



KIRBY 28032



Barge Strapping Tables





BARGE "KIRBY 28032"

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	-00-5/8	00-5/8	-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	-00-5/8	00-5/8	-00-3/4	00-3/4	-00-7/8	00-7/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

$$\begin{aligned}
 \text{FWD. DRAFT} &= 2'-00'' \\
 \text{AFT DRAFT} &= 4'-00'' \\
 \text{DIFF.} &= 2'-00'' \quad (\text{DOWN BY STERN})
 \end{aligned}$$

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"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 12, 2004

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

<http://www.pmacorp.net>



BARGE "KIRBY 28032"

1 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.	
N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W
0	2,126.86	0	1,795.46	0	1,464.05	0	1,132.64	0	807.13	0	503.67	0	223.45	0		0		0	
1/4	2,119.96	1/4	1,788.55	1/4	1,457.15	1/4	1,125.74	1/4	800.57	1/4	497.48	1/4	217.86	1/4		1/4		1/4	
1/2	2,113.05	1/2	1,781.65	1/2	1,450.24	1/2	1,118.84	1/2	794.03	1/2	491.42	1/2	212.28	1/2		1/2		1/2	
3/4	2,106.15	3/4	1,774.74	3/4	1,443.34	3/4	1,111.93	3/4	787.51	3/4	485.37	3/4	206.73	3/4		3/4		3/4	
1	2,099.25	1	1,767.84	1	1,436.43	1	1,105.03	1	780.99	1	479.33	1	201.18	1		1		1	
1/4	2,092.34	1/4	1,760.94	1/4	1,429.53	1/4	1,098.12	1/4	774.47	1/4	473.26	1/4	195.63	1/4		1/4		1/4	
1/2	2,085.44	1/2	1,754.03	1/2	1,422.62	1/2	1,091.22	1/2	767.97	1/2	467.26	1/2	190.09	1/2		1/2		1/2	
3/4	2,078.53	3/4	1,747.13	3/4	1,415.72	3/4	1,084.32	3/4	761.48	3/4	461.25	3/4	184.58	3/4		3/4		3/4	
1	2,071.63	1	1,740.22	1	1,408.82	1	1,077.41	1	755.00	1	455.25	1	179.06	1		1		1	
1/4	2,064.72	1/4	1,733.32	1/4	1,401.91	1/4	1,070.51	1/4	748.52	1/4	449.24	1/4	173.54	1/4		1/4		1/4	
1/2	2,057.82	1/2	1,726.41	1/2	1,395.01	1/2	1,063.61	1/2	742.05	1/2	443.26	1/2	168.05	1/2		1/2		1/2	
3/4	2,050.92	3/4	1,719.51	3/4	1,388.10	3/4	1,056.71	3/4	735.60	3/4	437.30	3/4	162.58	3/4		3/4		3/4	
1	2,044.01	1	1,712.61	1	1,381.20	1	1,049.82	1	729.15	1	431.33	1	157.11	1		1		1	
1/4	2,037.11	1/4	1,705.70	1/4	1,374.29	1/4	1,042.92	1/4	722.69	1/4	425.37	1/4	151.64	1/4		1/4		1/4	
1/2	2,030.20	1/2	1,698.80	1/2	1,367.39	1/2	1,036.04	1/2	716.26	1/2	419.43	1/2	146.19	1/2		1/2		1/2	
3/4	2,023.30	3/4	1,691.89	3/4	1,360.49	3/4	1,029.16	3/4	709.84	3/4	413.50	3/4	140.75	3/4		3/4		3/4	
1	2,016.39	1	1,684.99	1	1,353.58	1	1,022.28	1	703.43	1	407.58	1	135.32	1		1		1	
1/4	2,009.49	1/4	1,678.08	1/4	1,346.68	1/4	1,015.40	1/4	697.01	1/4	401.65	1/4	129.88	1/4		1/4		1/4	
1/2	2,002.59	1/2	1,671.18	1/2	1,339.77	1/2	1,008.53	1/2	690.62	1/2	395.76	1/2	124.47	1/2		1/2		1/2	
3/4	1,995.68	3/4	1,664.28	3/4	1,332.87	3/4	1,001.68	3/4	684.24	3/4	389.87	3/4	119.09	3/4		3/4		3/4	
1	1,988.78	1	1,657.37	1	1,325.96	1	994.82	1	677.87	1	383.99	1	113.70	1		1		1	
1/4	1,981.87	1/4	1,650.47	1/4	1,319.06	1/4	987.96	1/4	671.50	1/4	378.11	1/4	108.31	1/4		1/4		1/4	
1/2	1,974.97	1/2	1,643.56	1/2	1,312.16	1/2	981.13	1/2	665.15	1/2	372.25	1/2	102.94	1/2		1/2		1/2	
3/4	1,968.06	3/4	1,636.66	3/4	1,305.25	3/4	974.30	3/4	658.81	3/4	366.41	3/4	97.60	3/4		3/4		3/4	
1	1,961.16	1	1,629.75	1	1,298.35	1	967.48	1	652.48	1	360.57	1	92.25	1		1		1	
1/4	1,954.26	1/4	1,622.85	1/4	1,291.44	1/4	960.66	1/4	646.15	1/4	354.72	1/4	86.90	1/4		1/4		1/4	
1/2	1,947.35	1/2	1,615.94	1/2	1,284.54	1/2	953.86	1/2	639.83	1/2	348.90	1/2	81.57	1/2		1/2		1/2	
3/4	1,940.45	3/4	1,609.04	3/4	1,277.63	3/4	947.09	3/4	633.54	3/4	343.10	3/4	76.27	3/4		3/4		3/4	
1	1,933.54	1	1,602.14	1	1,270.73	1	940.33	1	627.25	1	337.31	1	70.96	1		1		1	
1/4	1,926.64	1/4	1,595.23	1/4	1,263.83	1/4	933.56	1/4	620.96	1/4	331.51	1/4	65.68	1/4		1/4		1/4	
1/2	1,919.73	1/2	1,588.33	1/2	1,256.92	1/2	926.81	1/2	614.69	1/2	325.73	1/2	60.37	1/2		1/2		1/2	
3/4	1,912.83	3/4	1,581.42	3/4	1,250.02	3/4	920.09	3/4	608.44	3/4	319.97	3/4	55.11	3/4		3/4		3/4	
1	1,905.93	1	1,574.52	1	1,243.11	1	913.36	1	602.19	1	314.21	1	49.84	1		1		1	
1/4	1,899.02	1/4	1,567.61	1/4	1,236.21	1/4	906.63	1/4	595.94	1/4	308.45	1/4	44.57	1/4		1/4		1/4	
1/2	1,892.12	1/2	1,560.71	1/2	1,229.30	1/2	899.93	1/2	589.71	1/2	302.71	1/2	39.76	1/2		1/2		1/2	
3/4	1,885.21	3/4	1,553.81	3/4	1,222.40	3/4	893.24	3/4	583.50	3/4	296.99	3/4	35.40	3/4		3/4		3/4	
1	1,878.31	1	1,546.90	1	1,215.50	1	886.56	1	577.29	1	291.27	1	31.05	1		1		1	
1/4	1,871.40	1/4	1,540.00	1/4	1,208.59	1/4	879.87	1/4	571.08	1/4	285.56	1/4	26.69	1/4		1/4		1/4	
1/2	1,864.50	1/2	1,533.09	1/2	1,201.69	1/2	873.21	1/2	564.89	1/2	279.86	1/2	23.21	1/2		1/2		1/2	
3/4	1,857.60	3/4	1,526.19	3/4	1,194.78	3/4	866.57	3/4	558.72	3/4	274.18	3/4	20.62	3/4		3/4		3/4	
1	1,850.69	1	1,519.28	1	1,187.88	1	859.92	1	552.55	1	268.50	1	18.02	1		1		1	
1/4	1,843.79	1/4	1,512.38	1/4	1,180.97	1/4	853.28	1/4	546.38	1/4	262.82	1/4	15.43	1/4		1/4		1/4	
1/2	1,836.88	1/2	1,505.48	1/2	1,174.07	1/2	846.66	1/2	540.24	1/2	257.17	1/2	14.13	1/2		1/2		1/2	
3/4	1,829.98	3/4	1,498.57	3/4	1,167.17	3/4	840.05	3/4	534.11	3/4	251.53	3/4		3/4		3/4		3/4	
1	1,823.07	1	1,491.67	1	1,160.26	1	833.45	1	527.98	1	245.90	1		1		1		1	
1/4	1,816.17	1/4	1,484.76	1/4	1,153.36	1/4	826.84	1/4	521.85	1/4	240.26	1/4		1/4		1/4		1/4	
1/2	1,809.27	1/2	1,477.86	1/2	1,146.45	1/2	820.26	1/2	515.75	1/2	234.66	1/2		1/2		1/2		1/2	
3/4	1,802.36	3/4	1,470.95	3/4	1,139.55	3/4	813.70	3/4	509.66	3/4	229.05	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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STRAPPED: 07/12/2004 CL - SW
CALCULATED: 07/12/2004 CL
PRINTED: 07/12/2004 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2004



