

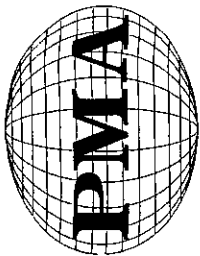


KIRBY 28067



Barge Strapping Tables





BARGE "KIRBY 28067"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 241'-00"

September 24, 2004

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

<http://www.pmacorp.net>



1 PORT

BARGE "KIRBY 28067"

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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,355.25	0	1,989.02	0	1,622.77	0	1,257.17	0	893.09	0	527.15	0	181.48	0		0		0	
1/4	2,347.62	1/4	1,981.39	1/4	1,615.14	1/4	1,249.54	1/4	885.51	1/4	519.52	1/4	174.79	1/4		1/4		1/4	
1/2	2,339.99	1/2	1,973.76	1/2	1,607.51	1/2	1,241.91	1/2	877.94	1/2	511.89	1/2	168.09	1/2		1/2		1/2	
3/4	2,332.36	3/4	1,966.13	3/4	1,599.88	3/4	1,234.28	3/4	870.35	3/4	504.28	3/4	161.48	3/4		3/4		3/4	
1	2,324.73	1	1,958.50	1	1,592.25	1	1,226.65	1	862.76	1	496.67	1	154.87	1		1		1	
1 1/4	2,317.10	1 1/4	1,950.87	1 1/4	1,584.62	1 1/4	1,219.02	1 1/4	855.17	1 1/4	489.06	1 1/4	148.26	1 1/4		1 1/4		1 1/4	
1 1/2	2,309.47	1 1/2	1,943.24	1 1/2	1,576.99	1 1/2	1,211.39	1 1/2	847.58	1 1/2	481.45	1 1/2	141.65	1 1/2		1 1/2		1 1/2	
3/4	2,301.84	3/4	1,935.61	3/4	1,569.36	3/4	1,203.77	3/4	839.97	3/4	473.91	3/4	135.13	3/4		3/4		3/4	
2	2,294.21	2	1,927.98	2	1,561.73	2	1,196.15	2	832.35	2	466.36	2	128.61	2		2		2	
1 1/4	2,286.58	1 1/4	1,920.35	1 1/4	1,554.10	1 1/4	1,188.54	1 1/4	824.74	1 1/4	458.81	1 1/4	122.09	1 1/4		1 1/4		1 1/4	
1 1/2	2,278.96	1 1/2	1,912.72	1 1/2	1,546.47	1 1/2	1,180.92	1 1/2	817.12	1 1/2	451.27	1 1/2	115.57	1 1/2		1 1/2		1 1/2	
3/4	2,271.33	3/4	1,905.09	3/4	1,538.84	3/4	1,173.33	3/4	809.49	3/4	443.81	3/4	109.15	3/4		3/4		3/4	
3	2,263.70	3	1,897.46	3	1,531.21	3	1,165.74	3	801.86	3	436.35	3	102.73	3		3		3	
1 1/4	2,256.07	1 1/4	1,889.83	1 1/4	1,523.58	1 1/4	1,158.15	1 1/4	794.23	1 1/4	428.89	1 1/4	96.31	1 1/4		1 1/4		1 1/4	
1 1/2	2,248.44	1 1/2	1,882.20	1 1/2	1,515.95	1 1/2	1,150.57	1 1/2	786.60	1 1/2	421.42	1 1/2	89.89	1 1/2		1 1/2		1 1/2	
3/4	2,240.81	3/4	1,874.57	3/4	1,508.32	3/4	1,142.99	3/4	778.97	3/4	414.05	3/4	83.57	3/4		3/4		3/4	
4	2,233.18	4	1,866.94	4	1,500.69	4	1,135.42	4	771.34	4	406.67	4	77.25	4		4		4	
1 1/4	2,225.55	1 1/4	1,859.31	1 1/4	1,493.06	1 1/4	1,127.84	1 1/4	763.71	1 1/4	399.29	1 1/4	70.94	1 1/4		1 1/4		1 1/4	
1 1/2	2,217.92	1 1/2	1,851.68	1 1/2	1,485.43	1 1/2	1,120.27	1 1/2	756.08	1 1/2	391.92	1 1/2	64.62	1 1/2		1 1/2		1 1/2	
3/4	2,210.29	3/4	1,844.05	3/4	1,477.81	3/4	1,112.69	3/4	748.44	3/4	384.63	3/4	58.42	3/4		3/4		3/4	
5	2,202.66	5	1,836.42	5	1,470.19	5	1,105.12	5	740.81	5	377.33	5	52.22	5		5		5	
1 1/4	2,195.03	1 1/4	1,828.79	1 1/4	1,462.56	1 1/4	1,097.55	1 1/4	733.18	1 1/4	370.04	1 1/4	46.03	1 1/4		1 1/4		1 1/4	
1 1/2	2,187.40	1 1/2	1,821.16	1 1/2	1,454.93	1 1/2	1,089.98	1 1/2	725.55	1 1/2	362.75	1 1/2	39.83	1 1/2		1 1/2		1 1/2	
3/4	2,179.77	3/4	1,813.52	3/4	1,447.36	3/4	1,082.40	3/4	717.92	3/4	355.54	3/4	34.33	3/4		3/4		3/4	
6	2,172.14	6	1,805.89	6	1,439.73	6	1,074.83	6	710.29	6	348.34	6	28.82	6		6		6	
1 1/4	2,164.51	1 1/4	1,798.26	1 1/4	1,432.15	1 1/4	1,067.26	1 1/4	702.66	1 1/4	341.13	1 1/4	23.32	1 1/4		1 1/4		1 1/4	
1 1/2	2,156.88	1 1/2	1,790.63	1 1/2	1,424.55	1 1/2	1,059.69	1 1/2	695.03	1 1/2	333.92	1 1/2	17.82	1 1/2		1 1/2		1 1/2	
3/4	2,149.25	3/4	1,783.00	3/4	1,416.95	3/4	1,052.11	3/4	687.40	3/4	326.80	3/4	14.26	3/4		3/4		3/4	
7	2,141.62	7	1,775.37	7	1,409.34	7	1,044.54	7	679.77	7	319.68	7	10.70	7		7		7	
1 1/4	2,133.99	1 1/4	1,767.74	1 1/4	1,401.74	1 1/4	1,036.97	1 1/4	672.14	1 1/4	312.56	1 1/4	7.14	1 1/4		1 1/4		1 1/4	
1 1/2	2,126.36	1 1/2	1,760.11	1 1/2	1,394.14	1 1/2	1,029.40	1 1/2	664.51	1 1/2	305.44	1 1/2	3.59	1 1/2		1 1/2		1 1/2	
3/4	2,118.73	3/4	1,752.48	3/4	1,386.54	3/4	1,021.82	3/4	656.88	3/4	298.40	3/4		3/4		3/4		3/4	
8	2,111.10	8	1,744.85	8	1,378.93	8	1,014.25	8	649.25	8	291.36	8		8		8		8	
1 1/4	2,103.47	1 1/4	1,737.22	1 1/4	1,371.33	1 1/4	1,006.68	1 1/4	641.62	1 1/4	284.33	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,095.84	1 1/2	1,729.59	1 1/2	1,363.73	1 1/2	999.11	1 1/2	633.99	1 1/2	277.29	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,088.21	3/4	1,721.96	3/4	1,356.12	3/4	991.53	3/4	626.36	3/4	270.34	3/4		3/4		3/4		3/4	
9	2,080.58	9	1,714.33	9	1,348.52	9	983.96	9	618.73	9	263.38	9		9		9		9	
1 1/4	2,072.95	1 1/4	1,706.70	1 1/4	1,340.92	1 1/4	976.39	1 1/4	611.09	1 1/4	256.43	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,065.32	1 1/2	1,699.07	1 1/2	1,333.32	1 1/2	968.82	1 1/2	603.46	1 1/2	249.48	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,057.69	3/4	1,691.44	3/4	1,325.71	3/4	961.24	3/4	595.83	3/4	242.61	3/4		3/4		3/4		3/4	
10	2,050.06	10	1,683.81	10	1,318.11	10	953.67	10	588.20	10	235.74	10		10		10		10	
1 1/4	2,042.43	1 1/4	1,676.18	1 1/4	1,310.51	1 1/4	946.10	1 1/4	580.57	1 1/4	228.88	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,034.80	1 1/2	1,668.55	1 1/2	1,302.90	1 1/2	938.53	1 1/2	572.94	1 1/2	222.01	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,027.17	3/4	1,660.92	3/4	1,295.29	3/4	930.95	3/4	565.31	3/4	215.23	3/4		3/4		3/4		3/4	
11	2,019.54	11	1,653.29	11	1,287.67	11	923.38	11	557.68	11	208.44	11		11		11		11	
1 1/4	2,011.91	1 1/4	1,645.66	1 1/4	1,280.05	1 1/4	915.81	1 1/4	550.05	1 1/4	201.66	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,004.28	1 1/2	1,638.03	1 1/2	1,272.43	1 1/2	908.24	1 1/2	542.42	1 1/2	194.88	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,996.65	3/4	1,630.40	3/4	1,264.80	3/4	900.66	3/4	534.79	3/4	188.18	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/21/2004 CL - SW
 CALCULATED: 09/24/2004 CL
 PRINTED: 09/24/2004 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28067"

