



BARGE "KIRBY 11313"

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 CENTER	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 CENTER	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 CENTER	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

(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 CENTER IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 162'-09"

August 5, 2005

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 11313"

1 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10"

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	3,665.76	0	3,418.04	0	3,170.55	0	2,921.87	0	2,649.03	0	2,376.09	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,660.60	1/4	3,412.88	1/4	3,165.39	1/4	2,916.18	1/4	2,643.35	1/4	2,370.41	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,655.44	1/2	3,407.72	1/2	3,160.23	1/2	2,910.50	1/2	2,637.66	1/2	2,364.72	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,650.28	3/4	3,402.56	3/4	3,155.07	3/4	2,904.82	3/4	2,631.98	3/4	2,359.03	
1	1	1	1	1	1	1	1	3,645.13	1	3,397.40	1	3,149.91	1	2,899.13	1	2,626.29	1	2,353.35	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,639.97	1/4	3,392.24	1/4	3,144.75	1/4	2,893.45	1/4	2,620.61	1/4	2,347.66	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,634.81	1/2	3,387.08	1/2	3,139.59	1/2	2,887.76	1/2	2,614.92	1/2	2,341.97	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,629.65	3/4	3,381.92	3/4	3,134.44	3/4	2,882.08	3/4	2,609.24	3/4	2,336.29	
2	2	2	2	2	2	3,849.64	2	3,624.49	2	3,376.76	2	3,129.28	2	2,876.40	2	2,603.55	2	2,330.60	
1/4	1/4	1/4	1/4	1/4	1/4	3,847.87	1/4	3,619.33	1/4	3,371.60	1/4	3,124.12	1/4	2,870.71	1/4	2,597.87	1/4	2,324.92	
1/2	1/2	1/2	1/2	1/2	1/2	3,846.11	1/2	3,614.17	1/2	3,366.44	1/2	3,118.96	1/2	2,865.03	1/2	2,592.18	1/2	2,319.23	
3/4	3/4	3/4	3/4	3/4	3/4	3,844.34	3/4	3,609.00	3/4	3,361.28	3/4	3,113.80	3/4	2,859.34	3/4	2,586.49	3/4	2,313.54	
3	3	3	3	3	3	3,842.58	3	3,603.84	3	3,356.13	3	3,108.64	3	2,853.66	3	2,580.81	3	2,307.86	
1/4	1/4	1/4	1/4	1/4	1/4	3,839.18	1/4	3,598.68	1/4	3,350.97	1/4	3,103.48	1/4	2,847.98	1/4	2,575.12	1/4	2,302.17	
1/2	1/2	1/2	1/2	1/2	1/2	3,835.79	1/2	3,593.52	1/2	3,345.82	1/2	3,098.32	1/2	2,842.29	1/2	2,569.43	1/2	2,296.48	
3/4	3/4	3/4	3/4	3/4	3/4	3,832.40	3/4	3,588.36	3/4	3,340.66	3/4	3,093.16	3/4	2,836.61	3/4	2,563.75	3/4	2,290.80	
4	4	4	4	4	4	3,829.00	4	3,583.20	4	3,335.51	4	3,088.00	4	2,830.92	4	2,558.06	4	2,285.11	
1/4	1/4	1/4	1/4	1/4	1/4	3,824.32	1/4	3,578.04	1/4	3,330.36	1/4	3,082.85	1/4	2,825.24	1/4	2,552.38	1/4	2,279.42	
1/2	1/2	1/2	1/2	1/2	1/2	3,819.64	1/2	3,572.88	1/2	3,325.20	1/2	3,077.69	1/2	2,819.55	1/2	2,546.69	1/2	2,273.74	
3/4	3/4	3/4	3/4	3/4	3/4	3,814.95	3/4	3,567.72	3/4	3,320.05	3/4	3,072.53	3/4	2,813.87	3/4	2,541.00	3/4	2,268.05	
5	5	5	5	5	5	3,810.27	5	3,562.55	5	3,314.89	5	3,067.37	5	2,808.19	5	2,535.32	5	2,262.36	
1/4	1/4	1/4	1/4	1/4	1/4	3,805.11	1/4	3,557.39	1/4	3,309.74	1/4	3,062.21	1/4	2,802.50	1/4	2,529.63	1/4	2,256.69	
