



BARGE "KIRBY 28033"

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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

LENGTH BETWEEN DRAFT MARKS: 238'-00"

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

August 17, 2004

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

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28033"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	4,357.79		4,352.60		4,347.42		4,340.51		4,333.60		4,326.69		4,319.78		4,312.87		4,305.96		4,299.05
1/4	4,058.31	1/4	4,052.29	1/2	4,046.27	3/4	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
1/2	3,762.09	1/2	3,755.75	1/2	3,749.41	3/4	3,743.05	1	3,736.69	1/4	3,730.33	1/2	3,723.97	3/4	3,717.59	2	3,711.20	1/4	3,704.82
3/4	3,451.19	3/4	3,444.57	1/2	3,437.95	1/2	3,431.31	1	3,424.68	1/4	3,418.04	1/2	3,411.40	3/4	3,404.73	2	3,398.06	1/4	3,391.39
0	3,126.76	0	3,119.86	0	3,112.96	0	3,106.05	0	3,099.14	0	3,092.23	0	3,085.33	0	3,078.42	0	3,071.51	0	3,064.60
1/4	2,795.18	1/4	2,788.27	1/2	2,781.36	3/4	2,774.45	1	2,767.54	1/4	2,760.64	1/2	2,753.73	3/4	2,746.82	2	2,739.91	1/4	2,733.00
1/2	2,463.58	1/2	2,456.67	1/2	2,449.76	3/4	2,442.85	1	2,435.94	1/4	2,429.03	1/2	2,422.12	3/4	2,415.22	2	2,408.31	1/4	2,401.40
3/4	4,357.79	3/4	4,352.60	1/2	4,347.42	1/2	4,340.51	1	4,333.60	1/4	4,326.69	1/2	4,319.78	3/4	4,312.87	2	4,305.96	1/4	4,299.05
1	4,058.31	1	4,052.29	1/2	4,046.27	1/2	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
1/4	3,762.09	1/4	3,755.75	1/2	3,749.41	3/4	3,743.05	1	3,736.69	1/4	3,730.33	1/2	3,723.97	3/4	3,717.59	2	3,711.20	1/4	3,704.82
1/2	3,451.19	1/2	3,444.57	1/2	3,437.95	1/2	3,431.31	1	3,424.68	1/4	3,418.04	1/2	3,411.40	3/4	3,404.73	2	3,398.06	1/4	3,391.39
3/4	3,126.76	3/4	3,119.86	1/2	3,112.96	1/2	3,106.05	1	3,099.14	1/4	3,092.23	1/2	3,085.33	3/4	3,078.42	2	3,071.51	1/4	3,064.60
0	2,795.18	0	2,788.27	0	2,781.36	0	2,774.45	0	2,767.54	0	2,760.64	0	2,753.73	0	2,746.82	0	2,739.91	0	2,733.00
1/4	2,463.58	1/4	2,456.67	1/2	2,449.76	3/4	2,442.85	1	2,435.94	1/4	2,429.03	1/2	2,422.12	3/4	2,415.22	2	2,408.31	1/4	2,401.40
1/2	4,357.79	1/2	4,352.60	1/2	4,347.42	3/4	4,340.51	1	4,333.60	1/4	4,326.69	1/2	4,319.78	3/4	4,312.87	2	4,305.96	1/4	4,299.05
3/4	4,058.31	3/4	4,052.29	1/2	4,046.27	1/2	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
1	3,762.09	1	3,755.75	1/2	3,749.41	1/2	3,743.05	1	3,736.69	1/4	3,730.33	1/2	3,723.97	3/4	3,717.59	2	3,711.20	1/4	3,704.82
1/4	3,451.19	1/4	3,444.57	1/2	3,437.95	1/2	3,431.31	1	3,424.68	1/4	3,418.04	1/2	3,411.40	3/4	3,404.73	2	3,398.06	1/4	3,391.39
1/2	3,126.76	1/2	3,119.86	1/2	3,112.96	1/2	3,106.05	1	3,099.14	1/4	3,092.23	1/2	3,085.33	3/4	3,078.42	2	3,071.51	1/4	3,064.60
3/4	2,795.18	3/4	2,788.27	1/2	2,781.36	1/2	2,774.45	1	2,767.54	1/4	2,760.64	1/2	2,753.73	3/4	2,746.82	2	2,739.91	1/4	2,733.00
0	2,463.58	0	2,456.67	0	2,449.76	0	2,442.85	0	2,435.94	0	2,429.03	0	2,422.12	0	2,415.22	0	2,408.31	0	2,401.40
1/4	4,357.79	1/4	4,352.60	1/2	4,347.42	1/2	4,340.51	1	4,333.60	1/4	4,326.69	1/2	4,319.78	3/4	4,312.87	2	4,305.96	1/4	4,299.05
1/2	4,058.31	1/2	4,052.29	1/2	4,046.27	1/2	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
3/4	3,762.09	3/4	3,755.75	1/2	3,749.41	1/2	3,743.05	1	3,736.69	1/4	3,730.33	1/2	3,723.97	3/4	3,717.59	2	3,711.20	1/4	3,704.82
1	3,451.19	1	3,444.57	1/2	3,437.95	1/2	3,431.31	1	3,424.68	1/4	3,418.04	1/2	3,411.40	3/4	3,404.73	2	3,398.06	1/4	3,391.39
1/4	3,126.76	1/4	3,119.86	1/2	3,112.96	1/2	3,106.05	1	3,099.14	1/4	3,092.23	1/2	3,085.33	3/4	3,078.42	2	3,071.51	1/4	3,064.60
1/2	2,795.18	1/2	2,788.27	1/2	2,781.36	1/2	2,774.45	1	2,767.54	1/4	2,760.64	1/2	2,753.73	3/4	2,746.82	2	2,739.91	1/4	2,733.00
3/4	2,463.58	3/4	2,456.67	1/2	2,449.76	1/2	2,442.85	1	2,435.94	1/4	2,429.03	1/2	2,422.12	3/4	2,415.22	2	2,408.31	1/4	2,401.40
0	4,357.79	0	4,352.60	0	4,347.42	0	4,340.51	0	4,333.60	0	4,326.69	0	4,319.78	0	4,312.87	0	4,305.96	0	4,299.05
1/4	4,058.31	1/4	4,052.29	1/2	4,046.27	1/2	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
1/2	3,762.09	1/2	3,755.75	1/2	3,749.41	1/2	3,743.05	1	3,736.69	1/4	3,730.33	1/2	3,723.97	3/4	3,717.59	2	3,711.20	1/4	3,704.82
3/4	3,451.19	3/4	3,444.57	1/2	3,437.95	1/2	3,431.31	1	3,424.68	1/4	3,418.04	1/2	3,411.40	3/4	3,404.73	2	3,398.06	1/4	3,391.39
1	3,126.76	1	3,119.86	1/2	3,112.96	1/2	3,106.05	1	3,099.14	1/4	3,092.23	1/2	3,085.33	3/4	3,078.42	2	3,071.51	1/4	3,064.60
1/4	2,795.18	1/4	2,788.27	1/2	2,781.36	1/2	2,774.45	1	2,767.54	1/4	2,760.64	1/2	2,753.73	3/4	2,746.82	2	2,739.91	1/4	2,733.00
1/2	2,463.58	1/2	2,456.67	1/2	2,449.76	1/2	2,442.85	1	2,435.94	1/4	2,429.03	1/2	2,422.12	3/4	2,415.22	2	2,408.31	1/4	2,401.40
3/4	4,357.79	3/4	4,352.60	1/2	4,347.42	1/2	4,340.51	1	4,333.60	1/4	4,326.69	1/2	4,319.78	3/4	4,312.87	2	4,305.96	1/4	4,299.05
1	4,058.31	1	4,052.29	1/2	4,046.27	1/2	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
1/4	3,762.09	1/4	3,755.75	1/2	3,749.41	1/2	3,743.05	1	3,736.69	1/4	3,730.33	1/2	3,723.97	3/4	3,717.59	2	3,711.20	1/4	3,704.82
1/2	3,451.19	1/2	3,444.57	1/2	3,437.95	1/2	3,431.31	1	3,424.68	1/4	3,418.04	1/2	3,411.40	3/4	3,404.73	2	3,398.06	1/4	3,391.39
3/4	3,126.76	3/4	3,119.86	1/2	3,112.96	1/2	3,106.05	1	3,099.14	1/4	3,092.23	1/2	3,085.33	3/4	3,078.42	2	3,071.51	1/4	3,064.60
0	2,795.18	0	2,788.27	0	2,781.36	0	2,774.45	0	2,767.54	0	2,760.64	0	2,753.73	0	2,746.82	0	2,739.91	0	2,733.00
1/4	2,463.58	1/4	2,456.67	1/2	2,449.76	1/2	2,442.85	1	2,435.94	1/4	2,429.03	1/2	2,422.12	3/4	2,415.22	2	2,408.31	1/4	2,401.40
1/2	4,357.79	1/2	4,352.60	1/2	4,347.42	3/4	4,340.51	1	4,333.60	1/4	4,326.69	1/2	4,319.78	3/4	4,312.87	2	4,305.96	1/4	4,299.05
3/4	4,058.31	3/4	4,052.29	1/2	4,046.27	1/2	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
1	3,762.09	1	3,755.75	1/2	3,749.41	1/2	3,743.05	1	3,736.69	1/4	3,730.33	1/2	3,723.97	3/4	3,717.59	2	3,711.20	1/4	3,704.82
1/4	3,451.19	1/4	3,444.57	1/2	3,437.95	1/2	3,431.31	1	3,424.68	1/4	3,418.04	1/2	3,411.40	3/4	3,404.73	2	3,398.06	1/4	3,391.39
1/2	3,126.76	1/2	3,119.86	1/2	3,112.96	1/2	3,106.05	1	3,099.14	1/4	3,092.23	1/2	3,085.33	3/4	3,078.42	2	3,071.51	1/4	3,064.60
3/4	2,795.18	3/4	2,788.27	1/2	2,781.36	1/2	2,774.45	1	2,767.54	1/4	2,760.64	1/2	2,753.73	3/4	2,746.82	2	2,739.91	1/4	2,733.00
0	2,463.58	0	2,456.67	0	2,449.76	0	2,442.85	0	2,435.94	0	2,429.03	0	2,422.12	0	2,415.22	0	2,408.31	0	2,401.40
1/4	4,357.79	1/4	4,352.60	1/2	4,347.42	1/2	4,340.51	1	4,333.60	1/4	4,326.69	1/2	4,319.78	3/4	4,312.87	2	4,305.96	1/4	4,299.05
1/2	4,058.31	1/2	4,052.29	1/2	4,046.27	1/2	4,040.22	1	4,034.17	1/4	4,028.12	1/2	4,022.08	3/4	4,016.01	2	4,009.94	1/4	4,003.87
3/4	3,762.09	3/4	3,755.75	1/2	3,749.41	1/2	3,743.05	1</											