1 STBD 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.	
IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N
0	2,363.15	0	1,997.09	0	1,631.01	0	1,265.59	0	900.49	0	534.52	0	188.09	0	0	0	0	0	0
1/4	2,355.53	1/4	1,989.46	1/4	1,623.39	1/4	1,257.96	1/4	892.89	1/4	526.90	1/4	181.39	1/4	174.70	1/4	174.70	1/4	174.70
1/2	2,347.90	1/2	1,981.84	1/2	1,615.76	1/2	1,250.34	1/2	885.29	1/2	519.27	1/2	174.70	1/2	174.70	1/2	174.70	1/2	174.70
3/4	2,340.27	3/4	1,974.21	3/4	1,608.13	3/4	1,242.71	3/4	877.69	3/4	511.64	3/4	168.00	3/4	168.00	3/4	168.00	3/4	168.00
1	2,332.65	1	1,966.58	1	1,600.51	1	1,235.08	1	870.08	1	504.04	1	161.40	1	161.40	1	161.40	1	161.40
1/4	2,325.02	1/4	1,958.96	1/4	1,592.88	1/4	1,227.45	1/4	862.46	1/4	496.43	1/4	154.79	1/4	154.79	1/4	154.79	1/4	154.79
1/2	2,317.39	1/2	1,951.33	1/2	1,585.25	1/2	1,219.83	1/2	854.85	1/2	488.82	1/2	148.18	1/2	148.18	1/2	148.18	1/2	148.18
3/4	2,309.77	3/4	1,943.71	3/4	1,577.63	3/4	1,212.20	3/4	847.23	3/4	481.22	3/4	141.58	3/4	141.58	3/4	141.58	3/4	141.58
2	2,302.14	2	1,936.08	2	1,570.00	2	1,204.57	2	839.61	2	473.67	2	135.06	2	135.06	2	135.06	2	135.06
1/4	2,294.52	1/4	1,928.45	1/4	1,562.38	1/4	1,196.95	1/4	831.98	1/4	466.13	1/4	128.54	1/4	128.54	1/4	128.54	1/4	128.54
1/2	2,286.89	1/2	1,920.83	1/2	1,554.75	1/2	1,189.32	1/2	824.35	1/2	458.59	1/2	122.03	1/2	122.03	1/2	122.03	1/2	122.03
3/4	2,279.26	3/4	1,913.20	3/4	1,547.12	3/4	1,181.69	3/4	816.72	3/4	451.05	3/4	115.51	3/4	115.51	3/4	115.51	3/4	115.51
3	2,271.64	3	1,905.57	3	1,539.50	3	1,174.08	3	809.10	3	443.59	3	109.10	3	109.10	3	109.10	3	109.10
1/4	2,264.01	1/4	1,897.95	1/4	1,531.87	1/4	1,166.46	1/4	801.47	1/4	436.13	1/4	102.68	1/4	102.68	1/4	102.68	1/4	102.68
1/2	2,256.38	1/2	1,890.32	1/2	1,524.24	1/2	1,158.85	1/2	793.84	1/2	428.67	1/2	96.26	1/2	96.26	1/2	96.26	1/2	96.26
3/4	2,248.76	3/4	1,882.69	3/4	1,516.62	3/4	1,151.23	3/4	786.22	3/4	421.22	3/4	89.84	3/4	89.84	3/4	89.84	3/4	89.84
4	2,241.13	4	1,875.07	4	1,508.99	4	1,143.63	4	778.69	4	413.84	4	83.53	4	83.53	4	83.53	4	83.53
1/4	2,233.50	1/4	1,867.44	1/4	1,501.36	1/4	1,136.03	1/4	770.96	1/4	406.47	1/4	77.21	1/4	77.21	1/4	77.21	1/4	77.21
1/2	2,225.88	1/2	1,859.81	1/2	1,493.74	1/2	1,128.43	1/2	763.34	1/2	399.10	1/2	70.90	1/2	70.90	1/2	70.90	1/2	70.90
3/4	2,218.25	3/4	1,852.19	3/4	1,486.11	3/4	1,120.83	3/4	755.71	3/4	391.72	3/4	64.59	3/4	64.59	3/4	64.59	3/4	64.59
5	2,210.63	5	1,844.56	5	1,478.50	5	1,113.24	5	748.08	5	384.44	5	58.39	5	58.39	5	58.39	5	58.39
1/4	2,203.00	1/4	1,836.93	1/4	1,470.88	1/4	1,105.64	1/4	740.46	1/4	377.15	1/4	52.20	1/4	52.20	1/4	52.20	1/4	52.20
1/2	2,195.37	1/2	1,829.31	1/2	1,463.27	1/2	1,098.04	1/2	732.83	1/2	369.86	1/2	46.00	1/2	46.00	1/2	46.00	1/2	46.00
3/4	2,187.75	3/4	1,821.68	3/4	1,455.66	3/4	1,090.44	3/4	725.20	3/4	362.57	3/4	39.81	3/4	39.81	3/4	39.81	3/4	39.81
6	2,180.12	6	1,814.05	6	1,448.06	6	1,082.84	6	717.57	6	355.37	6	34.31	6	34.31	6	34.31	6	34.31
1/4	2,172.49	1/4	1,806.43	1/4	1,440.46	1/4	1,075.25	1/4	709.95	1/4	348.17	1/4	28.81	1/4	28.81	1/4	28.81	1/4	28.81
1/2	2,164.87	1/2	1,798.80	1/2	1,432.86	1/2	1,067.65	1/2	702.32	1/2	340.96	1/2	23.31	1/2	23.31	1/2	23.31	1/2	23.31
3/4	2,157.24	3/4	1,791.17	3/4	1,425.26	3/4	1,060.05	3/4	694.69	3/4	333.76	3/4	17.81	3/4	17.81	3/4	17.81	3/4	17.81
7	2,149.62	7	1,783.55	7	1,417.66	7	1,052.45	7	687.07	7	326.64	7	14.25	7	14.25	7	14.25	7	14.25
1/4	2,141.99	1/4	1,775.92	1/4	1,410.06	1/4	1,044.85	1/4	679.44	1/4	319.52	1/4	10.70	1/4	10.70	1/4	10.70	1/4	10.70
1/2	2,134.36	1/2	1,768.29	1/2	1,402.46	1/2	1,037.26	1/2	671.81	1/2	312.40	1/2	7.14	1/2	7.14	1/2	7.14	1/2	7.14
3/4	2,126.74	3/4	1,760.67	3/4	1,394.87	3/4	1,029.66	3/4	664.19	3/4	305.28	3/4	3.58	3/4	3.58	3/4	3.58	3/4	3.58
8	2,119.11	8	1,753.04	8	1,387.27	8	1,022.06	8	656.56	8	298.25	8	0	8	0	8	0	8	0
1/4	2,111.48	1/4	1,745.41	1/4	1,379.67	1/4	1,014.46	1/4	648.93	1/4	291.22	1/4	0	1/4	0	1/4	0	1/4	0
1/2	2,103.86	1/2	1,737.79	1/2	1,372.07	1/2	1,006.86	1/2	641.31	1/2	284.18	1/2	0	1/2	0	1/2	0	1/2	0
3/4	2,096.23	3/4	1,730.16	3/4	1,364.47	3/4	999.27	3/4	633.68	3/4	277.15	3/4	0	3/4	0	3/4	0	3/4	0
9	2,088.61	9	1,722.53	9	1,356.87	9	991.67	9	626.05	9	270.20	9	0	9	0	9	0	9	0
1/4	2,080.98	1/4	1,714.91	1/4	1,349.27	1/4	984.07	1/4	618.42	1/4	263.25	1/4	0	1/4	0	1/4	0	1/4	0
1/2	2,073.36	1/2	1,707.28	1/2	1,341.67	1/2	976.47	1/2	610.80	1/2	256.30	1/2	0	1/2	0	1/2	0	1/2	0
3/4	2,065.73	3/4	1,699.65	3/4	1,334.07	3/4	968.87	3/4	603.17	3/4	249.35	3/4	0	3/4	0	3/4	0	3/4	0
10	2,058.10	10	1,692.03	10	1,326.47	10	961.28	10	595.54	10	242.49	10	0	10	0	10	0	10	0
1/4	2,050.47	1/4	1,684.40	1/4	1,318.87	1/4	953.68	1/4	587.91	1/4	235.63	1/4	0	1/4	0	1/4	0	1/4	0
1/2	2,042.85	1/2	1,676.77	1/2	1,311.27	1/2	946.08	1/2	580.29	1/2	228.76	1/2	0	1/2	0	1/2	0	1/2	0
3/4	2,035.22	3/4	1,669.15	3/4	1,303.67	3/4	938.48	3/4	572.66	3/4	221.90	3/4	0	3/4	0	3/4	0	3/4	0
11	2,027.59	11	1,661.52	11	1,296.06	11	930.88	11	565.03	11	215.12	11	0	11	0	11	0	11	0
1/4	2,019.97	1/4	1,653.89	1/4	1,288.44	1/4	923.29	1/4	557.41	1/4	208.34	1/4	0	1/4	0	1/4	0	1/4	0
1/2	2,012.34	1/2	1,646.27	1/2	1,280.83	1/2	915.69	1/2	549.78	1/2	201.56	1/2	0	1/2	0	1/2	0	1/2	0
3/4	2,004.72	3/4	1,638.64	3/4	1,273.22	3/4	908.09	3/4	542.15	3/4	194.78	3/4	0	3/4	0	3/4	0	3/4	0

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/21/2004 CL - SW
 CALCULATED: 09/24/2004 CL
 PRINTED: 09/24/2004 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28067"