1/2	1/2	1/2	1/2	1/2	1/2	3,799.95	1/2	3,552.23	1/2	3,304.58	1/2	3,057.05	1/2	2,796.82	1/2	2,523.94	1/2	2,251.02	
3/4	3/4	3/4	3/4	3/4	3/4	3,794.79	3/4	3,547.07	3/4	3,299.43	3/4	3,051.89	3/4	2,791.13	3/4	2,518.26	3/4	2,245.34	
6	6	6	6	6	6	3,789.63	6	3,541.91	6	3,294.28	6	3,046.73	6	2,785.45	6	2,512.57	6	2,239.67	
1/4	1/4	1/4	1/4	1/4	1/4	3,784.46	1/4	3,536.75	1/4	3,289.12	1/4	3,041.57	1/4	2,779.77	1/4	2,506.88	1/4	2,234.01	
1/2	1/2	1/2	1/2	1/2	1/2	3,779.30	1/2	3,531.59	1/2	3,283.97	1/2	3,036.41	1/2	2,774.08	1/2	2,501.20	1/2	2,228.35	
3/4	3/4	3/4	3/4	3/4	3/4	3,774.14	3/4	3,526.43	3/4	3,278.81	3/4	3,031.26	3/4	2,768.40	3/4	2,495.51	3/4	2,222.69	
7	7	7	7	7	7	3,768.98	7	3,521.27	7	3,273.66	7	3,026.10	7	2,762.71	7	2,489.82	7	2,217.03	
1/4	1/4	1/4	1/4	1/4	1/4	3,763.82	1/4	3,516.10	1/4	3,268.50	1/4	3,020.94	1/4	2,757.03	1/4	2,484.14	1/4	2,211.37	
1/2	1/2	1/2	1/2	1/2	1/2	3,758.66	1/2	3,510.94	1/2	3,263.35	1/2	3,015.78	1/2	2,751.35	1/2	2,478.45	1/2	2,205.71	
3/4	3/4	3/4	3/4	3/4	3/4	3,753.50	3/4	3,505.78	3/4	3,258.20	3/4	3,010.62	3/4	2,745.66	3/4	2,472.76	3/4	2,200.05	
8	8	8	8	8	8	3,748.34	8	3,500.62	8	3,253.04	8	3,005.46	8	2,739.98	8	2,467.08	8	2,194.39	
1/4	1/4	1/4	1/4	1/4	1/4	3,743.18	1/4	3,495.46	1/4	3,247.89	1/4	3,000.30	1/4	2,734.29	1/4	2,461.39	1/4	2,188.73	
1/2	1/2	1/2	1/2	1/2	1/2	3,738.02	1/2	3,490.30	1/2	3,242.73	1/2	2,995.14	1/2	2,728.61	1/2	2,455.70	1/2	2,183.07	
3/4	3/4	3/4	3/4	3/4	3/4	3,732.86	3/4	3,485.14	3/4	3,237.58	3/4	2,989.98	3/4	2,722.92	3/4	2,450.02	3/4	2,177.41	
9	9	9	9	9	9	3,727.69	9	3,479.98	9	3,232.42	9	2,984.82	9	2,717.24	9	2,444.33	9	2,171.75	
1/4	1/4	1/4	1/4	1/4	1/4	3,722.53	1/4	3,474.82	1/4	3,227.27	1/4	2,979.67	1/4	2,711.56	1/4	2,438.65	1/4	2,166.09	
1/2	1/2	1/2	1/2	1/2	1/2	3,717.37	1/2	3,469.65	1/2	3,222.11	1/2	2,974.51	1/2	2,705.87	1/2	2,432.96	1/2	2,160.43	
3/4	3/4	3/4	3/4	3/4	3/4	3,712.21	3/4	3,464.49	3/4	3,216.96	3/4	2,969.35	3/4	2,700.19	3/4	2,427.27	3/4	2,154.77	
10	10	10	10	10	10	3,707.05	10	3,459.33	10	3,211.81	10	2,964.19	10	2,694.50	10	2,421.59	10	2,149.11	
1/4	1/4	1/4	1/4	1/4	1/4	3,701.89	1/4	3,454.17	1/4	3,206.65	1/4	2,959.03	1/4	2,688.82	1/4	2,415.90	1/4	2,143.45	
1/2	1/2	1/2	1/2	1/2	1/2	3,696.73	1/2	3,449.01	1/2	3,201.50	1/2	2,953.87	1/2	2,683.14	1/2	2,410.21	1/2	2,137.79	
3/4	3/4	3/4	3/4	3/4	3/4	3,691.57	3/4	3,443.85	3/4	3,196.34	3/4	2,948.71	3/4	2,677.45	3/4	2,404.53	3/4	2,132.13	
11	11	11	11	11	11	3,686.41	11	3,438.69	11	3,191.18	11	2,943.55	11	2,671.77	11	2,398.84	11	2,126.47	
1/4	1/4	1/4	1/4	1/4	1/4	3,681.24	1/4	3,433.53	1/4	3,186.03	1/4	2,938.13	1/4	2,666.08	1/4	2,393.15	1/4	2,120.81	
1/2	1/2	1/2	1/2	1/2	1/2	3,676.08	1/2	3,428.37	1/2	3,180.87	1/2	2,932.71	1/2	2,660.40	1/2	2,387.47	1/2	2,115.15	
3/4	3/4	3/4	3/4	3/4	3/4	3,670.92	3/4	3,423.21	3/4	3,175.71	3/4	2,927.29	3/4	2,654.72	3/4	2,381.78	3/4	2,109.49	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH 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 TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 1'-00" OFF CENTERLINE AND 28'-10" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 11313"

