,392.42	25,587.54
8 1/2	8 1/2	8 1/2	8 1/2	4,338.56	8,795.06	13,004.18	17,188.78	21,387.93	25,583.05
8 3/4	8 3/4	8 3/4	8 3/4	4,333.83	8,789.45	13,000.00	17,183.87	21,383.44	25,578.56
9	9	9	9	4,329.10	8,783.84	12,995.19	17,178.96	21,378.95	25,574.07
9 1/4	9 1/4	9 1/4	9 1/4	4,324.37	8,778.23	12,990.38	17,174.05	21,374.46	25,569.58
9 1/2	9 1/2	9 1/2	9 1/2	4,319.64	8,772.62	12,985.57	17,169.14	21,369.97	25,565.09
9 3/4	9 3/4	9 3/4	9 3/4	4,314.91	8,767.01	12,980.76	17,164.23	21,365.48	25,560.60
10	10	10	10	4,310.18	8,761.40	12,975.95	17,159.32	21,360.99	25,556.11
10 1/4	10 1/4	10 1/4	10 1/4	4,305.45	8,755.79	12,971.14	17,154.41	21,356.50	25,551.62
10 1/2	10 1/2	10 1/2	10 1/2	4,300.72	8,750.18	12,966.33	17,149.50	21,352.01	25,547.13
10 3/4	10 3/4	10 3/4	10 3/4	4,295.99	8,744.57	12,961.52	17,144.59	21,347.52	25,542.64
11	11	11	11	4,291.26	8,738.96	12,956.71	17,139.68	21,343.03	25,538.15
11 1/4	11 1/4	11 1/4	11 1/4	4,286.53	8,733.35	12,951.90	17,134.77	21,338.54	25,533.66
11 1/2	11 1/2	11 1/2	11 1/2	4,281.80	8,727.74	12,947.09	17,129.86	21,334.05	25,529.17
11 3/4	11 3/4	11 3/4	11 3/4	4,277.07	8,722.13	12,942.28	17,124.95	21,329.56	25,524.68
12	12	12	12	4,272.34	8,716.52	12,937.47	17,120.04	21,325.07	25,520.19
12 1/4	12 1/4	12 1/4	12 1/4	4,267.61	8,710.91	12,932.66	17,115.13	21,320.58	25,515.70
12 1/2	12 1/2	12 1/2	12 1/2	4,262.88	8,705.30	12,927.85	17,110.22	21,316.09	25,511.21
12 3/4	12 3/4	12 3/4	12 3/4	4,258.15	8,699.69	12,923.04	17,105.31	21,311.60	25,506.72
13	13	13	13	4,253.42	8,694.08	12,918.23	17,100.40	21,307.11	25,502.23

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12-99" OFF CENTERLINE AND 84-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2022

