



BARGE "KIRBY 10086"

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

(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 - 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 164'-00"

March 4, 2010

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

<http://www.pmacorp.net>



BARGE "KIRBY 10086"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	3,783.35	0	3,539.98	0	3,287.45	0	3,034.93	0	2,773.94	0	2,477.99	0	2,181.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,780.25	1/4	3,534.72	1/4	3,282.19	1/4	3,029.66	1/4	2,767.78	1/4	2,471.81	1/4	2,175.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,777.14	1/2	3,529.46	1/2	3,276.93	1/2	3,024.40	1/2	2,761.61	1/2	2,465.63	1/2	2,169.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,774.04	3/4	3,524.20	3/4	3,271.67	3/4	3,019.14	3/4	2,755.45	3/4	2,459.55	3/4	2,162.85
1		1		1		1	3,768.87	1	3,518.94	1	3,266.41	1	3,013.88	1	2,749.29	1	2,453.27	1	2,156.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,763.71	1/4	3,513.68	1/4	3,261.15	1/4	3,008.62	1/4	2,743.13	1/4	2,447.09	1/4	2,150.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,758.54	1/2	3,508.42	1/2	3,255.89	1/2	3,003.36	1/2	2,736.97	1/2	2,440.91	1/2	2,144.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,753.37	3/4	3,503.15	3/4	3,250.63	3/4	2,998.10	3/4	2,730.81	3/4	2,434.73	3/4	2,138.13
2		2		2		2	3,748.24	2	3,497.89	2	3,245.37	2	2,992.84	2	2,724.65	2	2,428.55	2	2,131.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,743.12	1/4	3,492.63	1/4	3,240.10	1/4	2,987.58	1/4	2,718.49	1/4	2,422.37	1/4	2,125.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,737.99	1/2	3,487.37	1/2	3,234.84	1/2	2,982.32	1/2	2,712.33	1/2	2,416.19	1/2	2,119.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,732.86	3/4	3,482.11	3/4	3,229.58	3/4	2,977.05	3/4	2,706.17	3/4	2,410.01	3/4	2,113.41
3		3		3		3	3,727.70	3	3,476.85	3	3,224.32	3	2,971.79	3	2,700.01	3	2,403.84	3	2,107.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,722.54	1/4	3,471.59	1/4	3,219.06	1/4	2,966.53	1/4	2,693.85	1/4	2,397.66	1/4	2,101.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,717.38	1/2	3,466.33	1/2	3,213.80	1/2	2,961.27	1/2	2,687.69	1/2	2,391.48	1/2	2,094.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,712.22	3/4	3,461.07	3/4	3,208.54	3/4	2,956.01	3/4	2,681.53	3/4	2,385.30	3/4	2,088.70
4		4		4		4	3,707.04	4	3,455.81	4	3,203.28	4	2,950.75	4	2,675.37	4	2,379.12	4	2,082.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,701.86	1/4	3,450.54	1/4	3,198.02	1/4	2,945.49	1/4	2,669.21	1/4	2,372.94	1/4	2,076.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,696.68	1/2	3,445.28	1/2	3,192.76	1/2	2,940.23	1/2	2,663.05	1/2	2,366.76	1/2	2,070.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,691.51	3/4	3,440.02	3/4	3,187.49	3/4	2,934.97	3/4	2,656.88	3/4	2,360.58	3/4	2,063.98
5		5		5		5	3,686.33	5	3,434.76	5	3,182.23	5	2,929.71	5	2,650.72	5	2,354.40	5	2,057.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,681.16	1/4	3,429.50	1/4	3,176.97	1/4	2,924.44	1/4	2,644.56	1/4	2,348.22	1/4	2,051.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,675.98	1/2	3,424.24	1/2	3,171.71	1/2	2,919.18	1/2	2,638.40	1/2	2,342.04	1/2	2,045.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,670.80	3/4	3,418.98	3/4	3,166.45	3/4	2,913.92	3/4	2,632.24	3/4	2,335.86	3/4	2,039.26
6		6		6		6	3,665.63	6	3,413.72	6	3,161.19	6	2,908.66	6	2,626.08	6	2,329.68	6	2,033.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,660.46	1/4	3,408.46	1/4	3,155.93	1/4	2,903.40	1/4	2,619.92	1/4	2,323.51	1/4	2,026.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,655.28	1/2	3,403.20	1/2	3,150.67	1/2	2,898.14	1/2	2,613.76	1/2	2,317.33	1/2	2,020.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,650.11	3/4	3,397.93	3/4	3,145.41	3/4	2,892.88	3/4	2,607.60	3/4	2,311.15	3/4	2,014.55
7		7		7		7	3,644.94	7	3,392.67	7	3,140.15	7	2,887.62	7	2,601.44	7	2,304.97	7	2,008.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,639.76	1/4	3,387.41	1/4	3,134.88	1/4	2,882.36	1/4	2,595.28	1/4	2,298.79	1/4	2,002.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,634.59	1/2	3,382.15	1/2	3,129.62	1/2	2,877.10	1/2	2,589.12	1/2	2,292.61	1/2	1,996.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,629.42	3/4	3,376.89	3/4	3,124.36	3/4	2,871.83	3/4	2,582.96	3/4	2,286.43	3/4	1,989.83
8		8		8		8	3,624.16	8	3,371.63	8	3,119.10	8	2,866.55	8	2,576.80	8	2,280.25	8	1,983.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,618.90	1/4	3,366.37	1/4	3,113.84	1/4	2,861.26	1/4	2,570.64	1/4	2,274.07	1/4	1,977.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,613.64	1/2	3,361.11	1/2	3,108.58	1/2	2,855.98	1/2	2,564.48	1/2	2,267.89	1/2	1,971.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,608.37	3/4	3,355.85	3/4	3,103.32	3/4	2,850.69	3/4	2,558.32	3/4	2,261.71	3/4	1,965.11
9		9		9		9	3,603.11	9	3,350.59	9	3,098.06	9	2,845.41	9	2,552.14	9	2,255.53	9	1,958.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,597.85	1/4	3,345.32	1/4	3,092.80	1/4	2,840.12	1/4	2,545.96	1/4	2,249.36	1/4	1,952.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,592.59	1/2	3,340.06	1/2	3,087.54	1/2	2,834.83	1/2	2,539.78	1/2	2,243.18	1/2	1,946.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,587.33	3/4	3,334.80	3/4	3,082.27	3/4	2,829.55	3/4	2,533.60	3/4	2,237.00	3/4	1,940.40
10		10		10		10	3,582.07	10	3,329.54	10	3,077.01	10	2,823.35	10	2,527.42	10	2,230.82	10	1,934.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,576.81	1/4	3,324.28	1/4	3,071.75	1/4	2,817.14	1/4	2,521.24	1/4	2,224.64	1/4	1,928.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,571.55	1/2	3,319.02	1/2	3,066.49	1/2	2,810.94	1/2	2,515.06	1/2	2,218.46	1/2	1,921.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,566.29	3/4	3,313.76	3/4	3,061.23	3/4	2,804.74	3/4	2,508.88	3/4	2,212.28	3/4	1,915.68
11		11		11	3,789.55	11	3,561.03	11	3,308.50	11	3,055.97	11	2,798.58	11	2,502.70	11	2,206.10	11	1,909.50
1/4	1/4	1/4	1/4	1/4	3,788.52	1/4	3,555.76	1/4	3,303.24	1/4	3,050.71	1/4	2,792.42	1/4	2,496.52	1/4	2,199.92	1/4	1,903.32
1/2	1/2	1/2	1/2	1/2	3,787.48	1/2	3,550.50	1/2	3,297.98	1/2	3,045.45	1/2	2,786.26	1/2	2,490.34	1/2	2,193.74	1/2	1,897.14
3/4	3/4	3/4	3/4	3/4	3,786.45	3/4	3,545.24	3/4	3,292.71	3/4	3,040.19	3/4	2,780.10	3/4	2,484.16	3/4	2,187.56	3/4	1,890.96