BARGE "KIRBY 28033"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,131.93	0	1,800.27	0	1,468.61	0	1,136.96	0	811.03	0	507.00	0	226.42	0		0		0	
1/4	2,125.02	1/4	1,793.36	1/4	1,461.70	1/4	1,130.05	1/4	804.46	1/4	500.91	1/4	220.82	1/4	1/4	1/4		1/4	
1/2	2,118.11	1/2	1,786.45	1/2	1,454.79	1/2	1,123.14	1/2	797.89	1/2	494.82	1/2	215.22	1/2	1/2	1/2		1/2	
3/4	2,111.20	3/4	1,779.54	3/4	1,447.89	3/4	1,116.23	3/4	791.37	3/4	488.77	3/4	209.67	3/4	3/4	3/4		3/4	
1	2,104.29	1	1,772.63	1	1,440.98	1	1,109.32	1	784.84	1	482.72	1	204.11	1		1		1	
1/4	2,097.38	1/4	1,765.72	1/4	1,434.07	1/4	1,102.41	1/4	778.32	1/4	476.67	1/4	198.55	1/4	1/4	1/4		1/4	
1/2	2,090.47	1/2	1,758.81	1/2	1,427.16	1/2	1,095.50	1/2	771.79	1/2	470.62	1/2	193.00	1/2	1/2	1/2		1/2	
3/4	2,083.56	3/4	1,751.90	3/4	1,420.25	3/4	1,088.59	3/4	765.31	3/4	464.61	3/4	187.48	3/4	3/4	3/4		3/4	
2	2,076.65	2	1,744.99	2	1,413.34	2	1,081.68	2	758.82	2	458.60	2	181.96	2		2		2	
1/4	2,069.74	1/4	1,738.08	1/4	1,406.43	1/4	1,074.78	1/4	752.33	1/4	452.59	1/4	176.44	1/4	1/4	1/4		1/4	
1/2	2,062.83	1/2	1,731.17	1/2	1,399.52	1/2	1,067.87	1/2	745.85	1/2	446.58	1/2	170.92	1/2	1/2	1/2		1/2	
3/4	2,055.92	3/4	1,724.27	3/4	1,392.61	3/4	1,060.97	3/4	739.39	3/4	440.61	3/4	165.44	3/4	3/4	3/4		3/4	
3	2,049.01	3	1,717.36	3	1,385.70	3	1,054.07	3	732.93	3	434.64	3	159.97	3		3		3	
1/4	2,042.10	1/4	1,710.45	1/4	1,378.79	1/4	1,047.17	1/4	726.47	1/4	428.68	1/4	154.49	1/4	1/4	1/4		1/4	
1/2	2,035.19	1/2	1,703.54	1/2	1,371.88	1/2	1,040.27	1/2	720.01	1/2	422.71	1/2	149.02	1/2	1/2	1/2		1/2	
3/4	2,028.28	3/4	1,696.63	3/4	1,364.97	3/4	1,033.38	3/4	713.59	3/4	416.78	3/4	143.58	3/4	3/4	3/4		3/4	
4	2,021.37	4	1,689.72	4	1,358.06	4	1,026.50	4	707.17	4	410.85	4	138.14	4		4		4	
1/4	2,014.46	1/4	1,682.81	1/4	1,351.15	1/4	1,019.61	1/4	700.75	1/4	404.92	1/4	132.70	1/4	1/4	1/4		1/4	
1/2	2,007.55	1/2	1,675.90	1/2	1,344.24	1/2	1,012.73	1/2	694.33	1/2	399.00	1/2	127.26	1/2	1/2	1/2		1/2	
3/4	2,000.65	3/4	1,668.99	3/4	1,337.33	3/4	1,005.87	3/4	687.95	3/4	393.11	3/4	121.87	3/4	3/4	3/4		3/4	
5	1,993.74	5	1,662.08	5	1,330.42	5	999.01	5	681.57	5	387.23	5	116.48	5		5		5	
1/4	1,986.83	1/4	1,655.17	1/4	1,323.51	1/4	992.14	1/4	675.20	1/4	381.34	1/4	111.09	1/4	1/4	1/4		1/4	
1/2	1,979.92	1/2	1,648.26	1/2	1,316.60	1/2	985.28	1/2	668.82	1/2	375.46	1/2	105.70	1/2	1/2	1/2		1/2	
3/4	1,973.01	3/4	1,641.35	3/4	1,309.70	3/4	978.46	3/4	662.48	3/4	369.61	3/4	100.35	3/4	3/4	3/4		3/4	
6	1,966.10	6	1,634.44	6	1,302.79	6	971.63	6	656.14	6	363.76	6	94.99	6		6		6	
1/4	1,959.19	1/4	1,627.53	1/4	1,295.88	1/4	964.80	1/4	649.80	1/4	357.92	1/4	89.64	1/4	1/4	1/4		1/4	
1/2	1,952.28	1/2	1,620.62	1/2	1,288.97	1/2	957.97	1/2	643.47	1/2	352.07	1/2	84.29	1/2	1/2	1/2		1/2	
3/4	1,945.37	3/4	1,613.71	3/4	1,282.06	3/4	951.20	3/4	637.17	3/4	346.27	3/4	78.98	3/4	3/4	3/4		3/4	
7	1,938.46	7	1,606.80	7	1,275.15	7	944.43	7	630.88	7	340.46	7	73.67	7		7		7	
1/4	1,931.55	1/4	1,599.89	1/4	1,268.24	1/4	937.66	1/4	624.58	1/4	334.66	1/4	68.36	1/4	1/4	1/4		1/4	
1/2	1,924.64	1/2	1,592.98	1/2	1,261.33	1/2	930.88	1/2	618.28	1/2	328.86	1/2	63.05	1/2	1/2	1/2		1/2	
3/4	1,917.73	3/4	1,586.08	3/4	1,254.42	3/4	924.15	3/4	612.03	3/4	323.09	3/4	57.78	3/4	3/4	3/4		3/4	
8	1,910.82	8	1,579.17	8	1,247.51	8	917.42	8	605.77	8	317.33	8	52.51	8		8		8	
1/4	1,903.91	1/4	1,572.26	1/4	1,240.60	1/4	910.69	1/4	599.52	1/4	311.56	1/4	47.24	1/4	1/4	1/4		1/4	
1/2	1,897.00	1/2	1,565.35	1/2	1,233.69	1/2	903.96	1/2	593.26	1/2	305.80	1/2	41.97	1/2	1/2	1/2		1/2	
3/4	1,890.09	3/4	1,558.44	3/4	1,226.78	3/4	897.27	3/4	587.05	3/4	300.08	3/4	37.61	3/4	3/4	3/4		3/4	
9	1,883.18	9	1,551.53	9	1,219.87	9	890.58	9	580.83	9	294.36	9	33.25	9		9		9	
1/4	1,876.27	1/4	1,544.62	1/4	1,212.96	1/4	883.89	1/4	574.62	1/4	288.63	1/4	28.89	1/4	1/4	1/4		1/4	
1/2	1,869.36	1/2	1,537.71	1/2	1,206.05	1/2	877.20	1/2	568.41	1/2	282.91	1/2	24.53	1/2	1/2	1/2		1/2	
3/4	1,862.46	3/4	1,530.80	3/4	1,199.14	3/4	870.55	3/4	562.23	3/4	277.23	3/4	21.93	3/4	3/4	3/4		3/4	
10	1,855.55	10	1,523.89	10	1,192.23	10	863.90	10	556.06	10	271.55	10	19.33	10		10		10	
1/4	1,848.64	1/4	1,516.98	1/4	1,185.32	1/4	857.25	1/4	549.88	1/4	265.86	1/4	16.74	1/4	1/4	1/4		1/4	
1/2	1,841.73	1/2	1,510.07	1/2	1,178.41	1/2	850.60	1/2	543.71	1/2	260.18	1/2	14.14	1/2	1/2	1/2		1/2	
3/4	1,834.82	3/4	1,503.16	3/4	1,171.51	3/4	843.99	3/4	537.58	3/4	254.54	3/4		3/4	3/4	3/4		3/4	
11	1,827.91	11	1,496.25	11	1,164.60	11	837.38	11	531.45	11	248.90	11		11		11		11	
1/4	1,821.00	1/4	1,489.34	1/4	1,157.69	1/4	830.77	1/4	525.32	1/4	243.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,814.09	1/2	1,482.43	1/2	1,150.78	1/2	824.17	1/2	519.18	1/2	237.63	1/2		1/2	1/2	1/2		1/2	
3/4	1,807.18	3/4	1,475.52	3/4	1,143.87	3/4	817.60	3/4	513.09	3/4	232.03	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/17/2004 CL - SW
CALCULATED: 08/17/2004 CL
PRINTED: 08/17/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2004