1 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10"

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	2,103.83	0	1,831.29	0	1,558.40	0	1,285.50	0	1,012.60	0	743.03	0	471.85	0	198.45	0		0	
1/4	2,098.17	1/4	1,825.61	1/4	1,552.71	1/4	1,279.81	1/4	1,006.91	1/4	737.48	1/4	466.16	1/4	192.75	1/4		1/4	
1/2	2,092.51	1/2	1,819.92	1/2	1,547.02	1/2	1,274.13	1/2	1,001.23	1/2	731.92	1/2	460.47	1/2	187.05	1/2		1/2	
3/4	2,086.85	3/4	1,814.24	3/4	1,541.34	3/4	1,268.44	3/4	995.54	3/4	726.36	3/4	454.78	3/4	181.35	3/4		3/4	
1	2,081.19	1	1,808.55	1	1,535.65	1	1,262.75	1	989.86	1	720.81	1	449.10	1	175.65	1		1	
1/4	2,075.53	1/4	1,802.87	1/4	1,529.97	1/4	1,257.07	1/4	984.17	1/4	715.25	1/4	443.41	1/4	169.95	1/4		1/4	
1/2	2,069.87	1/2	1,797.18	1/2	1,524.28	1/2	1,251.38	1/2	978.48	1/2	709.69	1/2	437.72	1/2	164.25	1/2		1/2	
3/4	2,064.21	3/4	1,791.50	3/4	1,518.60	3/4	1,245.70	3/4	972.80	3/4	704.14	3/4	432.03	3/4	158.55	3/4		3/4	
2	2,058.55	2	1,785.81	2	1,512.91	2	1,240.01	2	967.11	2	698.58	2	426.34	2	152.85	2		2	
1/4	2,052.89	1/4	1,780.13	1/4	1,507.23	1/4	1,234.33	1/4	961.43	1/4	693.02	1/4	420.65	1/4	147.15	1/4		1/4	
1/2	2,047.23	1/2	1,774.44	1/2	1,501.54	1/2	1,228.64	1/2	955.74	1/2	687.47	1/2	414.97	1/2	141.45	1/2		1/2	
3/4	2,041.57	3/4	1,768.75	3/4	1,495.86	3/4	1,222.96	3/4	950.06	3/4	681.91	3/4	409.28	3/4	135.75	3/4		3/4	
3	2,035.91	3	1,763.07	3	1,490.17	3	1,217.27	3	944.37	3	676.35	3	403.59	3	130.05	3		3	
1/4	2,030.24	1/4	1,757.38	1/4	1,484.48	1/4	1,211.59	1/4	938.69	1/4	670.73	1/4	397.90	1/4	124.35	1/4		1/4	
1/2	2,024.57	1/2	1,751.70	1/2	1,478.80	1/2	1,205.90	1/2	933.00	1/2	665.11	1/2	392.21	1/2	118.65	1/2		1/2	
3/4	2,018.90	3/4	1,746.01	3/4	1,473.11	3/4	1,200.21	3/4	927.32	3/4	659.49	3/4	386.52	3/4	112.95	3/4		3/4	
4	2,013.23	4	1,740.33	4	1,467.43	4	1,194.53	4	921.63	4	653.86	4	380.83	4	107.25	4		4	
1/4	2,007.54	1/4	1,734.64	1/4	1,461.74	1/4	1,188.84	1/4	915.94	1/4	648.18	1/4	375.13	1/4	101.55	1/4		1/4	
1/2	2,001.86	1/2	1,728.96	1/2	1,456.06	1/2	1,183.16	1/2	910.26	1/2	642.49	1/2	369.44	1/2	95.85	1/2		1/2	
3/4	1,996.17	3/4	1,723.27	3/4	1,450.37	3/4	1,177.47	3/4	904.57	3/4	636.80	3/4	363.74	3/4	90.15	3/4		3/4	
5	1,990.49	5	1,717.59	5	1,444.69	5	1,171.79	5	898.89	5	631.11	5	358.04	5	84.45	5		5	
1/4	1,984.80	1/4	1,711.90	1/4	1,439.00	1/4	1,166.10	1/4	893.27	1/4	625.43	1/4	352.34	1/4	78.75	1/4		1/4	
1/2	1,979.11	1/2	1,706.22	1/2	1,433.32	1/2	1,160.42	1/2	887.65	1/2	619.74	1/2	346.64	1/2	73.05	1/2		1/2	
3/4	1,973.43	3/4	1,700.53	3/4	1,427.63	3/4	1,154.73	3/4	882.02	3/4	614.05	3/4	340.94	3/4	67.35	3/4		3/4	
6	1,967.74	6	1,694.84	6	1,421.95	6	1,149.05	6	876.40	6	608.36	6	335.24	6	61.65	6		6	
1/4	1,962.06	1/4	1,689.16	1/4	1,416.26	1/4	1,143.36	1/4	870.84	1/4	602.68	1/4	329.54	1/4	55.95	1/4		1/4	
1/2	1,956.37	1/2	1,683.47	1/2	1,410.57	1/2	1,137.68	1/2	865.29	1/2	596.99	1/2	323.84	1/2	50.25	1/2		1/2	
3/4	1,950.69	3/4	1,677.79	3/4	1,404.89	3/4	1,131.99	3/4	859.73	3/4	591.30	3/4	318.15	3/4	44.55	3/4		3/4	
7	1,945.00	7	1,672.10	7	1,399.20	7	1,126.30	7	854.17	7	585.61	7	312.45	7	38.85	7		7	
1/4	1,939.32	1/4	1,666.42	1/4	1,393.52	1/4	1,120.62	1/4	848.61	1/4	579.93	1/4	306.75	1/4	33.15	1/4		1/4	
1/2	1,933.63	1/2	1,660.73	1/2	1,387.83	1/2	1,114.93	1/2	843.06	1/2	574.24	1/2	301.05	1/2	27.45	1/2		1/2	
3/4	1,927.95	3/4	1,655.05	3/4	1,382.15	3/4	1,109.25	3/4	837.50	3/4	568.55	3/4	295.35	3/4	21.75	3/4		3/4	
8	1,922.26	8	1,649.36	8	1,376.46	8	1,103.56	8	831.94	8	562.86	8	289.65	8	16.05	8		8	
1/4	1,916.58	1/4	1,643.68	1/4	1,370.78	1/4	1,097.88	1/4	826.38	1/4	557.17	1/4	283.95	1/4	10.35	1/4		1/4	
1/2	1,910.89	1/2	1,637.99	1/2	1,365.09	1/2	1,092.19	1/2	820.83	1/2	551.48	1/2	278.25	1/2	4.65	1/2		1/2	
3/4	1,905.20	3/4	1,632.31	3/4	1,359.41	3/4	1,086.51	3/4	815.27	3/4	545.80	3/4	272.55	3/4	-1.05	3/4		3/4	
9	1,899.52	9	1,626.62	9	1,353.72	9	1,080.82	9	809.71	9	540.11	9	266.85	9	-6.75	9		9	
1/4	1,893.83	1/4	1,620.93	1/4	1,348.04	1/4	1,075.14	1/4	804.16	1/4	534.42	1/4	261.15	1/4	-12.45	1/4		1/4	
1/2	1,888.15	1/2	1,615.25	1/2	1,342.35	1/2	1,069.45	1/2	798.60	1/2	528.73	1/2	255.45	1/2	-18.15	1/2		1/2	
3/4	1,882.46	3/4	1,609.56	3/4	1,336.66	3/4	1,063.77	3/4	793.04	3/4	523.04	3/4	249.75	3/4	-23.85	3/4		3/4	
10	1,876.78	10	1,603.88	10	1,330.98	10	1,058.08	10	787.49	10	517.36	10	244.05	10	-29.55	10		10	
1/4	1,871.09	1/4	1,598.19	1/4	1,325.29	1/4	1,052.39	1/4	781.93	1/4	511.67	1/4	238.35	1/4	-35.25	1/4		1/4	
1/2	1,865.41	1/2	1,592.51	1/2	1,319.61	1/2	1,046.71	1/2	776.37	1/2	505.98	1/2	232.65	1/2	-40.95	1/2		1/2	
3/4	1,859.72	3/4	1,586.82	3/4	1,313.92	3/4	1,041.02	3/4	770.82	3/4	500.29	3/4	226.95	3/4	-46.65	3/4		3/4	
11	1,854.04	11	1,581.14	11	1,308.24	11	1,035.34	11	765.26	11	494.60	11	221.25	11	-52.35	11		11	
1/4	1,848.35	1/4	1,575.45	1/4	1,302.55	1/4	1,029.65	1/4	759.70	1/4	488.91	1/4	215.55	1/4	-58.05	1/4		1/4	
1/2	1,842.67	1/2	1,569.77	1/2	1,296.87	1/2	1,023.97	1/2	754.15	1/2	483.23	1/2	209.85	1/2	-63.75	1/2		1/2	
3/4	1,836.98	3/4	1,564.08	3/4	1,291.18	3/4	1,018.28	3/4	748.59	3/4	477.54	3/4	204.15	3/4	-69.45	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/04/2005 CL - SW
CALCULATED: 08/05/2005 CL
PRINTED: 08/05/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 11313"

2 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10"