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 ON CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 10086"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,884.78	0	1,587.93	0	1,290.92	0	993.90	0	702.94	0	405.78	0	108.60	0		0			
1/4	1,878.60	1/4	1,581.75	1/4	1,284.73	1/4	987.72	1/4	696.77	1/4	399.59	1/4	102.43	1/4		1/4			
1/2	1,872.42	1/2	1,575.56	1/2	1,278.54	1/2	981.53	1/2	690.60	1/2	393.40	1/2	96.27	1/2		1/2			
3/4	1,866.24	3/4	1,569.37	3/4	1,272.36	3/4	975.34	3/4	684.42	3/4	387.21	3/4	90.10	3/4		3/4			
1	1,860.07	1	1,563.18	1	1,266.17	1	969.22	1	678.23	1	381.01	1	83.97	1		1			
1/4	1,853.89	1/4	1,556.99	1/4	1,259.98	1/4	963.09	1/4	672.04	1/4	374.82	1/4	77.84	1/4		1/4			
1/2	1,847.71	1/2	1,550.81	1/2	1,253.79	1/2	956.97	1/2	665.85	1/2	368.63	1/2	71.71	1/2		1/2			
3/4	1,841.53	3/4	1,544.62	3/4	1,247.60	3/4	950.84	3/4	659.66	3/4	362.44	3/4	65.58	3/4		3/4			
2	1,835.35	2	1,538.43	2	1,241.42	2	944.78	2	653.46	2	356.24	2	59.50	2		2			
1/4	1,829.17	1/4	1,532.24	1/4	1,235.23	1/4	938.72	1/4	647.27	1/4	350.05	1/4	53.42	1/4		1/4			
1/2	1,822.99	1/2	1,526.05	1/2	1,229.04	1/2	932.66	1/2	641.08	1/2	343.86	1/2	47.35	1/2		1/2			
3/4	1,816.81	3/4	1,519.87	3/4	1,222.85	3/4	926.59	3/4	634.89	3/4	337.67	3/4	41.27	3/4		3/4			
3	1,810.62	3	1,513.68	3	1,216.66	3	920.53	3	628.70	3	331.48	3	36.11	3		3			
1/4	1,804.44	1/4	1,507.49	1/4	1,210.48	1/4	914.47	1/4	622.50	1/4	325.28	1/4	30.95	1/4		1/4			
1/2	1,798.25	1/2	1,501.30	1/2	1,204.29	1/2	908.41	1/2	616.31	1/2	319.09	1/2	25.79	1/2		1/2			
3/4	1,792.06	3/4	1,495.12	3/4	1,198.10	3/4	902.35	3/4	610.12	3/4	312.90	3/4	20.63	3/4		3/4			
4	1,785.87	4	1,488.93	4	1,191.91	4	896.31	4	603.93	4	306.71	4	17.53	4		4			
1/4	1,779.68	1/4	1,482.74	1/4	1,185.73	1/4	890.26	1/4	597.74	1/4	300.52	1/4	14.43	1/4		1/4			
1/2	1,773.50	1/2	1,476.55	1/2	1,179.54	1/2	884.22	1/2	591.54	1/2	294.32	1/2	11.33	1/2		1/2			
3/4	1,767.31	3/4	1,470.36	3/4	1,173.35	3/4	878.17	3/4	585.35	3/4	288.13	3/4	8.22	3/4		3/4			
5	1,761.12	5	1,464.18	5	1,167.16	5	872.14	5	579.16	5	281.94	5	7.19	5		5			
1/4	1,754.93	1/4	1,457.99	1/4	1,160.97	1/4	866.11	1/4	572.97	1/4	275.75	1/4	6.16	1/4		1/4			
1/2	1,748.75	1/2	1,451.80	1/2	1,154.79	1/2	860.09	1/2	566.78	1/2	269.56	1/2	5.12	1/2		1/2			
3/4	1,742.56	3/4	1,445.61	3/4	1,148.60	3/4	854.06	3/4	560.58	3/4	263.36	3/4	4.09	3/4		3/4			
6	1,736.37	6	1,439.43	6	1,142.41	6	848.03	6	554.39	6	257.17	6		6		6			
1/4	1,730.19	1/4	1,433.24	1/4	1,136.22	1/4	842.00	1/4	548.20	1/4	250.98	1/4		1/4		1/4			
1/2	1,724.00	1/2	1,427.05	1/2	1,130.04	1/2	835.97	1/2	542.01	1/2	244.79	1/2		1/2		1/2			
3/4	1,717.81	3/4	1,420.86	3/4	1,123.85	3/4	829.94	3/4	535.82	3/4	238.59	3/4		3/4		3/4			
7	1,711.63	7	1,414.67	7	1,117.66	7	823.91	7	529.62	7	232.40	7		7		7			
1/4	1,705.45	1/4	1,408.49	1/4	1,111.47	1/4	817.89	1/4	523.43	1/4	226.21	1/4		1/4		1/4			
1/2	1,699.26	1/2	1,402.30	1/2	1,105.28	1/2	811.86	1/2	517.24	1/2	220.02	1/2		1/2		1/2			
3/4	1,693.08	3/4	1,396.11	3/4	1,099.10	3/4	805.83	3/4	511.05	3/4	213.83	3/4		3/4		3/4			
8	1,686.89	8	1,389.92	8	1,092.91	8	799.80	8	504.85	8	207.63	8		8		8			
1/4	1,680.71	1/4	1,383.74	1/4	1,086.72	1/4	793.77	1/4	498.66	1/4	201.44	1/4		1/4		1/4			
1/2	1,674.52	1/2	1,377.55	1/2	1,080.53	1/2	787.74	1/2	492.47	1/2	195.25	1/2		1/2		1/2			
3/4	1,668.34	3/4	1,371.36	3/4	1,074.35	3/4	781.72	3/4	486.28	3/4	189.06	3/4		3/4		3/4			
9	1,662.15	9	1,365.17	9	1,068.16	9	775.69	9	480.09	9	182.87	9		9		9			
1/4	1,655.97	1/4	1,358.98	1/4	1,061.97	1/4	769.66	1/4	473.89	1/4	176.68	1/4		1/4		1/4			
1/2	1,649.78	1/2	1,352.80	1/2	1,055.78	1/2	763.63	1/2	467.70	1/2	170.48	1/2		1/2		1/2			
3/4	1,643.60	3/4	1,346.61	3/4	1,049.59	3/4	757.60	3/4	461.51	3/4	164.29	3/4		3/4		3/4			
10	1,637.41	10	1,340.42	10	1,043.41	10	751.57	10	455.32	10	158.09	10		10		10			
1/4	1,631.23	1/4	1,334.23	1/4	1,037.22	1/4	745.54	1/4	449.13	1/4	151.90	1/4		1/4		1/4			
1/2	1,625.04	1/2	1,328.05	1/2	1,031.03	1/2	739.52	1/2	442.93	1/2	145.70	1/2		1/2		1/2			
3/4	1,618.86	3/4	1,321.86	3/4	1,024.84	3/4	733.49	3/4	436.74	3/4	139.50	3/4		3/4		3/4			
11	1,612.67	11	1,315.67	11	1,018.66	11	727.40	11	430.55	11	133.32	11		11		11			
1/4	1,606.49	1/4	1,309.48	1/4	1,012.47	1/4	721.30	1/4	424.36	1/4	127.13	1/4		1/4		1/4			
1/2	1,600.31	1/2	1,303.29	1/2	1,006.28	1/2	715.21	1/2	418.17	1/2	120.95	1/2		1/2		1/2			
3/4	1,594.12	3/4	1,297.11	3/4	1,000.09	3/4	709.12	3/4	411.97	3/4	114.76	3/4		3/4		3/4			