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

1 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,351.39	0	4,051.04	0	3,754.46	0	3,443.24	0	3,118.49	0	2,786.86	0	2,455.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,346.21	1/4	4,045.02	1/4	3,748.12	1/4	3,436.63	1/4	3,111.59	1/4	2,779.95	1/4	2,448.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,339.30	1/2	4,038.97	1/2	3,741.76	1/2	3,429.99	1/2	3,104.68	1/2	2,773.04	1/2	2,441.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,332.39	3/4	4,032.92	3/4	3,735.40	3/4	3,423.35	3/4	3,097.77	3/4	2,766.13	3/4	2,434.48
1		1		1		1	4,325.48	1	4,026.87	1	3,729.04	1	3,416.71	1	3,090.86	1	2,759.22	1	2,427.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,318.57	1/4	4,020.83	1/4	3,722.68	1/4	3,410.07	1/4	3,083.95	1/4	2,752.31	1/4	2,420.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,311.66	1/2	4,014.76	1/2	3,716.30	1/2	3,403.40	1/2	3,077.04	1/2	2,745.40	1/2	2,413.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,304.75	3/4	4,008.69	3/4	3,709.91	3/4	3,396.73	3/4	3,070.13	3/4	2,738.49	3/4	2,406.84
2		2		2		2	4,297.84	2	4,002.62	2	3,703.53	2	3,390.06	2	3,063.22	2	2,731.58	2	2,399.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,290.93	1/4	3,996.55	1/4	3,697.15	1/4	3,383.39	1/4	3,056.31	1/4	2,724.67	1/4	2,393.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,284.02	1/2	3,990.46	1/2	3,690.74	1/2	3,376.70	1/2	3,049.40	1/2	2,717.76	1/2	2,386.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,277.11	3/4	3,984.37	3/4	3,684.33	3/4	3,370.01	3/4	3,042.50	3/4	2,710.85	3/4	2,379.20
3		3		3		3	4,270.20	3	3,978.28	3	3,677.92	3	3,363.33	3	3,035.59	3	2,703.94	3	2,372.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,263.29	1/4	3,972.19	1/4	3,671.51	1/4	3,356.64	1/4	3,028.68	1/4	2,697.04	1/4	2,365.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,256.38	1/2	3,966.07	1/2	3,665.08	1/2	3,349.93	1/2	3,021.77	1/2	2,690.13	1/2	2,358.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,249.47	3/4	3,959.96	3/4	3,658.65	3/4	3,343.22	3/4	3,014.86	3/4	2,683.22	3/4	2,351.56
4		4		4		4	4,242.56	4	3,953.84	4	3,652.22	4	3,336.51	4	3,007.95	4	2,676.31	4	2,344.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,235.64	1/4	3,947.72	1/4	3,645.79	1/4	3,329.80	1/4	3,001.04	1/4	2,669.40	1/4	2,337.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,229.75	1/2	3,941.58	1/2	3,639.33	1/2	3,323.06	1/2	2,994.13	1/2	2,662.49	1/2	2,330.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,223.85	3/4	3,935.44	3/4	3,632.88	3/4	3,316.32	3/4	2,987.22	3/4	2,655.58	3/4	2,323.92
5		5		5		5	4,217.96	5	3,929.31	5	3,626.43	5	3,309.59	5	2,980.31	5	2,648.67	5	2,317.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,212.06	1/4	3,923.17	1/4	3,619.98	1/4	3,302.85	1/4	2,973.40	1/4	2,641.76	1/4	2,310.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,206.15	1/2	3,917.01	1/2	3,613.50	1/2	3,296.09	1/2	2,966.49	1/2	2,634.85	1/2	2,303.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,200.23	3/4	3,910.85	3/4	3,607.02	3/4	3,289.33	3/4	2,959.59	3/4	2,627.94	3/4	2,296.28
6		6		6		6	4,194.32	6	3,904.69	6	3,600.54	6	3,282.57	6	2,952.68	6	2,621.03	6	2,289.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,188.40	1/4	3,898.53	1/4	3,594.06	1/4	3,275.82	1/4	2,945.77	1/4	2,614.13	1/4	2,282.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,182.47	1/2	3,892.34	1/2	3,587.56	1/2	3,269.03	1/2	2,938.86	1/2	2,607.22	1/2	2,275.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,176.53	3/4	3,886.16	3/4	3,581.06	3/4	3,262.24	3/4	2,931.95	3/4	2,600.31	3/4	2,268.63
7		7		7		7	4,170.59	7	3,879.97	7	3,574.56	7	3,255.45	7	2,925.04	7	2,593.40	7	2,261.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,164.66	1/4	3,873.78	1/4	3,568.06	1/4	3,248.66	1/4	2,918.13	1/4	2,586.49	1/4	2,254.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,158.69	1/2	3,867.57	1/2	3,561.54	1/2	3,241.85	1/2	2,911.22	1/2	2,579.58	1/2	2,247.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,152.73	3/4	3,861.37	3/4	3,555.02	3/4	3,235.05	3/4	2,904.31	3/4	2,572.67	3/4	2,240.99
8		8		8		8	4,146.76	8	3,855.16	8	3,548.49	8	3,228.24	8	2,897.40	8	2,565.76	8	2,234.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,140.80	1/4	3,848.95	1/4	3,541.97	1/4	3,221.43	1/4	2,890.49	1/4	2,558.85	1/4	2,227.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,134.85	1/2	3,842.69	1/2	3,535.42	1/2	3,214.61	1/2	2,883.58	1/2	2,551.94	1/2	2,220.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,128.90	3/4	3,836.42	3/4	3,528.88	3/4	3,207.78	3/4	2,876.67	3/4	2,545.03	3/4	2,213.35
9		9		9		9	4,122.95	9	3,830.16	9	3,522.33	9	3,200.95	9	2,869.77	9	2,538.12	9	2,206.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,117.00	1/4	3,823.89	1/4	3,515.78	1/4	3,194.12	1/4	2,862.86	1/4	2,531.21	1/4	2,199.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,111.02	1/2	3,817.60	1/2	3,509.21	1/2	3,187.26	1/2	2,855.95	1/2	2,524.31	1/2	2,192.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,105.05	3/4	3,811.31	3/4	3,502.64	3/4	3,180.41	3/4	2,849.04	3/4	2,517.40	3/4	2,185.71
10		10		10		10	4,099.08	10	3,805.02	10	3,496.07	10	3,173.55	10	2,842.13	10	2,510.49	10	2,178.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,093.10	1/4	3,798.73	1/4	3,489.50	1/4	3,166.69	1/4	2,835.22	1/4	2,503.58	1/4	2,171.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,087.10	1/2	3,792.42	1/2	3,482.90	1/2	3,159.81	1/2	2,828.31	1/2	2,496.67	1/2	2,164.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,081.10	3/4	3,786.11	3/4	3,476.30	3/4	3,152.94	3/4	2,821.40	3/4	2,489.76	3/4	2,158.07
11		11		11		11	4,075.11	11	3,779.80	11	3,469.70	11	3,146.06	11	2,814.49	11	2,482.85	11	2,151.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,069.11	1/4	3,773.48	1/4	3,463.10	1/4	3,139.18	1/4	2,807.58	1/4	2,475.94	1/4	2,144.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,063.09	1/2	3,767.14	1/2	3,456.48	1/2	3,132.28	1/2	2,800.67	1/2	2,469.03	1/2	2,137.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,356.58	3/4	4,057.06	3/4	3,760.80	3/4	3,449.86	3/4	3,125.39	3/4	2,793.76	3/4	2,462.12

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'-09" OFF CENTERLINE AND 36'-10" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

1 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,123.52	0	1,791.82	0	1,460.12	0	1,128.42	0	803.94	0	500.96	0	220.85	0	0	0	0	0	0
1/4	2,116.61	1/4	1,784.91	1/4	1,453.21	1/4	1,121.51	1/4	797.41	1/4	494.87	1/4	215.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,109.69	1/2	1,778.00	1/2	1,446.30	1/2	1,114.60	1/2	790.93	1/2	488.82	1/2	209.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,102.78	3/4	1,771.09	3/4	1,439.39	3/4	1,107.69	3/4	784.44	3/4	482.77	3/4	204.13	3/4	3/4	3/4	3/4	3/4	3/4
1	2,095.87	1	1,764.17	1	1,432.48	1	1,100.78	1	777.95	1	476.72	1	198.57	1	1	1	1	1	1
1/4	2,088.96	1/4	1,757.26	1/4	1,425.57	1/4	1,093.87	1/4	771.46	1/4	470.67	1/4	193.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,082.05	1/2	1,750.35	1/2	1,418.65	1/2	1,086.96	1/2	765.01	1/2	464.66	1/2	187.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,075.14	3/4	1,743.44	3/4	1,411.74	3/4	1,080.05	3/4	758.56	3/4	458.65	3/4	181.98	3/4	3/4	3/4	3/4	3/4	3/4
2	2,068.23	2	1,736.53	2	1,404.83	2	1,073.14	2	752.12	2	452.64	2	176.46	2	2	2	2	2	2
1/4	2,061.32	1/4	1,729.62	1/4	1,397.92	1/4	1,066.23	1/4	745.67	1/4	446.63	1/4	170.94	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,054.41	1/2	1,722.71	1/2	1,391.01	1/2	1,059.33	1/2	739.24	1/2	440.66	1/2	165.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,047.50	3/4	1,715.80	3/4	1,384.10	3/4	1,052.43	3/4	732.82	3/4	434.69	3/4	159.99	3/4	3/4	3/4	3/4	3/4	3/4
3	2,040.59	3	1,708.89	3	1,377.19	3	1,045.52	3	726.40	3	428.72	3	154.51	3	3	3	3	3	3
1/4	2,033.68	1/4	1,701.98	1/4	1,370.28	1/4	1,038.62	1/4	719.97	1/4	422.76	1/4	149.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,026.77	1/2	1,695.07	1/2	1,363.37	1/2	1,031.74	1/2	713.58	1/2	416.83	1/2	143.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,019.86	3/4	1,688.16	3/4	1,356.46	3/4	1,024.85	3/4	707.19	3/4	410.90	3/4	138.16	3/4	3/4	3/4	3/4	3/4	3/4
4	2,012.95	4	1,681.25	4	1,349.55	4	1,017.97	4	700.80	4	404.97	4	132.72	4	4	4	4	4	4
1/4	2,006.04	1/4	1,674.34	1/4	1,342.64	1/4	1,011.08	1/4	694.41	1/4	399.04	1/4	127.28	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,999.13	1/2	1,667.43	1/2	1,335.73	1/2	1,004.25	1/2	688.03	1/2	393.15	1/2	121.89	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,992.22	3/4	1,660.52	3/4	1,328.82	3/4	997.42	3/4	681.65	3/4	387.27	3/4	116.49	3/4	3/4	3/4	3/4	3/4	3/4
5	1,985.31	5	1,653.61	5	1,321.91	5	990.59	5	675.27	5	381.38	5	111.10	5	5	5	5	5	5
1/4	1,978.40	1/4	1,646.70	1/4	1,315.00	1/4	983.75	1/4	668.89	1/4	375.50	1/4	105.71	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,971.49	1/2	1,639.79	1/2	1,308.09	1/2	976.96	1/2	662.56	1/2	369.65	1/2	100.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,964.58	3/4	1,632.88	3/4	1,301.18	3/4	970.17	3/4	656.22	3/4	363.80	3/4	95.00	3/4	3/4	3/4	3/4	3/4	3/4
6	1,957.67	6	1,625.97	6	1,294.27	6	963.37	6	649.88	6	357.95	6	89.65	6	6	6	6	6	6
1/4	1,950.76	1/4	1,619.06	1/4	1,287.36	1/4	956.58	1/4	643.54	1/4	352.11	1/4	84.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,943.85	1/2	1,612.15	1/2	1,280.45	1/2	949.85	1/2	637.24	1/2	346.30	1/2	78.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,936.93	3/4	1,605.24	3/4	1,273.54	3/4	943.11	3/4	630.95	3/4	340.50	3/4	73.68	3/4	3/4	3/4	3/4	3/4	3/4
7	1,930.02	7	1,598.33	7	1,266.63	7	936.38	7	624.65	7	334.70	7	68.37	7	7	7	7	7	7
1/4	1,923.11	1/4	1,591.41	1/4	1,259.72	1/4	929.65	1/4	618.35	1/4	328.89	1/4	63.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,916.20	1/2	1,584.50	1/2	1,252.81	1/2	922.95	1/2	612.10	1/2	323.13	1/2	57.79	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,909.29	3/4	1,577.59	3/4	1,245.89	3/4	916.26	3/4	605.84	3/4	317.36	3/4	52.52	3/4	3/4	3/4	3/4	3/4	3/4
8	1,902.38	8	1,570.68	8	1,238.98	8	909.56	8	599.58	8	311.60	8	47.25	8	8	8	8	8	8
1/4	1,895.47	1/4	1,563.77	1/4	1,232.07	1/4	902.87	1/4	593.33	1/4	305.83	1/4	41.98	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,888.56	1/2	1,556.86	1/2	1,225.16	1/2	896.22	1/2	587.11	1/2	300.11	1/2	37.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,881.65	3/4	1,549.95	3/4	1,218.25	3/4	889.57	3/4	580.90	3/4	294.39	3/4	33.25	3/4	3/4	3/4	3/4	3/4	3/4
9	1,874.74	9	1,543.04	9	1,211.34	9	882.91	9	574.68	9	288.67	9	28.89	9	9	9	9	9	9
1/4	1,867.83	1/4	1,536.13	1/4	1,204.43	1/4	876.26	1/4	568.47	1/4	282.94	1/4	24.53	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,860.92	1/2	1,529.22	1/2	1,197.52	1/2	869.65	1/2	562.30	1/2	277.26	1/2	21.93	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,854.01	3/4	1,522.31	3/4	1,190.61	3/4	863.04	3/4	556.12	3/4	271.58	3/4	19.34	3/4	3/4	3/4	3/4	3/4	3/4
10	1,847.10	10	1,515.40	10	1,183.70	10	856.43	10	549.95	10	265.89	10	16.74	10	10	10	10	10	10
1/4	1,840.19	1/4	1,508.49	1/4	1,176.79	1/4	849.81	1/4	543.77	1/4	260.21	1/4	14.14	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,833.28	1/2	1,501.58	1/2	1,169.88	1/2	843.24	1/2	537.64	1/2	254.57	1/2	12.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,826.37	3/4	1,494.67	3/4	1,162.97	3/4	836.68	3/4	531.51	3/4	248.93	3/4	11.00	3/4	3/4	3/4	3/4	3/4	3/4
11	1,819.46	11	1,487.76	11	1,156.06	11	830.11	11	525.37	11	243.29	11	9.43	11	11	11	11	11	11
1/4	1,812.55	1/4	1,480.85	1/4	1,149.15	1/4	823.54	1/4	519.24	1/4	237.65	1/4	7.86	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,805.64	1/2	1,473.94	1/2	1,142.24	1/2	817.00	1/2	513.15	1/2	232.05	1/2	6.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,798.73	3/4	1,467.03	3/4	1,135.33	3/4	810.47	3/4	507.06	3/4	226.45	3/4	4.72	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/17/2004 CL - SW
CALCULATED: 08/17/2004 CL
PRINTED: 08/17/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2004