2 PORT ULLAGE TABLE

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

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
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	4,530.99	0	4,201.15	0	3,847.70	0	3,484.35	0	3,120.97	0	2,757.60				
1/4	1/4	1/4	4,524.36	1/4	4,193.99	1/4	3,840.14	1/4	3,476.78	1/4	3,113.40	1/4	2,750.03						
1/2	1/2	1/2	4,517.72	1/2	4,186.83	1/2	3,832.58	1/2	3,469.21	1/2	3,105.83	1/2	2,742.46						
3/4	3/4	3/4	4,511.09	3/4	4,179.67	3/4	3,825.01	3/4	3,461.64	3/4	3,098.26	3/4	2,734.89						
1	1	1	4,504.42	1	4,172.48	1	3,817.44	1	3,454.07	1	3,090.69	1	2,727.32						
1/4	1/4	1/4	4,497.75	1/4	4,165.28	1/4	3,809.87	1/4	3,446.50	1/4	3,083.12	1/4	2,719.75						
1/2	1/2	1/2	4,491.09	1/2	4,158.09	1/2	3,802.30	1/2	3,438.93	1/2	3,075.55	1/2	2,712.18						
3/4	3/4	3/4	4,484.42	3/4	4,150.89	3/4	3,794.73	3/4	3,431.36	3/4	3,067.98	3/4	2,704.61						
2	2	2	4,477.72	2	4,143.66	2	3,787.19	2	3,423.79	2	3,060.41	2	2,697.04						
1/4	1/4	1/4	4,471.01	1/4	4,136.43	1/4	3,779.59	1/4	3,416.22	1/4	3,052.84	1/4	2,689.47						
1/2	1/2	1/2	4,464.31	1/2	4,129.20	1/2	3,772.02	1/2	3,408.65	1/2	3,045.27	1/2	2,681.90						
3/4	3/4	3/4	4,457.61	3/4	4,121.97	3/4	3,764.45	3/4	3,401.08	3/4	3,037.70	3/4	2,674.33						
3	3	3	4,450.87	3	4,114.70	3	3,756.88	3	3,393.51	3	3,030.13	3	2,666.76						
1/4	1/4	1/4	4,444.13	1/4	4,107.43	1/4	3,749.31	1/4	3,385.94	1/4	3,022.56	1/4	2,659.19						
1/2	1/2	1/2	4,437.39	1/2	4,100.17	1/2	3,741.74	1/2	3,378.36	1/2	3,014.99	1/2	2,651.62						
3/4	3/4	3/4	4,430.65	3/4	4,092.90	3/4	3,734.17	3/4	3,370.79	3/4	3,007.42	3/4	2,644.05						
4	4	4	4,423.88	4	4,085.60	4	3,726.60	4	3,363.22	4	2,999.85	4	2,636.48						
1/4	1/4	1/4	4,417.10	1/4	4,078.30	1/4	3,719.03	1/4	3,355.65	1/4	2,992.28	1/4	2,628.91						
1/2	1/2	1/2	4,410.32	1/2	4,071.00	1/2	3,711.46	1/2	3,348.08	1/2	2,984.71	1/2	2,621.33						
3/4	3/4	3/4	4,403.55	3/4	4,063.71	3/4	3,703.89	3/4	3,340.51	3/4	2,977.14	3/4	2,613.76						
5	5	5	4,396.73	5	4,056.37	5	3,696.32	5	3,332.94	5	2,969.57	5	2,606.19						
1/4	1/4	1/4	4,389.92	1/4	4,049.04	1/4	3,688.75	1/4	3,325.37	1/4	2,962.00	1/4	2,598.62						
1/2	1/2	1/2	4,383.11	1/2	4,041.70	1/2	3,681.18	1/2	3,317.80	1/2	2,954.43	1/2	2,591.05						
3/4	3/4	3/4	4,376.29	3/4	4,034.37	3/4	3,673.61	3/4	3,310.23	3/4	2,946.86	3/4	2,583.48						
6	6	6	4,369.44	6	4,027.00	6	3,666.04	6	3,302.66	6	2,939.29	6	2,575.91						
1/4	1/4	1/4	4,362.59	1/4	4,019.63	1/4	3,658.47	1/4	3,295.09	1/4	2,931.72	1/4	2,568.34						
1/2	1/2	1/2	4,355.74	1/2	4,012.28	1/2	3,650.90	1/2	3,287.52	1/2	2,924.15	1/2	2,560.77						
3/4	3/4	3/4	4,348.89	3/4	4,004.89	3/4	3,643.33	3/4	3,279.95	3/4	2,916.58	3/4	2,553.20						
7	7	7	4,341.98	7	3,997.48	7	3,635.76	7	3,272.38	7	2,909.01	7	2,545.63						
1/4	1/4	1/4	4,335.07	1/4	3,990.07	1/4	3,628.18	1/4	3,264.81	1/4	2,901.44	1/4	2,538.06						
1/2	1/2	1/2	4,328.16	1/2	3,982.56	1/2	3,620.61	1/2	3,257.24	1/2	2,893.87	1/2	2,530.49						
3/4	3/4	3/4	4,321.25	3/4	3,975.26	3/4	3,613.04	3/4	3,249.67	3/4	2,886.30	3/4	2,522.92						
8	8	8	4,314.27	8	3,967.81	8	3,605.47	8	3,242.10	8	2,878.73	8	2,515.35						
1/4	1/4	1/4	4,307.28	1/4	3,960.37	1/4	3,597.90	1/4	3,234.53	1/4	2,871.15	1/4	2,507.78						
1/2	1/2	1/2	4,300.29	1/2	3,952.92	1/2	3,590.33	1/2	3,226.96	1/2	2,863.58	1/2	2,500.21						
3/4	3/4	3/4	4,293.30	3/4	3,945.48	3/4	3,582.76	3/4	3,219.39	3/4	2,856.01	3/4	2,492.64						
9	9	9	4,286.26	9	3,937.99	9	3,575.19	9	3,211.82	9	2,848.44	9	2,485.07						
1/4	1/4	1/4	4,279.21	1/4	3,930.51	1/4	3,567.62	1/4	3,204.25	1/4	2,840.87	1/4	2,477.50						
1/2	1/2	1/2	4,272.16	1/2	3,923.03	1/2	3,560.05	1/2	3,196.68	1/2	2,833.30	1/2	2,469.93						
3/4	3/4	3/4	4,265.12	3/4	3,915.55	3/4	3,552.48	3/4	3,189.11	3/4	2,825.73	3/4	2,462.36						
10	10	10	4,258.03	10	3,908.03	10	3,544.91	10	3,181.54	10	2,818.16	10	2,454.79						
1/4	1/4	1/4	4,250.95	1/4	3,900.51	1/4	3,537.34	1/4	3,173.97	1/4	2,810.59	1/4	2,447.22						
1/2	1/2	1/2	4,243.87	1/2	3,892.99	1/2	3,529.77	1/2	3,166.40	1/2	2,803.02	1/2	2,439.65						
3/4	3/4	3/4	4,236.78	3/4	3,885.47	3/4	3,522.20	3/4	3,158.83	3/4	2,795.45	3/4	2,432.08						
11	11	11	4,229.66	11	3,877.92	11	3,514.63	11	3,151.26	11	2,787.88	11	2,424.51						
1/4	1/4	1/4	4,222.54	1/4	3,870.37	1/4	3,507.06	1/4	3,143.59	1/4	2,780.31	1/4	2,416.94						
1/2	1/2	1/2	4,215.42	1/2	3,862.82	1/2	3,499.49	1/2	3,136.12	1/2	2,772.74	1/2	2,409.37						
3/4	3/4	3/4	4,208.30	3/4	3,855.27	3/4	3,491.92	3/4	3,128.54	3/4	2,765.17	3/4	2,401.80						

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMIS 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.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "64-04" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (HERMETIC) LOCATED 12"-10" OFF CENTERLINE AND 64"-04" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28067"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS GAUGE HEIGHT 16'-07 3/4" 18 FT. 19 FT.