STRAPPED: 03/04/2010 CL - SW
CALCULATED: 03/04/2010 CL
PRINTED: 03/04/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2010

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10086"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,493.27	0	3,257.58	0	2,995.88	0	2,734.19	0	2,472.08	0	2,208.99	0	1,945.90
1/4		1/4		1/4		1/4	3,492.36	1/4	3,252.13	1/4	2,990.43	1/4	2,728.73	1/4	2,466.60	1/4	2,203.51	1/4	1,940.42
1/2		1/2		1/2		1/2	3,491.44	1/2	3,246.67	1/2	2,984.98	1/2	2,723.28	1/2	2,461.12	1/2	2,198.03	1/2	1,934.94
3/4		3/4		3/4		3/4	3,488.70	3/4	3,241.22	3/4	2,979.53	3/4	2,717.83	3/4	2,455.64	3/4	2,192.55	3/4	1,929.45
1		1		1		1	3,485.96	1	3,235.77	1	2,974.07	1	2,712.38	1	2,450.16	1	2,187.07	1	1,923.97
1/4		1/4		1/4		1/4	3,483.22	1/4	3,230.32	1/4	2,968.62	1/4	2,706.93	1/4	2,444.68	1/4	2,181.58	1/4	1,918.49
1/2		1/2		1/2		1/2	3,480.47	1/2	3,224.87	1/2	2,963.17	1/2	2,701.47	1/2	2,439.20	1/2	2,176.10	1/2	1,913.01
3/4		3/4		3/4		3/4	3,475.90	3/4	3,219.41	3/4	2,957.72	3/4	2,696.02	3/4	2,433.72	3/4	2,170.62	3/4	1,907.53
2		2		2		2	3,471.34	2	3,213.96	2	2,952.27	2	2,690.57	2	2,428.23	2	2,165.14	2	1,902.05
1/4		1/4		1/4		1/4	3,466.77	1/4	3,208.51	1/4	2,946.81	1/4	2,685.12	1/4	2,422.75	1/4	2,159.66	1/4	1,896.57
1/2		1/2		1/2		1/2	3,462.20	1/2	3,203.06	1/2	2,941.36	1/2	2,679.67	1/2	2,417.27	1/2	2,154.18	1/2	1,891.09
3/4		3/4		3/4		3/4	3,456.89	3/4	3,197.61	3/4	2,935.91	3/4	2,674.21	3/4	2,411.79	3/4	2,148.70	3/4	1,885.61
3		3		3		3	3,451.57	3	3,192.15	3	2,930.46	3	2,668.76	3	2,406.31	3	2,143.22	3	1,880.12
1/4		1/4		1/4		1/4	3,446.26	1/4	3,186.70	1/4	2,925.01	1/4	2,663.31	1/4	2,400.83	1/4	2,137.74	1/4	1,874.64
1/2		1/2		1/2		1/2	3,440.95	1/2	3,181.25	1/2	2,919.55	1/2	2,657.86	1/2	2,395.35	1/2	2,132.25	1/2	1,869.16
3/4		3/4		3/4		3/4	3,435.61	3/4	3,175.80	3/4	2,914.10	3/4	2,652.41	3/4	2,389.87	3/4	2,126.77	3/4	1,863.68
4		4		4		4	3,430.26	4	3,170.35	4	2,908.65	4	2,646.95	4	2,384.39	4	2,121.29	4	1,858.20
1/4		1/4		1/4		1/4	3,424.92	1/4	3,164.89	1/4	2,903.20	1/4	2,641.50	1/4	2,378.90	1/4	2,115.81	1/4	1,852.72
1/2		1/2		1/2		1/2	3,419.57	1/2	3,159.44	1/2	2,897.75	1/2	2,636.05	1/2	2,373.42	1/2	2,110.33	1/2	1,847.24
3/4		3/4		3/4		3/4	3,414.22	3/4	3,153.99	3/4	2,892.29	3/4	2,630.60	3/4	2,367.94	3/4	2,104.85	3/4	1,841.76
5		5		5		5	3,408.86	5	3,148.54	5	2,886.84	5	2,625.15	5	2,362.46	5	2,099.37	5	1,836.28
1/4		1/4		1/4		1/4	3,403.51	1/4	3,143.09	1/4	2,881.39	1/4	2,619.69	1/4	2,356.98	1/4	2,093.89	1/4	1,830.79
1/2		1/2		1/2		1/2	3,398.15	1/2	3,137.63	1/2	2,875.94	1/2	2,614.24	1/2	2,351.50	1/2	2,088.41	1/2	1,825.31