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
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	
1/2		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	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
					5,272.16														

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'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,659.88	0	2,271.59	0	1,883.30	0	1,495.01	0	1,106.72	0	718.94	0	331.24	0		0		0	
1/4	2,651.79	1/4	2,263.50	1/4	1,875.21	1/4	1,486.92	1/4	1,098.63	1/4	710.88	1/4	323.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,643.71	1/2	2,255.41	1/2	1,867.12	1/2	1,478.83	1/2	1,090.54	1/2	702.81	1/2	315.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,635.62	3/4	2,247.32	3/4	1,859.03	3/4	1,470.74	3/4	1,082.45	3/4	694.75	3/4	307.00	3/4	3/4	3/4	3/4	3/4	3/4
1	2,627.53	1	2,239.24	1	1,850.94	1	1,462.65	1	1,074.36	1	686.68	1	298.92	1		1		1	
1/4	2,619.44	1/4	2,231.15	1/4	1,842.85	1/4	1,454.56	1/4	1,066.27	1/4	678.62	1/4	290.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,611.35	1/2	2,223.06	1/2	1,834.77	1/2	1,446.47	1/2	1,058.18	1/2	670.55	1/2	282.76	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,603.26	3/4	2,214.97	3/4	1,826.68	3/4	1,438.38	3/4	1,050.09	3/4	662.49	3/4	274.68	3/4	3/4	3/4	3/4	3/4	3/4
2	2,595.17	2	2,206.88	2	1,818.59	2	1,430.30	2	1,042.00	2	654.42	2	266.60	2		2		2	
1/4	2,587.08	1/4	2,198.79	1/4	1,810.50	1/4	1,422.21	1/4	1,033.91	1/4	646.36	1/4	258.52	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,578.99	1/2	2,190.70	1/2	1,802.41	1/2	1,414.12	1/2	1,025.83	1/2	638.29	1/2	250.44	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,570.90	3/4	2,182.61	3/4	1,794.32	3/4	1,406.03	3/4	1,017.74	3/4	630.21	3/4	242.35	3/4	3/4	3/4	3/4	3/4	3/4
3	2,562.81	3	2,174.52	3	1,786.23	3	1,397.94	3	1,009.65	3	622.14	3	234.27	3		3		3	
1/4	2,554.72	1/4	2,166.43	1/4	1,778.14	1/4	1,389.85	1/4	1,001.56	1/4	614.07	1/4	226.19	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,546.63	1/2	2,158.34	1/2	1,770.05	1/2	1,381.76	1/2	993.47	1/2	605.99	1/2	218.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,538.54	3/4	2,150.25	3/4	1,761.96	3/4	1,373.67	3/4	985.38	3/4	597.91	3/4	210.03	3/4	3/4	3/4	3/4	3/4	3/4
4	2,530.45	4	2,142.16	4	1,753.87	4	1,365.58	4	977.29	4	589.82	4	201.95	4		4		4	
1/4	2,522.36	1/4	2,134.07	1/4	1,745.78	1/4	1,357.49	1/4	969.20	1/4	581.74	1/4	193.87	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,514.28	1/2	2,125.98	1/2	1,737.69	1/2	1,349.40	1/2	961.11	1/2	573.66	1/2	185.79	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,506.19	3/4	2,117.89	3/4	1,729.60	3/4	1,341.31	3/4	953.02	3/4	565.58	3/4	177.71	3/4	3/4	3/4	3/4	3/4	3/4
5	2,498.10	5	2,109.81	5	1,721.51	5	1,333.22	5	944.93	5	557.50	5	169.63	5		5		5	
1/4	2,490.01	1/4	2,101.72	1/4	1,713.42	1/4	1,325.13	1/4	936.84	1/4	549.42	1/4	161.55	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,481.92	1/2	2,093.63	1/2	1,705.34	1/2	1,317.04	1/2	928.75	1/2	541.34	1/2	153.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,473.83	3/4	2,085.54	3/4	1,697.25	3/4	1,308.95	3/4	920.66	3/4	533.26	3/4	145.39	3/4	3/4	3/4	3/4	3/4	3/4
6	2,465.74	6	2,077.45	6	1,689.16	6	1,300.87	6	912.57	6	525.18	6	137.31	6		6		6	
1/4	2,457.65	1/4	2,069.36	1/4	1,681.07	1/4	1,292.78	1/4	904.48	1/4	517.10	1/4	129.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,449.56	1/2	2,061.27	1/2	1,672.98	1/2	1,284.69	1/2	896.41	1/2	509.02	1/2	121.14	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,441.47	3/4	2,053.18	3/4	1,664.89	3/4	1,276.60	3/4	888.33	3/4	500.94	3/4	113.06	3/4	3/4	3/4	3/4	3/4	3/4
7	2,433.38	7	2,045.09	7	1,656.80	7	1,268.51	7	880.25	7	492.86	7	104.98	7		7		7	
1/4	2,425.29	1/4	2,037.00	1/4	1,648.71	1/4	1,260.42	1/4	872.18	1/4	484.78	1/4	96.90	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,417.20	1/2	2,028.91	1/2	1,640.62	1/2	1,252.33	1/2	864.11	1/2	476.70	1/2	88.82	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,409.11	3/4	2,020.82	3/4	1,632.53	3/4	1,244.24	3/4	856.05	3/4	468.61	3/4	80.74	3/4	3/4	3/4	3/4	3/4	3/4
8	2,401.02	8	2,012.73	8	1,624.44	8	1,236.15	8	847.98	8	460.53	8	72.66	8		8		8	
1/4	2,392.93	1/4	2,004.64	1/4	1,616.35	1/4	1,228.06	1/4	839.92	1/4	452.45	1/4	64.58	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,384.84	1/2	1,996.55	1/2	1,608.26	1/2	1,219.97	1/2	831.85	1/2	444.37	1/2	57.51	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,376.76	3/4	1,988.46	3/4	1,600.17	3/4	1,211.88	3/4	823.79	3/4	436.29	3/4	50.44	3/4	3/4	3/4	3/4	3/4	3/4
9	2,368.67	9	1,980.37	9	1,592.08	9	1,203.79	9	815.72	9	428.21	9	43.37	9		9		9	
1/4	2,360.58	1/4	1,972.29	1/4	1,583.99	1/4	1,195.70	1/4	807.66	1/4	420.13	1/4	36.30	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,352.49	1/2	1,964.20	1/2	1,575.90	1/2	1,187.61	1/2	799.59	1/2	412.05	1/2	31.25	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,344.40	3/4	1,956.11	3/4	1,567.82	3/4	1,179.52	3/4	791.53	3/4	403.97	3/4	26.20	3/4	3/4	3/4	3/4	3/4	3/4
10	2,336.31	10	1,948.02	10	1,559.73	10	1,171.43	10	783.46	10	395.89	10	21.16	10		10		10	
1/4	2,328.22	1/4	1,939.93	1/4	1,551.64	1/4	1,163.35	1/4	775.40	1/4	387.81	1/4	16.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,320.13	1/2	1,931.84	1/2	1,543.55	1/2	1,155.26	1/2	767.33	1/2	379.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,312.04	3/4	1,923.75	3/4	1,535.46	3/4	1,147.17	3/4	759.27	3/4	371.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,303.95	11	1,915.66	11	1,527.37	11	1,139.08	11	751.20	11	363.57	11		11		11		11	
1/4	2,295.86	1/4	1,907.57	1/4	1,519.28	1/4	1,130.99	1/4	743.14	1/4	355.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,287.77	1/2	1,899.48	1/2	1,511.19	1/2	1,122.90	1/2	735.07	1/2	347.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,279.68	3/4	1,891.39	3/4	1,503.10	3/4	1,114.81	3/4	727.01	3/4	339.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/17/2004 CL - SW
CALCULATED: 08/17/2004 CL
PRINTED: 08/17/2004 CLCANCELS AND SUPERCEDES
ALL PRIOR TO 08/2004PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

