



BARGE "KIRBY 28071"

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	02-1/8	- 02-1/8	02-5/8	- 02-5/8	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	01-0/8	- 01-0/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/8	- 03-1/8
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	02-3/4	- 02-3/4	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	02-5/8	- 02-5/8	03-1/4	- 03-1/4
3 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/8	- 03-1/8

(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 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: 242'-03"

February 2, 2005

PRECISION MEASUREMENT
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BARGE "KIRBY 28071"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 3/4"

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	4,511.83	0	4,179.72	0	3,823.86	0	3,458.00	0	3,092.15	0	2,726.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,830.17	1/4	4,505.15	1/4	4,172.51	1/4	3,816.24	1/4	3,450.38	1/4	3,084.52	1/4	2,718.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,824.54	1/2	4,498.47	1/2	4,165.30	1/2	3,808.61	1/2	3,442.76	1/2	3,076.90	1/2	2,711.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,818.91	3/4	4,491.79	3/4	4,158.10	3/4	3,800.99	3/4	3,435.14	3/4	3,069.28	3/4	2,703.42
1	1	1	1	1	1	1	4,812.08	1	4,485.07	1	4,150.85	1	3,793.37	1	3,427.51	1	3,061.66	1	2,695.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.26	1/4	4,478.36	1/4	4,143.61	1/4	3,785.75	1/4	3,419.89	1/4	3,054.04	1/4	2,688.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,798.44	1/2	4,471.65	1/2	4,136.37	1/2	3,778.13	1/2	3,412.27	1/2	3,046.41	1/2	2,680.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,791.62	3/4	4,464.93	3/4	4,129.12	3/4	3,770.50	3/4	3,404.65	3/4	3,038.79	3/4	2,672.94
2	2	2	2	2	2	2	4,784.16	2	4,458.18	2	4,121.84	2	3,762.88	2	3,397.03	2	3,031.17	2	2,665.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,776.70	1/4	4,451.44	1/4	4,114.56	1/4	3,755.26	1/4	3,389.40	1/4	3,023.55	1/4	2,657.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,769.24	1/2	4,444.69	1/2	4,107.28	1/2	3,747.64	1/2	3,381.78	1/2	3,015.93	1/2	2,650.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,761.78	3/4	4,437.94	3/4	4,100.00	3/4	3,740.02	3/4	3,374.16	3/4	3,008.30	3/4	2,642.45
3	3	3	3	3	3	3	4,754.25	3	4,431.15	3	4,092.68	3	3,732.39	3	3,366.54	3	3,000.68	3	2,634.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,746.71	1/4	4,424.37	1/4	4,085.37	1/4	3,724.77	1/4	3,358.92	1/4	2,993.06	1/4	2,627.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,739.17	1/2	4,417.58	1/2	4,078.05	1/2	3,717.15	1/2	3,351.29	1/2	2,985.44	1/2	2,619.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,731.63	3/4	4,410.80	3/4	4,070.74	3/4	3,709.53	3/4	3,343.67	3/4	2,977.82	3/4	2,611.96
4	4	4	4	4	4	4	4,724.38	4	4,403.97	4	4,063.39	4	3,701.91	4	3,336.05	4	2,970.19	4	2,604.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.12	1/4	4,397.15	1/4	4,056.04	1/4	3,694.28	1/4	3,328.43	1/4	2,962.57	1/4	2,596.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.86	1/2	4,390.33	1/2	4,048.69	1/2	3,686.66	1/2	3,320.81	1/2	2,954.95	1/2	2,589.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,702.60	3/4	4,383.50	3/4	4,041.34	3/4	3,679.04	3/4	3,313.18	3/4	2,947.33	3/4	2,581.47