3/4		3/4		3/4		3/4	3,392.80	3/4	3,132.18	3/4	2,870.49	3/4	2,608.79	3/4	2,346.02	3/4	2,082.92	3/4	1,819.83
6		6		6		6	3,387.44	6	3,126.73	6	2,865.03	6	2,603.34	6	2,340.54	6	2,077.44	6	1,814.35
1/4		1/4		1/4		1/4	3,382.08	1/4	3,121.28	1/4	2,859.58	1/4	2,597.89	1/4	2,335.06	1/4	2,071.96	1/4	1,808.87
1/2		1/2		1/2		1/2	3,376.73	1/2	3,115.83	1/2	2,854.13	1/2	2,592.43	1/2	2,329.57	1/2	2,066.48	1/2	1,803.39
3/4		3/4		3/4		3/4	3,371.37	3/4	3,110.37	3/4	2,848.68	3/4	2,586.98	3/4	2,324.09	3/4	2,061.00	3/4	1,797.91
7		7		7		7	3,366.02	7	3,104.92	7	2,843.23	7	2,581.53	7	2,318.61	7	2,055.52	7	1,792.43
1/4		1/4		1/4		1/4	3,360.67	1/4	3,099.47	1/4	2,837.77	1/4	2,576.08	1/4	2,313.13	1/4	2,050.04	1/4	1,786.95
1/2		1/2		1/2		1/2	3,355.32	1/2	3,094.02	1/2	2,832.32	1/2	2,570.63	1/2	2,307.65	1/2	2,044.56	1/2	1,781.46
3/4		3/4		3/4		3/4	3,349.96	3/4	3,088.57	3/4	2,826.87	3/4	2,565.17	3/4	2,302.17	3/4	2,039.08	3/4	1,775.98
8		8		8		8	3,344.61	8	3,083.11	8	2,821.42	8	2,559.72	8	2,296.69	8	2,033.59	8	1,770.50
1/4		1/4		1/4		1/4	3,339.26	1/4	3,077.66	1/4	2,815.97	1/4	2,554.27	1/4	2,291.21	1/4	2,028.11	1/4	1,765.02
1/2		1/2		1/2		1/2	3,333.91	1/2	3,072.21	1/2	2,810.51	1/2	2,548.82	1/2	2,285.73	1/2	2,022.63	1/2	1,759.54
3/4		3/4		3/4		3/4	3,328.45	3/4	3,066.76	3/4	2,805.06	3/4	2,543.34	3/4	2,280.24	3/4	2,017.15	3/4	1,754.06
9		9		9		9	3,323.00	9	3,061.31	9	2,799.61	9	2,537.86	9	2,274.76	9	2,011.67	9	1,748.58
1/4		1/4		1/4		1/4	3,317.55	1/4	3,055.85	1/4	2,794.16	1/4	2,532.37	1/4	2,269.28	1/4	2,006.19	1/4	1,743.10
1/2		1/2		1/2		1/2	3,312.10	1/2	3,050.40	1/2	2,788.71	1/2	2,526.89	1/2	2,263.80	1/2	2,000.71	1/2	1,737.62
3/4		3/4		3/4		3/4	3,306.65	3/4	3,044.95	3/4	2,783.25	3/4	2,521.41	3/4	2,258.32	3/4	1,995.23	3/4	1,732.13
10		10		10		10	3,301.19	10	3,039.50	10	2,777.80	10	2,515.93	10	2,252.84	10	1,989.75	10	1,726.65
1/4		1/4		1/4		1/4	3,295.74	1/4	3,034.05	1/4	2,772.35	1/4	2,510.45	1/4	2,247.36	1/4	1,984.26	1/4	1,721.17
1/2		1/2		1/2		1/2	3,290.29	1/2	3,028.59	1/2	2,766.90	1/2	2,504.97	1/2	2,241.88	1/2	1,978.78	1/2	1,715.69
3/4		3/4		3/4		3/4	3,284.84	3/4	3,023.14	3/4	2,761.45	3/4	2,499.49	3/4	2,236.40	3/4	1,973.30	3/4	1,710.21
11		11		11		11	3,279.39	11	3,017.69	11	2,755.99	11	2,494.01	11	2,230.91	11	1,967.82	11	1,704.73
1/4		1/4		1/4		1/4	3,273.93	1/4	3,012.24	1/4	2,750.54	1/4	2,488.53	1/4	2,225.43	1/4	1,962.34	1/4	1,699.25
1/2		1/2		1/2		1/2	3,268.48	1/2	3,006.79	1/2	2,745.09	1/2	2,483.05	1/2	2,219.95	1/2	1,956.86	1/2	1,693.77
3/4		3/4		3/4		3/4	3,494.19	3/4	3,263.03	3/4	3,001.33	3/4	2,739.64	3/4	2,477.56	3/4	2,214.47	3/4	1,688.29