2 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,258.70	0	4,908.49	0	4,562.75	0	4,198.78	0	3,818.96	0	3,430.79	0	3,042.58
1/4		1/4		1/4		1/4	5,252.63	1/4	4,901.47	1/4	4,555.33	1/4	4,191.03	1/4	3,810.89	1/4	3,422.70	1/4	3,034.49
1/2		1/2		1/2		1/2	5,246.56	1/2	4,894.45	1/2	4,547.90	1/2	4,183.28	1/2	3,802.82	1/2	3,414.61	1/2	3,026.41
3/4		3/4		3/4		3/4	5,238.47	3/4	4,887.40	3/4	4,540.46	3/4	4,175.51	3/4	3,794.73	3/4	3,406.52	3/4	3,018.32
1		1		1		1	5,230.38	1	4,880.35	1	4,533.01	1	4,167.74	1	3,786.64	1	3,398.44	1	3,010.23
1/4		1/4		1/4		1/4	5,222.29	1/4	4,873.30	1/4	4,525.57	1/4	4,159.96	1/4	3,778.55	1/4	3,390.35	1/4	3,002.14
1/2		1/2		1/2		1/2	5,214.20	1/2	4,866.25	1/2	4,518.12	1/2	4,152.19	1/2	3,770.47	1/2	3,382.26	1/2	2,994.05
3/4		3/4		3/4		3/4	5,206.11	3/4	4,859.18	3/4	4,510.65	3/4	4,144.39	3/4	3,762.38	3/4	3,374.17	3/4	2,985.96
2		2		2		2	5,198.02	2	4,852.11	2	4,503.18	2	4,136.58	2	3,754.29	2	3,366.09	2	2,977.87
1/4		1/4		1/4		1/4	5,189.93	1/4	4,845.03	1/4	4,495.71	1/4	4,128.77	1/4	3,746.20	1/4	3,358.00	1/4	2,969.78
1/2		1/2		1/2		1/2	5,181.84	1/2	4,837.96	1/2	4,488.24	1/2	4,120.97	1/2	3,738.12	1/2	3,349.91	1/2	2,961.69
3/4		3/4		3/4		3/4	5,173.75	3/4	4,830.86	3/4	4,480.74	3/4	4,113.14	3/4	3,730.03	3/4	3,341.82	3/4	2,953.60
3		3		3		3	5,165.66	3	4,823.77	3	4,473.23	3	4,105.31	3	3,721.94	3	3,333.74	3	2,945.51
1/4		1/4		1/4		1/4	5,157.57	1/4	4,816.67	1/4	4,465.73	1/4	4,097.48	1/4	3,713.85	1/4	3,325.65	1/4	2,937.42
1/2		1/2		1/2		1/2	5,149.48	1/2	4,809.57	1/2	4,458.22	1/2	4,089.65	1/2	3,705.76	1/2	3,317.56	1/2	2,929.33
3/4		3/4		3/4		3/4	5,141.39	3/4	4,802.44	3/4	4,450.70	3/4	4,081.80	3/4	3,697.68	3/4	3,309.47	3/4	2,921.24
4		4		4		4	5,133.30	4	4,795.31	4	4,443.17	4	4,073.94	4	3,689.59	4	3,301.38	4	2,913.15
1/4		1/4		1/4		1/4	5,125.21	1/4	4,788.18	1/4	4,435.64	1/4	4,066.09	1/4	3,681.50	1/4	3,293.30	1/4	2,905.06
1/2		1/2		1/2		1/2	5,117.12	1/2	4,781.05	1/2	4,428.12	1/2	4,058.23	1/2	3,673.41	1/2	3,285.21	1/2	2,896.97
3/4		3/4		3/4		3/4	5,110.22	3/4	4,773.90	3/4	4,420.56	3/4	4,050.35	3/4	3,665.33	3/4	3,277.12	3/4	2,888.88
5		5		5		5	5,103.32	5	4,766.74	5	4,413.01	5	4,042.46	5	3,657.24	5	3,269.03	5	2,880.79
1/4		1/4		1/4		1/4	5,096.42	1/4	4,759.59	1/4	4,405.46	1/4	4,034.57	1/4	3,649.15	1/4	3,260.95	1/4	2,872.70
1/2		1/2		1/2		1/2	5,089.52	1/2	4,752.44	1/2	4,397.91	1/2	4,026.69	1/2	3,641.06	1/2	3,252.86	1/2	2,864.61
3/4		3/4		3/4		3/4	5,082.59	3/4	4,745.26	3/4	4,390.32	3/4	4,018.78	3/4	3,632.98	3/4	3,244.77	3/4	2,856.52
6		6		6		6	5,075.66	6	4,738.08	6	4,382.74	6	4,010.87	6	3,624.89	6	3,236.68	6	2,848.43
1/4		1/4		1/4		1/4	5,068.74	1/4	4,730.90	1/4	4,375.15	1/4	4,002.96	1/4	3,616.80	1/4	3,228.60	1/4	2,840.34
1/2		1/2		1/2		1/2	5,061.81	1/2	4,723.72	1/2	4,367.57	1/2	3,995.04	1/2	3,608.71	1/2	3,220.51	1/2	2,832.25
3/4		3/4		3/4		3/4	5,054.86	3/4	4,716.51	3/4	4,359.96	3/4	3,987.10	3/4	3,600.63	3/4	3,212.42	3/4	2,824.16
7		7		7		7	5,047.91	7	4,709.30	7	4,352.35	7	3,979.15	7	3,592.54	7	3,204.33	7	2,816.07
1/4		1/4		1/4		1/4	5,040.96	1/4	4,702.09	1/4	4,344.74	1/4	3,971.20	1/4	3,584.45	1/4	3,196.25	1/4	2,807.98
1/2		1/2		1/2		1/2	5,034.01	1/2	4,694.87	1/2	4,337.13	1/2	3,963.26	1/2	3,576.36	1/2	3,188.16	1/2	2,799.89
3/4		3/4		3/4		3/4	5,027.03	3/4	4,687.64	3/4	4,329.50	3/4	3,955.29	3/4	3,568.28	3/4	3,180.07	3/4	2,791.80
8		8		8		8	5,020.05	8	4,680.40	8	4,321.86	8	3,947.32	8	3,560.19	8	3,171.98	8	2,783.71
1/4		1/4		1/4		1/4	5,013.06	1/4	4,673.17	1/4	4,314.23	1/4	3,939.36	1/4	3,552.10	1/4	3,163.90	1/4	2,775.62
1/2		1/2		1/2		1/2	5,006.08	1/2	4,665.93	1/2	4,306.60	1/2	3,931.39	1/2	3,544.01	1/2	3,155.81	1/2	2,767.53
3/4		3/4		3/4		3/4	4,999.15	3/4	4,658.60	3/4	4,298.93	3/4	3,923.40	3/4	3,535.93	3/4	3,147.72	3/4	2,759.44
9		9		9		9	4,992.21	9	4,651.27	9	4,291.27	9	3,915.40	9	3,527.84	9	3,139.63	9	2,751.35
1/4		1/4		1/4		1/4	4,985.27	1/4	4,643.93	1/4	4,283.60	1/4	3,907.41	1/4	3,519.75	1/4	3,131.55	1/4	2,743.26
1/2		1/2		1/2		1/2	4,978.34	1/2	4,636.60	1/2	4,275.93	1/2	3,899.42	1/2	3,511.66	1/2	3,123.46	1/2	2,735.17
3/4		3/4		3/4		3/4	4,971.38	3/4	4,629.24	3/4	4,268.24	3/4	3,891.39	3/4	3,503.57	3/4	3,115.37	3/4	2,727.08
10		10		10		10	4,964.41	10	4,621.88	10	4,260.55	10	3,883.36	10	3,495.49	10	3,107.28	10	2,718.99
1/4		1/4		1/4		1/4	4,957.45	1/4	4,614.51	1/4	4,252.86	1/4	3,875.33	1/4	3,487.40	1/4	3,099.19	1/4	2,710.90
1/2		1/2		1/2		1/2	4,950.49	1/2	4,607.15	1/2	4,245.17	1/2	3,867.31	1/2	3,479.31	1/2	3,091.11	1/2	2,702.81
3/4		3/4		3/4		3/4	4,943.50	3/4	4,599.76	3/4	4,237.45	3/4	3,859.26	3/4	3,471.22	3/4	3,083.02	3/4	2,694.72
11		11		11		11	4,936.51	11	4,592.37	11	4,229.72	11	3,851.21	11	3,463.14	11	3,074.93	11	2,686.63
1/4		1/4		1/4		1/4	4,929.51	1/4	4,584.98	1/4	4,222.00	1/4	3,843.16	1/4	3,455.05	1/4	3,066.84	1/4	2,678.54
1/2		1/2		1/2		1/2	4,922.52	1/2	4,577.59	1/2	4,214.27	1/2	3,835.11	1/2	3,446.96	1/2	3,058.76	1/2	2,670.45
3/4		3/4		3/4		3/4	4,915.50	3/4	4,570.17	3/4	4,206.52	3/4	3,827.04	3/4	3,438.87	3/4	3,050.67	3/4	2,662.36

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'-09" OFF CENTERLINE AND 43'-07" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

2 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,654.27	0	2,265.95	0	1,877.63	0	1,489.31	0	1,100.99	0	721.82	0	340.06	0		0		0	
1/4	2,646.18	1/4	2,257.86	1/4	1,869.54	1/4	1,481.22	1/4	1,092.90	1/4	714.07	1/4	331.97	1/4		1/4		1/4	
1/2	2,638.09	1/2	2,249.77	1/2	1,861.45	1/2	1,473.13	1/2	1,084.81	1/2	706.31	1/2	323.88	1/2		1/2		1/2	
3/4	2,630.00	3/4	2,241.68	3/4	1,853.36	3/4	1,465.04	3/4	1,076.72	3/4	698.56	3/4	315.79	3/4		3/4		3/4	
1	2,621.91	1	2,233.59	1	1,845.27	1	1,456.95	1	1,068.63	1	690.81	1	307.70	1		1		1	
1/4	2,613.82	1/4	2,225.50	1/4	1,837.18	1/4	1,448.86	1/4	1,060.54	1/4	683.05	1/4	299.61	1/4		1/4		1/4	
1/2	2,605.73	1/2	2,217.41	1/2	1,829.09	1/2	1,440.77	1/2	1,052.45	1/2	675.30	1/2	291.53	1/2		1/2		1/2	
3/4	2,597.64	3/4	2,209.32	3/4	1,821.00	3/4	1,432.68	3/4	1,044.36	3/4	667.54	3/4	283.44	3/4		3/4		3/4	
2	2,589.55	2	2,201.23	2	1,812.91	2	1,424.59	2	1,036.27	2	659.79	2	275.35	2		2		2	
1/4	2,581.46	1/4	2,193.14	1/4	1,804.82	1/4	1,416.50	1/4	1,028.18	1/4	652.04	1/4	267.26	1/4		1/4		1/4	
1/2	2,573.37	1/2	2,185.05	1/2	1,796.73	1/2	1,408.41	1/2	1,020.09	1/2	644.28	1/2	259.17	1/2		1/2		1/2	
3/4	2,565.28	3/4	2,176.96	3/4	1,788.64	3/4	1,400.32	3/4	1,012.00	3/4	636.52	3/4	251.08	3/4		3/4		3/4	
3	2,557.19	3	2,168.87	3	1,780.55	3	1,392.23	3	1,003.91	3	628.76	3	242.99	3		3		3	
1/4	2,549.10	1/4	2,160.78	1/4	1,772.46	1/4	1,384.14	1/4	995.82	1/4	620.99	1/4	234.90	1/4		1/4		1/4	
1/2	2,541.01	1/2	2,152.69	1/2	1,764.37	1/2	1,376.05	1/2	987.73	1/2	613.23	1/2	226.81	1/2		1/2		1/2	
3/4	2,532.92	3/4	2,144.60	3/4	1,756.28	3/4	1,367.96	3/4	979.64	3/4	605.45	3/4	218.72	3/4		3/4		3/4	
4	2,524.83	4	2,136.51	4	1,748.19	4	1,359.87	4	971.55	4	597.67	4	210.63	4		4		4	
1/4	2,516.74	1/4	2,128.42	1/4	1,740.10	1/4	1,351.78	1/4	963.46	1/4	589.89	1/4	202.55	1/4		1/4		1/4	
1/2	2,508.65	1/2	2,120.33	1/2	1,732.01	1/2	1,343.69	1/2	955.37	1/2	582.11	1/2	194.46	1/2		1/2		1/2	
3/4	2,500.56	3/4	2,112.24	3/4	1,723.92	3/4	1,335.60	3/4	947.43	3/4	574.18	3/4	186.37	3/4		3/4		3/4	
5	2,492.47	5	2,104.15	5	1,715.83	5	1,327.51	5	939.49	5	566.25	5	178.28	5		5		5	
1/4	2,484.38	1/4	2,096.06	1/4	1,707.74	1/4	1,319.42	1/4	931.55	1/4	558.31	1/4	170.19	1/4		1/4		1/4	
1/2	2,476.29	1/2	2,087.97	1/2	1,699.65	1/2	1,311.33	1/2	923.62	1/2	550.38	1/2	162.10	1/2		1/2		1/2	
3/4	2,468.20	3/4	2,079.88	3/4	1,691.56	3/4	1,303.24	3/4	915.84	3/4	542.29	3/4	154.01	3/4		3/4		3/4	
6	2,460.11	6	2,071.79	6	1,683.47	6	1,295.15	6	908.06	6	534.20	6	145.92	6		6		6	
1/4	2,452.02	1/4	2,063.70	1/4	1,675.38	1/4	1,287.06	1/4	900.28	1/4	526.11	1/4	137.83	1/4		1/4		1/4	
1/2	2,443.93	1/2	2,055.61	1/2	1,667.29	1/2	1,278.97	1/2	892.49	1/2	518.02	1/2	129.74	1/2		1/2		1/2	
3/4	2,435.84	3/4	2,047.52	3/4	1,659.20	3/4	1,270.88	3/4	884.73	3/4	509.93	3/4	121.65	3/4		3/4		3/4	
7	2,427.75	7	2,039.43	7	1,651.11	7	1,262.79	7	876.96	7	501.84	7	113.57	7		7		7	
1/4	2,419.66	1/4	2,031.34	1/4	1,643.02	1/4	1,254.70	1/4	869.20	1/4	493.75	1/4	105.48	1/4		1/4		1/4	
1/2	2,411.57	1/2	2,023.25	1/2	1,634.93	1/2	1,246.61	1/2	861.43	1/2	485.66	1/2	97.39	1/2		1/2		1/2	
3/4	2,403.48	3/4	2,015.16	3/4	1,626.84	3/4	1,238.52	3/4	853.67	3/4	477.57	3/4	89.30	3/4		3/4		3/4	
8	2,395.39	8	2,007.07	8	1,618.75	8	1,230.43	8	845.92	8	469.49	8	81.21	8		8		8	
1/4	2,387.30	1/4	1,998.98	1/4	1,610.66	1/4	1,222.34	1/4	838.16	1/4	461.40	1/4	73.12	1/4		1/4		1/4	
1/2	2,379.21	1/2	1,990.89	1/2	1,602.57	1/2	1,214.25	1/2	830.41	1/2	453.31	1/2	65.03	1/2		1/2		1/2	
3/4	2,371.12	3/4	1,982.80	3/4	1,594.48	3/4	1,206.16	3/4	822.65	3/4	445.22	3/4	57.95	3/4		3/4		3/4	
9	2,363.03	9	1,974.71	9	1,586.39	9	1,198.07	9	814.89	9	437.13	9	50.87	9		9		9	
1/4	2,354.94	1/4	1,966.62	1/4	1,578.30	1/4	1,189.98	1/4	807.14	1/4	429.04	1/4	43.79	1/4		1/4		1/4	
1/2	2,346.85	1/2	1,958.53	1/2	1,570.21	1/2	1,181.89	1/2	799.38	1/2	420.95	1/2	36.71	1/2		1/2		1/2	
3/4	2,338.76	3/4	1,950.44	3/4	1,562.12	3/4	1,173.80	3/4	791.63	3/4	412.86	3/4	31.66	3/4		3/4		3/4	
10	2,330.67	10	1,942.35	10	1,554.03	10	1,165.71	10	783.87	10	404.77	10	26.60	10		10		10	
1/4	2,322.58	1/4	1,934.26	1/4	1,545.94	1/4	1,157.62	1/4	776.12	1/4	396.68	1/4	21.55	1/4		1/4		1/4	
1/2	2,314.49	1/2	1,926.17	1/2	1,537.85	1/2	1,149.53	1/2	768.36	1/2	388.59	1/2	16.49	1/2		1/2		1/2	
3/4	2,306.40	3/4	1,918.08	3/4	1,529.76	3/4	1,141.44	3/4	760.60	3/4	380.51	3/4		3/4		3/4		3/4	
11	2,298.31	11	1,909.99	11	1,521.67	11	1,133.35	11	752.85	11	372.42	11		11		11		11	
1/4	2,290.22	1/4	1,901.90	1/4	1,513.58	1/4	1,125.26	1/4	745.09	1/4	364.33	1/4		1/4		1/4		1/4	
1/2	2,282.13	1/2	1,893.81	1/2	1,505.49	1/2	1,117.17	1/2	737.34	1/2	356.24	1/2		1/2		1/2		1/2	
3/4	2,274.04	3/4	1,885.72	3/4	1,497.40	3/4	1,109.08	3/4	729.58	3/4	348.15	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/17/2004 CL - SW
CALCULATED: 08/17/2004 CL
PRINTED: 08/17/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2004