5	5	5	5	5	5	5	4,695.89	5	4,376.64	5	4,033.96	5	3,671.42	5	3,305.56	5	2,939.71	5	2,573.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,689.18	1/4	4,369.78	1/4	4,026.57	1/4	3,663.80	1/4	3,297.94	1/4	2,932.08	1/4	2,566.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,682.47	1/2	4,362.92	1/2	4,019.19	1/2	3,656.17	1/2	3,290.32	1/2	2,924.46	1/2	2,558.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,675.76	3/4	4,356.06	3/4	4,011.80	3/4	3,648.55	3/4	3,282.70	3/4	2,916.84	3/4	2,550.98
6	6	6	6	6	6	6	4,669.30	6	4,349.17	6	4,004.38	6	3,640.93	6	3,275.07	6	2,909.22	6	2,543.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,662.84	1/4	4,342.27	1/4	3,996.96	1/4	3,633.31	1/4	3,267.45	1/4	2,901.60	1/4	2,535.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,656.38	1/2	4,335.37	1/2	3,989.54	1/2	3,625.69	1/2	3,259.83	1/2	2,893.97	1/2	2,528.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,649.93	3/4	4,328.47	3/4	3,982.12	3/4	3,618.06	3/4	3,252.21	3/4	2,886.35	3/4	2,520.50
7	7	7	7	7	7	7	4,643.43	7	4,321.52	7	3,974.66	7	3,610.44	7	3,244.59	7	2,878.73	7	2,512.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,636.93	1/4	4,314.56	1/4	3,967.20	1/4	3,602.82	1/4	3,236.96	1/4	2,871.11	1/4	2,505.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.44	1/2	4,307.60	1/2	3,959.74	1/2	3,595.20	1/2	3,229.34	1/2	2,863.49	1/2	2,497.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,623.94	3/4	4,300.65	3/4	3,952.29	3/4	3,587.58	3/4	3,221.72	3/4	2,855.86	3/4	2,490.01
8	8	8	8	8	8	8	4,617.41	8	4,293.61	8	3,944.79	8	3,579.95	8	3,214.10	8	2,848.24	8	2,482.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,610.87	1/4	4,286.58	1/4	3,937.29	1/4	3,572.33	1/4	3,206.48	1/4	2,840.62	1/4	2,474.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,604.34	1/2	4,279.54	1/2	3,929.80	1/2	3,564.71	1/2	3,198.85	1/2	2,833.00	1/2	2,467.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,597.81	3/4	4,272.50	3/4	3,922.30	3/4	3,557.09	3/4	3,191.23	3/4	2,825.38	3/4	2,459.52
9	9	9	9	9	9	9	4,591.24	9	4,265.41	9	3,914.77	9	3,549.47	9	3,183.61	9	2,817.75	9	2,451.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,584.67	1/4	4,258.32	1/4	3,907.24	1/4	3,541.84	1/4	3,175.99	1/4	2,810.13	1/4	2,444.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,578.09	1/2	4,251.22	1/2	3,899.70	1/2	3,534.22	1/2	3,168.37	1/2	2,802.51	1/2	2,436.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,571.52	3/4	4,244.13	3/4	3,892.17	3/4	3,526.60	3/4	3,160.74	3/4	2,794.89	3/4	2,429.03
10	10	10	10	10	10	10	4,564.92	10	4,237.00	10	3,884.60	10	3,518.98	10	3,153.12	10	2,787.27	10	2,421.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,558.31	1/4	4,229.86	1/4	3,877.03	1/4	3,511.36	1/4	3,145.50	1/4	2,779.64	1/4	2,413.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,551.70	1/2	4,222.73	1/2	3,869.46	1/2	3,503.73	1/2	3,137.88	1/2	2,772.02	1/2	2,406.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,545.09	3/4	4,215.60	3/4	3,861.89	3/4	3,496.11	3/4	3,130.26	3/4	2,764.40	3/4	2,398.54
11	11	11	11	11	11	11	4,538.45	11	4,208.43	11	3,854.28	11	3,488.49	11	3,122.63	11	2,756.78	11	2,390.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,531.80	1/4	4,201.26	1/4	3,846.68	1/4	3,480.87	1/4	3,115.01	1/4	2,749.16	1/4	2,383.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,525.15	1/2	4,194.09	1/2	3,839.08	1/2	3,473.25	1/2	3,107.39	1/2	2,741.53	1/2	2,375.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,518.51	3/4	4,186.92	3/4	3,831.48	3/4	3,465.62	3/4	3,099.77	3/4	2,733.91	3/4	2,368.06