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,394.23	0	1,667.47	0	957.30	0	597.94	0	234.52	0
1/4	2,386.66	1/4	1,659.90	1/4	1,300.39	1/4	590.37	1/4	226.95	1/4
1/2	2,379.09	1/2	1,652.33	1/2	1,292.82	1/2	582.80	1/2	219.38	1/2
3/4	2,371.51	3/4	1,644.76	3/4	1,285.25	3/4	575.22	3/4	211.81	3/4
1	2,363.94	1	1,637.19	1	1,277.68	1	567.65	1	204.24	1
1 1/4	2,356.37	1 1/4	1,629.62	1 1/4	1,270.11	1 1/4	560.08	1 1/4	196.67	1 1/4
1 1/2	2,348.80	1 1/2	1,622.05	1 1/2	1,262.54	1 1/2	552.51	1 1/2	189.10	1 1/2
3/4	2,341.23	3/4	1,614.47	3/4	1,254.97	3/4	544.94	3/4	181.53	3/4
2	2,333.66	2	1,606.90	2	1,247.40	2	537.37	2	173.97	2
1 1/4	2,326.09	1 1/4	1,599.33	1 1/4	1,240.10	1 1/4	529.80	1 1/4	166.41	1 1/4
1 1/2	2,318.52	1 1/2	1,591.76	1 1/2	1,232.70	1 1/2	522.23	1 1/2	158.85	1 1/2
3/4	2,310.95	3/4	1,584.19	3/4	1,225.28	3/4	514.65	3/4	151.29	3/4
3	2,303.38	3	1,576.62	3	1,218.03	3	507.08	3	143.74	3
1 1/4	2,295.81	1 1/4	1,569.05	1 1/4	1,210.77	1 1/4	499.51	1 1/4	136.19	1 1/4
1 1/2	2,288.24	1 1/2	1,561.48	1 1/2	1,203.51	1 1/2	491.94	1 1/2	128.64	1 1/2
3/4	2,280.67	3/4	1,553.91	3/4	1,196.25	3/4	484.37	3/4	121.09	3/4
4	2,273.10	4	1,546.42	4	1,189.01	4	476.80	4	113.56	4
1 1/4	2,265.53	1 1/4	1,538.85	1 1/4	1,181.77	1 1/4	469.23	1 1/4	106.03	1 1/4
1 1/2	2,257.96	1 1/2	1,531.44	1 1/2	1,174.53	1 1/2	461.66	1 1/2	98.50	1 1/2
3/4	2,250.39	3/4	1,523.95	3/4	1,167.28	3/4	454.09	3/4	90.97	3/4
5	2,242.82	5	1,516.46	5	1,160.04	5	446.51	5	83.47	5
1 1/4	2,235.25	1 1/4	1,509.14	1 1/4	1,152.80	1 1/4	438.94	1 1/4	75.98	1 1/4
1 1/2	2,227.68	1 1/2	1,501.73	1 1/2	1,145.56	1 1/2	431.37	1 1/2	68.48	1 1/2
3/4	2,220.11	3/4	1,494.32	3/4	1,138.32	3/4	423.80	3/4	60.98	3/4
6	2,212.54	6	1,486.91	6	1,131.08	6	416.23	6	54.09	6
1 1/4	2,204.97	1 1/4	1,479.50	1 1/4	1,123.84	1 1/4	408.66	1 1/4	47.20	1 1/4
1 1/2	2,197.40	1 1/2	1,472.09	1 1/2	1,116.60	1 1/2	401.09	1 1/2	40.31	1 1/2
3/4	2,189.83	3/4	1,464.68	3/4	1,109.36	3/4	393.52	3/4	33.42	3/4
7	2,182.26	7	1,457.27	7	1,102.12	7	385.94	7	28.38	7
1 1/4	2,174.69	1 1/4	1,449.86	1 1/4	1,094.88	1 1/4	378.37	1 1/4	23.33	1 1/4
1 1/2	2,167.12	1 1/2	1,442.46	1 1/2	1,087.63	1 1/2	370.80	1 1/2	18.29	1 1/2
3/4	2,159.55	3/4	1,435.05	3/4	1,080.39	3/4	363.23	3/4	13.24	3/4
8	2,151.98	8	1,427.64	8	1,073.15	8	355.66	8	8	8
1 1/4	2,144.41	1 1/4	1,420.23	1 1/4	1,065.91	1 1/4	348.09	1 1/4	1/4	1/4
1 1/2	2,136.84	1 1/2	1,412.82	1 1/2	1,058.67	1 1/2	340.52	1 1/2	1/2	1/2
3/4	2,129.27	3/4	1,405.41	3/4	1,051.43	3/4	332.95	3/4	3/4	3/4
9	2,121.70	9	1,398.01	9	1,044.19	9	325.37	9	9	9
1 1/4	2,114.12	1 1/4	1,390.60	1 1/4	1,036.95	1 1/4	317.80	1 1/4	1/4	1/4
1 1/2	2,106.55	1 1/2	1,383.19	1 1/2	1,029.71	1 1/2	310.23	1 1/2	1/2	1/2
3/4	2,098.98	3/4	1,375.78	3/4	1,022.47	3/4	302.66	3/4	3/4	3/4
10	2,091.41	10	1,368.29	10	1,015.23	10	295.09	10	10	10
1 1/4	2,083.84	1 1/4	1,360.80	1 1/4	1,007.99	1 1/4	287.52	1 1/4	1/4	1/4
1 1/2	2,076.27	1 1/2	1,353.31	1 1/2	1,000.74	1 1/2	279.95	1 1/2	1/2	1/2
3/4	2,068.70	3/4	1,345.82	3/4	993.50	3/4	272.38	3/4	3/4	3/4
11	2,061.13	11	1,338.25	11	986.26	11	264.81	11	11	11
1 1/4	2,053.56	1 1/4	1,330.68	1 1/4	979.02	1 1/4	257.23	1 1/4	1/4	1/4
1 1/2	2,045.99	1 1/2	1,323.10	1 1/2	971.78	1 1/2	249.66	1 1/2	1/2	1/2
3/4	2,038.42	3/4	1,315.53	3/4	964.54	3/4	242.09	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/21/2004 CL - SW
 CALCULATED: 09/24/2004 CL
 PRINTED: 09/24/2004 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2004

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2992
 Pearland, Texas 77588
 http://www.pmacor.net



BARGE "KIRBY 28067"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	0	0	4,555.47	0	4,225.98	0	3,872.71	0	3,509.25	0	3,145.70	0	2,782.16					
1/4	1/4	1/4	1/4	4,548.83	1/4	4,218.82	1/4	3,865.21	1/4	3,501.68	1/4	3,138.13	1/4	2,774.58					
1/2	1/2	1/2	1/2	4,542.19	1/2	4,211.66	1/2	3,857.64	1/2	3,494.10	1/2	3,130.56	1/2	2,767.01					
3/4	3/4	3/4	3/4	4,535.55	3/4	4,204.50	3/4	3,850.07	3/4	3,486.53	3/4	3,122.98	3/4	2,759.43					
1	1	1	1	4,528.91	1	4,197.34	1	3,842.50	1	3,478.95	1	3,115.41	1	2,751.86					
1 1/4	1 1/4	1 1/4	1 1/4	4,522.24	1 1/4	4,190.14	1 1/4	3,834.93	1 1/4	3,471.38	1 1/4	3,107.83	1 1/4	2,744.29					
1 1/2	1 1/2	1 1/2	1 1/2	4,515.57	1 1/2	4,182.94	1 1/2	3,827.35	1 1/2	3,463.81	1 1/2	3,100.26	1 1/2	2,736.71					
1 3/4	1 3/4	1 3/4	1 3/4	4,508.90	1 3/4	4,175.74	1 3/4	3,819.78	1 3/4	3,456.23	1 3/4	3,092.69	1 3/4	2,729.14					
2	2	2	2	4,502.23	2	4,168.54	2	3,812.21	2	3,448.66	2	3,085.11	2	2,721.56					
2 1/4	2 1/4	2 1/4	2 1/4	4,495.52	2 1/4	4,161.31	2 1/4	3,804.63	2 1/4	3,441.09	2 1/4	3,077.54	2 1/4	2,713.99					
2 1/2	2 1/2	2 1/2	2 1/2	4,488.82	2 1/2	4,154.07	2 1/2	3,797.06	2 1/2	3,433.51	2 1/2	3,069.96	2 1/2	2,706.42					
2 3/4	2 3/4	2 3/4	2 3/4	4,482.11	2 3/4	4,146.84	2 3/4	3,789.48	2 3/4	3,425.94	2 3/4	3,062.39	2 3/4	2,698.84					
3	3	3	3	4,475.41	3	4,139.60	3	3,781.91	3	3,418.36	3	3,054.82	3	2,691.27					
3 1/4	3 1/4	3 1/4	3 1/4	4,468.66	3 1/4	4,132.33	3 1/4	3,774.34	3 1/4	3,410.79	3 1/4	3,047.24	3 1/4	2,683.70					
3 1/2	3 1/2	3 1/2	3 1/2	4,461.92	3 1/2	4,125.06	3 1/2	3,766.76	3 1/2	3,403.22	3 1/2	3,039.67	3 1/2	2,676.12					
3 3/4	3 3/4	3 3/4	3 3/4	4,455.18	3 3/4	4,117.79	3 3/4	3,759.19	3 3/4	3,395.64	3 3/4	3,032.09	3 3/4	2,668.55					
4	4	4	4	4,448.44	4	4,110.52	4	3,751.62	4	3,388.07	4	3,024.52	4	2,660.97					
4 1/4	4 1/4	4 1/4	4 1/4	4,441.66	4 1/4	4,103.22	4 1/4	3,744.04	4 1/4	3,380.49	4 1/4	3,016.95	4 1/4	2,653.40					
4 1/2	4 1/2	4 1/2	4 1/2	4,434.88	4 1/2	4,095.92	4 1/2	3,736.47	4 1/2	3,372.92	4 1/2	3,009.37	4 1/2	2,645.83					
4 3/4	4 3/4	4 3/4	4 3/4	4,428.10	4 3/4	4,088.62	4 3/4	3,728.89	4 3/4	3,365.35	4 3/4	3,001.80	4 3/4	2,638.25					
5	5	5	5	4,421.32	5	4,081.31	5	3,721.32	5	3,357.77	5	2,994.23	5	2,630.68					
5 1/4	5 1/4	5 1/4	5 1/4	4,414.50	5 1/4	4,073.98	5 1/4	3,713.75	5 1/4	3,350.20	5 1/4	2,986.65	5 1/4	2,623.10					
5 1/2	5 1/2	5 1/2	5 1/2	4,407.68	5 1/2	4,066.64	5 1/2	3,706.17	5 1/2	3,342.62	5 1/2	2,979.08	5 1/2	2,615.53					
5 3/4	5 3/4	5 3/4	5 3/4	4,400.87	5 3/4	4,059.30	5 3/4	3,698.60	5 3/4	3,335.05	5 3/4	2,971.50	5 3/4	2,607.96					
6	6	6	6	4,394.05	6	4,051.96	6	3,691.02	6	3,327.48	6	2,963.93	6	2,600.38					
6 1/4	6 1/4	6 1/4	6 1/4	4,387.20	6 1/4	4,044.59	6 1/4	3,683.45	6 1/4	3,319.90	6 1/4	2,956.36	6 1/4	2,592.81					
6 1/2	6 1/2	6 1/2	6 1/2	4,380.34	6 1/2	4,037.21	6 1/2	3,675.88	6 1/2	3,312.33	6 1/2	2,948.78	6 1/2	2,585.23					
6 3/4	6 3/4	6 3/4	6 3/4	4,373.49	6 3/4	4,029.84	6 3/4	3,668.30	6 3/4	3,304.76	6 3/4	2,941.21	6 3/4	2,577.66					
7	7	7	7	4,366.64	7	4,022.47	7	3,660.73	7	3,297.18	7	2,933.63	7	2,570.09					
7 1/4	7 1/4	7 1/4	7 1/4	4,359.79	7 1/4	4,015.05	7 1/4	3,653.15	7 1/4	3,289.61	7 1/4	2,926.06	7 1/4	2,562.51					
7 1/2	7 1/2	7 1/2	7 1/2	4,352.81	7 1/2	4,007.64	7 1/2	3,645.58	7 1/2	3,282.03	7 1/2	2,918.49	7 1/2	2,554.94					
7 3/4	7 3/4	7 3/4	7 3/4	4,345.90	7 3/4	4,000.23	7 3/4	3,638.01	7 3/4	3,274.46	7 3/4	2,910.91	7 3/4	2,547.37					
8	8	8	8	4,338.99	8	3,992.82	8	3,630.43	8	3,266.89	8	2,903.34	8	2,539.79					
8 1/4	8 1/4	8 1/4	8 1/4	4,331.99	8 1/4	3,985.37	8 1/4	3,622.86	8 1/4	3,259.31	8 1/4	2,895.76	8 1/4	2,532.22					
8 1/2	8 1/2	8 1/2	8 1/2	4,325.00	8 1/2	3,977.92	8 1/2	3,615.28	8 1/2	3,251.74	8 1/2	2,888.19	8 1/2	2,524.64					
8 3/4	8 3/4	8 3/4	8 3/4	4,318.01	8 3/4	3,970.47	8 3/4	3,607.71	8 3/4	3,244.16	8 3/4	2,880.62	8 3/4	2,517.07					
9	9	9	9	4,311.02	9	3,963.03	9	3,600.14	9	3,236.59	9	2,873.04	9	2,509.50					
9 1/4	9 1/4	9 1/4	9 1/4	4,303.97	9 1/4	3,955.54	9 1/4	3,592.56	9 1/4	3,229.02	9 1/4	2,865.47	9 1/4	2,501.92					
9 1/2	9 1/2	9 1/2	9 1/2	4,296.92	9 1/2	3,948.05	9 1/2	3,584.99	9 1/2	3,221.44	9 1/2	2,857.89	9 1/2	2,494.35					
9 3/4	9 3/4	9 3/4	9 3/4	4,289.87	9 3/4	3,940.57	9 3/4	3,577.42	9 3/4	3,213.87	9 3/4	2,850.32	9 3/4	2,486.77					
10	10	10	10	4,282.82	10	3,933.08	10	3,569.84	10	3,206.29	10	2,842.75	10	2,479.20					
10 1/4	10 1/4	10 1/4	10 1/4	4,275.74	10 1/4	3,925.56	10 1/4	3,562.27	10 1/4	3,198.72	10 1/4	2,835.17	10 1/4	2,471.63					
10 1/2	10 1/2	10 1/2	10 1/2	4,268.65	10 1/2	3,918.04	10 1/2	3,554.69	10 1/2	3,191.15	10 1/2	2,827.50	10 1/2	2,464.05					
10 3/4	10 3/4	10 3/4	10 3/4	4,261.56	10 3/4	3,910.51	10 3/4	3,547.12	10 3/4	3,183.57	10 3/4	2,820.03	10 3/4	2,456.48					
11	11	11	11	4,254.47	11	3,902.99	11	3,539.55	11	3,176.00	11	2,812.45	11	2,448.90					
11 1/4	11 1/4	11 1/4	11 1/4	4,247.35	11 1/4	3,895.44	11 1/4	3,531.97	11 1/4	3,168.42	11 1/4	2,804.88	11 1/4	2,441.33					
11 1/2	11 1/2	11 1/2	11 1/2	4,240.23	11 1/2	3,887.88	11 1/2	3,524.40	11 1/2	3,160.85	11 1/2	2,797.30	11 1/2	2,433.76					
11 3/4	11 3/4	11 3/4	11 3/4	4,233.10	11 3/4	3,880.33	11 3/4	3,516.82	11 3/4	3,153.28	11 3/4	2,789.73	11 3/4	2,426.18					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-10" OFF CENTERLINE AND 64'-04" FORWARD OF AFT BULKHEAD.