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28033"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,618.97	0	4,352.59	0	4,089.69	0	3,813.59	0	3,525.47	0	3,196.47	0	2,835.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,614.36	1/4	4,347.25	1/4	4,084.07	1/4	3,807.72	1/4	3,519.35	1/4	3,188.95	1/4	2,827.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,608.23	1/2	4,341.89	1/2	4,078.42	1/2	3,801.82	1/2	3,513.22	1/2	3,181.43	1/2	2,820.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,602.10	3/4	4,336.53	3/4	4,072.78	3/4	3,795.93	3/4	3,507.09	3/4	3,173.91	3/4	2,812.91
1		1		1		1	4,595.97	1	4,331.17	1	4,067.14	1	3,790.04	1	3,500.96	1	3,166.39	1	2,805.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,589.84	1/4	4,325.81	1/4	4,061.50	1/4	3,784.15	1/4	3,494.83	1/4	3,158.87	1/4	2,797.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,583.71	1/2	4,320.44	1/2	4,055.83	1/2	3,778.24	1/2	3,488.70	1/2	3,151.35	1/2	2,790.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,577.58	3/4	4,315.06	3/4	4,050.17	3/4	3,772.32	3/4	3,482.57	3/4	3,143.83	3/4	2,782.83
2		2		2		2	4,571.45	2	4,309.68	2	4,044.51	2	3,766.40	2	3,476.44	2	3,136.31	2	2,775.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,565.32	1/4	4,304.31	1/4	4,038.85	1/4	3,760.49	1/4	3,470.31	1/4	3,128.79	1/4	2,767.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,559.18	1/2	4,298.91	1/2	4,033.16	1/2	3,754.55	1/2	3,464.18	1/2	3,121.27	1/2	2,760.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,553.05	3/4	4,293.52	3/4	4,027.47	3/4	3,748.62	3/4	3,458.05	3/4	3,113.74	3/4	2,752.74
3		3		3		3	4,546.92	3	4,288.12	3	4,021.79	3	3,742.69	3	3,451.92	3	3,106.22	3	2,745.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,540.79	1/4	4,282.72	1/4	4,016.10	1/4	3,736.75	1/4	3,445.79	1/4	3,098.70	1/4	2,737.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,534.66	1/2	4,277.30	1/2	4,010.39	1/2	3,730.80	1/2	3,439.52	1/2	3,091.18	1/2	2,730.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,528.53	3/4	4,271.88	3/4	4,004.69	3/4	3,724.84	3/4	3,433.25	3/4	3,083.66	3/4	2,722.65
4		4		4		4	4,522.40	4	4,266.46	4	3,998.98	4	3,718.89	4	3,426.98	4	3,076.14	4	2,715.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,516.27	1/4	4,261.04	1/4	3,993.28	1/4	3,712.94	1/4	3,420.71	1/4	3,068.62	1/4	2,707.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,510.14	1/2	4,255.60	1/2	3,987.56	1/2	3,706.96	1/2	3,414.17	1/2	3,061.10	1/2	2,700.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,505.81	3/4	4,250.16	3/4	3,981.83	3/4	3,700.98	3/4	3,407.62	3/4	3,053.58	3/4	2,692.56
5		5		5		5	4,500.58	5	4,244.73	5	3,976.11	5	3,695.01	5	3,401.07	5	3,046.06	5	2,685.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,495.35	1/4	4,239.29	1/4	3,970.38	1/4	3,689.03	1/4	3,394.52	1/4	3,038.54	1/4	2,677.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,490.10	1/2	4,233.83	1/2	3,964.64	1/2	3,683.03	1/2	3,387.70	1/2	3,031.02	1/2	2,669.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,484.85	3/4	4,228.37	3/4	3,958.89	3/4	3,677.04	3/4	3,380.87	3/4	3,023.50	3/4	2,662.47
6		6		6		6	4,479.60	6	4,222.91	6	3,953.14	6	3,671.04	6	3,374.05	6	3,015.98	6	2,654.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,474.35	1/4	4,217.45	1/4	3,947.39	1/4	3,665.05	1/4	3,367.22	1/4	3,008.46	1/4	2,647.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,469.09	1/2	4,211.97	1/2	3,941.62	1/2	3,659.02	1/2	3,360.12	1/2	3,000.93	1/2	2,639.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,463.82	3/4	4,206.49	3/4	3,935.86	3/4	3,653.00	3/4	3,353.02	3/4	2,993.41	3/4	2,632.38
7		7		7		7	4,458.55	7	4,201.01	7	3,930.09	7	3,646.98	7	3,345.91	7	2,985.89	7	2,624.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,453.28	1/4	4,195.53	1/4	3,924.32	1/4	3,640.95	1/4	3,338.81	1/4	2,978.37	1/4	2,617.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.99	1/2	4,190.03	1/2	3,918.54	1/2	3,634.91	1/2	3,331.43	1/2	2,970.85	1/2	2,609.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,442.70	3/4	4,184.52	3/4	3,912.75	3/4	3,628.88	3/4	3,324.05	3/4	2,963.33	3/4	2,602.29
8		8		8		8	4,437.41	8	4,179.02	8	3,906.96	8	3,622.84	8	3,316.66	8	2,955.81	8	2,594.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,432.12	1/4	4,173.52	1/4	3,901.18	1/4	3,616.80	1/4	3,309.28	1/4	2,948.29	1/4	2,587.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,426.85	1/2	4,167.97	1/2	3,895.37	1/2	3,610.74	1/2	3,301.76	1/2	2,940.77	1/2	2,579.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,421.57	3/4	4,162.41	3/4	3,889.56	3/4	3,604.68	3/4	3,294.24	3/4	2,933.25	3/4	2,572.20
9		9		9		9	4,416.30	9	4,156.85	9	3,883.75	9	3,598.62	9	3,286.72	9	2,925.73	9	2,564.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,411.03	1/4	4,151.29	1/4	3,877.94	1/4	3,592.57	1/4	3,279.20	1/4	2,918.21	1/4	2,557.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,405.73	1/2	4,145.71	1/2	3,872.11	1/2	3,586.48	1/2	3,271.68	1/2	2,910.69	1/2	2,549.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,400.44	3/4	4,140.13	3/4	3,866.28	3/4	3,580.40	3/4	3,264.16	3/4	2,903.17	3/4	2,542.11
10		10		10		10	4,395.15	10	4,134.55	10	3,860.45	10	3,574.31	10	3,256.64	10	2,895.64	10	2,534.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,389.86	1/4	4,128.97	1/4	3,854.62	1/4	3,568.23	1/4	3,249.12	1/4	2,888.12	1/4	2,527.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,384.54	1/2	4,123.37	1/2	3,848.77	1/2	3,562.13	1/2	3,241.60	1/2	2,880.60	1/2	2,519.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,379.23	3/4	4,117.77	3/4	3,842.91	3/4	3,556.03	3/4	3,234.08	3/4	2,873.08	3/4	2,512.03
11		11		11		11	4,373.91	11	4,112.17	11	3,837.06	11	3,549.93	11	3,226.56	11	2,865.56	11	2,504.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,368.59	1/4	4,106.57	1/4	3,831.20	1/4	3,543.83	1/4	3,219.03	1/4	2,858.04	1/4	2,496.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,363.26	1/2	4,100.95	1/2	3,825.33	1/2	3,537.71	1/2	3,211.51	1/2	2,850.52	1/2	2,489.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,623.57	3/4	4,357.92	3/4	4,095.32	3/4	3,819.46	3/4	3,531.59	3/4	3,203.99	3/4	2,481.94