BARGE "KIRBY 28032"

1 STBD 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	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	0	4,350.12	0	4,050.45	0	3,754.29	0	3,443.49	0	3,119.16	0	2,787.84	0	2,456.49	0	2,125.14	0	1,793.79	0
1/2	1/4	4,344.34	1/4	4,044.43	1/4	3,747.95	1/4	3,436.88	1/4	3,112.27	1/4	2,780.93	1/4	2,449.59	1/4	2,118.24	1/4	1,786.90	1/4
3/4	1/2	4,338.89	1/2	4,038.40	1/2	3,741.61	1/2	3,430.25	1/2	3,105.37	1/2	2,774.03	1/2	2,442.68	1/2	2,110.33	1/2	1,778.99	1/2
1	3/4	4,331.99	3/4	4,032.36	3/4	3,735.25	3/4	3,423.62	3/4	3,098.47	3/4	2,767.13	3/4	2,435.78	3/4	2,103.44	3/4	1,772.10	3/4
1 1/4	1	4,325.09	1	4,026.32	1	3,728.90	1	3,416.99	1	3,091.57	1	2,760.22	1	2,428.88	1	2,096.95	1	1,765.26	1
1 1/2	1 1/4	4,318.18	1 1/4	4,020.27	1 1/4	3,722.55	1 1/4	3,410.35	1 1/4	3,084.66	1 1/4	2,753.32	1 1/4	2,421.97	1 1/4	2,090.02	1 1/4	1,758.31	1 1/4
1 3/4	1 1/2	4,311.28	1 1/2	4,014.22	1 1/2	3,716.18	1 1/2	3,403.70	1 1/2	3,077.76	1 1/2	2,746.42	1 1/2	2,415.07	1 1/2	2,085.57	1 1/2	1,751.41	1 1/2
2	1 3/4	4,304.37	2	4,008.16	2	3,709.80	2	3,397.04	2	3,070.86	2	2,739.51	2	2,408.16	2	2,078.62	2	1,744.55	2
2 1/4	2	4,297.47	2 1/4	4,002.09	2 1/4	3,703.43	2 1/4	3,390.38	2 1/4	3,063.96	2 1/4	2,732.61	2 1/4	2,401.26	2 1/4	2,071.71	2 1/4	1,737.60	2 1/4
2 1/2	2 1/4	4,290.57	2 1/2	3,996.03	2 1/2	3,697.05	2 1/2	3,383.72	2 1/2	3,057.05	2 1/2	2,725.71	2 1/2	2,394.35	2 1/2	2,067.26	2 1/2	1,733.50	2 1/2
2 3/4	2 1/2	4,283.66	2 3/4	3,989.96	2 3/4	3,690.66	2 3/4	3,377.04	2 3/4	3,050.15	2 3/4	2,718.81	2 3/4	2,387.45	2 3/4	2,063.11	2 3/4	1,729.35	2 3/4
3	2 3/4	4,276.76	3	3,983.87	3	3,684.26	3	3,370.36	3	3,043.25	3	2,711.90	3	2,380.55	3	2,059.00	3	1,725.20	3
3 1/4	3	4,269.85	3 1/4	3,977.79	3 1/4	3,677.85	3 1/4	3,363.68	3 1/4	3,036.34	3 1/4	2,705.00	3 1/4	2,373.64	3 1/4	2,054.85	3 1/4	1,721.05	3 1/4
3 1/2	3 1/4	4,262.95	3 1/2	3,971.70	3 1/2	3,671.45	3 1/2	3,357.00	3 1/2	3,029.44	3 1/2	2,698.10	3 1/2	2,369.74	3 1/2	2,050.70	3 1/2	1,716.90	3 1/2
3 3/4	3 1/2	4,256.04	3 3/4	3,965.61	3 3/4	3,665.03	3 3/4	3,350.30	3 3/4	3,022.54	3 3/4	2,691.19	3 3/4	2,359.83	3 3/4	2,046.55	3 3/4	1,712.75	3 3/4
4	3 3/4	4,249.14	4	3,959.49	4	3,658.61	4	3,343.60	4	3,015.63	4	2,684.29	4	2,352.93	4	2,042.40	4	1,708.60	4
4 1/4	4	4,242.24	4 1/4	3,953.38	4 1/4	3,652.18	4 1/4	3,336.89	4 1/4	3,008.73	4 1/4	2,677.39	4 1/4	2,346.02	4 1/4	2,038.25	4 1/4	1,704.45	4 1/4
4 1/2	4 1/4	4,235.33	4 1/2	3,947.27	4 1/2	3,645.76	4 1/2	3,330.19	4 1/2	3,001.83	4 1/2	2,670.48	4 1/2	2,339.12	4 1/2	2,034.10	4 1/2	1,700.30	4 1/2
4 3/4	4 1/2	4,228.93	4 3/4	3,941.15	4 3/4	3,639.32	4 3/4	3,323.47	4 3/4	2,994.93	4 3/4	2,663.58	4 3/4	2,332.22	4 3/4	2,029.95	4 3/4	1,696.15	4 3/4
5	4 3/4	4,223.04	5	3,935.01	5	3,632.88	5	3,316.74	5	2,988.02	5	2,656.68	5	2,325.31	5	2,025.80	5	1,692.00	5
5 1/4	5	4,217.15	5 1/4	3,928.88	5 1/4	3,626.43	5 1/4	3,310.01	5 1/4	2,981.12	5 1/4	2,649.78	5 1/4	2,318.41	5 1/4	2,021.65	5 1/4	1,687.85	5 1/4
5 1/2	5 1/4	4,211.27	5 1/2	3,922.75	5 1/2	3,619.98	5 1/2	3,303.28	5 1/2	2,974.22	5 1/2	2,642.87	5 1/2	2,311.50	5 1/2	2,017.50	5 1/2	1,683.70	5 1/2
5 3/4	5 1/2	4,205.37	5 3/4	3,916.60	5 3/4	3,613.52	5 3/4	3,296.54	5 3/4	2,967.31	5 3/4	2,635.97	5 3/4	2,304.60	5 3/4	2,013.35	5 3/4	1,679.55	5 3/4
6	5 3/4	4,199.46	6	3,910.45	6	3,607.05	6	3,289.78	6	2,960.41	6	2,629.07	6	2,297.69	6	2,009.20	6	1,675.40	6
6 1/4	6	4,193.55	6 1/4	3,904.30	6 1/4	3,600.58	6 1/4	3,283.03	6 1/4	2,953.51	6 1/4	2,622.16	6 1/4	2,290.79	6 1/4	2,005.05	6 1/4	1,671.25	6 1/4