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

<http://www.pmacorp.net>



BARGE "KIRBY 28067"

2 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-08" 18 FT. 19 FT.

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,418.61	0	2,055.06	0	1,691.51	0	1,331.83	0	969.22	0	605.80	0	242.21	0		0			
1/4	2,411.03	1/4	1,683.93	1/4	1,324.26	1/4	981.67	1/4	598.23	1/4	234.63	1/4		1/4		1/4			
1/2	2,403.46	1/2	2,039.91	1/2	1,676.36	1/2	1,316.68	1/2	954.12	1/2	590.65	1/2	227.06	1/2		1/2			
3/4	2,395.89	3/4	2,032.34	3/4	1,668.78	3/4	1,309.11	3/4	946.58	3/4	583.08	3/4	219.48	3/4		3/4			
1	2,388.31	1	2,024.77	1	1,661.21	1	1,301.53	1	939.03	1	575.50	1	211.91	1		1			
1/4	2,380.74	1/4	2,017.19	1/4	1,653.64	1/4	1,293.96	1/4	931.47	1/4	567.93	1/4	204.34	1/4		1/4			
1/2	2,373.17	1/2	2,009.62	1/2	1,646.06	1/2	1,286.38	1/2	923.91	1/2	560.35	1/2	196.76	1/2		1/2			
3/4	2,365.59	3/4	2,002.04	3/4	1,638.49	3/4	1,278.81	3/4	916.34	3/4	552.78	3/4	189.19	3/4		3/4			
2	2,358.02	2	1,994.47	2	1,630.91	2	1,271.23	2	908.78	2	545.20	2	181.62	2		2			
1/4	2,350.44	1/4	1,986.90	1/4	1,623.34	1/4	1,263.66	1/4	901.21	1/4	537.63	1/4	174.06	1/4		1/4			
1/2	2,342.87	1/2	1,979.32	1/2	1,615.77	1/2	1,256.08	1/2	893.63	1/2	529.55	1/2	166.49	1/2		1/2			
3/4	2,335.30	3/4	1,971.75	3/4	1,608.19	3/4	1,248.51	3/4	886.06	3/4	522.48	3/4	158.92	3/4		3/4			
3	2,327.72	3	1,964.17	3	1,600.62	3	1,240.93	3	878.48	3	514.90	3	151.36	3		3			
1/4	2,320.15	1/4	1,956.60	1/4	1,593.04	1/4	1,233.37	1/4	870.91	1/4	507.33	1/4	143.81	1/4		1/4			
1/2	2,312.57	1/2	1,949.03	1/2	1,585.47	1/2	1,225.81	1/2	863.33	1/2	499.75	1/2	136.25	1/2		1/2			
3/4	2,305.00	3/4	1,941.45	3/4	1,577.89	3/4	1,218.25	3/4	855.76	3/4	492.18	3/4	128.70	3/4		3/4			
4	2,297.43	4	1,933.88	4	1,570.32	4	1,210.68	4	848.19	4	484.60	4	121.15	4		4			
1/4	2,289.85	1/4	1,926.30	1/4	1,562.83	1/4	1,203.14	1/4	840.61	1/4	477.03	1/4	113.61	1/4		1/4			
1/2	2,282.28	1/2	1,918.73	1/2	1,555.33	1/2	1,195.59	1/2	833.04	1/2	469.45	1/2	106.08	1/2		1/2			
3/4	2,274.70	3/4	1,911.16	3/4	1,547.84	3/4	1,188.04	3/4	825.46	3/4	461.88	3/4	98.55	3/4		3/4			
5	2,267.13	5	1,903.58	5	1,540.35	5	1,180.50	5	817.89	5	454.30	5	91.01	5		5			
1/4	2,259.56	1/4	1,896.01	1/4	1,532.94	1/4	1,172.95	1/4	810.31	1/4	446.73	1/4	83.51	1/4		1/4			
1/2	2,251.98	1/2	1,888.43	1/2	1,525.52	1/2	1,165.40	1/2	802.74	1/2	439.15	1/2	76.01	1/2		1/2			
3/4	2,244.41	3/4	1,880.86	3/4	1,518.11	3/4	1,157.86	3/4	795.17	3/4	431.58	3/4	68.51	3/4		3/4			
6	2,236.84	6	1,873.28	6	1,510.70	6	1,150.31	6	787.59	6	424.00	6	61.01	6		6			
1/4	2,229.26	1/4	1,865.71	1/4	1,503.29	1/4	1,142.77	1/4	780.02	1/4	416.43	1/4	54.12	1/4		1/4			
1/2	2,221.69	1/2	1,858.14	1/2	1,495.88	1/2	1,135.22	1/2	772.44	1/2	408.85	1/2	47.23	1/2		1/2			
3/4	2,214.11	3/4	1,850.56	3/4	1,488.46	3/4	1,127.68	3/4	764.87	3/4	401.28	3/4	40.33	3/4		3/4			
7	2,206.54	7	1,842.99	7	1,481.05	7	1,120.13	7	757.29	7	393.71	7	33.44	7		7			
1/4	2,198.97	1/4	1,835.41	1/4	1,473.64	1/4	1,112.59	1/4	749.72	1/4	386.13	1/4	28.39	1/4		1/4			
1/2	2,191.39	1/2	1,827.84	1/2	1,466.23	1/2	1,105.04	1/2	742.14	1/2	378.56	1/2	23.34	1/2		1/2			
3/4	2,183.82	3/4	1,820.27	3/4	1,458.82	3/4	1,097.49	3/4	734.57	3/4	370.98	3/4	18.30	3/4		3/4			
8	2,176.24	8	1,812.69	8	1,451.40	8	1,089.95	8	727.00	8	363.41	8	13.25	8		8			
1/4	2,168.67	1/4	1,805.12	1/4	1,443.99	1/4	1,082.40	1/4	719.42	1/4	355.83	1/4		1/4		1/4			
1/2	2,161.10	1/2	1,797.54	1/2	1,436.58	1/2	1,074.86	1/2	711.85	1/2	348.26	1/2		1/2		1/2			
3/4	2,153.52	3/4	1,789.97	3/4	1,429.17	3/4	1,067.31	3/4	704.27	3/4	340.68	3/4		3/4		3/4			
9	2,145.95	9	1,782.40	9	1,421.75	9	1,059.77	9	696.70	9	333.11	9		9		9			
1/4	2,138.37	1/4	1,774.82	1/4	1,414.34	1/4	1,052.22	1/4	689.12	1/4	325.53	1/4		1/4		1/4			
1/2	2,130.80	1/2	1,767.25	1/2	1,406.93	1/2	1,044.68	1/2	681.55	1/2	317.96	1/2		1/2		1/2			
3/4	2,123.23	3/4	1,759.67	3/4	1,399.52	3/4	1,037.13	3/4	673.98	3/4	310.38	3/4		3/4		3/4			
10	2,115.65	10	1,752.10	10	1,392.10	10	1,029.58	10	666.40	10	302.81	10		10		10			
1/4	2,108.08	1/4	1,744.53	1/4	1,384.61	1/4	1,022.04	1/4	658.83	1/4	295.23	1/4		1/4		1/4			
1/2	2,100.50	1/2	1,736.95	1/2	1,377.12	1/2	1,014.49	1/2	651.25	1/2	287.66	1/2		1/2		1/2			
3/4	2,092.93	3/4	1,729.38	3/4	1,369.62	3/4	1,006.95	3/4	643.68	3/4	280.08	3/4		3/4		3/4			
11	2,085.36	11	1,721.80	11	1,362.13	11	999.40	11	636.10	11	272.51	11		11		11			
1/4	2,077.78	1/4	1,714.23	1/4	1,354.55	1/4	991.86	1/4	628.53	1/4	264.93	1/4		1/4		1/4			
1/2	2,070.21	1/2	1,706.65	1/2	1,346.98	1/2	984.31	1/2	620.95	1/2	257.36	1/2		1/2		1/2			
3/4	2,062.64	3/4	1,699.08	3/4	1,339.40	3/4	976.76	3/4	613.38	3/4	249.78	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/21/2004 CL - SW
 CALCULATED: 09/24/2004 CL
 PRINTED: 09/24/2004 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28067"