Pearland, Texas 77688

http://www.pmainc.com



# BARGE "KIRBY 28060"

## 3 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-08 1/4"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	0	1,977.96	0	1,252.48	0	888.71	0	159.48	0	0
1/4	1/4	1,970.36	1/4	1,244.88	1/4	881.14	1/4	151.88	1/4	1/4
1/2	1/2	1,962.76	1/2	1,237.28	1/2	873.57	1/2	144.60	1/2	1/2
3/4	3/4	1,955.17	3/4	1,229.68	3/4	866.00	3/4	137.32	3/4	3/4
1	1	1,947.57	1	1,222.09	1	858.43	1	130.03	1	1
1 1/4	1 1/4	1,939.97	1 1/4	1,214.49	1 1/4	850.86	1 1/4	122.75	1 1/4	1 1/4
1 1/2	1 1/2	1,932.37	1 1/2	1,206.89	1 1/2	843.28	1 1/2	116.42	1 1/2	1 1/2
1 3/4	1 3/4	1,924.77	1 3/4	1,199.29	1 3/4	835.69	1 3/4	110.09	1 3/4	1 3/4
2	2	1,917.18	2	1,191.69	2	828.10	2	103.76	2	2
2 1/4	2 1/4	1,909.58	2 1/4	1,184.09	2 1/4	820.52	2 1/4	97.43	2 1/4	2 1/4
2 1/2	2 1/2	1,901.98	2 1/2	1,176.50	2 1/2	812.92	2 1/2	92.37	2 1/2	2 1/2
2 3/4	2 3/4	1,894.38	2 3/4	1,168.90	2 3/4	805.32	2 3/4	87.31	2 3/4	2 3/4
3	3	1,886.79	3	1,161.30	3	797.73	3	82.25	3	3
3 1/4	3 1/4	1,879.19	3 1/4	1,153.70	3 1/4	790.13	3 1/4	77.19	3 1/4	3 1/4
3 1/2	3 1/2	1,871.59	3 1/2	1,146.12	3 1/2	782.53	3 1/2	73.41	3 1/2	3 1/2
3 3/4	3 3/4	1,863.99	3 3/4	1,138.53	3 3/4	774.93	3 3/4	69.63	3 3/4	3 3/4
4	4	1,856.40	4	1,130.94	4	767.33	4	65.85	4	4
4 1/4	4 1/4	1,848.80	4 1/4	1,123.36	4 1/4	759.74	4 1/4	62.07	4 1/4	4 1/4
4 1/2	4 1/2	1,841.20	4 1/2	1,115.79	4 1/2	752.14	4 1/2	59.57	4 1/2	4 1/2
4 3/4	4 3/4	1,833.60	4 3/4	1,108.22	4 3/4	744.54	4 3/4	57.07	4 3/4	4 3/4
5	5	1,826.01	5	1,100.65	5	736.94	5	54.58	5	5
5 1/4	5 1/4	1,818.41	5 1/4	1,093.08	5 1/4	729.34	5 1/4	52.08	5 1/4	5 1/4
5 1/2	5 1/2	1,810.81	5 1/2	1,085.51	5 1/2	721.75	5 1/2	50.88	5 1/2	5 1/2
5 3/4	5 3/4	1,803.21	5 3/4	1,077.94	5 3/4	714.15	5 3/4	49.68	5 3/4	5 3/4
6	6	1,795.62	6	1,070.37	6	706.55	6	48.48	6	6
6 1/4	6 1/4	1,788.02	6 1/4	1,062.80	6 1/4	698.95	6 1/4	47.29	6 1/4	6 1/4
6 1/2	6 1/2	1,780.42	6 1/2	1,055.23	6 1/2	691.36	6 1/2	46.64	6 1/2	6 1/2
6 3/4	6 3/4	1,772.82	6 3/4	1,047.66	6 3/4	683.76	6 3/4	46.04	6 3/4	6 3/4
7	7	1,765.23	7	1,040.09	7	676.16	7	45.44	7	7
7 1/4	7 1/4	1,757.63	7 1/4	1,032.52	7 1/4	668.56	7 1/4	44.85	7 1/4	7 1/4
7 1/2	7 1/2	1,750.03	7 1/2	1,024.96	7 1/2	660.96	7 1/2	44.25	7 1/2	7 1/2
7 3/4	7 3/4	1,742.43	7 3/4	1,017.39	7 3/4	653.37	7 3/4	43.65	7 3/4	7 3/4
8	8	1,734.84	8	1,009.82	8	645.77	8	43.05	8	8
8 1/4	8 1/4	1,727.24	8 1/4	1,002.25	8 1/4	638.17	8 1/4	42.45	8 1/4	8 1/4
8 1/2	8 1/2	1,719.64	8 1/2	994.68	8 1/2	630.57	8 1/2	41.85	8 1/2	8 1/2
8 3/4	8 3/4	1,712.04	8 3/4	987.11	8 3/4	622.97	8 3/4	41.25	8 3/4	8 3/4
9	9	1,704.45	9	979.54	9	615.38	9	40.65	9	9
9 1/4	9 1/4	1,696.85	9 1/4	971.97	9 1/4	607.78	9 1/4	40.06	9 1/4	9 1/4
9 1/2	9 1/2	1,689.25	9 1/2	964.40	9 1/2	600.18	9 1/2	39.46	9 1/2	9 1/2
9 3/4	9 3/4	1,681.65	9 3/4	956.83	9 3/4	592.58	9 3/4	38.86	9 3/4	9 3/4
10	10	1,674.06	10	949.27	10	584.98	10	38.26	10	10
10 1/4	10 1/4	1,666.46	10 1/4	941.70	10 1/4	577.38	10 1/4	37.66	10 1/4	10 1/4
10 1/2	10 1/2	1,658.86	10 1/2	934.13	10 1/2	569.79	10 1/2	37.07	10 1/2	10 1/2
10 3/4	10 3/4	1,651.26	10 3/4	926.56	10 3/4	562.19	10 3/4	36.47	10 3/4	10 3/4
11	11	1,643.67	11	918.99	11	554.59	11	35.87	11	11
11 1/4	11 1/4	1,636.07	11 1/4	911.42	11 1/4	546.99	11 1/4	35.27	11 1/4	11 1/4
11 1/2	11 1/2	1,628.47	11 1/2	903.85	11 1/2	539.39	11 1/2	34.67	11 1/2	11 1/2
11 3/4	11 3/4	1,620.87	11 3/4	896.28	11 3/4	531.79	11 3/4	34.08	11 3/4	11 3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/20/2004 CL - BW  
CALCULATED: 03/20/2004 CL  
PRINTED: 03/20/2004 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/20/04

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