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	0	0	0	0	0	3,420.51	0	3,171.35	0	2,922.18	0	2,673.01	0	2,423.84	0	2,174.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,415.32	1/4	3,166.16	1/4	2,916.99	1/4	2,667.82	1/4	2,418.65	1/4	2,169.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,410.13	1/2	3,160.96	1/2	2,911.80	1/2	2,662.63	1/2	2,413.46	1/2	2,164.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,404.94	3/4	3,155.77	3/4	2,906.61	3/4	2,657.44	3/4	2,408.27	3/4	2,159.10
1	1	1	1	1	1	1	1	1	3,399.75	1	3,150.58	1	2,901.41	1	2,652.25	1	2,403.08	1	2,153.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,394.56	1/4	3,145.39	1/4	2,896.22	1/4	2,647.06	1/4	2,397.89	1/4	2,148.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,389.37	1/2	3,140.20	1/2	2,891.03	1/2	2,641.86	1/2	2,392.70	1/2	2,143.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,384.18	3/4	3,135.01	3/4	2,885.84	3/4	2,636.67	3/4	2,387.51	3/4	2,138.34
2	2	2	2	2	2	2	2	2	3,605.65	2	3,378.99	2	3,129.82	2	2,880.65	2	2,631.48	2	2,382.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,603.92	1/4	3,373.80	1/4	3,124.63	1/4	2,875.46	1/4	2,626.29	1/4	2,377.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,602.19	1/2	3,368.60	1/2	3,119.44	1/2	2,870.27	1/2	2,621.10	1/2	2,371.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,600.46	3/4	3,363.41	3/4	3,114.25	3/4	2,865.08	3/4	2,615.91	3/4	2,366.74
3	3	3	3	3	3	3	3	3	3,598.73	3	3,358.22	3	3,109.05	3	2,859.89	3	2,610.72	3	2,361.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,595.27	1/4	3,353.03	1/4	3,103.86	1/4	2,854.70	1/4	2,605.53	1/4	2,356.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,591.81	1/2	3,347.84	1/2	3,098.67	1/2	2,849.50	1/2	2,600.34	1/2	2,351.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,588.35	3/4	3,342.65	3/4	3,093.48	3/4	2,844.31	3/4	2,595.15	3/4	2,345.98
4	4	4	4	4	4	4	4	4	3,584.89	4	3,337.46	4	3,088.29	4	2,839.12	4	2,589.95	4	2,340.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,580.13	1/4	3,332.27	1/4	3,083.10	1/4	2,833.93	1/4	2,584.76	1/4	2,335.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,575.37	1/2	3,327.08	1/2	3,077.91	1/2	2,828.74	1/2	2,579.57	1/2	2,330.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,570.62	3/4	3,321.89	3/4	3,072.72	3/4	2,823.55	3/4	2,574.38	3/4	2,325.21
5	5	5	5	5	5	5	5	5	3,565.86	5	3,316.69	5	3,067.53	5	2,818.36	5	2,569.19	5	2,320.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,560.67	1/4	3,311.50	1/4	3,062.34	1/4	2,813.17	1/4	2,564.00	1/4	2,314.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,555.48	1/2	3,306.31	1/2	3,057.14	1/2	2,807.98	1/2	2,558.81	1/2	2,309.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,550.29	3/4	3,301.12	3/4	3,051.95	3/4	2,802.79	3/4	2,553.62	3/4	2,304.45
6	6	6	6	6	6	6	6	6	3,545.10	6	3,295.93	6	3,046.76	6	2,797.59	6	2,548.43	6	2,299.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,539.91	1/4	3,290.74	1/4	3,041.57	1/4	2,792.40	1/4	2,543.24	1/4	2,294.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,534.72	1/2	3,285.55	1/2	3,036.38	1/2	2,787.21	1/2	2,538.04	1/2	2,288.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,529.53	3/4	3,280.36	3/4	3,031.19	3/4	2,782.02	3/4	2,532.85	3/4	2,283.69
7	7	7	7	7	7	7	7	7	3,524.33	7	3,275.17	7	3,026.00	7	2,776.83	7	2,527.66	7	2,278.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,519.14	1/4	3,269.98	1/4	3,020.81	1/4	2,771.64	1/4	2,522.47	1/4	2,273.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,513.95	1/2	3,264.78	1/2	3,015.62	1/2	2,766.45	1/2	2,517.28	1/2	2,268.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,508.76	3/4	3,259.59	3/4	3,010.43	3/4	2,761.26	3/4	2,512.09	3/4	2,262.92
8	8	8	8	8	8	8	8	8	3,503.57	8	3,254.40	8	3,005.23	8	2,756.07	8	2,506.90	8	2,257.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,498.38	1/4	3,249.21	1/4	3,000.04	1/4	2,750.88	1/4	2,501.71	1/4	2,252.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,493.19	1/2	3,244.02	1/2	2,994.85	1/2	2,745.68	1/2	2,496.52	1/2	2,247.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,488.00	3/4	3,238.83	3/4	2,989.66	3/4	2,740.49	3/4	2,491.33	3/4	2,242.16
9	9	9	9	9	9	9	9	9	3,482.81	9	3,233.64	9	2,984.47	9	2,735.30	9	2,486.13	9	2,236.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,477.62	1/4	3,228.45	1/4	2,979.28	1/4	2,730.11	1/4	2,480.94	1/4	2,231.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,472.42	1/2	3,223.26	1/2	2,974.09	1/2	2,724.92	1/2	2,475.75	1/2	2,226.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,467.23	3/4	3,218.07	3/4	2,968.90	3/4	2,719.73	3/4	2,470.56	3/4	2,221.39
10	10	10	10	10	10	10	10	10	3,462.04	10	3,212.87	10	2,963.71	10	2,714.54	10	2,465.37	10	2,216.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,456.85	1/4	3,207.68	1/4	2,958.52	1/4	2,709.35	1/4	2,460.18	1/4	2,211.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,451.66	1/2	3,202.49	1/2	2,953.32	1/2	2,704.16	1/2	2,454.99	1/2	2,205.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,446.47	3/4	3,197.30	3/4	2,948.13	3/4	2,698.97	3/4	2,449.80	3/4	2,200.63
11	11	11	11	11	11	11	11	11	3,441.28	11	3,192.11	11	2,942.94	11	2,693.77	11	2,444.61	11	2,195.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,436.09	1/4	3,186.92	1/4	2,937.75	1/4	2,688.58	1/4	2,439.42	1/4	2,190.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,430.90	1/2	3,181.73	1/2	2,932.56	1/2	2,683.39	1/2	2,434.22	1/2	2,185.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,425.71	3/4	3,176.54	3/4	2,927.37	3/4	2,678.20	3/4	2,429.03	3/4	2,179.87

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH 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 TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 1'-00" OFF CENTERLINE AND 28'-11" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "KIRBY 11313"

2 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10"