6 1/2	6 1/4	4,187.64	6 1/2	3,898.14	6 1/2	3,594.10	6 1/2	3,276.28	6 1/2	2,946.60	6 1/2	2,615.26	6 1/2	2,283.89	6 1/2	2,000.90	6 1/2	1,667.10	6 1/2
6 3/4	6 1/2	4,181.71	6 3/4	3,891.97	6 3/4	3,587.62	6 3/4	3,269.51	6 3/4	2,939.70	6 3/4	2,608.36	6 3/4	2,276.98	6 3/4	1,996.75	6 3/4	1,662.95	6 3/4
7	6 3/4	4,175.78	7	3,885.79	7	3,581.13	7	3,262.73	7	2,932.80	7	2,601.45	7	2,270.08	7	1,992.60	7	1,658.80	7
7 1/4	7	4,169.85	7 1/4	3,879.61	7 1/4	3,574.63	7 1/4	3,255.95	7 1/4	2,925.90	7 1/4	2,594.55	7 1/4	2,263.17	7 1/4	1,988.45	7 1/4	1,654.65	7 1/4
7 1/2	7 1/4	4,163.92	7 1/2	3,873.43	7 1/2	3,568.14	7 1/2	3,249.16	7 1/2	2,918.99	7 1/2	2,587.65	7 1/2	2,256.27	7 1/2	1,984.30	7 1/2	1,650.50	7 1/2
7 3/4	7 1/2	4,157.97	7 3/4	3,867.24	7 3/4	3,561.63	7 3/4	3,242.37	7 3/4	2,912.09	7 3/4	2,580.75	7 3/4	2,249.36	7 3/4	1,980.15	7 3/4	1,646.35	7 3/4
8	7 3/4	4,152.02	8	3,861.03	8	3,555.12	8	3,235.57	8	2,905.19	8	2,573.84	8	2,242.46	8	1,976.00	8	1,642.20	8
8 1/4	8	4,146.06	8 1/4	3,854.83	8 1/4	3,548.60	8 1/4	3,228.77	8 1/4	2,898.28	8 1/4	2,566.94	8 1/4	2,235.56	8 1/4	1,971.85	8 1/4	1,638.05	8 1/4
8 1/2	8 1/4	4,140.10	8 1/2	3,848.63	8 1/2	3,542.08	8 1/2	3,221.97	8 1/2	2,891.38	8 1/2	2,560.04	8 1/2	2,228.65	8 1/2	1,967.70	8 1/2	1,633.90	8 1/2
8 3/4	8 1/2	4,134.15	8 3/4	3,842.40	8 3/4	3,535.55	8 3/4	3,215.16	8 3/4	2,884.48	8 3/4	2,553.13	8 3/4	2,221.75	8 3/4	1,963.55	8 3/4	1,629.75	8 3/4
9	8 3/4	4,128.20	9	3,836.14	9	3,529.01	9	3,208.34	9	2,877.57	9	2,546.23	9	2,214.84	9	1,959.60	9	1,625.60	9
9 1/4	9	4,122.25	9 1/4	3,829.88	9 1/4	3,522.47	9 1/4	3,201.51	9 1/4	2,870.67	9 1/4	2,539.33	9 1/4	2,207.94	9 1/4	1,955.45	9 1/4	1,621.45	9 1/4
9 1/2	9 1/4	4,116.31	9 1/2	3,823.62	9 1/2	3,515.93	9 1/2	3,194.69	9 1/2	2,863.77	9 1/2	2,532.42	9 1/2	2,201.03	9 1/2	1,951.30	9 1/2	1,617.30	9 1/2
9 3/4	9 1/2	4,110.35	9 3/4	3,817.35	9 3/4	3,509.37	9 3/4	3,187.86	9 3/4	2,856.87	9 3/4	2,525.52	9 3/4	2,194.13	9 3/4	1,947.15	9 3/4	1,613.15	9 3/4
10	9 3/4	4,104.38	10	3,811.07	10	3,502.81	10	3,181.00	10	2,849.96	10	2,518.62	10	2,187.23	10	1,943.00	10	1,609.00	10
10 1/4	10	4,098.42	10 1/4	3,804.78	10 1/4	3,496.24	10 1/4	3,174.15	10 1/4	2,843.06	10 1/4	2,511.72	10 1/4	2,180.32	10 1/4	1,938.85	10 1/4	1,604.85	10 1/4
10 1/2	10 1/4	4,092.45	10 1/2	3,798.50	10 1/2	3,489.68	10 1/2	3,167.30	10 1/2	2,836.16	10 1/2	2,504.81	10 1/2	2,173.42	10 1/2	1,934.70	10 1/2	1,600.70	10 1/2
10 3/4	10 1/2	4,086.47	10 3/4	3,792.20	10 3/4	3,483.10	10 3/4	3,160.44	10 3/4	2,829.25	10 3/4	2,497.91	10 3/4	2,166.51	10 3/4	1,930.55	10 3/4	1,596.55	10 3/4
11	10 3/4	4,080.47	11	3,785.90	11	3,476.51	11	3,153.57	11	2,822.35	11	2,491.01	11	2,159.61	11	1,926.40	11	1,592.40	11
11 1/4	11	4,074.48	11 1/4	3,779.59	11 1/4	3,469.91	11 1/4	3,146.70	11 1/4	2,815.45	11 1/4	2,484.10	11 1/4	2,152.70	11 1/4	1,922.25	11 1/4	1,588.25	11 1/4
11 1/2	11 1/4	4,068.49	11 1/2	3,773.28	11 1/2	3,463.32	11 1/2	3,139.83	11 1/2	2,808.54	11 1/2	2,477.20	11 1/2	2,145.80	11 1/2	1,918.10	11 1/2	1,584.10	11 1/2
11 3/4	11 1/2	4,062.48	11 3/4	3,766.96	11 3/4	3,456.72	11 3/4	3,132.95	11 3/4	2,801.64	11 3/4	2,470.30	11 3/4	2,138.90	11 3/4	1,913.95	11 3/4	1,579.95	11 3/4
12	11 3/4	4,056.47	12	3,760.63	12	3,450.10	12	3,126.08	12	2,794.74	12	2,463.39	12	2,131.99	12	1,909.80	12	1,575.80	12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.
 P. O. Box 2092
 Pearland, Texas 77665
 Http://www.pma.com