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'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "KIRBY 28071"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 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	2,360.43	0	1,994.58	0	1,628.71	0	1,263.49	0	899.73	0	534.23	0	187.99	0		0			
1/4	2,352.81	1/4	1,986.96	1/4	1,621.09	1/4	1,255.87	1/4	892.16	1/4	526.61	1/4	181.29	1/4		1/4			
1/2	2,345.19	1/2	1,979.34	1/2	1,613.47	1/2	1,248.25	1/2	884.60	1/2	518.98	1/2	174.60	1/2		1/2			
3/4	2,337.57	3/4	1,971.71	3/4	1,605.84	3/4	1,240.62	3/4	877.03	3/4	511.36	3/4	167.91	3/4		3/4			
1	2,329.95	1	1,964.09	1	1,598.22	1	1,233.00	1	869.45	1	503.76	1	161.31	1		1			
1/4	2,322.32	1/4	1,956.47	1/4	1,590.60	1/4	1,225.38	1/4	861.87	1/4	496.16	1/4	154.71	1/4		1/4			
1/2	2,314.70	1/2	1,948.85	1/2	1,582.98	1/2	1,217.75	1/2	854.29	1/2	488.56	1/2	148.10	1/2		1/2			
3/4	2,307.08	3/4	1,941.22	3/4	1,575.35	3/4	1,210.13	3/4	846.70	3/4	480.95	3/4	141.50	3/4		3/4			
2	2,299.46	2	1,933.60	2	1,567.73	2	1,202.52	2	839.10	2	473.42	2	134.99	2		2			
1/4	2,291.84	1/4	1,925.98	1/4	1,560.11	1/4	1,194.91	1/4	831.49	1/4	465.88	1/4	128.48	1/4		1/4			
1/2	2,284.21	1/2	1,918.36	1/2	1,552.49	1/2	1,187.31	1/2	823.88	1/2	458.34	1/2	121.97	1/2		1/2			
3/4	2,276.59	3/4	1,910.73	3/4	1,544.86	3/4	1,179.70	3/4	816.27	3/4	450.80	3/4	115.45	3/4		3/4			
3	2,268.97	3	1,903.11	3	1,537.24	3	1,172.12	3	808.65	3	443.35	3	109.04	3		3			
1/4	2,261.35	1/4	1,895.49	1/4	1,529.62	1/4	1,164.54	1/4	801.03	1/4	435.89	1/4	102.62	1/4		1/4			
1/2	2,253.73	1/2	1,887.87	1/2	1,522.00	1/2	1,156.95	1/2	793.40	1/2	428.44	1/2	96.21	1/2		1/2			
3/4	2,246.10	3/4	1,880.25	3/4	1,514.38	3/4	1,149.37	3/4	785.78	3/4	420.99	3/4	89.79	3/4		3/4			
4	2,238.48	4	1,872.62	4	1,506.75	4	1,141.81	4	778.16	4	413.62	4	83.48	4		4			
1/4	2,230.86	1/4	1,865.00	1/4	1,499.13	1/4	1,134.24	1/4	770.54	1/4	406.25	1/4	77.17	1/4		1/4			
1/2	2,223.24	1/2	1,857.38	1/2	1,491.51	1/2	1,126.67	1/2	762.91	1/2	398.88	1/2	70.86	1/2		1/2			
3/4	2,215.62	3/4	1,849.76	3/4	1,483.89	3/4	1,119.11	3/4	755.29	3/4	391.51	3/4	64.55	3/4		3/4			
5	2,207.99	5	1,842.13	5	1,476.28	5	1,111.54	5	747.67	5	384.23	5	58.36	5		5			
1/4	2,200.37	1/4	1,834.51	1/4	1,468.67	1/4	1,103.98	1/4	740.05	1/4	376.94	1/4	52.17	1/4		1/4			
1/2	2,192.75	1/2	1,826.89	1/2	1,461.06	1/2	1,096.41	1/2	732.42	1/2	369.66	1/2	45.98	1/2		1/2			
3/4	2,185.13	3/4	1,819.27	3/4	1,453.45	3/4	1,088.85	3/4	724.80	3/4	362.38	3/4	39.79	3/4		3/4			
6	2,177.51	6	1,811.65	6	1,445.86	6	1,081.28	6	717.18	6	355.18	6	34.29	6		6			
1/4	2,169.88	1/4	1,804.02	1/4	1,438.26	1/4	1,073.72	1/4	709.56	1/4	347.98	1/4	28.79	1/4		1/4			
1/2	2,162.26	1/2	1,796.40	1/2	1,430.67	1/2	1,066.15	1/2	701.93	1/2	340.78	1/2	23.30	1/2		1/2			
3/4	2,154.64	3/4	1,788.78	3/4	1,423.07	3/4	1,058.59	3/4	694.31	3/4	333.58	3/4	17.80	3/4		3/4			
7	2,147.02	7	1,781.16	7	1,415.48	7	1,051.02	7	686.69	7	326.46	7	14.25	7		7			
1/4	2,139.40	1/4	1,773.53	1/4	1,407.88	1/4	1,043.46	1/4	679.07	1/4	319.35	1/4	10.69	1/4		1/4			
1/2	2,131.77	1/2	1,765.91	1/2	1,400.29	1/2	1,035.89	1/2	671.44	1/2	312.23	1/2	7.14	1/2		1/2			
3/4	2,124.15	3/4	1,758.29	3/4	1,392.69	3/4	1,028.33	3/4	663.82	3/4	305.12	3/4	3.58	3/4		3/4			
8	2,116.53	8	1,750.67	8	1,385.10	8	1,020.77	8	656.20	8	298.09	8		8		8			
1/4	2,108.91	1/4	1,743.04	1/4	1,377.50	1/4	1,013.20	1/4	648.57	1/4	291.06	1/4		1/4		1/4			
1/2	2,101.29	1/2	1,735.42	1/2	1,369.91	1/2	1,005.64	1/2	640.95	1/2	284.03	1/2		1/2		1/2			
3/4	2,093.66	3/4	1,727.80	3/4	1,362.31	3/4	998.07	3/4	633.33	3/4	277.00	3/4		3/4		3/4			
9	2,086.04	9	1,720.18	9	1,354.72	9	990.51	9	625.71	9	270.06	9		9		9			
1/4	2,078.42	1/4	1,712.56	1/4	1,347.12	1/4	982.94	1/4	618.08	1/4	263.11	1/4		1/4		1/4			
1/2	2,070.80	1/2	1,704.93	1/2	1,339.53	1/2	975.38	1/2	610.46	1/2	256.16	1/2		1/2		1/2			
3/4	2,063.18	3/4	1,697.31	3/4	1,331.93	3/4	967.81	3/4	602.84	3/4	249.22	3/4		3/4		3/4			
10	2,055.55	10	1,689.69	10	1,324.34	10	960.25	10	595.21	10	242.36	10		10		10			
1/4	2,047.93	1/4	1,682.07	1/4	1,316.74	1/4	952.68	1/4	587.59	1/4	235.50	1/4		1/4		1/4			
1/2	2,040.31	1/2	1,674.44	1/2	1,309.15	1/2	945.12	1/2	579.97	1/2	228.64	1/2		1/2		1/2			
3/4	2,032.69	3/4	1,666.82	3/4	1,301.55	3/4	937.55	3/4	572.35	3/4	221.78	3/4		3/4		3/4			
11	2,025.07	11	1,659.20	11	1,293.94	11	929.99	11	564.72	11	215.00	11		11		11			
1/4	2,017.44	1/4	1,651.58	1/4	1,286.33	1/4	922.42	1/4	557.10	1/4	208.23	1/4		1/4		1/4			
1/2	2,009.82	1/2	1,643.95	1/2	1,278.72	1/2	914.86	1/2	549.48	1/2	201.45	1/2		1/2		1/2			
3/4	2,002.20	3/4	1,636.33	3/4	1,271.11	3/4	907.29	3/4	541.85	3/4	194.68	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/01/2005 CL - SW
CALCULATED: 02/02/2005 CL
PRINTED: 02/02/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 28071"