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	1,925.51	0	1,676.34	0	1,427.17	0	1,178.00	0	928.83	0	683.62	0	436.62	0	187.48	0			
1/4	1,920.32	1/4	1,671.15	1/4	1,421.98	1/4	1,172.81	1/4	923.64	1/4	678.58	1/4	431.43	1/4	182.29	1/4			
1/2	1,915.12	1/2	1,665.96	1/2	1,416.79	1/2	1,167.62	1/2	918.45	1/2	673.54	1/2	426.24	1/2	177.10	1/2			
3/4	1,909.93	3/4	1,660.77	3/4	1,411.60	3/4	1,162.43	3/4	913.26	3/4	668.51	3/4	421.05	3/4	171.91	3/4			
1	1,904.74	1	1,655.57	1	1,406.41	1	1,157.24	1	908.07	1	663.47	1	415.86	1	166.71	1			
1/4	1,899.55	1/4	1,650.38	1/4	1,401.22	1/4	1,152.05	1/4	902.88	1/4	658.43	1/4	410.67	1/4	161.52	1/4			
1/2	1,894.36	1/2	1,645.19	1/2	1,396.02	1/2	1,146.86	1/2	897.69	1/2	653.39	1/2	405.48	1/2	156.33	1/2			
3/4	1,889.17	3/4	1,640.00	3/4	1,390.83	3/4	1,141.67	3/4	892.50	3/4	648.35	3/4	400.29	3/4	151.14	3/4			
2	1,883.98	2	1,634.81	2	1,385.64	2	1,136.47	2	887.31	2	643.31	2	395.10	2	145.95	2			
1/4	1,878.79	1/4	1,629.62	1/4	1,380.45	1/4	1,131.28	1/4	882.12	1/4	638.28	1/4	389.91	1/4	140.76	1/4			
1/2	1,873.60	1/2	1,624.43	1/2	1,375.26	1/2	1,126.09	1/2	876.92	1/2	633.24	1/2	384.72	1/2	135.57	1/2			
3/4	1,868.41	3/4	1,619.24	3/4	1,370.07	3/4	1,120.90	3/4	871.73	3/4	628.20	3/4	379.53	3/4	130.38	3/4			
3	1,863.21	3	1,614.05	3	1,364.88	3	1,115.71	3	866.54	3	623.16	3	374.33	3	125.19	3			
1/4	1,858.02	1/4	1,608.86	1/4	1,359.69	1/4	1,110.52	1/4	861.35	1/4	618.05	1/4	369.14	1/4	120.00	1/4			
1/2	1,852.83	1/2	1,603.66	1/2	1,354.50	1/2	1,105.33	1/2	856.16	1/2	612.93	1/2	363.95	1/2	114.81	1/2			
3/4	1,847.64	3/4	1,598.47	3/4	1,349.31	3/4	1,100.14	3/4	850.97	3/4	607.82	3/4	358.76	3/4	109.62	3/4			
4	1,842.45	4	1,593.28	4	1,344.11	4	1,094.95	4	845.78	4	602.70	4	353.57	4	104.43	4			
1/4	1,837.26	1/4	1,588.09	1/4	1,338.92	1/4	1,089.76	1/4	840.59	1/4	597.51	1/4	348.38	1/4	99.24	1/4			
1/2	1,832.07	1/2	1,582.90	1/2	1,333.73	1/2	1,084.56	1/2	835.40	1/2	592.32	1/2	343.19	1/2	94.05	1/2			
3/4	1,826.88	3/4	1,577.71	3/4	1,328.54	3/4	1,079.37	3/4	830.21	3/4	587.13	3/4	338.00	3/4	88.86	3/4			
5	1,821.69	5	1,572.52	5	1,323.35	5	1,074.18	5	825.01	5	581.95	5	332.81	5	83.67	5			
1/4	1,816.50	1/4	1,567.33	1/4	1,318.16	1/4	1,068.99	1/4	819.90	1/4	576.76	1/4	327.62	1/4	78.48	1/4			
1/2	1,811.30	1/2	1,562.14	1/2	1,312.97	1/2	1,063.80	1/2	814.78	1/2	571.57	1/2	322.43	1/2	73.29	1/2			
3/4	1,806.11	3/4	1,556.95	3/4	1,307.78	3/4	1,058.61	3/4	809.67	3/4	566.38	3/4	317.24	3/4	68.10	3/4			
6	1,800.92	6	1,551.75	6	1,302.59	6	1,053.42	6	804.55	6	561.19	6	312.05	6	62.90	6			
1/4	1,795.73	1/4	1,546.56	1/4	1,297.40	1/4	1,048.23	1/4	799.51	1/4	556.00	1/4	306.86	1/4	57.71	1/4			
1/2	1,790.54	1/2	1,541.37	1/2	1,292.20	1/2	1,043.04	1/2	794.47	1/2	550.81	1/2	301.67	1/2	52.52	1/2			
3/4	1,785.35	3/4	1,536.18	3/4	1,287.01	3/4	1,037.85	3/4	789.43	3/4	545.62	3/4	296.48	3/4	47.33	3/4			
7	1,780.16	7	1,530.99	7	1,281.82	7	1,032.65	7	784.39	7	540.43	7	291.29	7	42.14	7			
1/4	1,774.97	1/4	1,525.80	1/4	1,276.63	1/4	1,027.46	1/4	779.35	1/4	535.24	1/4	286.10	1/4	37.38	1/4			
1/2	1,769.78	1/2	1,520.61	1/2	1,271.44	1/2	1,022.27	1/2	774.31	1/2	530.05	1/2	280.91	1/2	32.63	1/2			
3/4	1,764.59	3/4	1,515.42	3/4	1,266.25	3/4	1,017.08	3/4	769.28	3/4	524.86	3/4	275.72	3/4	27.87	3/4			
8	1,759.39	8	1,510.23	8	1,261.06	8	1,011.89	8	764.24	8	519.67	8	270.52	8	23.11	8			
1/4	1,754.20	1/4	1,505.04	1/4	1,255.87	1/4	1,006.70	1/4	759.20	1/4	514.48	1/4	265.33	1/4	19.65	1/4			
1/2	1,749.01	1/2	1,499.84	1/2	1,250.68	1/2	1,001.51	1/2	754.16	1/2	509.29	1/2	260.14	1/2	16.19	1/2			
3/4	1,743.82	3/4	1,494.65	3/4	1,245.49	3/4	996.32	3/4	749.12	3/4	504.10	3/4	254.95	3/4	12.73	3/4			
9	1,738.63	9	1,489.46	9	1,240.29	9	991.13	9	744.08	9	498.91	9	249.76	9	9.27	9			
1/4	1,733.44	1/4	1,484.27	1/4	1,235.10	1/4	985.94	1/4	739.04	1/4	493.72	1/4	244.57	1/4	7.54	1/4			
1/2	1,728.25	1/2	1,479.08	1/2	1,229.91	1/2	980.74	1/2	734.00	1/2	488.53	1/2	239.38	1/2	5.81	1/2			
3/4	1,723.06	3/4	1,473.89	3/4	1,224.72	3/4	975.55	3/4	728.97	3/4	483.34	3/4	234.19	3/4	4.08	3/4			
10	1,717.87	10	1,468.70	10	1,219.53	10	970.36	10	723.93	10	478.14	10	229.00	10	2.35	10			
1/4	1,712.68	1/4	1,463.51	1/4	1,214.34	1/4	965.17	1/4	718.89	1/4	472.95	1/4	223.81	1/4		1/4			
1/2	1,707.48	1/2	1,458.32	1/2	1,209.15	1/2	959.98	1/2	713.85	1/2	467.76	1/2	218.62	1/2		1/2			
3/4	1,702.29	3/4	1,453.13	3/4	1,203.96	3/4	954.79	3/4	708.81	3/4	462.57	3/4	213.43	3/4		3/4			
11	1,697.10	11	1,447.93	11	1,198.77	11	949.60	11	703.77	11	457.38	11	208.24	11		11			
1/4	1,691.91	1/4	1,442.74	1/4	1,193.58	1/4	944.41	1/4	698.74	1/4	452.19	1/4	203.05	1/4		1/4			
1/2	1,686.72	1/2	1,437.55	1/2	1,188.38	1/2	939.22	1/2	693.70	1/2	447.00	1/2	197.86	1/2		1/2			
3/4	1,681.53	3/4	1,432.36	3/4	1,183.19	3/4	934.03	3/4	688.66	3/4	441.81	3/4	192.67	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/04/2005 CL - SW
CALCULATED: 08/05/2005 CL
PRINTED: 08/05/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2005