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-00" OFF CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD.



BARGE "KIRBY 28032"

1 STBD

ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 3/8"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.	
0	2,125.09	1,793.88	0	1,462.27	0	806.49	0	503.56	0	223.45	0
1/4	2,116.18	1,786.78	1/4	1,455.37	1/4	799.97	1/4	497.48	1/4	217.85	1/4
1/2	2,111.28	1,779.87	1/2	1,448.47	1/2	793.46	1/2	491.41	1/2	212.28	1/2
3/4	2,104.37	1,772.97	3/4	1,441.56	3/4	786.98	3/4	485.36	3/4	206.73	3/4
1	2,097.47	1,766.06	1	1,434.66	1	780.50	1	479.32	1	201.17	1
1 1/4	2,090.57	1,759.16	1 1/4	1,427.75	1 1/4	774.02	1 1/4	473.28	1 1/4	195.62	1 1/4
1 1/2	2,083.66	1,752.25	1 1/2	1,420.85	1 1/2	767.55	1 1/2	467.25	1 1/2	190.09	1 1/2
3/4	2,076.76	1,745.35	3/4	1,413.94	3/4	761.11	3/4	461.24	3/4	184.57	3/4
2	2,069.85	1,738.45	2	1,407.04	2	754.57	2	455.24	2	179.06	2
1 1/4	2,062.95	1,731.54	1 1/4	1,400.14	1 1/4	748.23	1 1/4	449.23	1 1/4	173.54	1 1/4
1 1/2	2,056.04	1,724.64	1 1/2	1,393.23	1 1/2	741.80	1 1/2	443.25	1 1/2	168.05	1 1/2
3/4	2,049.14	1,717.73	3/4	1,386.33	3/4	735.38	3/4	437.29	3/4	162.58	3/4
3	2,042.23	1,710.83	3	1,379.42	3	728.96	3	431.32	3	157.11	3
1 1/4	2,035.33	1,703.92	1 1/4	1,372.52	1 1/4	722.54	1 1/4	425.36	1 1/4	151.64	1 1/4
1 1/2	2,028.43	1,697.02	1 1/2	1,365.61	1 1/2	716.14	1 1/2	419.42	1 1/2	146.19	1 1/2
3/4	2,021.52	1,690.12	3/4	1,358.71	3/4	709.75	3/4	413.49	3/4	140.75	3/4
4	2,014.62	1,683.21	4	1,351.80	4	703.37	4	407.57	4	135.32	4
1 1/4	2,007.71	1,676.31	1 1/4	1,344.90	1 1/4	696.98	1 1/4	401.65	1 1/4	129.88	1 1/4
1 1/2	2,000.81	1,669.40	1 1/2	1,338.00	1 1/2	690.60	1 1/2	395.74	1 1/2	124.47	1 1/2
3/4	1,993.90	1,662.50	3/4	1,331.09	3/4	684.23	3/4	389.86	3/4	119.08	3/4
5	1,987.00	1,655.59	5	1,324.19	5	677.86	5	383.98	5	113.70	5
1 1/4	1,980.10	1,648.69	1 1/4	1,317.28	1 1/4	671.49	1 1/4	378.10	1 1/4	108.31	1 1/4
1 1/2	1,973.19	1,641.79	1 1/2	1,310.38	1 1/2	665.13	1 1/2	372.24	1 1/2	102.84	1 1/2
3/4	1,966.29	1,634.88	3/4	1,303.47	3/4	658.80	3/4	366.40	3/4	97.59	3/4
6	1,959.38	1,627.98	6	1,296.57	6	652.47	6	360.56	6	92.24	6
1 1/4	1,952.48	1,621.07	1 1/4	1,289.67	1 1/4	646.13	1 1/4	354.72	1 1/4	86.89	1 1/4
1 1/2	1,945.57	1,614.17	1 1/2	1,282.76	1 1/2	639.82	1 1/2	348.89	1 1/2	81.57	1 1/2
3/4	1,938.67	1,607.26	3/4	1,275.86	3/4	633.53	3/4	343.10	3/4	76.26	3/4
7	1,931.77	1,600.36	7	1,268.95	7	627.24	7	337.30	7	70.96	7
1 1/4	1,924.86	1,593.46	1 1/4	1,262.05	1 1/4	620.95	1 1/4	331.50	1 1/4	65.66	1 1/4
1 1/2	1,917.96	1,586.55	1 1/2	1,255.14	1 1/2	614.68	1 1/2	325.72	1 1/2	60.37	1 1/2
3/4	1,911.05	1,579.65	3/4	1,248.24	3/4	608.43	3/4	319.98	3/4	55.11	3/4
8	1,904.15	1,572.74	8	1,241.34	8	602.18	8	314.20	8	49.84	8
1 1/4	1,897.24	1,565.84	1 1/4	1,234.43	1 1/4	595.93	1 1/4	308.44	1 1/4	44.57	1 1/4
1 1/2	1,890.34	1,558.93	1 1/2	1,227.53	1 1/2	589.70	1 1/2	302.70	1 1/2	39.76	1 1/2
3/4	1,883.44	1,552.03	3/4	1,220.62	3/4	583.49	3/4	296.98	3/4	35.40	3/4
9	1,876.53	1,545.13	9	1,213.72	9	577.28	9	291.27	9	31.04	9
1 1/4	1,869.63	1,538.22	1 1/4	1,206.81	1 1/4	571.07	1 1/4	285.55	1 1/4	26.69	1 1/4
1 1/2	1,862.72	1,531.32	1 1/2	1,199.91	1 1/2	564.88	1 1/2	279.85	1 1/2	23.21	1 1/2
3/4	1,855.82	1,524.41	3/4	1,193.01	3/4	558.71	3/4	274.18	3/4	20.62	3/4
10	1,848.91	1,517.51	10	1,186.10	10	552.54	10	268.50	10	18.02	10
1 1/4	1,842.01	1,510.60	1 1/4	1,179.20	1 1/4	546.37	1 1/4	262.82	1 1/4	15.43	1 1/4
1 1/2	1,835.11	1,503.70	1 1/2	1,172.29	1 1/2	540.22	1 1/2	257.16	1 1/2	14.13	1 1/2
3/4	1,828.20	1,496.80	3/4	1,165.39	3/4	534.10	3/4	251.53	3/4	11.11	3/4
11	1,821.30	1,489.89	11	1,158.48	11	527.97	11	245.89	11	8.44	11
1 1/4	1,814.39	1,482.99	1 1/4	1,151.58	1 1/4	521.84	1 1/4	240.26	1 1/4	5.88	1 1/4
1 1/2	1,807.49	1,476.08	1 1/2	1,144.68	1 1/2	515.74	1 1/2	234.64	1 1/2	3.32	1 1/2
3/4	1,800.58	1,469.18	3/4	1,137.77	3/4	509.65	3/4	229.05	3/4	0.76	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2004 CL - 8W
 CALCULATED: 07/12/2004 CL
 PRINTED: 07/12/2004 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2004

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P O Box 2032
 Pearland, Texas 77668
 http://www.dmicorp.net



BARGE "KIRBY 28032"

2 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-10 3/8"