3 PORT ULLAGE TABLE

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

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
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	4,209.93	0	3,949.84	0	3,676.79	0	3,396.19	0	3,036.16	0	2,673.14	0
1/4	0	1/4	0	1/4	0	1/4	0	4,204.64	1/4	3,944.24	1/4	3,669.96	1/4	3,389.48	1/4	3,028.59	1/4	2,665.57	1/4
1/2	0	1/2	0	1/2	0	1/2	0	4,199.36	1/2	3,938.64	1/2	3,664.14	1/2	3,382.78	1/2	3,021.03	1/2	2,658.01	1/2
3/4	0	3/4	0	3/4	0	3/4	0	4,194.07	3/4	3,933.03	3/4	3,658.32	3/4	3,376.07	3/4	3,013.47	3/4	2,650.45	3/4
1	0	1	0	1	0	1	0	4,444.40	1	3,927.43	1	3,652.49	1	3,369.37	1	3,005.91	1	2,642.89	1
1/4	1	1/4	1	1/4	1	1/4	1	4,188.79	1/4	3,921.81	1/4	3,646.67	1/4	3,361.79	1/4	2,998.34	1/4	2,635.32	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,178.19	1/2	3,916.18	1/2	3,640.84	1/2	3,354.20	1/2	2,990.78	1/2	2,627.76	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,172.88	3/4	3,910.56	3/4	3,635.02	3/4	3,346.62	3/4	2,983.22	3/4	2,620.20	3/4
2	0	2	0	2	0	2	0	4,424.28	2	3,904.94	2	3,629.19	2	3,339.04	2	2,975.65	2	2,612.63	2
1/4	1	1/4	1	1/4	1	1/4	1	4,162.26	1/4	3,899.29	1/4	3,623.37	1/4	3,331.45	1/4	2,968.09	1/4	2,605.07	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,156.94	1/2	3,893.65	1/2	3,617.54	1/2	3,323.87	1/2	2,960.53	1/2	2,597.51	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,151.62	3/4	3,888.01	3/4	3,611.72	3/4	3,316.29	3/4	2,952.96	3/4	2,589.95	3/4
3	0	3	0	3	0	3	0	4,401.63	3	3,882.36	3	3,605.89	3	3,308.71	3	2,945.40	3	2,582.38	3
1/4	1	1/4	1	1/4	1	1/4	1	4,140.96	1/4	3,876.70	1/4	3,600.07	1/4	3,301.12	1/4	2,937.84	1/4	2,574.82	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,135.62	1/2	3,871.04	1/2	3,594.24	1/2	3,293.54	1/2	2,930.28	1/2	2,567.26	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,130.28	3/4	3,865.38	3/4	3,588.42	3/4	3,285.96	3/4	2,922.71	3/4	2,559.69	3/4
4	0	4	0	4	0	4	0	4,124.94	4	3,859.71	4	3,582.59	4	3,278.37	4	2,915.15	4	2,552.13	4
1/4	1	1/4	1	1/4	1	1/4	1	4,119.58	1/4	3,854.04	1/4	3,576.77	1/4	3,270.79	1/4	2,907.59	1/4	2,544.57	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,114.22	1/2	3,848.36	1/2	3,570.94	1/2	3,263.21	1/2	2,900.02	1/2	2,537.01	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,108.86	3/4	3,842.68	3/4	3,565.12	3/4	3,255.63	3/4	2,892.46	3/4	2,529.44	3/4
5	0	5	0	5	0	5	0	4,103.50	5	3,837.00	5	3,559.29	5	3,248.04	5	2,884.90	5	2,521.88	5
1/4	1	1/4	1	1/4	1	1/4	1	4,098.12	1/4	3,831.30	1/4	3,553.47	1/4	3,240.46	1/4	2,877.34	1/4	2,514.32	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,092.74	1/2	3,825.60	1/2	3,547.64	1/2	3,232.88	1/2	2,869.77	1/2	2,506.75	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,087.36	3/4	3,819.90	3/4	3,541.82	3/4	3,225.29	3/4	2,862.21	3/4	2,499.19	3/4
6	0	6	0	6	0	6	0	4,081.98	6	3,814.20	6	3,535.99	6	3,217.71	6	2,854.65	6	2,491.63	6
1/4	1	1/4	1	1/4	1	1/4	1	4,076.58	1/4	3,808.49	1/4	3,530.16	1/4	3,210.14	1/4	2,847.08	1/4	2,484.07	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,071.18	1/2	3,802.77	1/2	3,524.34	1/2	3,202.56	1/2	2,839.52	1/2	2,476.50	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,065.78	3/4	3,797.05	3/4	3,518.51	3/4	3,194.99	3/4	2,831.96	3/4	2,468.94	3/4
7	0	7	0	7	0	7	0	4,060.38	7	3,791.33	7	3,512.69	7	3,187.41	7	2,824.40	7	2,461.38	7
1/4	1	1/4	1	1/4	1	1/4	1	4,054.94	1/4	3,785.59	1/4	3,506.86	1/4	3,179.85	1/4	2,816.83	1/4	2,453.81	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,049.50	1/2	3,779.85	1/2	3,501.04	1/2	3,172.29	1/2	2,809.27	1/2	2,446.25	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,044.06	3/4	3,774.12	3/4	3,495.21	3/4	3,164.73	3/4	2,801.71	3/4	2,438.69	3/4
8	0	8	0	8	0	8	0	4,038.62	8	3,768.38	8	3,489.39	8	3,157.16	8	2,794.14	8	2,431.12	8
1/4	1	1/4	1	1/4	1	1/4	1	4,033.12	1/4	3,762.62	1/4	3,483.56	1/4	3,149.60	1/4	2,786.58	1/4	2,423.56	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,027.62	1/2	3,756.86	1/2	3,477.74	1/2	3,142.04	1/2	2,779.02	1/2	2,416.00	1/2
3/4	1	3/4	1	3/4	1	3/4	1	4,022.11	3/4	3,751.11	3/4	3,471.91	3/4	3,134.47	3/4	2,771.46	3/4	2,408.44	3/4
9	0	9	0	9	0	9	0	4,016.61	9	3,745.35	9	3,466.09	9	3,126.91	9	2,763.89	9	2,400.87	9
1/4	1	1/4	1	1/4	1	1/4	1	4,011.07	1/4	3,739.57	1/4	3,460.26	1/4	3,119.35	1/4	2,756.33	1/4	2,393.31	1/4
1/2	1	1/2	1	1/2	1	1/2	1	4,005.52	1/2	3,733.79	1/2	3,454.44	1/2	3,111.79	1/2	2,748.77	1/2	2,385.75	1/2
3/4	1	3/4	1	3/4	1	3/4	1	3,999.98	3/4	3,728.01	3/4	3,448.61	3/4	3,104.22	3/4	2,741.20	3/4	2,378.18	3/4
10	0	10	0	10	0	10	0	3,994.43	10	3,722.24	10	3,442.79	10	3,096.66	10	2,733.64	10	2,370.62	10
1/4	1	1/4	1	1/4	1	1/4	1	3,988.87	1/4	3,716.44	1/4	3,436.96	1/4	3,089.10	1/4	2,726.08	1/4	2,363.06	1/4
1/2	1	1/2	1	1/2	1	1/2	1	3,983.31	1/2	3,710.64	1/2	3,431.14	1/2	3,081.53	1/2	2,718.51	1/2	2,355.50	1/2
3/4	1	3/4	1	3/4	1	3/4	1	3,977.74	3/4	3,704.84	3/4	3,425.31	3/4	3,073.97	3/4	2,710.95	3/4	2,347.93	3/4
11	0	11	0	11	0	11	0	3,972.18	11	3,699.04	11	3,419.49	11	3,066.41	11	2,703.39	11	2,340.37	11
1/4	1	1/4	1	1/4	1	1/4	1	3,966.60	1/4	3,693.23	1/4	3,413.66	1/4	3,058.85	1/4	2,695.83	1/4	2,332.81	1/4