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



BARGE "KIRBY 11313"

3 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-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		0	3,415.59	0	3,167.57	0	2,919.56	0	2,671.54	0	2,423.52	0	2,175.51		
1/4		1/4		1/4		1/4		1/4	3,410.42	1/4	3,162.40	1/4	2,914.39	1/4	2,666.37	1/4	2,418.36	1/4	2,170.34		
1/2		1/2		1/2		1/2		1/2	3,405.25	1/2	3,157.24	1/2	2,909.22	1/2	2,661.21	1/2	2,413.19	1/2	2,165.17		
3/4		3/4		3/4		3/4		3/4	3,400.09	3/4	3,152.07	3/4	2,904.05	3/4	2,656.04	3/4	2,408.02	3/4	2,160.01		
1		1		1		1		1	3,394.92	1	3,146.90	1	2,898.89	1	2,650.87	1	2,402.86	1	2,154.84		
1/4		1/4		1/4		1/4		1/4	3,389.75	1/4	3,141.74	1/4	2,893.72	1/4	2,645.70	1/4	2,397.69	1/4	2,149.67		
1/2		1/2		1/2		1/2		1/2	3,384.59	1/2	3,136.57	1/2	2,888.55	1/2	2,640.54	1/2	2,392.52	1/2	2,144.51		
3/4		3/4		3/4		3/4		3/4	3,379.42	3/4	3,131.40	3/4	2,883.39	3/4	2,635.37	3/4	2,387.35	3/4	2,139.34		
2		2		2		2		2	3,374.25	2	3,126.24	2	2,878.22	2	2,630.20	2	2,382.19	2	2,134.17		
1/4		1/4		1/4		1/4		1/4	3,594.72	1/4	3,369.08	1/4	3,121.07	1/4	2,873.05	1/4	2,625.04	1/4	2,377.02	1/4	2,129.00
1/2		1/2		1/2		1/2		1/2	3,593.00	1/2	3,363.92	1/2	3,115.90	1/2	2,867.89	1/2	2,619.87	1/2	2,371.85	1/2	2,123.84
3/4		3/4		3/4		3/4		3/4	3,591.27	3/4	3,358.75	3/4	3,110.73	3/4	2,862.72	3/4	2,614.70	3/4	2,366.69	3/4	2,118.67
3		3		3		3		3	3,589.55	3	3,353.58	3	3,105.57	3	2,857.55	3	2,609.54	3	2,361.52	3	2,113.50
1/4		1/4		1/4		1/4		1/4	3,587.83	1/4	3,348.42	1/4	3,100.40	1/4	2,852.38	1/4	2,604.37	1/4	2,356.35	1/4	2,108.34
1/2		1/2		1/2		1/2		1/2	3,584.39	1/2	3,343.25	1/2	3,095.23	1/2	2,847.22	1/2	2,599.20	1/2	2,351.19	1/2	2,103.17
3/4		3/4		3/4		3/4		3/4	3,580.94	3/4	3,338.08	3/4	3,090.07	3/4	2,842.05	3/4	2,594.03	3/4	2,346.02	3/4	2,098.00
4		4		4		4		4	3,577.50	4	3,332.92	4	3,084.90	4	2,836.88	4	2,588.87	4	2,340.85	4	2,092.84
1/4		1/4		1/4		1/4		1/4	3,574.06	1/4	3,327.75	1/4	3,079.73	1/4	2,831.72	1/4	2,583.70	1/4	2,335.68	1/4	2,087.67
1/2		1/2		1/2		1/2		1/2	3,569.32	1/2	3,322.58	1/2	3,074.57	1/2	2,826.55	1/2	2,578.53	1/2	2,330.52	1/2	2,082.50
3/4		3/4		3/4		3/4		3/4	3,564.58	3/4	3,317.41	3/4	3,069.40	3/4	2,821.38	3/4	2,573.37	3/4	2,325.35	3/4	2,077.33
5		5		5		5		5	3,559.84	5	3,312.25	5	3,064.23	5	2,816.22	5	2,568.20	5	2,320.18	5	2,072.17
1/4		1/4		1/4		1/4		1/4	3,555.10	1/4	3,307.08	1/4	3,059.06	1/4	2,811.05	1/4	2,563.03	1/4	2,315.02	1/4	2,067.00
1/2		1/2		1/2		1/2		1/2	3,549.93	1/2	3,301.91	1/2	3,053.90	1/2	2,805.88	1/2	2,557.87	1/2	2,309.85	1/2	2,061.83
3/4		3/4		3/4		3/4		3/4	3,544.76	3/4	3,296.75	3/4	3,048.73	3/4	2,800.71	3/4	2,552.70	3/4	2,304.68	3/4	2,056.67
6		6		6		6		6	3,539.60	6	3,291.58	6	3,043.56	6	2,795.55	6	2,547.53	6	2,299.52	6	2,051.50
1/4		1/4		1/4		1/4		1/4	3,534.43	1/4	3,286.41	1/4	3,038.40	1/4	2,790.38	1/4	2,542.36	1/4	2,294.35	1/4	2,046.33
1/2		1/2		1/2		1/2		1/2	3,529.26	1/2	3,281.25	1/2	3,033.23	1/2	2,785.21	1/2	2,537.20	1/2	2,289.18	1/2	2,041.17
3/4		3/4		3/4		3/4		3/4	3,524.09	3/4	3,276.08	3/4	3,028.06	3/4	2,780.05	3/4	2,532.03	3/4	2,284.01	3/4	2,036.00
7		7		7		7		7	3,518.93	7	3,270.91	7	3,022.90	7	2,774.88	7	2,526.86	7	2,278.85	7	2,030.83
1/4		1/4		1/4		1/4		1/4	3,513.76	1/4	3,265.74	1/4	3,017.73	1/4	2,769.71	1/4	2,521.70	1/4	2,273.68	1/4	2,025.66
1/2		1/2		1/2		1/2		1/2	3,508.59	1/2	3,260.58	1/2	3,012.56	1/2	2,764.55	1/2	2,516.53	1/2	2,268.51	1/2	2,020.50
3/4		3/4		3/4		3/4		3/4	3,503.43	3/4	3,255.41	3/4	3,007.39	3/4	2,759.38	3/4	2,511.36	3/4	2,263.35	3/4	2,015.33
8		8		8		8		8	3,498.26	8	3,250.24	8	3,002.23	8	2,754.21	8	2,506.20	8	2,258.18	8	2,010.16
1/4		1/4		1/4		1/4		1/4	3,493.09	1/4	3,245.08	1/4	2,997.06	1/4	2,749.04	1/4	2,501.03	1/4	2,253.01	1/4	2,005.00
1/2		1/2		1/2		1/2		1/2	3,487.93	1/2	3,239.91	1/2	2,991.89	1/2	2,743.88	1/2	2,495.86	1/2	2,247.85	1/2	1,999.83
3/4		3/4		3/4		3/4		3/4	3,482.76	3/4	3,234.74	3/4	2,986.73	3/4	2,738.71	3/4	2,490.69	3/4	2,242.68	3/4	1,994.66
9		9		9		9		9	3,477.59	9	3,229.58	9	2,981.56	9	2,733.54	9	2,485.53	9	2,237.51	9	1,989.50
1/4		1/4		1/4		1/4		1/4	3,472.42	1/4	3,224.41	1/4	2,976.39	1/4	2,728.38	1/4	2,480.36	1/4	2,232.34	1/4	1,984.33
1/2		1/2		1/2		1/2		1/2	3,467.26	1/2	3,219.24	1/2	2,971.23	1/2	2,723.21	1/2	2,475.19	1/2	2,227.18	1/2	1,979.16
3/4		3/4		3/4		3/4		3/4	3,462.09	3/4	3,214.07	3/4	2,966.06	3/4	2,718.04	3/4	2,470.03	3/4	2,222.01	3/4	1,973.99
10		10		10		10		10	3,456.92	10	3,208.91	10	2,960.89	10	2,712.88	10	2,464.86	10	2,216.84	10	1,968.83
1/4		1/4		1/4		1/4		1/4	3,451.76	1/4	3,203.74	1/4	2,955.72	1/4	2,707.71	1/4	2,459.69	1/4	2,211.68	1/4	1,963.66
1/2		1/2		1/2		1/2		1/2	3,446.59	1/2	3,198.57	1/2	2,950.56	1/2	2,702.54	1/2	2,454.53	1/2	2,206.51	1/2	1,958.49
3/4		3/4		3/4		3/4		3/4	3,441.42	3/4	3,193.41	3/4	2,945.39	3/4	2,697.37	3/4	2,449.36	3/4	2,201.34	3/4	1,953.33
11		11		11		11		11	3,436.26	11	3,188.24	11	2,940.22	11	2,692.21	11	2,444.19	11	2,196.18	11	1,948.16
1/4		1/4		1/4		1/4		1/4	3,431.09	1/4	3,183.07	1/4	2,935.06	1/4	2,687.04	1/4	2,439.02	1/4	2,191.01	1/4	1,942.99
1/2		1/2		1/2		1/2		1/2	3,425.92	1/2	3,177.91	1/2	2,929.89	1/2	2,681.87	1/2	2,433.86	1/2	2,185.84	1/2	1,937.83
3/4		3/4		3/4		3/4		3/4	3,420.75	3/4	3,172.74	3/4	2,924.72	3/4	2,676.71	3/4	2,428.69	3/4	2,180.67	3/4	1,932.66