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	2,660.07	0	1,884.62	0	1,496.89	0	1,109.16	0	721.93	0	334.80	0
1/4	2,652.00	1/4	1,876.54	1/4	1,488.81	1/4	1,101.08	1/4	713.87	1/4	326.73	1/4
1/2	2,643.92	1/2	1,868.46	1/2	1,480.73	1/2	1,093.00	1/2	705.82	1/2	318.66	1/2
3/4	2,635.84	3/4	1,860.38	3/4	1,472.65	3/4	1,084.92	3/4	697.77	3/4	310.59	3/4
1	2,627.76	1	1,852.30	1	1,464.57	1	1,076.85	1	689.71	1	302.52	1
1 1/4	2,619.69	1 1/4	1,844.23	1 1/4	1,456.50	1 1/4	1,068.77	1 1/4	681.66	1 1/4	294.45	1 1/4
1 1/2	2,611.61	1 1/2	1,836.15	1 1/2	1,448.42	1 1/2	1,060.69	1 1/2	673.61	1 1/2	286.38	1 1/2
3/4	2,603.53	3/4	1,828.07	3/4	1,440.34	3/4	1,052.61	3/4	665.56	3/4	278.31	3/4
2	2,595.45	2	1,819.99	2	1,432.26	2	1,044.53	2	657.50	2	270.25	2
1 1/4	2,587.38	1 1/4	1,811.92	1 1/4	1,424.19	1 1/4	1,036.46	1 1/4	649.45	1 1/4	262.18	1 1/4
1 1/2	2,579.30	1 1/2	1,803.84	1 1/2	1,416.11	1 1/2	1,028.38	1 1/2	641.39	1 1/2	254.11	1 1/2
3/4	2,571.22	3/4	1,795.76	3/4	1,408.03	3/4	1,020.30	3/4	633.33	3/4	246.04	3/4
3	2,563.14	3	1,787.68	3	1,399.95	3	1,012.22	3	625.27	3	237.97	3
1 1/4	2,555.06	1 1/4	1,779.61	1 1/4	1,391.88	1 1/4	1,004.15	1 1/4	617.21	1 1/4	229.90	1 1/4
1 1/2	2,546.99	1 1/2	1,771.53	1 1/2	1,383.80	1 1/2	996.07	1 1/2	609.14	1 1/2	221.83	1 1/2
3/4	2,538.91	3/4	1,763.45	3/4	1,375.72	3/4	987.99	3/4	601.07	3/4	213.76	3/4
4	2,530.83	4	1,755.37	4	1,367.64	4	979.91	4	593.01	4	205.69	4
1 1/4	2,522.75	1 1/4	1,747.29	1 1/4	1,359.56	1 1/4	971.84	1 1/4	584.94	1 1/4	197.62	1 1/4
1 1/2	2,514.68	1 1/2	1,739.22	1 1/2	1,351.48	1 1/2	963.76	1 1/2	576.87	1 1/2	189.56	1 1/2
3/4	2,506.60	3/4	1,731.14	3/4	1,343.41	3/4	955.68	3/4	568.80	3/4	181.49	3/4
5	2,498.52	5	1,723.06	5	1,335.33	5	947.60	5	560.73	5	173.42	5
1 1/4	2,490.44	1 1/4	1,714.98	1 1/4	1,327.25	1 1/4	939.52	1 1/4	552.66	1 1/4	165.35	1 1/4
1 1/2	2,482.37	1 1/2	1,706.91	1 1/2	1,319.18	1 1/2	931.45	1 1/2	544.59	1 1/2	157.28	1 1/2
3/4	2,474.29	3/4	1,698.83	3/4	1,311.10	3/4	923.37	3/4	536.52	3/4	149.21	3/4
6	2,466.21	6	1,690.75	6	1,303.02	6	915.29	6	528.45	6	141.14	6
1 1/4	2,458.13	1 1/4	1,682.67	1 1/4	1,294.94	1 1/4	907.21	1 1/4	520.38	1 1/4	133.07	1 1/4
1 1/2	2,450.05	1 1/2	1,674.60	1 1/2	1,286.87	1 1/2	899.14	1 1/2	512.32	1 1/2	125.00	1 1/2
3/4	2,441.98	3/4	1,666.52	3/4	1,278.79	3/4	891.08	3/4	504.25	3/4	116.93	3/4
7	2,433.90	7	1,658.44	7	1,270.71	7	883.01	7	496.18	7	108.87	7
1 1/4	2,425.82	1 1/4	1,650.36	1 1/4	1,262.63	1 1/4	874.94	1 1/4	488.11	1 1/4	100.80	1 1/4
1 1/2	2,417.74	1 1/2	1,642.28	1 1/2	1,254.55	1 1/2	866.89	1 1/2	480.04	1 1/2	92.73	1 1/2
3/4	2,409.67	3/4	1,634.21	3/4	1,246.48	3/4	858.83	3/4	471.97	3/4	84.66	3/4
8	2,401.59	8	1,626.13	8	1,238.40	8	850.78	8	463.90	8	76.59	8
1 1/4	2,393.51	1 1/4	1,618.05	1 1/4	1,230.32	1 1/4	842.73	1 1/4	455.83	1 1/4	68.52	1 1/4
1 1/2	2,385.43	1 1/2	1,609.97	1 1/2	1,222.24	1 1/2	834.67	1 1/2	447.76	1 1/2	60.46	1 1/2
3/4	2,377.35	3/4	1,601.90	3/4	1,214.17	3/4	826.62	3/4	439.69	3/4	52.39	3/4
9	2,369.28	9	1,593.82	9	1,206.09	9	818.57	9	431.63	9	44.32	9
1 1/4	2,361.20	1 1/4	1,585.74	1 1/4	1,198.01	1 1/4	810.51	1 1/4	423.56	1 1/4	36.25	1 1/4
1 1/2	2,353.12	1 1/2	1,577.66	1 1/2	1,189.93	1 1/2	802.46	1 1/2	415.49	1 1/2	28.18	1 1/2
3/4	2,345.04	3/4	1,569.58	3/4	1,181.86	3/4	794.41	3/4	407.42	3/4	20.11	3/4
10	2,336.97	10	1,561.51	10	1,173.78	10	786.35	10	399.35	10	12.04	10
1 1/4	2,328.89	1 1/4	1,553.43	1 1/4	1,165.70	1 1/4	778.30	1 1/4	391.28	1 1/4	4.00	1 1/4
1 1/2	2,320.81	1 1/2	1,545.35	1 1/2	1,157.62	1 1/2	770.25	1 1/2	383.21	1 1/2	-16.08	1 1/2
3/4	2,312.73	3/4	1,537.27	3/4	1,149.54	3/4	762.19	3/4	375.14	3/4	-24.15	3/4
11	2,304.66	11	1,529.20	11	1,141.47	11	754.14	11	367.07	11	-32.22	11
1 1/4	2,296.58	1 1/4	1,521.12	1 1/4	1,133.39	1 1/4	746.09	1 1/4	359.00	1 1/4	-40.29	1 1/4
1 1/2	2,288.50	1 1/2	1,513.04	1 1/2	1,125.31	1 1/2	738.03	1 1/2	350.94	1 1/2	-48.36	1 1/2
3/4	2,280.42	3/4	1,504.96	3/4	1,117.23	3/4	729.98	3/4	342.87	3/4	-56.43	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/12/2004 CL - SW
CALCULATED: 07/12/2004 CL
PRINTED: 07/12/2004 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2004

SHEET NO. 5 OF 12

The Johnson



BARGE "KIRBY 28032"

2 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-10 3/8"
19 FT.