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 ON CENTERLINE AND 27'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 10086"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,682.80	0	1,419.71	0	1,156.45	0	894.88	0	635.79	0	372.64	0	109.45	0		0		0	
1/4	1,677.32	1/4	1,414.23	1/4	1,150.97	1/4	889.49	1/4	630.35	1/4	367.15	1/4	103.98	1/4		1/4		1/4	
1/2	1,671.84	1/2	1,408.75	1/2	1,145.48	1/2	884.09	1/2	624.91	1/2	361.67	1/2	98.52	1/2		1/2		1/2	
3/4	1,666.36	3/4	1,403.26	3/4	1,140.00	3/4	878.69	3/4	619.43	3/4	356.18	3/4	93.07	3/4		3/4		3/4	
1	1,660.88	1	1,397.78	1	1,134.51	1	873.29	1	613.94	1	350.70	1	87.62	1		1		1	
1/4	1,655.40	1/4	1,392.30	1/4	1,129.03	1/4	867.89	1/4	608.46	1/4	345.22	1/4	82.17	1/4		1/4		1/4	
1/2	1,649.92	1/2	1,386.81	1/2	1,123.55	1/2	862.49	1/2	602.98	1/2	339.73	1/2	76.72	1/2		1/2		1/2	
3/4	1,644.44	3/4	1,381.33	3/4	1,118.06	3/4	857.09	3/4	597.49	3/4	334.25	3/4	71.30	3/4		3/4		3/4	
2	1,638.96	2	1,375.84	2	1,112.58	2	851.69	2	592.01	2	328.76	2	65.88	2		2		2	
1/4	1,633.47	1/4	1,370.36	1/4	1,107.09	1/4	846.29	1/4	586.53	1/4	323.28	1/4	60.45	1/4		1/4		1/4	
1/2	1,627.99	1/2	1,364.87	1/2	1,101.61	1/2	840.89	1/2	581.04	1/2	317.79	1/2	55.03	1/2		1/2		1/2	
3/4	1,622.51	3/4	1,359.39	3/4	1,096.12	3/4	835.49	3/4	575.56	3/4	312.31	3/4	49.66	3/4		3/4		3/4	
3	1,617.03	3	1,353.90	3	1,090.64	3	830.09	3	570.07	3	306.83	3	44.29	3		3		3	
1/4	1,611.55	1/4	1,348.42	1/4	1,085.15	1/4	824.69	1/4	564.59	1/4	301.34	1/4	38.92	1/4		1/4		1/4	
1/2	1,606.07	1/2	1,342.93	1/2	1,079.67	1/2	819.29	1/2	559.10	1/2	295.86	1/2	33.55	1/2		1/2		1/2	
3/4	1,600.59	3/4	1,337.45	3/4	1,074.18	3/4	813.89	3/4	553.62	3/4	290.37	3/4	28.99	3/4		3/4		3/4	
4	1,595.11	4	1,331.96	4	1,068.70	4	808.50	4	548.14	4	284.89	4	24.43	4		4		4	
1/4	1,589.63	1/4	1,326.48	1/4	1,063.21	1/4	803.11	1/4	542.65	1/4	279.40	1/4	19.86	1/4		1/4		1/4	
1/2	1,584.14	1/2	1,320.99	1/2	1,057.73	1/2	797.71	1/2	537.17	1/2	273.92	1/2	15.30	1/2		1/2		1/2	
3/4	1,578.66	3/4	1,315.51	3/4	1,052.24	3/4	792.32	3/4	531.68	3/4	268.44	3/4	12.56	3/4		3/4		3/4	
5	1,573.18	5	1,310.02	5	1,046.76	5	786.92	5	526.20	5	262.95	5	9.82	5		5		5	
1/4	1,567.70	1/4	1,304.54	1/4	1,041.27	1/4	781.53	1/4	520.71	1/4	257.47	1/4	7.08	1/4		1/4		1/4	
1/2	1,562.22	1/2	1,299.06	1/2	1,035.79	1/2	776.13	1/2	515.23	1/2	251.98	1/2	4.33	1/2		1/2		1/2	
3/4	1,556.74	3/4	1,293.57	3/4	1,030.31	3/4	770.74	3/4	509.75	3/4	246.50	3/4	3.42	3/4		3/4		3/4	
6	1,551.26	6	1,288.09	6	1,024.82	6	765.35	6	504.26	6	241.01	6	2.51	6		6		6	
1/4	1,545.78	1/4	1,282.60	1/4	1,019.34	1/4	759.95	1/4	498.78	1/4	235.53	1/4	1.59	1/4		1/4		1/4	
1/2	1,540.30	1/2	1,277.12	1/2	1,013.85	1/2	754.56	1/2	493.29	1/2	230.05	1/2	0.68	1/2		1/2		1/2	
3/4	1,534.81	3/4	1,271.63	3/4	1,008.41	3/4	749.16	3/4	487.81	3/4	224.56	3/4		3/4		3/4		3/4	
7	1,529.33	7	1,266.15	7	1,002.97	7	743.77	7	482.32	7	219.08	7		7		7		7	
1/4	1,523.85	1/4	1,260.66	1/4	997.52	1/4	738.37	1/4	476.84	1/4	213.59	1/4		1/4		1/4		1/4	
1/2	1,518.37	1/2	1,255.18	1/2	992.08	1/2	732.98	1/2	471.36	1/2	208.11	1/2		1/2		1/2		1/2	
3/4	1,512.89	3/4	1,249.69	3/4	986.68	3/4	727.58	3/4	465.87	3/4	202.62	3/4		3/4		3/4		3/4	
8	1,507.41	8	1,244.21	8	981.28	8	722.19	8	460.39	8	197.14	8		8		8		8	
1/4	1,501.93	1/4	1,238.72	1/4	975.88	1/4	716.80	1/4	454.90	1/4	191.66	1/4		1/4		1/4		1/4	
1/2	1,496.45	1/2	1,233.24	1/2	970.48	1/2	711.40	1/2	449.42	1/2	186.17	1/2		1/2		1/2		1/2	
3/4	1,490.97	3/4	1,227.75	3/4	965.08	3/4	706.01	3/4	443.93	3/4	180.69	3/4		3/4		3/4		3/4	
9	1,485.48	9	1,222.27	9	959.68	9	700.61	9	438.45	9	175.20	9		9		9		9	
1/4	1,480.00	1/4	1,216.78	1/4	954.28	1/4	695.22	1/4	432.96	1/4	169.72	1/4		1/4		1/4		1/4	
1/2	1,474.52	1/2	1,211.30	1/2	948.88	1/2	689.82	1/2	427.48	1/2	164.23	1/2		1/2		1/2		1/2	
3/4	1,469.04	3/4	1,205.82	3/4	943.48	3/4	684.43	3/4	422.00	3/4	158.75	3/4		3/4		3/4		3/4	
10	1,463.56	10	1,200.33	10	938.08	10	679.03	10	416.51	10	153.27	10		10		10		10	
1/4	1,458.08	1/4	1,194.85	1/4	932.68	1/4	673.64	1/4	411.03	1/4	147.78	1/4		1/4		1/4		1/4	
1/2	1,452.60	1/2	1,189.36	1/2	927.28	1/2	668.25	1/2	405.54	1/2	142.30	1/2		1/2		1/2		1/2	
3/4	1,447.12	3/4	1,183.88	3/4	921.88	3/4	662.85	3/4	400.06	3/4	136.82	3/4		3/4		3/4		3/4	
11	1,441.64	11	1,178.39	11	916.48	11	657.46	11	394.57	11	131.34	11		11		11		11	
1/4	1,436.15	1/4	1,172.91	1/4	911.08	1/4	652.07	1/4	389.09	1/4	125.86	1/4		1/4		1/4		1/4	
1/2	1,430.67	1/2	1,167.42	1/2	905.68	1/2	646.67	1/2	383.61	1/2	120.39	1/2		1/2		1/2		1/2	
3/4	1,425.19	3/4	1,161.94	3/4	900.28	3/4	641.23	3/4	378.12	3/4	114.92	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/04/2010 CL - SW
CALCULATED: 03/04/2010 CL
PRINTED: 03/04/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2010