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'-09" OFF CENTERLINE AND 40'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,474.41	0	2,113.35	0	1,752.28	0	1,391.22	0	1,030.43	0	669.90	0	308.84	0		0		0	
1/4	2,466.89	1/4	2,105.83	1/4	1,744.76	1/4	1,383.70	1/4	1,022.93	1/4	662.37	1/4	301.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,459.37	1/2	2,098.30	1/2	1,737.24	1/2	1,376.17	1/2	1,015.43	1/2	654.85	1/2	293.80	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,451.85	3/4	2,090.78	3/4	1,729.72	3/4	1,368.65	3/4	1,007.94	3/4	647.33	3/4	286.28	3/4	3/4	3/4	3/4	3/4	3/4
1	2,444.33	1	2,083.26	1	1,722.19	1	1,361.13	1	1,000.44	1	639.81	1	278.76	1		1		1	
1/4	2,436.80	1/4	2,075.74	1/4	1,714.67	1/4	1,353.61	1/4	992.94	1/4	632.29	1/4	271.23	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,429.28	1/2	2,068.22	1/2	1,707.15	1/2	1,346.08	1/2	985.44	1/2	624.76	1/2	263.71	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,421.76	3/4	2,060.69	3/4	1,699.63	3/4	1,338.56	3/4	977.95	3/4	617.24	3/4	256.19	3/4	3/4	3/4	3/4	3/4	3/4
2	2,414.24	2	2,053.17	2	1,692.11	2	1,331.04	2	970.45	2	609.72	2	248.67	2		2		2	
1/4	2,406.72	1/4	2,045.65	1/4	1,684.58	1/4	1,323.52	1/4	962.95	1/4	602.20	1/4	241.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,399.19	1/2	2,038.13	1/2	1,677.06	1/2	1,316.00	1/2	955.46	1/2	594.68	1/2	233.62	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,391.67	3/4	2,030.61	3/4	1,669.54	3/4	1,308.47	3/4	947.96	3/4	587.15	3/4	226.10	3/4	3/4	3/4	3/4	3/4	3/4
3	2,384.15	3	2,023.08	3	1,662.02	3	1,300.95	3	940.46	3	579.63	3	218.58	3		3		3	
1/4	2,376.63	1/4	2,015.56	1/4	1,654.50	1/4	1,293.43	1/4	932.96	1/4	572.11	1/4	211.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,369.10	1/2	2,008.04	1/2	1,646.97	1/2	1,285.91	1/2	925.47	1/2	564.59	1/2	203.54	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,361.58	3/4	2,000.52	3/4	1,639.45	3/4	1,278.39	3/4	917.97	3/4	557.07	3/4	196.02	3/4	3/4	3/4	3/4	3/4	3/4
4	2,354.06	4	1,992.99	4	1,631.93	4	1,270.86	4	910.47	4	549.54	4	188.49	4		4		4	
1/4	2,346.54	1/4	1,985.47	1/4	1,624.41	1/4	1,263.34	1/4	902.98	1/4	542.02	1/4	180.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,339.02	1/2	1,977.95	1/2	1,616.88	1/2	1,255.82	1/2	895.48	1/2	534.50	1/2	173.45	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,331.49	3/4	1,970.43	3/4	1,609.36	3/4	1,248.30	3/4	887.98	3/4	526.98	3/4	165.93	3/4	3/4	3/4	3/4	3/4	3/4
5	2,323.97	5	1,962.91	5	1,601.84	5	1,240.77	5	880.48	5	519.46	5	158.41	5		5		5	
1/4	2,316.45	1/4	1,955.38	1/4	1,594.32	1/4	1,233.25	1/4	872.99	1/4	511.94	1/4	150.88	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,308.93	1/2	1,947.86	1/2	1,586.80	1/2	1,225.73	1/2	865.46	1/2	504.41	1/2	143.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,301.40	3/4	1,940.34	3/4	1,579.27	3/4	1,218.21	3/4	857.94	3/4	496.89	3/4	135.84	3/4	3/4	3/4	3/4	3/4	3/4
6	2,293.88	6	1,932.82	6	1,571.75	6	1,210.69	6	850.42	6	489.37	6	128.32	6		6		6	
1/4	2,286.36	1/4	1,925.29	1/4	1,564.23	1/4	1,203.16	1/4	842.90	1/4	481.85	1/4	120.80	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,278.84	1/2	1,917.77	1/2	1,556.71	1/2	1,195.64	1/2	835.38	1/2	474.33	1/2	113.27	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,271.32	3/4	1,910.25	3/4	1,549.18	3/4	1,188.12	3/4	827.85	3/4	466.80	3/4	105.75	3/4	3/4	3/4	3/4	3/4	3/4
7	2,263.79	7	1,902.73	7	1,541.66	7	1,180.60	7	820.33	7	459.28	7	98.23	7		7		7	
1/4	2,256.27	1/4	1,895.21	1/4	1,534.14	1/4	1,173.07	1/4	812.81	1/4	451.76	1/4	90.71	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,248.75	1/2	1,887.68	1/2	1,526.62	1/2	1,165.55	1/2	805.29	1/2	444.24	1/2	83.19	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,241.23	3/4	1,880.16	3/4	1,519.10	3/4	1,158.03	3/4	797.77	3/4	436.72	3/4	75.66	3/4	3/4	3/4	3/4	3/4	3/4
8	2,233.70	8	1,872.64	8	1,511.57	8	1,150.51	8	790.25	8	429.19	8	68.14	8		8		8	
1/4	2,226.18	1/4	1,865.12	1/4	1,504.05	1/4	1,142.99	1/4	782.72	1/4	421.67	1/4	60.62	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,218.66	1/2	1,857.59	1/2	1,496.53	1/2	1,135.46	1/2	775.20	1/2	414.15	1/2	54.04	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,211.14	3/4	1,850.07	3/4	1,489.01	3/4	1,127.94	3/4	767.68	3/4	406.63	3/4	47.46	3/4	3/4	3/4	3/4	3/4	3/4
9	2,203.62	9	1,842.55	9	1,481.48	9	1,120.42	9	760.16	9	399.11	9	40.87	9		9		9	
1/4	2,196.09	1/4	1,835.03	1/4	1,473.96	1/4	1,112.90	1/4	752.64	1/4	391.58	1/4	34.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,188.57	1/2	1,827.51	1/2	1,466.44	1/2	1,105.40	1/2	745.11	1/2	384.06	1/2	29.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,181.05	3/4	1,819.98	3/4	1,458.92	3/4	1,097.90	3/4	737.59	3/4	376.54	3/4	24.89	3/4	3/4	3/4	3/4	3/4	3/4
10	2,173.53	10	1,812.46	10	1,451.40	10	1,090.41	10	730.07	10	369.02	10	20.19	10		10		10	
1/4	2,166.00	1/4	1,804.94	1/4	1,443.87	1/4	1,082.91	1/4	722.55	1/4	361.50	1/4	15.49	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,158.48	1/2	1,797.42	1/2	1,436.35	1/2	1,075.41	1/2	715.03	1/2	353.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,150.96	3/4	1,789.89	3/4	1,428.83	3/4	1,067.91	3/4	707.50	3/4	346.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,143.44	11	1,782.37	11	1,421.31	11	1,060.42	11	699.98	11	338.93	11		11		11		11	
1/4	2,135.92	1/4	1,774.85	1/4	1,413.78	1/4	1,052.92	1/4	692.46	1/4	331.41	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,128.39	1/2	1,767.33	1/2	1,406.26	1/2	1,045.42	1/2	684.94	1/2	323.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,120.87	3/4	1,759.81	3/4	1,398.74	3/4	1,037.92	3/4	677.42	3/4	316.37	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/17/2004 CL - SW
CALCULATED: 08/17/2004 CL
PRINTED: 08/17/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2004

PRECISION MEASUREMENT
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BARGE "KIRBY 28033"

3 STBD

ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,601.59	0	4,335.91	0	4,073.27	0	3,797.37	0	3,509.45	0	3,182.01	0	2,821.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,596.99	1/4	4,330.58	1/4	4,067.64	1/4	3,791.50	1/4	3,503.33	1/4	3,174.50	1/4	2,814.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,592.39	1/2	4,325.24	1/2	4,062.01	1/2	3,785.62	1/2	3,497.21	1/2	3,167.00	1/2	2,806.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,586.26	3/4	4,319.88	3/4	4,056.37	3/4	3,779.73	3/4	3,491.08	3/4	3,159.49	3/4	2,799.11
1		1		1		1	4,580.13	1	4,314.52	1	4,050.73	1	3,773.84	1	3,484.95	1	3,151.98	1	2,791.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,573.99	1/4	4,309.16	1/4	4,045.08	1/4	3,767.95	1/4	3,478.82	1/4	3,144.47	1/4	2,784.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,567.86	1/2	4,303.80	1/2	4,039.44	1/2	3,762.05	1/2	3,472.69	1/2	3,136.96	1/2	2,776.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,561.73	3/4	4,298.42	3/4	4,033.78	3/4	3,756.14	3/4	3,466.56	3/4	3,129.46	3/4	2,769.07
2		2		2		2	4,555.60	2	4,293.04	2	4,028.11	2	3,750.22	2	3,460.43	2	3,121.95	2	2,761.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,549.47	1/4	4,287.67	1/4	4,022.45	1/4	3,744.30	1/4	3,454.30	1/4	3,114.44	1/4	2,754.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,543.33	1/2	4,282.29	1/2	4,016.79	1/2	3,738.39	1/2	3,448.16	1/2	3,106.93	1/2	2,746.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,537.20	3/4	4,276.89	3/4	4,011.10	3/4	3,732.45	3/4	3,442.03	3/4	3,099.42	3/4	2,739.03
3		3		3		3	4,531.07	3	4,271.49	3	4,005.41	3	3,726.52	3	3,435.90	3	3,091.92	3	2,731.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,524.94	1/4	4,266.10	1/4	3,999.72	1/4	3,720.58	1/4	3,429.77	1/4	3,084.41	1/4	2,724.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,518.81	1/2	4,260.70	1/2	3,994.04	1/2	3,714.65	1/2	3,423.64	1/2	3,076.90	1/2	2,716.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,512.67	3/4	4,255.28	3/4	3,988.33	3/4	3,708.69	3/4	3,417.37	3/4	3,069.39	3/4	2,709.00
4		4		4		4	4,506.54	4	4,249.86	4	3,982.63	4	3,702.74	4	3,411.10	4	3,061.89	4	2,701.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,500.41	1/4	4,244.44	1/4	3,976.92	1/4	3,696.79	1/4	3,404.83	1/4	3,054.38	1/4	2,693.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,494.28	1/2	4,239.01	1/2	3,971.21	1/2	3,690.83	1/2	3,398.56	1/2	3,046.87	1/2	2,686.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,489.05	3/4	4,233.58	3/4	3,965.49	3/4	3,684.85	3/4	3,392.01	3/4	3,039.36	3/4	2,678.96
5		5		5		5	4,483.82	5	4,228.14	5	3,959.76	5	3,678.87	5	3,385.47	5	3,031.85	5	2,671.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,478.59	1/4	4,222.70	1/4	3,954.04	1/4	3,672.90	1/4	3,378.92	1/4	3,024.35	1/4	2,663.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,473.35	1/2	4,217.26	1/2	3,948.31	1/2	3,666.92	1/2	3,372.37	1/2	3,016.84	1/2	2,656.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,468.11	3/4	4,211.80	3/4	3,942.56	3/4	3,660.92	3/4	3,365.54	3/4	3,009.33	3/4	2,648.93
6		6		6		6	4,462.86	6	4,206.34	6	3,936.82	6	3,654.92	6	3,358.72	6	3,001.82	6	2,641.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,457.61	1/4	4,200.88	1/4	3,931.07	1/4	3,648.93	1/4	3,351.89	1/4	2,994.31	1/4	2,633.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,452.36	1/2	4,195.42	1/2	3,925.32	1/2	3,642.93	1/2	3,345.06	1/2	2,986.81	1/2	2,626.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,447.09	3/4	4,189.94	3/4	3,919.55	3/4	3,636.91	3/4	3,337.96	3/4	2,979.30	3/4	2,618.89
7		7		7		7	4,441.82	7	4,184.46	7	3,913.78	7	3,630.88	7	3,330.85	7	2,971.79	7	2,611.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,436.55	1/4	4,178.97	1/4	3,908.01	1/4	3,624.86	1/4	3,323.75	1/4	2,964.28	1/4	2,603.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,431.29	1/2	4,173.49	1/2	3,902.25	1/2	3,618.84	1/2	3,316.65	1/2	2,956.77	1/2	2,596.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,425.99	3/4	4,167.99	3/4	3,896.46	3/4	3,612.80	3/4	3,309.26	3/4	2,949.27	3/4	2,588.85
8		8		8		8	4,420.70	8	4,162.49	8	3,890.67	8	3,606.76	8	3,301.88	8	2,941.76	8	2,581.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,415.41	1/4	4,156.98	1/4	3,884.89	1/4	3,600.72	1/4	3,294.50	1/4	2,934.25	1/4	2,573.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,410.12	1/2	4,151.48	1/2	3,879.10	1/2	3,594.68	1/2	3,287.12	1/2	2,926.74	1/2	2,566.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,404.84	3/4	4,145.93	3/4	3,873.29	3/4	3,588.62	3/4	3,279.61	3/4	2,919.24	3/4	2,558.82
9		9		9		9	4,399.57	9	4,140.37	9	3,867.48	9	3,582.56	9	3,272.11	9	2,911.73	9	2,551.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,394.30	1/4	4,134.81	1/4	3,861.67	1/4	3,576.50	1/4	3,264.60	1/4	2,904.22	1/4	2,543.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,389.02	1/2	4,129.25	1/2	3,855.86	1/2	3,570.44	1/2	3,257.09	1/2	2,896.71	1/2	2,536.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,383.73	3/4	4,123.67	3/4	3,850.03	3/4	3,564.36	3/4	3,249.58	3/4	2,889.20	3/4	2,528.78
10		10		10		10	4,378.44	10	4,118.09	10	3,844.20	10	3,558.27	10	3,242.07	10	2,881.70	10	2,521.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,373.14	1/4	4,112.51	1/4	3,838.37	1/4	3,552.19	1/4	3,234.57	1/4	2,874.19	1/4	2,513.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,367.85	1/2	4,106.93	1/2	3,832.54	1/2	3,546.10	1/2	3,227.06	1/2	2,866.68	1/2	2,506.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,362.53	3/4	4,101.32	3/4	3,826.68	3/4	3,540.00	3/4	3,219.55	3/4	2,859.17	3/4	2,498.74
11		11		11		11	4,357.22	11	4,095.72	11	3,820.82	11	3,533.90	11	3,212.04	11	2,851.66	11	2,491.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,351.90	1/4	4,090.12	1/4	3,814.97	1/4	3,527.80	1/4	3,204.54	1/4	2,844.16	1/4	2,483.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,346.58	1/2	4,084.52	1/2	3,809.11	1/2	3,521.69	1/2	3,197.03	1/2	2,836.65	1/2	2,476.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,341.25	3/4	4,078.90	3/4	3,803.24	3/4	3,515.57	3/4	3,189.52	3/4	2,829.14	3/4	2,468.71