1/2	1	1/2	1	1/2	1	1/2	1	3,961.01	1/2	3,687.42	1/2	3,407.84	1/2	3,051.28	1/2	2,688.26	1/2	2,325.24	1/2
3/4	1	3/4	1	3/4	1	3/4	1	3,955.43	3/4	3,681.60	3/4	3,402.01	3/4	3,043.72	3/4	2,680.70	3/4	2,317.68	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-10" OFF CENTERLINE AND 54'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28067"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-06"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,310.12	0	1,947.10	0	1,584.12	0	1,225.62	0	871.49	0	515.62	0	151.59	0		0		0	
1/4	2,302.56	1/4	1,939.54	1/4	1,576.58	1/4	1,218.07	1/4	864.15	1/4	508.03	1/4	144.32	1/4		1/4		1/4	
1/2	2,294.99	1/2	1,931.97	1/2	1,569.04	1/2	1,210.52	1/2	856.80	1/2	500.45	1/2	137.06	1/2		1/2		1/2	
3/4	2,287.43	3/4	1,924.41	3/4	1,561.50	3/4	1,202.98	3/4	849.45	3/4	492.87	3/4	129.79	3/4		3/4		3/4	
1	2,279.87	1	1,916.85	1	1,553.96	1	1,195.43	1	842.11	1	485.28	1	122.52	1		1		1	
1/4	2,272.30	1/4	1,909.28	1/4	1,546.42	1/4	1,187.88	1/4	834.75	1/4	477.70	1/4	116.20	1/4		1/4		1/4	
1/2	2,264.74	1/2	1,901.72	1/2	1,538.88	1/2	1,180.33	1/2	827.39	1/2	470.12	1/2	109.88	1/2		1/2		1/2	
3/4	2,257.18	3/4	1,894.16	3/4	1,531.34	3/4	1,172.79	3/4	820.02	3/4	462.53	3/4	103.56	3/4		3/4		3/4	
2	2,249.62	2	1,886.59	2	1,523.80	2	1,165.24	2	812.66	2	454.95	2	97.25	2		2		2	
1/4	2,242.05	1/4	1,879.03	1/4	1,516.26	1/4	1,157.79	1/4	805.29	1/4	447.36	1/4	92.20	1/4		1/4		1/4	
1/2	2,234.49	1/2	1,871.47	1/2	1,508.72	1/2	1,150.35	1/2	797.92	1/2	439.78	1/2	87.15	1/2		1/2		1/2	
3/4	2,226.93	3/4	1,863.90	3/4	1,501.18	3/4	1,142.91	3/4	790.54	3/4	432.20	3/4	82.10	3/4		3/4		3/4	
3	2,219.36	3	1,856.34	3	1,493.64	3	1,135.47	3	783.17	3	424.61	3	77.05	3		3		3	
1/4	2,211.80	1/4	1,848.78	1/4	1,486.10	1/4	1,128.13	1/4	775.80	1/4	417.03	1/4	73.27	1/4		1/4		1/4	
1/2	2,204.24	1/2	1,841.21	1/2	1,478.56	1/2	1,120.80	1/2	768.42	1/2	409.44	1/2	69.50	1/2		1/2		1/2	
3/4	2,196.67	3/4	1,833.65	3/4	1,471.02	3/4	1,113.46	3/4	761.05	3/4	401.86	3/4	65.72	3/4		3/4		3/4	
4	2,189.11	4	1,826.09	4	1,463.48	4	1,106.13	4	753.68	4	394.28	4	61.95	4		4		4	
1/4	2,181.55	1/4	1,818.53	1/4	1,456.02	1/4	1,098.80	1/4	746.30	1/4	386.69	1/4	59.46	1/4		1/4		1/4	
1/2	2,173.99	1/2	1,810.96	1/2	1,448.56	1/2	1,091.47	1/2	738.93	1/2	379.11	1/2	56.97	1/2		1/2		1/2	
3/4	2,166.42	3/4	1,803.40	3/4	1,441.10	3/4	1,084.15	3/4	731.56	3/4	371.52	3/4	54.47	3/4		3/4		3/4	
5	2,158.86	5	1,795.84	5	1,433.65	5	1,076.82	5	724.18	5	363.94	5	51.98	5		5		5	
1/4	2,151.30	1/4	1,788.27	1/4	1,426.26	1/4	1,069.49	1/4	716.81	1/4	356.36	1/4	50.78	1/4		1/4		1/4	
1/2	2,143.73	1/2	1,780.71	1/2	1,418.87	1/2	1,062.16	1/2	709.43	1/2	348.77	1/2	49.59	1/2		1/2		1/2	
3/4	2,136.17	3/4	1,773.15	3/4	1,411.48	3/4	1,054.84	3/4	702.06	3/4	341.19	3/4	48.39	3/4		3/4		3/4	
6	2,128.61	6	1,765.58	6	1,404.09	6	1,047.51	6	694.69	6	333.61	6	47.20	6		6		6	
1/4	2,121.05	1/4	1,758.02	1/4	1,396.68	1/4	1,040.18	1/4	687.31	1/4	326.02	1/4		1/4		1/4		1/4	
1/2	2,113.48	1/2	1,750.46	1/2	1,389.26	1/2	1,032.86	1/2	679.94	1/2	318.44	1/2		1/2		1/2		1/2	
3/4	2,105.92	3/4	1,742.89	3/4	1,381.88	3/4	1,025.53	3/4	672.57	3/4	310.85	3/4		3/4		3/4		3/4	
7	2,098.36	7	1,735.33	7	1,374.48	7	1,018.21	7	665.19	7	303.27	7		7		7		7	
1/4	2,090.79	1/4	1,727.77	1/4	1,367.07	1/4	1,010.88	1/4	657.82	1/4	295.69	1/4		1/4		1/4		1/4	
1/2	2,083.23	1/2	1,720.20	1/2	1,359.67	1/2	1,003.55	1/2	650.45	1/2	288.10	1/2		1/2		1/2		1/2	
3/4	2,075.67	3/4	1,712.64	3/4	1,352.27	3/4	996.23	3/4	643.07	3/4	280.52	3/4		3/4		3/4		3/4	
8	2,068.11	8	1,705.08	8	1,344.87	8	988.90	8	635.70	8	272.93	8		8		8		8	
1/4	2,060.54	1/4	1,697.52	1/4	1,337.46	1/4	981.57	1/4	628.33	1/4	265.35	1/4		1/4		1/4		1/4	
1/2	2,052.98	1/2	1,689.95	1/2	1,330.06	1/2	974.25	1/2	620.95	1/2	257.77	1/2		1/2		1/2		1/2	
3/4	2,045.42	3/4	1,682.39	3/4	1,322.66	3/4	966.92	3/4	613.58	3/4	250.18	3/4		3/4		3/4		3/4	
9	2,037.85	9	1,674.83	9	1,315.26	9	959.59	9	606.21	9	242.60	9		9		9		9	
1/4	2,030.29	1/4	1,667.26	1/4	1,307.86	1/4	952.26	1/4	598.73	1/4	235.01	1/4		1/4		1/4		1/4	
1/2	2,022.73	1/2	1,659.70	1/2	1,300.47	1/2	944.92	1/2	591.25	1/2	227.43	1/2		1/2		1/2		1/2	
3/4	2,015.17	3/4	1,652.14	3/4	1,293.07	3/4	937.59	3/4	583.77	3/4	219.85	3/4		3/4		3/4		3/4	
10	2,007.60	10	1,644.57	10	1,285.68	10	930.25	10	576.29	10	212.26	10		10		10		10	
1/4	2,000.04	1/4	1,637.01	1/4	1,278.21	1/4	922.91	1/4	568.71	1/4	204.68	1/4		1/4		1/4		1/4	
1/2	1,992.48	1/2	1,629.45	1/2	1,270.75	1/2	915.56	1/2	561.12	1/2	197.09	1/2		1/2		1/2		1/2	
3/4	1,984.91	3/4	1,621.88	3/4	1,263.28	3/4	908.22	3/4	553.64	3/4	189.51	3/4		3/4		3/4		3/4	
11	1,977.35	11	1,614.32	11	1,255.81	11	900.87	11	545.95	11	181.93	11		11		11		11	
1/4	1,969.79	1/4	1,606.77	1/4	1,248.26	1/4	893.53	1/4	538.37	1/4	174.34	1/4		1/4		1/4		1/4	
1/2	1,962.22	1/2	1,599.22	1/2	1,240.72	1/2	886.18	1/2	530.79	1/2	166.76	1/2		1/2		1/2		1/2	
3/4	1,954.66	3/4	1,591.67	3/4	1,233.17	3/4	878.84	3/4	523.20	3/4	159.18	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/21/2004 CL - SW
 CALCULATED: 09/24/2004 CL
 PRINTED: 09/24/2004 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28067"