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



BARGE "KIRBY 10086"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	3,474.14	0	3,240.03	0	2,980.09	0	2,720.16	0	2,459.81	0	2,198.48	0	1,937.15
1/4		1/4		1/4		1/4	3,473.23	1/4	3,234.61	1/4	2,974.68	1/4	2,714.74	1/4	2,454.37	1/4	2,193.04	1/4	1,931.71
1/2		1/2		1/2		1/2	3,472.32	1/2	3,229.19	1/2	2,969.26	1/2	2,709.33	1/2	2,448.93	1/2	2,187.59	1/2	1,926.26
3/4		3/4		3/4		3/4	3,469.60	3/4	3,223.78	3/4	2,963.85	3/4	2,703.91	3/4	2,443.48	3/4	2,182.15	3/4	1,920.82
1		1		1		1	3,466.88	1	3,218.36	1	2,958.43	1	2,698.50	1	2,438.04	1	2,176.71	1	1,915.37
1/4		1/4		1/4		1/4	3,464.15	1/4	3,212.95	1/4	2,953.01	1/4	2,693.08	1/4	2,432.59	1/4	2,171.26	1/4	1,909.93
1/2		1/2		1/2		1/2	3,461.43	1/2	3,207.53	1/2	2,947.60	1/2	2,687.66	1/2	2,427.15	1/2	2,165.82	1/2	1,904.49
3/4		3/4		3/4		3/4	3,456.89	3/4	3,202.12	3/4	2,942.18	3/4	2,682.25	3/4	2,421.70	3/4	2,160.37	3/4	1,899.04
2		2		2		2	3,452.35	2	3,196.70	2	2,936.77	2	2,676.83	2	2,416.26	2	2,154.93	2	1,893.60
1/4		1/4		1/4		1/4	3,447.81	1/4	3,191.29	1/4	2,931.35	1/4	2,671.42	1/4	2,410.82	1/4	2,149.48	1/4	1,888.15
1/2		1/2		1/2		1/2	3,443.28	1/2	3,185.87	1/2	2,925.94	1/2	2,666.00	1/2	2,405.37	1/2	2,144.04	1/2	1,882.71
3/4		3/4		3/4		3/4	3,438.00	3/4	3,180.46	3/4	2,920.52	3/4	2,660.59	3/4	2,399.93	3/4	2,138.60	3/4	1,877.26
3		3		3		3	3,432.72	3	3,175.04	3	2,915.11	3	2,655.17	3	2,394.48	3	2,133.15	3	1,871.82
1/4		1/4		1/4		1/4	3,427.45	1/4	3,169.63	1/4	2,909.69	1/4	2,649.76	1/4	2,389.04	1/4	2,127.71	1/4	1,866.38
1/2		1/2		1/2		1/2	3,422.17	1/2	3,164.21	1/2	2,904.28	1/2	2,644.34	1/2	2,383.59	1/2	2,122.26	1/2	1,860.93
3/4		3/4		3/4		3/4	3,416.86	3/4	3,158.80	3/4	2,898.86	3/4	2,638.93	3/4	2,378.15	3/4	2,116.82	3/4	1,855.49
4		4		4		4	3,411.56	4	3,153.38	4	2,893.45	4	2,633.51	4	2,372.70	4	2,111.37	4	1,850.04
1/4		1/4		1/4		1/4	3,406.25	1/4	3,147.97	1/4	2,888.03	1/4	2,628.10	1/4	2,367.26	1/4	2,105.93	1/4	1,844.60
1/2		1/2		1/2		1/2	3,400.94	1/2	3,142.55	1/2	2,882.62	1/2	2,622.68	1/2	2,361.82	1/2	2,100.48	1/2	1,839.15
3/4		3/4		3/4		3/4	3,395.62	3/4	3,137.13	3/4	2,877.20	3/4	2,617.27	3/4	2,356.37	3/4	2,095.04	3/4	1,833.71
5		5		5		5	3,390.30	5	3,131.72	5	2,871.79	5	2,611.85	5	2,350.93	5	2,089.60	5	1,828.26
1/4		1/4		1/4		1/4	3,384.98	1/4	3,126.30	1/4	2,866.37	1/4	2,606.44	1/4	2,345.48	1/4	2,084.15	1/4	1,822.82
1/2		1/2		1/2		1/2	3,379.66	1/2	3,120.89	1/2	2,860.95	1/2	2,601.02	1/2	2,340.04	1/2	2,078.71	1/2	1,817.38
3/4		3/4		3/4		3/4	3,374.34	3/4	3,115.47	3/4	2,855.54	3/4	2,595.60	3/4	2,334.59	3/4	2,073.26	3/4	1,811.93