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	2,847.27	2,259.39	1,871.50	1,483.61	1,095.72	717.15	335.64	0	0	0
1/4	2,639.19	2,251.30	1,863.42	1,476.53	1,087.64	709.40	327.56	1/4	1/4	1/4
1/2	2,631.11	2,243.22	1,855.34	1,467.45	1,079.56	701.65	319.48	1/2	1/2	1/2
3/4	2,623.03	2,235.14	1,847.25	1,459.37	1,071.48	693.91	311.40	3/4	3/4	3/4
1	2,614.95	2,227.06	1,839.17	1,451.29	1,063.40	686.16	303.32	1	1	1
1 1/4	2,606.87	2,218.98	1,831.09	1,443.20	1,055.32	678.42	295.24	1 1/4	1 1/4	1 1/4
1 1/2	2,598.79	2,210.90	1,823.01	1,435.12	1,047.24	670.67	287.16	1 1/2	1 1/2	1 1/2
3/4	2,590.71	2,202.82	1,814.93	1,427.04	1,039.15	662.93	279.08	3/4	3/4	3/4
2	2,582.63	2,194.74	1,806.85	1,418.96	1,031.07	655.18	271.00	2	2	2
1 1/4	2,574.54	2,186.66	1,798.77	1,410.88	1,022.99	647.44	262.92	1 1/4	1 1/4	1 1/4
1 1/2	2,566.46	2,178.58	1,790.69	1,402.80	1,014.91	639.69	254.84	1 1/2	1 1/2	1 1/2
3/4	2,558.38	2,170.49	1,782.61	1,394.72	1,006.83	631.93	246.76	3/4	3/4	3/4
3	2,550.30	2,162.41	1,774.53	1,386.64	998.75	624.18	238.68	3	3	3
1 1/4	2,542.22	2,154.33	1,766.44	1,378.56	990.67	616.42	230.60	1 1/4	1 1/4	1 1/4
1 1/2	2,534.14	2,146.25	1,758.36	1,370.48	982.59	608.66	222.52	1 1/2	1 1/2	1 1/2
3/4	2,526.06	2,138.17	1,750.28	1,362.39	974.51	600.89	214.44	3/4	3/4	3/4
4	2,517.98	2,130.09	1,742.20	1,354.31	966.43	593.12	206.36	4	4	4
1 1/4	2,509.90	2,122.01	1,734.12	1,346.23	958.34	585.35	198.28	1 1/4	1 1/4	1 1/4
1 1/2	2,501.82	2,113.93	1,726.04	1,338.15	950.26	577.50	190.20	1 1/2	1 1/2	1 1/2
3/4	2,493.73	2,105.85	1,717.96	1,330.07	942.17	569.58	182.12	3/4	3/4	3/4
5	2,485.65	2,097.77	1,709.88	1,321.99	934.08	561.65	174.04	5	5	5
1 1/4	2,477.57	2,089.68	1,701.80	1,313.91	926.00	553.72	165.96	1 1/4	1 1/4	1 1/4
1 1/2	2,469.49	2,081.60	1,693.72	1,305.83	917.92	545.72	157.88	1 1/2	1 1/2	1 1/2
3/4	2,461.41	2,073.52	1,685.63	1,297.75	909.84	537.64	149.80	3/4	3/4	3/4
6	2,453.33	2,065.44	1,677.55	1,289.67	901.76	529.56	141.72	6	6	6
1 1/4	2,445.25	2,057.36	1,669.47	1,281.58	893.68	521.48	133.64	1 1/4	1 1/4	1 1/4
1 1/2	2,437.17	2,049.28	1,661.39	1,273.50	885.60	513.40	125.56	1 1/2	1 1/2	1 1/2
3/4	2,429.09	2,041.20	1,653.31	1,265.42	877.52	505.32	117.48	3/4	3/4	3/4
7	2,421.01	2,033.12	1,645.23	1,257.34	869.44	497.24	109.40	7	7	7
1 1/4	2,412.92	2,025.04	1,637.15	1,249.26	861.36	489.16	101.32	1 1/4	1 1/4	1 1/4
1 1/2	2,404.84	2,016.96	1,629.07	1,241.18	853.28	481.08	93.24	1 1/2	1 1/2	1 1/2
3/4	2,396.76	2,008.88	1,620.99	1,233.10	845.20	473.00	85.16	3/4	3/4	3/4
8	2,388.68	2,000.79	1,612.91	1,225.02	837.12	464.92	77.08	8	8	8
1 1/4	2,380.60	1,992.71	1,604.82	1,216.94	829.04	456.84	69.00	1 1/4	1 1/4	1 1/4
1 1/2	2,372.52	1,984.63	1,596.74	1,208.86	820.96	448.76	61.42	1 1/2	1 1/2	1 1/2
3/4	2,364.44	1,976.55	1,588.66	1,200.77	812.88	440.68	54.35	3/4	3/4	3/4
9	2,356.36	1,968.47	1,580.58	1,192.69	804.80	432.60	47.28	9	9	9
1 1/4	2,348.28	1,960.39	1,572.50	1,184.61	796.72	424.52	40.21	1 1/4	1 1/4	1 1/4
1 1/2	2,340.20	1,952.31	1,564.42	1,176.53	788.64	416.44	34.15	1 1/2	1 1/2	1 1/2
3/4	2,332.11	1,944.23	1,556.34	1,168.45	780.56	408.36	29.10	3/4	3/4	3/4
10	2,324.03	1,936.15	1,548.26	1,160.37	772.48	400.28	24.05	10	10	10
1 1/4	2,315.95	1,928.06	1,540.18	1,152.29	764.40	392.20	19.00	1 1/4	1 1/4	1 1/4
1 1/2	2,307.87	1,919.98	1,532.10	1,144.21	756.32	384.12	16.47	1 1/2	1 1/2	1 1/2
3/4	2,299.79	1,911.90	1,524.01	1,136.13	748.24	376.04	0	3/4	3/4	3/4
11	2,291.71	1,903.82	1,515.93	1,128.05	740.16	367.96	0	11	11	11
1 1/4	2,283.63	1,895.74	1,507.85	1,119.96	732.08	359.88	0	1 1/4	1 1/4	1 1/4
1 1/2	2,275.55	1,887.66	1,499.77	1,111.88	724.00	351.80	0	1 1/2	1 1/2	1 1/2
3/4	2,267.47	1,879.58	1,491.69	1,103.80	715.92	343.72	0	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 07/12/2004 CL - 8W
CALCULATED: 07/12/2004 CL
PRINTED: 07/12/2004 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2004

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77668
http://www.ipmacord.net



BARGE "KIRBY 28032"