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH 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 TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 1'-00" OFF CENTERLINE AND 28'-10" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 11313"

3 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10 1/4"

	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	
0	1,927.49	0	1,679.48	0	1,431.46	0	1,183.44	0	935.43	0	687.65	0	439.79	0	191.79	0		0			
1/4	1,922.32	1/4	1,674.31	1/4	1,426.29	1/4	1,178.28	1/4	930.26	1/4	682.50	1/4	434.63	1/4	186.63	1/4		1/4			
1/2	1,917.16	1/2	1,669.14	1/2	1,421.13	1/2	1,173.11	1/2	925.09	1/2	677.34	1/2	429.46	1/2	181.46	1/2		1/2			
3/4	1,911.99	3/4	1,663.97	3/4	1,415.96	3/4	1,167.94	3/4	919.93	3/4	672.18	3/4	424.29	3/4	176.29	3/4		3/4			
1	1,906.82	1	1,658.81	1	1,410.79	1	1,162.78	1	914.76	1	667.03	1	419.13	1	171.13	1		1			
1 1/4	1,901.66	1 1/4	1,653.64	1 1/4	1,405.62	1 1/4	1,157.61	1 1/4	909.59	1 1/4	661.87	1 1/4	413.96	1 1/4	165.96	1 1/4		1 1/4			
1 1/2	1,896.49	1 1/2	1,648.47	1 1/2	1,400.46	1 1/2	1,152.44	1 1/2	904.43	1 1/2	656.71	1 1/2	408.79	1 1/2	160.79	1 1/2		1 1/2			
3/4	1,891.32	3/4	1,643.31	3/4	1,395.29	3/4	1,147.27	3/4	899.26	3/4	651.55	3/4	403.63	3/4	155.62	3/4		3/4			
2	1,886.16	2	1,638.14	2	1,390.12	2	1,142.11	2	894.09	2	646.40	2	398.46	2	150.46	2		2			
2 1/4	1,880.99	2 1/4	1,632.97	2 1/4	1,384.96	2 1/4	1,136.94	2 1/4	888.92	2 1/4	641.24	2 1/4	393.29	2 1/4	145.29	2 1/4		2 1/4			
2 1/2	1,875.82	2 1/2	1,627.81	2 1/2	1,379.79	2 1/2	1,131.77	2 1/2	883.76	2 1/2	636.08	2 1/2	388.13	2 1/2	140.12	2 1/2		2 1/2			
3/4	1,870.65	3/4	1,622.64	3/4	1,374.62	3/4	1,126.61	3/4	878.59	3/4	630.93	3/4	382.96	3/4	134.96	3/4		3/4			
3	1,865.49	3	1,617.47	3	1,369.46	3	1,121.44	3	873.42	3	625.77	3	377.79	3	129.79	3		3			
3 1/4	1,860.32	3 1/4	1,612.30	3 1/4	1,364.29	3 1/4	1,116.27	3 1/4	868.26	3 1/4	620.61	3 1/4	372.63	3 1/4	124.62	3 1/4		3 1/4			
3 1/2	1,855.15	3 1/2	1,607.14	3 1/2	1,359.12	3 1/2	1,111.11	3 1/2	863.09	3 1/2	615.45	3 1/2	367.46	3 1/2	119.46	3 1/2		3 1/2			
3/4	1,849.99	3/4	1,601.97	3/4	1,353.95	3/4	1,105.94	3/4	857.92	3/4	610.29	3/4	362.29	3/4	114.29	3/4		3/4			
4	1,844.82	4	1,596.80	4	1,348.79	4	1,100.77	4	852.76	4	605.13	4	357.13	4	109.12	4		4			
4 1/4	1,839.65	4 1/4	1,591.64	4 1/4	1,343.62	4 1/4	1,095.60	4 1/4	847.59	4 1/4	599.97	4 1/4	351.96	4 1/4	103.96	4 1/4		4 1/4			
4 1/2	1,834.49	4 1/2	1,586.47	4 1/2	1,338.45	4 1/2	1,090.44	4 1/2	842.42	4 1/2	594.80	4 1/2	346.79	4 1/2	98.79	4 1/2		4 1/2			
3/4	1,829.32	3/4	1,581.30	3/4	1,333.29	3/4	1,085.27	3/4	837.25	3/4	589.63	3/4	341.63	3/4	93.62	3/4		3/4			
5	1,824.15	5	1,576.14	5	1,328.12	5	1,080.10	5	832.09	5	584.47	5	336.46	5	88.46	5		5			
5 1/4	1,818.98	5 1/4	1,570.97	5 1/4	1,322.95	5 1/4	1,074.94	5 1/4	826.92	5 1/4	579.30	5 1/4	331.29	5 1/4	83.29	5 1/4		5 1/4			
5 1/2	1,813.82	5 1/2	1,565.80	5 1/2	1,317.79	5 1/2	1,069.77	5 1/2	821.76	5 1/2	574.13	5 1/2	326.13	5 1/2	78.12	5 1/2		5 1/2			