3 STBD

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.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,330.60	0	1,966.62	0	1,602.63	0	1,242.52	0	879.47	0	515.62	0	151.59	0		0		0	
1/4	2,313.02	1/4	1,959.04	1/4	1,595.05	1/4	1,234.93	1/4	871.92	1/4	508.03	1/4	144.32	1/4		1/4		1/4	
1/2	2,315.44	1/2	1,951.46	1/2	1,587.47	1/2	1,227.35	1/2	864.36	1/2	500.45	1/2	137.06	1/2		1/2		1/2	
3/4	2,307.85	3/4	1,943.87	3/4	1,579.88	3/4	1,219.77	3/4	856.80	3/4	492.87	3/4	129.79	3/4		3/4		3/4	
1	2,300.27	1	1,936.29	1	1,572.30	1	1,212.18	1	849.25	1	485.28	1	122.52	1		1		1	
1/4	2,292.69	1/4	1,928.71	1/4	1,564.72	1/4	1,204.60	1/4	841.68	1/4	477.70	1/4	116.20	1/4		1/4		1/4	
1/2	2,285.11	1/2	1,921.12	1/2	1,557.14	1/2	1,197.02	1/2	834.10	1/2	470.12	1/2	109.88	1/2		1/2		1/2	
3/4	2,277.52	3/4	1,913.54	3/4	1,549.56	3/4	1,189.43	3/4	826.53	3/4	462.53	3/4	103.56	3/4		3/4		3/4	
2	2,269.94	2	1,905.96	2	1,541.97	2	1,181.85	2	818.96	2	454.95	2	97.25	2		2		2	
1/4	2,262.36	1/4	1,898.37	1/4	1,534.39	1/4	1,174.26	1/4	811.38	1/4	447.36	1/4	92.20	1/4		1/4		1/4	
1/2	2,254.77	1/2	1,890.79	1/2	1,526.80	1/2	1,166.68	1/2	803.80	1/2	439.78	1/2	87.15	1/2		1/2		1/2	
3/4	2,247.19	3/4	1,883.21	3/4	1,519.22	3/4	1,159.10	3/4	796.21	3/4	432.20	3/4	82.10	3/4		3/4		3/4	
3	2,239.61	3	1,875.63	3	1,511.64	3	1,151.51	3	788.63	3	424.61	3	77.05	3		3		3	
1/4	2,232.03	1/4	1,868.04	1/4	1,504.05	1/4	1,143.94	1/4	781.05	1/4	417.03	1/4	73.27	1/4		1/4		1/4	
1/2	2,224.44	1/2	1,860.46	1/2	1,496.47	1/2	1,136.37	1/2	773.46	1/2	409.44	1/2	69.50	1/2		1/2		1/2	
3/4	2,216.86	3/4	1,852.88	3/4	1,488.89	3/4	1,128.80	3/4	765.88	3/4	401.86	3/4	65.72	3/4		3/4		3/4	
4	2,209.28	4	1,845.29	4	1,481.30	4	1,121.23	4	758.30	4	394.28	4	61.95	4		4		4	
1/4	2,201.69	1/4	1,837.71	1/4	1,473.70	1/4	1,113.67	1/4	750.71	1/4	386.69	1/4	59.46	1/4		1/4		1/4	
1/2	2,194.11	1/2	1,830.13	1/2	1,466.10	1/2	1,106.11	1/2	743.13	1/2	379.11	1/2	56.97	1/2		1/2		1/2	
3/4	2,186.53	3/4	1,822.54	3/4	1,458.50	3/4	1,098.56	3/4	735.55	3/4	371.52	3/4	54.47	3/4		3/4		3/4	
5	2,178.95	5	1,814.96	5	1,451.30	5	1,091.00	5	727.96	5	363.94	5	51.98	5		5		5	
1/4	2,171.36	1/4	1,807.38	1/4	1,443.87	1/4	1,083.45	1/4	720.38	1/4	356.36	1/4	50.78	1/4		1/4		1/4	
1/2	2,163.78	1/2	1,799.79	1/2	1,436.45	1/2	1,075.89	1/2	712.79	1/2	348.77	1/2	49.59	1/2		1/2		1/2	
3/4	2,156.20	3/4	1,792.21	3/4	1,429.03	3/4	1,068.34	3/4	705.21	3/4	341.19	3/4	48.39	3/4		3/4		3/4	
6	2,148.61	6	1,784.63	6	1,421.61	6	1,060.78	6	697.63	6	333.61	6	47.20	6		6		6	
1/4	2,141.03	1/4	1,777.05	1/4	1,414.19	1/4	1,053.23	1/4	690.04	1/4	326.02	1/4	46.00	1/4		1/4		1/4	
1/2	2,133.45	1/2	1,769.46	1/2	1,406.77	1/2	1,045.67	1/2	682.46	1/2	318.44	1/2	44.81	1/2		1/2		1/2	
3/4	2,125.87	3/4	1,761.88	3/4	1,399.35	3/4	1,038.12	3/4	674.88	3/4	310.85	3/4	43.62	3/4		3/4		3/4	
7	2,118.28	7	1,754.30	7	1,391.92	7	1,030.56	7	667.29	7	303.27	7	42.43	7		7		7	
1/4	2,110.70	1/4	1,746.71	1/4	1,384.50	1/4	1,023.01	1/4	659.71	1/4	295.69	1/4	41.24	1/4		1/4		1/4	
1/2	2,103.12	1/2	1,739.13	1/2	1,377.08	1/2	1,015.46	1/2	652.13	1/2	288.10	1/2	40.05	1/2		1/2		1/2	
3/4	2,095.53	3/4	1,731.55	3/4	1,369.66	3/4	1,007.90	3/4	644.54	3/4	280.52	3/4	38.86	3/4		3/4		3/4	
8	2,087.95	8	1,723.96	8	1,362.24	8	1,000.35	8	636.96	8	272.93	8	37.67	8		8		8	
1/4	2,080.37	1/4	1,716.38	1/4	1,354.82	1/4	992.79	1/4	629.38	1/4	265.35	1/4	36.48	1/4		1/4		1/4	
1/2	2,072.78	1/2	1,708.80	1/2	1,347.40	1/2	985.24	1/2	621.79	1/2	257.77	1/2	35.29	1/2		1/2		1/2	
3/4	2,065.20	3/4	1,701.21	3/4	1,339.97	3/4	977.68	3/4	614.21	3/4	250.18	3/4	34.10	3/4		3/4		3/4	
9	2,057.62	9	1,693.63	9	1,332.55	9	970.13	9	606.63	9	242.60	9	32.91	9		9		9	
1/4	2,050.04	1/4	1,686.05	1/4	1,325.13	1/4	962.57	1/4	599.04	1/4	235.01	1/4	31.72	1/4		1/4		1/4	
1/2	2,042.45	1/2	1,678.46	1/2	1,317.71	1/2	955.02	1/2	591.46	1/2	227.43	1/2	30.53	1/2		1/2		1/2	
3/4	2,034.87	3/4	1,670.88	3/4	1,310.29	3/4	947.46	3/4	583.87	3/4	219.85	3/4	29.34	3/4		3/4		3/4	
10	2,027.29	10	1,663.30	10	1,302.86	10	939.91	10	576.29	10	212.26	10	28.15	10		10		10	
1/4	2,019.70	1/4	1,655.72	1/4	1,295.36	1/4	932.35	1/4	568.71	1/4	204.68	1/4	26.96	1/4		1/4		1/4	
1/2	2,012.12	1/2	1,648.13	1/2	1,287.84	1/2	924.80	1/2	561.12	1/2	197.09	1/2	25.77	1/2		1/2		1/2	
3/4	2,004.54	3/4	1,640.55	3/4	1,280.36	3/4	917.25	3/4	553.54	3/4	189.51	3/4	24.58	3/4		3/4		3/4	
11	1,996.96	11	1,632.97	11	1,272.85	11	909.69	11	545.95	11	181.93	11	23.39	11		11		11	
1/4	1,989.37	1/4	1,625.38	1/4	1,265.27	1/4	902.14	1/4	538.37	1/4	174.34	1/4	22.20	1/4		1/4		1/4	
1/2	1,981.79	1/2	1,617.80	1/2	1,257.69	1/2	894.58	1/2	530.79	1/2	166.76	1/2	21.01	1/2		1/2		1/2	
3/4	1,974.21	3/4	1,610.22	3/4	1,250.10	3/4	887.03	3/4	523.20	3/4	159.18	3/4	19.82	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.