3 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-10 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	0	M	0	M	0	M	0	M	0	M	0	M	0	M	0	M	0	M	0	M	0
0	2,477.32	0	2,115.93	0	1,754.54	0	1,392.85	0	1,031.64	0	670.68	0	309.21	0	0	0	0	0	0	0	0
1/4	2,469.79	1/4	2,108.30	1/4	1,748.81	1/4	1,385.32	1/4	1,024.13	1/4	663.15	1/4	301.67	1/4	0	0	0	0	0	0	0
1/2	2,462.26	1/2	2,100.77	1/2	1,739.28	1/2	1,377.79	1/2	1,016.63	1/2	655.62	1/2	294.14	1/2	0	0	0	0	0	0	0
3/4	2,454.72	3/4	2,093.24	3/4	1,731.75	3/4	1,370.26	3/4	1,009.12	3/4	648.09	3/4	286.61	3/4	0	0	0	0	0	0	0
1	2,447.19	1	2,085.71	1	1,724.22	1	1,362.73	1	1,001.61	1	640.56	1	279.08	1	0	0	0	0	0	0	0
1 1/4	2,439.66	1 1/4	2,078.17	1 1/4	1,716.69	1 1/4	1,355.20	1 1/4	994.11	1 1/4	633.03	1 1/4	271.55	1 1/4	0	0	0	0	0	0	0
1 1/2	2,432.13	1 1/2	2,070.64	1 1/2	1,709.16	1 1/2	1,347.67	1 1/2	986.60	1 1/2	625.50	1 1/2	264.02	1 1/2	0	0	0	0	0	0	0
1 3/4	2,424.60	1 3/4	2,063.11	1 3/4	1,701.62	1 3/4	1,340.14	1 3/4	979.09	1 3/4	617.96	1 3/4	256.49	1 3/4	0	0	0	0	0	0	0
2	2,417.07	2	2,055.58	2	1,694.09	2	1,332.61	2	971.59	2	610.43	2	248.96	2	0	0	0	0	0	0	0
2 1/4	2,409.54	2 1/4	2,048.05	2 1/4	1,686.56	2 1/4	1,325.07	2 1/4	964.08	2 1/4	602.90	2 1/4	241.43	2 1/4	0	0	0	0	0	0	0
2 1/2	2,402.01	2 1/2	2,040.52	2 1/2	1,679.03	2 1/2	1,317.54	2 1/2	956.58	2 1/2	595.37	2 1/2	233.90	2 1/2	0	0	0	0	0	0	0
2 3/4	2,394.48	2 3/4	2,032.99	2 3/4	1,671.50	2 3/4	1,310.01	2 3/4	949.07	2 3/4	587.84	2 3/4	226.37	2 3/4	0	0	0	0	0	0	0
3	2,386.95	3	2,025.46	3	1,663.97	3	1,302.48	3	941.56	3	580.31	3	218.84	3	0	0	0	0	0	0	0
3 1/4	2,379.41	3 1/4	2,017.93	3 1/4	1,656.44	3 1/4	1,294.95	3 1/4	934.06	3 1/4	572.78	3 1/4	211.31	3 1/4	0	0	0	0	0	0	0
3 1/2	2,371.88	3 1/2	2,010.40	3 1/2	1,648.91	3 1/2	1,287.42	3 1/2	926.55	3 1/2	565.25	3 1/2	203.78	3 1/2	0	0	0	0	0	0	0
3 3/4	2,364.35	3 3/4	2,002.86	3 3/4	1,641.38	3 3/4	1,279.89	3 3/4	919.05	3 3/4	557.72	3 3/4	196.25	3 3/4	0	0	0	0	0	0	0
4	2,356.82	4	1,995.33	4	1,633.85	4	1,272.36	4	911.54	4	550.19	4	188.71	4	0	0	0	0	0	0	0
4 1/4	2,349.29	4 1/4	1,987.80	4 1/4	1,626.31	4 1/4	1,264.83	4 1/4	904.03	4 1/4	542.66	4 1/4	181.18	4 1/4	0	0	0	0	0	0	0
4 1/2	2,341.76	4 1/2	1,980.27	4 1/2	1,618.78	4 1/2	1,257.30	4 1/2	896.53	4 1/2	535.13	4 1/2	173.65	4 1/2	0	0	0	0	0	0	0
4 3/4	2,334.23	4 3/4	1,972.74	4 3/4	1,611.25	4 3/4	1,249.76	4 3/4	889.02	4 3/4	527.60	4 3/4	166.12	4 3/4	0	0	0	0	0	0	0
5	2,326.70	5	1,965.21	5	1,603.72	5	1,242.23	5	881.51	5	520.07	5	158.59	5	0	0	0	0	0	0	0
5 1/4	2,319.17	5 1/4	1,957.68	5 1/4	1,596.19	5 1/4	1,234.70	5 1/4	874.01	5 1/4	512.53	5 1/4	151.06	5 1/4	0	0	0	0	0	0	0
5 1/2	2,311.64	5 1/2	1,950.15	5 1/2	1,588.66	5 1/2	1,227.17	5 1/2	866.48	5 1/2	505.00	5 1/2	143.53	5 1/2	0	0	0	0	0	0	0
5 3/4	2,304.10	5 3/4	1,942.62	5 3/4	1,581.13	5 3/4	1,219.64	5 3/4	858.95	5 3/4	497.47	5 3/4	136.00	5 3/4	0	0	0	0	0	0	0
6	2,296.57	6	1,935.09	6	1,573.60	6	1,212.11	6	851.42	6	489.94	6	128.47	6	0	0	0	0	0	0	0
6 1/4	2,289.04	6 1/4	1,927.55	6 1/4	1,566.07	6 1/4	1,204.58	6 1/4	843.89	6 1/4	482.41	6 1/4	120.94	6 1/4	0	0	0	0	0	0	0
6 1/2	2,281.51	6 1/2	1,920.02	6 1/2	1,558.54	6 1/2	1,197.05	6 1/2	836.35	6 1/2	474.88	6 1/2	113.41	6 1/2	0	0	0	0	0	0	0
6 3/4	2,273.98	6 3/4	1,912.49	6 3/4	1,551.00	6 3/4	1,189.52	6 3/4	828.82	6 3/4	467.35	6 3/4	105.88	6 3/4	0	0	0	0	0	0	0
7	2,266.45	7	1,904.96	7	1,543.47	7	1,181.99	7	821.29	7	459.82	7	98.35	7	0	0	0	0	0	0	0
7 1/4	2,258.92	7 1/4	1,897.43	7 1/4	1,535.94	7 1/4	1,174.45	7 1/4	813.76	7 1/4	452.29	7 1/4	90.82	7 1/4	0	0	0	0	0	0	0
7 1/2	2,251.39	7 1/2	1,889.90	7 1/2	1,528.41	7 1/2	1,166.92	7 1/2	806.23	7 1/2	444.76	7 1/2	83.28	7 1/2	0	0	0	0	0	0	0
7 3/4	2,243.86	7 3/4	1,882.37	7 3/4	1,520.88	7 3/4	1,159.39	7 3/4	798.70	7 3/4	437.23	7 3/4	75.75	7 3/4	0	0	0	0	0	0	0
8	2,236.33	8	1,874.84	8	1,513.35	8	1,151.86	8	791.17	8	429.70	8	68.22	8	0	0	0	0	0	0	0
8 1/4	2,228.79	8 1/4	1,867.31	8 1/4	1,505.82	8 1/4	1,144.33	8 1/4	783.64	8 1/4	422.17	8 1/4	60.69	8 1/4	0	0	0	0	0	0	0
8 1/2	2,221.26	8 1/2	1,859.78	8 1/2	1,498.29	8 1/2	1,136.80	8 1/2	776.11	8 1/2	414.64	8 1/2	54.10	8 1/2	0	0	0	0	0	0	0
8 3/4	2,213.73	8 3/4	1,852.24	8 3/4	1,490.76	8 3/4	1,129.27	8 3/4	768.58	8 3/4	407.10	8 3/4	47.51	8 3/4	0	0	0	0	0	0	0
9	2,206.20	9	1,844.71	9	1,483.23	9	1,121.74	9	761.05	9	399.57	9	40.92	9	0	0	0	0	0	0	0
9 1/4	2,198.67	9 1/4	1,837.18	9 1/4	1,475.69	9 1/4	1,114.21	9 1/4	753.52	9 1/4	392.04	9 1/4	34.33	9 1/4	0	0	0	0	0	0	0
9 1/2	2,191.14	9 1/2	1,829.65	9 1/2	1,468.16	9 1/2	1,106.70	9 1/2	745.99	9 1/2	384.51	9 1/2	29.63	9 1/2	0	0	0	0	0	0	0
9 3/4	2,183.61	9 3/4	1,822.12	9 3/4	1,460.63	9 3/4	1,099.19	9 3/4	738.46	9 3/4	376.98	9 3/4	24.92	9 3/4	0	0	0	0	0	0	0
10	2,176.08	10	1,814.59	10	1,453.10	10	1,091.59	10	730.92	10	369.45	10	20.21	10	0	0	0	0	0	0	0
10 1/4	2,168.55	10 1/4	1,807.06	10 1/4	1,445.57	10 1/4	1,084.18	10 1/4	723.39	10 1/4	361.92	10 1/4	15.51	10 1/4	0	0	0	0	0	0	0
10 1/2	2,161.02	10 1/2	1,799.53	10 1/2	1,438.04	10 1/2	1,076.68	10 1/2	715.86	10 1/2	354.39	10 1/2	10.80	10 1/2	0	0	0	0	0	0	0
10 3/4	2,153.48	10 3/4	1,792.00	10 3/4	1,430.51	10 3/4	1,069.17	10 3/4	708.33	10 3/4	346.86	10 3/4	5.09	10 3/4	0	0	0	0	0	0	0
11	2,145.95	11	1,784.47	11	1,422.98	11	1,061.66	11	700.80	11	339.33	11	0.38	11	0	0	0	0	0	0	0
11 1/4	2,138.42	11 1/4	1,776.93	11 1/4	1,415.45	11 1/4	1,054.16	11 1/4	693.27	11 1/4	331.80	11 1/4	0.00	11 1/4	0	0	0	0	0	0	0
11 1/2	2,130.89	11 1/2	1,769.40	11 1/2	1,407.92	11 1/2	1,046.65	11 1/2	685.74	11 1/2	324.27	11 1/2	0.00	11 1/2	0	0	0	0	0	0	0
11 3/4	2,123.36	11 3/4	1,761.87	11 3/4	1,400.39	11 3/4	1,039.14	11 3/4	678.21	11 3/4	316.74	11 3/4	0.00	11 3/4	0	0	0	0	0	0	0

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77648
<http://www.pmainc.com>

STRAPPED: 07/12/2004 CL - SW
CALCULATED: 07/12/2004 CL
PRINTED: 07/12/2004 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2004



BARGE "KIRBY 28032"