6		6		6		6	3,369.02	6	3,110.06	6	2,850.12	6	2,590.19	6	2,329.15	6	2,067.82	6	1,806.49
1/4		1/4		1/4		1/4	3,363.70	1/4	3,104.64	1/4	2,844.71	1/4	2,584.77	1/4	2,323.70	1/4	2,062.37	1/4	1,801.04
1/2		1/2		1/2		1/2	3,358.38	1/2	3,099.23	1/2	2,839.29	1/2	2,579.36	1/2	2,318.26	1/2	2,056.93	1/2	1,795.60
3/4		3/4		3/4		3/4	3,353.06	3/4	3,093.81	3/4	2,833.88	3/4	2,573.94	3/4	2,312.82	3/4	2,051.48	3/4	1,790.15
7		7		7		7	3,347.74	7	3,088.40	7	2,828.46	7	2,568.53	7	2,307.37	7	2,046.04	7	1,784.71
1/4		1/4		1/4		1/4	3,342.43	1/4	3,082.98	1/4	2,823.05	1/4	2,563.11	1/4	2,301.93	1/4	2,040.60	1/4	1,779.26
1/2		1/2		1/2		1/2	3,337.11	1/2	3,077.57	1/2	2,817.63	1/2	2,557.70	1/2	2,296.48	1/2	2,035.15	1/2	1,773.82
3/4		3/4		3/4		3/4	3,331.79	3/4	3,072.15	3/4	2,812.22	3/4	2,552.28	3/4	2,291.04	3/4	2,029.71	3/4	1,768.38
8		8		8		8	3,326.47	8	3,066.74	8	2,806.80	8	2,546.87	8	2,285.59	8	2,024.26	8	1,762.93
1/4		1/4		1/4		1/4	3,321.16	1/4	3,061.32	1/4	2,801.39	1/4	2,541.45	1/4	2,280.15	1/4	2,018.82	1/4	1,757.49
1/2		1/2		1/2		1/2	3,315.84	1/2	3,055.91	1/2	2,795.97	1/2	2,536.04	1/2	2,274.71	1/2	2,013.37	1/2	1,752.04
3/4		3/4		3/4		3/4	3,310.42	3/4	3,050.49	3/4	2,790.56	3/4	2,530.59	3/4	2,269.26	3/4	2,007.93	3/4	1,746.60
9		9		9		9	3,305.01	9	3,045.07	9	2,785.14	9	2,525.15	9	2,263.82	9	2,002.49	9	1,741.15
1/4		1/4		1/4		1/4	3,299.59	1/4	3,039.66	1/4	2,779.72	1/4	2,519.70	1/4	2,258.37	1/4	1,997.04	1/4	1,735.71
1/2		1/2		1/2		1/2	3,294.18	1/2	3,034.24	1/2	2,774.31	1/2	2,514.26	1/2	2,252.93	1/2	1,991.60	1/2	1,730.27
3/4		3/4		3/4		3/4	3,288.76	3/4	3,028.83	3/4	2,768.89	3/4	2,508.81	3/4	2,247.48	3/4	1,986.15	3/4	1,724.82
10		10		10		10	3,283.35	10	3,023.41	10	2,763.48	10	2,503.37	10	2,242.04	10	1,980.71	10	1,719.38
1/4		1/4		1/4		1/4	3,277.93	1/4	3,018.00	1/4	2,758.06	1/4	2,497.93	1/4	2,236.59	1/4	1,975.26	1/4	1,713.93
1/2		1/2		1/2		1/2	3,272.52	1/2	3,012.58	1/2	2,752.65	1/2	2,492.48	1/2	2,231.15	1/2	1,969.82	1/2	1,708.49
3/4		3/4		3/4		3/4	3,267.10	3/4	3,007.17	3/4	2,747.23	3/4	2,487.04	3/4	2,225.71	3/4	1,964.37	3/4	1,703.04
11		11		11		11	3,261.69	11	3,001.75	11	2,741.82	11	2,481.59	11	2,220.26	11	1,958.93	11	1,697.60
1/4		1/4		1/4		1/4	3,256.27	1/4	2,996.34	1/4	2,736.40	1/4	2,476.15	1/4	2,214.82	1/4	1,953.49	1/4	1,692.15
1/2		1/2		1/2		1/2	3,250.86	1/2	2,990.92	1/2	2,730.99	1/2	2,470.70	1/2	2,209.37	1/2	1,948.04	1/2	1,686.71
3/4		3/4		3/4		3/4	3,475.05	3/4	3,245.44	3/4	2,985.51	3/4	2,725.57	3/4	2,465.26	3/4	2,203.93	3/4	1,681.27