3/4	1,808.65	3/4	1,560.63	3/4	1,312.62	3/4	1,064.60	3/4	816.60	3/4	568.97	3/4	320.96	3/4	72.96	3/4		3/4			
6	1,803.48	6	1,555.47	6	1,307.45	6	1,059.44	6	811.43	6	563.80	6	315.79	6	67.79	6		6			
6 1/4	1,798.32	6 1/4	1,550.30	6 1/4	1,302.28	6 1/4	1,054.27	6 1/4	806.27	6 1/4	558.63	6 1/4	310.63	6 1/4	62.62	6 1/4		6 1/4			
6 1/2	1,793.15	6 1/2	1,545.13	6 1/2	1,297.12	6 1/2	1,049.10	6 1/2	801.11	6 1/2	553.47	6 1/2	305.46	6 1/2	57.46	6 1/2		6 1/2			
3/4	1,787.98	3/4	1,539.97	3/4	1,291.95	3/4	1,043.93	3/4	795.95	3/4	548.30	3/4	300.29	3/4	52.29	3/4		3/4			
7	1,782.82	7	1,534.80	7	1,286.78	7	1,038.77	7	790.80	7	543.13	7	295.13	7	47.12	7		7			
7 1/4	1,777.65	7 1/4	1,529.63	7 1/4	1,281.62	7 1/4	1,033.60	7 1/4	785.64	7 1/4	537.96	7 1/4	289.96	7 1/4	41.96	7 1/4		7 1/4			
7 1/2	1,772.48	7 1/2	1,524.47	7 1/2	1,276.45	7 1/2	1,028.43	7 1/2	780.48	7 1/2	532.79	7 1/2	284.79	7 1/2	37.22	7 1/2		7 1/2			
3/4	1,767.31	3/4	1,519.30	3/4	1,271.28	3/4	1,023.27	3/4	775.32	3/4	527.63	3/4	279.63	3/4	32.49	3/4		3/4			
8	1,762.15	8	1,514.13	8	1,266.12	8	1,018.10	8	770.16	8	522.46	8	274.46	8	27.75	8		8			
8 1/4	1,756.98	8 1/4	1,508.96	8 1/4	1,260.95	8 1/4	1,012.93	8 1/4	765.01	8 1/4	517.29	8 1/4	269.29	8 1/4	23.01	8 1/4		8 1/4			
8 1/2	1,751.81	8 1/2	1,503.80	8 1/2	1,255.78	8 1/2	1,007.77	8 1/2	759.85	8 1/2	512.13	8 1/2	264.13	8 1/2	19.57	8 1/2		8 1/2			
3/4	1,746.65	3/4	1,498.63	3/4	1,250.61	3/4	1,002.60	3/4	754.69	3/4	506.96	3/4	258.96	3/4	16.12	3/4		3/4			
9	1,741.48	9	1,493.46	9	1,245.45	9	997.43	9	749.54	9	501.79	9	253.79	9	12.68	9		9			
9 1/4	1,736.31	9 1/4	1,488.30	9 1/4	1,240.28	9 1/4	992.26	9 1/4	744.38	9 1/4	496.63	9 1/4	248.63	9 1/4	9.24	9 1/4		9 1/4			
9 1/2	1,731.15	9 1/2	1,483.13	9 1/2	1,235.11	9 1/2	987.10	9 1/2	739.22	9 1/2	491.46	9 1/2	243.46	9 1/2	7.51	9 1/2		9 1/2			
3/4	1,725.98	3/4	1,477.96	3/4	1,229.95	3/4	981.93	3/4	734.07	3/4	486.29	3/4	238.29	3/4	5.79	3/4		3/4			
10	1,720.81	10	1,472.80	10	1,224.78	10	976.76	10	728.91	10	481.13	10	233.13	10	4.07	10		10			
10 1/4	1,715.64	10 1/4	1,467.63	10 1/4	1,219.61	10 1/4	971.60	10 1/4	723.75	10 1/4	475.96	10 1/4	227.96	10 1/4	2.35	10 1/4		10 1/4			
10 1/2	1,710.48	10 1/2	1,462.46	10 1/2	1,214.45	10 1/2	966.43	10 1/2	718.59	10 1/2	470.79	10 1/2	222.79	10 1/2		10 1/2		10 1/2			
3/4	1,705.31	3/4	1,457.29	3/4	1,209.28	3/4	961.26	3/4	713.44	3/4	465.63	3/4	217.63	3/4		3/4		3/4			
11	1,700.14	11	1,452.13	11	1,204.11	11	956.10	11	708.28	11	460.46	11	212.46	11		11		11			
11 1/4	1,694.98	11 1/4	1,446.96	11 1/4	1,198.94	11 1/4	950.93	11 1/4	703.12	11 1/4	455.29	11 1/4	207.29	11 1/4		11 1/4		11 1/4			
11 1/2	1,689.81	11 1/2	1,441.79	11 1/2	1,193.78	11 1/2	945.76	11 1/2	697.97	11 1/2	450.13	11 1/2	202.13	11 1/2		11 1/2		11 1/2			
3/4	1,684.64	3/4	1,436.63	3/4	1,188.61	3/4	940.59	3/4	692.81	3/4	444.96	3/4	196.96	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/04/2005 CL - SW
CALCULATED: 08/05/2005 CL
PRINTED: 08/09/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2005

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