3 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-10 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.	
M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N	M	N
0	2,483.37	0	2,102.88	0	1,744.91	0	1,384.24	0	1,027.06	0	673.53	0	316.51	0	0	0	0	0	0
1/4	2,455.86	1/4	2,095.16	1/4	1,737.46	1/4	1,376.72	1/4	1,019.69	1/4	666.18	1/4	308.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,448.35	1/2	2,087.64	1/2	1,730.00	1/2	1,369.21	1/2	1,012.32	1/2	658.83	1/2	301.48	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,440.84	3/4	2,080.19	3/4	1,722.49	3/4	1,361.69	3/4	1,004.95	3/4	651.48	3/4	293.96	3/4	3/4	3/4	3/4	3/4	3/4
1	2,433.33	1	2,072.74	1	1,714.97	1	1,354.17	1	997.57	1	644.14	1	286.44	1	1	1	1	1	1
1 1/4	2,425.81	1 1/4	2,066.29	1 1/4	1,707.45	1 1/4	1,346.66	1 1/4	990.20	1 1/4	636.79	1 1/4	278.92	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,418.30	1 1/2	2,059.84	1 1/2	1,699.94	1 1/2	1,339.14	1 1/2	982.83	1 1/2	629.44	1 1/2	271.40	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,410.79	3/4	2,050.39	3/4	1,692.42	3/4	1,331.62	3/4	975.45	3/4	622.09	3/4	263.89	3/4	3/4	3/4	3/4	3/4	3/4
2	2,403.28	2	2,042.94	2	1,684.90	2	1,324.11	2	968.08	2	614.74	2	256.37	2	2	2	2	2	2
2 1/4	2,395.77	2 1/4	2,035.49	2 1/4	1,677.39	2 1/4	1,316.59	2 1/4	960.71	2 1/4	607.39	2 1/4	248.85	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2,388.25	2 1/2	2,028.04	2 1/2	1,669.87	2 1/2	1,309.07	2 1/2	953.33	2 1/2	600.05	2 1/2	241.33	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
3/4	2,380.74	3/4	2,020.59	3/4	1,662.36	3/4	1,301.56	3/4	945.96	3/4	592.70	3/4	233.82	3/4	3/4	3/4	3/4	3/4	3/4
3	2,373.23	3	2,013.15	3	1,654.84	3	1,294.04	3	938.59	3	585.35	3	226.30	3	3	3	3	3	3
3 1/4	2,365.72	3 1/4	2,005.68	3 1/4	1,647.32	3 1/4	1,286.53	3 1/4	931.21	3 1/4	578.00	3 1/4	218.78	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	2,358.20	3 1/2	1,998.23	3 1/2	1,639.81	3 1/2	1,279.01	3 1/2	923.84	3 1/2	570.65	3 1/2	211.26	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3/4	2,350.69	3/4	1,990.78	3/4	1,632.29	3/4	1,271.49	3/4	916.47	3/4	563.29	3/4	203.73	3/4	3/4	3/4	3/4	3/4	3/4
4	2,343.18	4	1,983.33	4	1,624.77	4	1,263.98	4	909.10	4	555.93	4	196.21	4	4	4	4	4	4
4 1/4	2,335.67	4 1/4	1,975.88	4 1/4	1,617.26	4 1/4	1,256.46	4 1/4	901.72	4 1/4	548.57	4 1/4	188.68	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	2,328.16	4 1/2	1,968.43	4 1/2	1,609.74	4 1/2	1,248.94	4 1/2	894.35	4 1/2	541.21	4 1/2	181.15	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
3/4	2,320.64	3/4	1,960.98	3/4	1,602.22	3/4	1,241.43	3/4	886.98	3/4	533.83	3/4	173.62	3/4	3/4	3/4	3/4	3/4	3/4
5	2,313.13	5	1,953.53	5	1,594.71	5	1,233.91	5	879.60	5	526.45	5	166.09	5	5	5	5	5	5
5 1/4	2,305.62	5 1/4	1,946.08	5 1/4	1,587.19	5 1/4	1,226.39	5 1/4	872.23	5 1/4	519.07	5 1/4	158.56	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	2,298.11	5 1/2	1,938.63	5 1/2	1,579.67	5 1/2	1,218.88	5 1/2	864.86	5 1/2	511.70	5 1/2	151.03	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
3/4	2,290.59	3/4	1,931.18	3/4	1,572.16	3/4	1,211.50	3/4	857.48	3/4	504.25	3/4	143.50	3/4	3/4	3/4	3/4	3/4	3/4
6	2,283.07	6	1,923.73	6	1,564.64	6	1,204.12	6	850.10	6	496.80	6	135.97	6	6	6	6	6	6
6 1/4	2,275.56	6 1/4	1,916.27	6 1/4	1,557.12	6 1/4	1,196.74	6 1/4	842.72	6 1/4	489.35	6 1/4	128.44	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	2,268.04	6 1/2	1,908.82	6 1/2	1,549.61	6 1/2	1,189.36	6 1/2	835.34	6 1/2	481.90	6 1/2	120.91	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
3/4	2,260.52	3/4	1,901.37	3/4	1,542.09	3/4	1,181.98	3/4	827.96	3/4	474.38	3/4	113.38	3/4	3/4	3/4	3/4	3/4	3/4
7	2,253.01	7	1,893.92	7	1,534.57	7	1,174.60	7	820.59	7	466.86	7	105.85	7	7	7	7	7	7
7 1/4	2,245.49	7 1/4	1,886.47	7 1/4	1,527.06	7 1/4	1,167.22	7 1/4	813.21	7 1/4	459.34	7 1/4	98.32	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	2,237.97	7 1/2	1,879.02	7 1/2	1,519.54	7 1/2	1,159.84	7 1/2	805.83	7 1/2	451.83	7 1/2	90.80	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
3/4	2,230.46	3/4	1,871.57	3/4	1,512.02	3/4	1,152.46	3/4	798.47	3/4	444.31	3/4	83.27	3/4	3/4	3/4	3/4	3/4	3/4
8	2,222.94	8	1,864.12	8	1,504.51	8	1,145.08	8	791.11	8	436.79	8	75.74	8	8	8	8	8	8
8 1/4	2,215.43	8 1/4	1,856.67	8 1/4	1,496.99	8 1/4	1,137.70	8 1/4	783.75	8 1/4	429.27	8 1/4	68.21	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	2,207.91	8 1/2	1,849.22	8 1/2	1,489.47	8 1/2	1,130.32	8 1/2	776.39	8 1/2	421.76	8 1/2	60.68	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
3/4	2,200.39	3/4	1,841.77	3/4	1,481.96	3/4	1,122.94	3/4	769.05	3/4	414.24	3/4	54.09	3/4	3/4	3/4	3/4	3/4	3/4
9	2,192.88	9	1,834.32	9	1,474.44	9	1,115.56	9	761.70	9	406.72	9	47.50	9	9	9	9	9	9
9 1/4	2,185.36	9 1/4	1,826.86	9 1/4	1,466.92	9 1/4	1,108.18	9 1/4	754.35	9 1/4	399.20	9 1/4	40.91	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	2,177.84	9 1/2	1,819.41	9 1/2	1,459.41	9 1/2	1,100.80	9 1/2	747.01	9 1/2	391.69	9 1/2	34.32	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
3/4	2,170.33	3/4	1,811.96	3/4	1,451.89	3/4	1,093.42	3/4	739.66	3/4	384.17	3/4	29.62	3/4	3/4	3/4	3/4	3/4	3/4
10	2,162.81	10	1,804.51	10	1,444.37	10	1,086.05	10	732.31	10	376.65	10	24.91	10	10	10	10	10	10
10 1/4	2,155.29	10 1/4	1,797.06	10 1/4	1,436.86	10 1/4	1,078.68	10 1/4	724.97	10 1/4	369.13	10 1/4	20.21	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	2,147.78	10 1/2	1,789.61	10 1/2	1,429.34	10 1/2	1,071.30	10 1/2	717.62	10 1/2	361.62	10 1/2	15.60	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
3/4	2,140.26	3/4	1,782.16	3/4	1,421.82	3/4	1,063.93	3/4	710.27	3/4	354.10	3/4	11.00	3/4	3/4	3/4	3/4	3/4	3/4
11	2,132.74	11	1,774.71	11	1,414.31	11	1,056.56	11	702.92	11	346.58	11	6.40	11	11	11	11	11	11
11 1/4	2,125.23	11 1/4	1,767.26	11 1/4	1,406.79	11 1/4	1,049.18	11 1/4	695.57	11 1/4	339.06	11 1/4	1.80	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	2,117.71	11 1/2	1,759.81	11 1/2	1,399.27	11 1/2	1,041.81	11 1/2	688.23	11 1/2	331.55	11 1/2	0.00	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
3/4	2,110.19	3/4	1,752.36	3/4	1,391.76	3/4	1,034.44	3/4	680.85	3/4	324.03	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

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