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'-09" OFF CENTERLINE AND 40'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28033"

3 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,461.21	0	2,100.82	0	1,743.37	0	1,383.02	0	1,026.16	0	672.94	0	316.23	0		0		0	
1/4	2,453.70	1/4	2,093.31	1/4	1,735.93	1/4	1,375.51	1/4	1,018.79	1/4	665.59	1/4	308.72	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,446.19	1/2	2,085.80	1/2	1,728.48	1/2	1,368.00	1/2	1,011.43	1/2	658.25	1/2	301.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,438.69	3/4	2,078.36	3/4	1,720.97	3/4	1,360.49	3/4	1,004.06	3/4	650.91	3/4	293.70	3/4	3/4	3/4	3/4	3/4	3/4
1	2,431.18	1	2,070.92	1	1,713.46	1	1,352.98	1	996.69	1	643.57	1	286.19	1		1		1	
1/4	2,423.68	1/4	2,063.47	1/4	1,705.95	1/4	1,345.47	1/4	989.33	1/4	636.23	1/4	278.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,416.17	1/2	2,056.03	1/2	1,698.44	1/2	1,337.96	1/2	981.96	1/2	628.88	1/2	271.17	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,408.67	3/4	2,048.58	3/4	1,690.93	3/4	1,330.45	3/4	974.59	3/4	621.54	3/4	263.66	3/4	3/4	3/4	3/4	3/4	3/4
2	2,401.16	2	2,041.14	2	1,683.42	2	1,322.94	2	967.23	2	614.20	2	256.14	2		2		2	
1/4	2,393.66	1/4	2,033.69	1/4	1,675.91	1/4	1,315.43	1/4	959.86	1/4	606.86	1/4	248.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,386.15	1/2	2,026.25	1/2	1,668.40	1/2	1,307.92	1/2	952.49	1/2	599.52	1/2	241.12	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,378.64	3/4	2,018.81	3/4	1,660.89	3/4	1,300.41	3/4	945.13	3/4	592.17	3/4	233.61	3/4	3/4	3/4	3/4	3/4	3/4
3	2,371.14	3	2,011.36	3	1,653.38	3	1,292.90	3	937.76	3	584.83	3	226.10	3		3		3	
1/4	2,363.63	1/4	2,003.92	1/4	1,645.87	1/4	1,285.39	1/4	930.39	1/4	577.49	1/4	218.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,356.13	1/2	1,996.47	1/2	1,638.36	1/2	1,277.88	1/2	923.03	1/2	570.15	1/2	211.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,348.62	3/4	1,989.03	3/4	1,630.85	3/4	1,270.37	3/4	915.66	3/4	562.79	3/4	203.56	3/4	3/4	3/4	3/4	3/4	3/4
4	2,341.12	4	1,981.59	4	1,623.34	4	1,262.86	4	908.29	4	555.44	4	196.03	4		4		4	
1/4	2,333.61	1/4	1,974.14	1/4	1,615.83	1/4	1,255.35	1/4	900.93	1/4	548.08	1/4	188.51	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,326.11	1/2	1,966.70	1/2	1,608.32	1/2	1,247.84	1/2	893.56	1/2	540.73	1/2	180.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,318.60	3/4	1,959.25	3/4	1,600.81	3/4	1,240.33	3/4	886.20	3/4	533.36	3/4	173.46	3/4	3/4	3/4	3/4	3/4	3/4
5	2,311.10	5	1,951.81	5	1,593.30	5	1,232.82	5	878.83	5	525.99	5	165.94	5		5		5	
1/4	2,303.59	1/4	1,944.36	1/4	1,585.79	1/4	1,225.31	1/4	871.46	1/4	518.62	1/4	158.42	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,296.08	1/2	1,936.92	1/2	1,578.28	1/2	1,217.80	1/2	864.10	1/2	511.25	1/2	150.90	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,288.57	3/4	1,929.48	3/4	1,570.77	3/4	1,210.43	3/4	856.72	3/4	503.80	3/4	143.37	3/4	3/4	3/4	3/4	3/4	3/4
6	2,281.06	6	1,922.03	6	1,563.26	6	1,203.06	6	849.35	6	496.36	6	135.85	6		6		6	
1/4	2,273.55	1/4	1,914.59	1/4	1,555.75	1/4	1,195.68	1/4	841.98	1/4	488.92	1/4	128.33	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,266.04	1/2	1,907.14	1/2	1,548.24	1/2	1,188.31	1/2	834.60	1/2	481.47	1/2	120.81	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,258.53	3/4	1,899.70	3/4	1,540.73	3/4	1,180.93	3/4	827.23	3/4	473.96	3/4	113.28	3/4	3/4	3/4	3/4	3/4	3/4
7	2,251.02	7	1,892.25	7	1,533.22	7	1,173.56	7	819.86	7	466.45	7	105.76	7		7		7	
1/4	2,243.51	1/4	1,884.81	1/4	1,525.71	1/4	1,166.19	1/4	812.49	1/4	458.94	1/4	98.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,236.00	1/2	1,877.37	1/2	1,518.20	1/2	1,158.81	1/2	805.12	1/2	451.43	1/2	90.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,228.49	3/4	1,869.92	3/4	1,510.69	3/4	1,151.44	3/4	797.77	3/4	443.92	3/4	83.19	3/4	3/4	3/4	3/4	3/4	3/4
8	2,220.98	8	1,862.48	8	1,503.18	8	1,144.07	8	790.42	8	436.41	8	75.67	8		8		8	
1/4	2,213.47	1/4	1,855.03	1/4	1,495.67	1/4	1,136.69	1/4	783.06	1/4	428.90	1/4	68.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,205.96	1/2	1,847.59	1/2	1,488.16	1/2	1,129.32	1/2	775.71	1/2	421.39	1/2	60.62	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,198.45	3/4	1,840.15	3/4	1,480.65	3/4	1,121.95	3/4	768.37	3/4	413.88	3/4	54.04	3/4	3/4	3/4	3/4	3/4	3/4
9	2,190.94	9	1,832.70	9	1,473.14	9	1,114.57	9	761.03	9	406.36	9	47.46	9		9		9	
1/4	2,183.43	1/4	1,825.26	1/4	1,465.63	1/4	1,107.20	1/4	753.69	1/4	398.85	1/4	40.88	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,175.92	1/2	1,817.81	1/2	1,458.12	1/2	1,099.83	1/2	746.35	1/2	391.34	1/2	34.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,168.41	3/4	1,810.37	3/4	1,450.61	3/4	1,092.46	3/4	739.01	3/4	383.83	3/4	29.59	3/4	3/4	3/4	3/4	3/4	3/4
10	2,160.90	10	1,802.92	10	1,443.10	10	1,085.09	10	731.67	10	376.32	10	24.89	10		10		10	
1/4	2,153.39	1/4	1,795.48	1/4	1,435.59	1/4	1,077.73	1/4	724.33	1/4	368.81	1/4	20.19	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,145.88	1/2	1,788.04	1/2	1,428.08	1/2	1,070.36	1/2	716.99	1/2	361.30	1/2	15.49	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,138.37	3/4	1,780.59	3/4	1,420.57	3/4	1,062.99	3/4	709.65	3/4	353.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,130.86	11	1,773.15	11	1,413.06	11	1,055.63	11	702.30	11	346.28	11		11		11		11	
1/4	2,123.35	1/4	1,765.70	1/4	1,405.55	1/4	1,048.26	1/4	694.96	1/4	338.77	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,115.84	1/2	1,758.26	1/2	1,398.04	1/2	1,040.89	1/2	687.62	1/2	331.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,108.33	3/4	1,750.82	3/4	1,390.53	3/4	1,033.53	3/4	680.28	3/4	323.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/17/2004 CL - SW
CALCULATED: 08/17/2004 CL
PRINTED: 08/17/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2004

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