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 ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 10086"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,675.82	0	1,414.49	0	1,152.99	0	892.29	0	631.63	0	370.15	0	108.72	0		0			
1/4	1,670.38	1/4	1,409.05	1/4	1,147.55	1/4	886.88	1/4	626.18	1/4	364.70	1/4	103.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,664.93	1/2	1,403.60	1/2	1,142.10	1/2	881.47	1/2	620.73	1/2	359.25	1/2	97.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,659.49	3/4	1,398.15	3/4	1,136.65	3/4	876.06	3/4	615.29	3/4	353.81	3/4	92.45	3/4	3/4	3/4	3/4	3/4	3/4
1	1,654.04	1	1,392.71	1	1,131.20	1	870.65	1	609.84	1	348.36	1	87.03	1	1	1	1	1	1
1/4	1,648.60	1/4	1,387.26	1/4	1,125.75	1/4	865.23	1/4	604.39	1/4	342.91	1/4	81.62	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,643.15	1/2	1,381.81	1/2	1,120.31	1/2	859.82	1/2	598.95	1/2	337.46	1/2	76.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,637.71	3/4	1,376.36	3/4	1,114.86	3/4	854.41	3/4	593.50	3/4	332.02	3/4	70.82	3/4	3/4	3/4	3/4	3/4	3/4
2	1,632.27	2	1,370.91	2	1,109.41	2	849.00	2	588.05	2	326.57	2	65.44	2	2	2	2	2	2
1/4	1,626.82	1/4	1,365.47	1/4	1,103.96	1/4	843.59	1/4	582.60	1/4	321.12	1/4	60.05	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,621.38	1/2	1,360.02	1/2	1,098.51	1/2	838.18	1/2	577.16	1/2	315.67	1/2	54.67	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,615.93	3/4	1,354.57	3/4	1,093.07	3/4	832.77	3/4	571.71	3/4	310.22	3/4	49.33	3/4	3/4	3/4	3/4	3/4	3/4
3	1,610.49	3	1,349.12	3	1,087.62	3	827.35	3	566.26	3	304.78	3	44.00	3	3	3	3	3	3
1/4	1,605.04	1/4	1,343.67	1/4	1,082.17	1/4	821.94	1/4	560.81	1/4	299.33	1/4	38.66	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,599.60	1/2	1,338.23	1/2	1,076.72	1/2	816.53	1/2	555.37	1/2	293.88	1/2	33.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,594.16	3/4	1,332.78	3/4	1,071.27	3/4	811.13	3/4	549.92	3/4	288.43	3/4	28.80	3/4	3/4	3/4	3/4	3/4	3/4
4	1,588.71	4	1,327.33	4	1,065.83	4	805.72	4	544.47	4	282.99	4	24.27	4	4	4	4	4	4
1/4	1,583.27	1/4	1,321.88	1/4	1,060.38	1/4	800.31	1/4	539.02	1/4	277.54	1/4	19.73	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,577.82	1/2	1,316.43	1/2	1,054.93	1/2	794.91	1/2	533.58	1/2	272.09	1/2	15.20	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,572.38	3/4	1,310.99	3/4	1,049.48	3/4	789.46	3/4	528.13	3/4	266.64	3/4	12.48	3/4	3/4	3/4	3/4	3/4	3/4
5	1,566.93	5	1,305.54	5	1,044.03	5	784.02	5	522.68	5	261.20	5	9.76	5	5	5	5	5	5
1/4	1,561.49	1/4	1,300.09	1/4	1,038.59	1/4	778.58	1/4	517.23	1/4	255.75	1/4	7.03	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,556.04	1/2	1,294.64	1/2	1,033.14	1/2	773.14	1/2	511.79	1/2	250.30	1/2	4.31	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,550.60	3/4	1,289.19	3/4	1,027.69	3/4	767.69	3/4	506.34	3/4	244.85	3/4	3.40	3/4	3/4	3/4	3/4	3/4	3/4
6	1,545.16	6	1,283.75	6	1,022.24	6	762.25	6	500.89	6	239.41	6	2.49	6	6	6	6	6	6
1/4	1,539.71	1/4	1,278.30	1/4	1,016.79	1/4	756.81	1/4	495.44	1/4	233.96	1/4	1.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,534.27	1/2	1,272.85	1/2	1,011.35	1/2	751.37	1/2	490.00	1/2	228.51	1/2	0.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,528.82	3/4	1,267.40	3/4	1,005.93	3/4	745.92	3/4	484.55	3/4	223.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,523.38	7	1,261.95	7	1,000.52	7	740.48	7	479.10	7	217.62	7		7	7	7	7	7	7
1/4	1,517.93	1/4	1,256.51	1/4	995.11	1/4	735.04	1/4	473.65	1/4	212.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,512.49	1/2	1,251.06	1/2	989.70	1/2	729.60	1/2	468.21	1/2	206.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,507.04	3/4	1,245.61	3/4	984.29	3/4	724.15	3/4	462.76	3/4	201.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,501.60	8	1,240.16	8	978.88	8	718.71	8	457.31	8	195.83	8		8	8	8	8	8	8
1/4	1,496.16	1/4	1,234.71	1/4	973.46	1/4	713.27	1/4	451.86	1/4	190.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,490.71	1/2	1,229.27	1/2	968.05	1/2	707.82	1/2	446.41	1/2	184.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,485.27	3/4	1,223.82	3/4	962.64	3/4	702.38	3/4	440.97	3/4	179.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,479.82	9	1,218.37	9	957.23	9	696.94	9	435.52	9	174.03	9		9	9	9	9	9	9
1/4	1,474.38	1/4	1,212.92	1/4	951.82	1/4	691.50	1/4	430.07	1/4	168.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,468.93	1/2	1,207.47	1/2	946.41	1/2	686.05	1/2	424.62	1/2	163.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,463.49	3/4	1,202.03	3/4	941.00	3/4	680.61	3/4	419.18	3/4	157.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,458.05	10	1,196.58	10	935.58	10	675.17	10	413.73	10	152.25	10		10	10	10	10	10	10
1/4	1,452.60	1/4	1,191.13	1/4	930.17	1/4	669.73	1/4	408.28	1/4	146.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,447.16	1/2	1,185.68	1/2	924.76	1/2	664.28	1/2	402.83	1/2	141.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,441.71	3/4	1,180.23	3/4	919.35	3/4	658.84	3/4	397.39	3/4	135.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,436.27	11	1,174.79	11	913.94	11	653.40	11	391.94	11	130.47	11		11	11	11	11	11	11
1/4	1,430.82	1/4	1,169.34	1/4	908.53	1/4	647.96	1/4	386.49	1/4	125.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,425.38	1/2	1,163.89	1/2	903.12	1/2	642.52	1/2	381.04	1/2	119.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,419.93	3/4	1,158.44	3/4	897.70	3/4	637.07	3/4	375.60	3/4	114.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/04/2010 CL - SW
CALCULATED: 03/04/2010 CL
PRINTED: 03/04/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2010

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