1 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 7/8"

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	4,516.02	0	4,184.21	0	3,828.60	0	3,462.79	0	3,096.98	0	2,731.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,509.34	1/4	4,177.01	1/4	3,820.98	1/4	3,455.17	1/4	3,089.36	1/4	2,723.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,502.66	1/2	4,169.80	1/2	3,813.36	1/2	3,447.55	1/2	3,081.74	1/2	2,715.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,495.98	3/4	4,162.60	3/4	3,805.74	3/4	3,439.93	3/4	3,074.11	3/4	2,708.30
1	1	1	1	1	1	1	1	1	4,489.28	1	4,155.37	1	3,798.12	1	3,432.31	1	3,066.49	1	2,700.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,809.48	1/4	4,482.57	1/4	4,148.13	1/4	3,790.50	1/4	3,424.68	1/4	3,058.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,802.66	1/2	4,475.86	1/2	4,140.89	1/2	3,782.88	1/2	3,417.06	1/2	3,051.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,795.84	3/4	4,469.14	3/4	4,133.64	3/4	3,775.26	3/4	3,409.44	3/4	3,043.63
2	2	2	2	2	2	2	2	2	4,788.70	2	4,462.41	2	4,126.38	2	3,767.63	2	3,401.82	2	3,036.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,781.24	1/4	4,455.67	1/4	4,119.10	1/4	3,760.01	1/4	3,394.20	1/4	3,028.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,773.78	1/2	4,448.92	1/2	4,111.82	1/2	3,752.39	1/2	3,386.58	1/2	3,020.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,766.33	3/4	4,442.17	3/4	4,104.54	3/4	3,744.77	3/4	3,378.96	3/4	3,013.15
3	3	3	3	3	3	3	3	3	4,758.83	3	4,435.41	3	4,097.24	3	3,737.15	3	3,371.34	3	3,005.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,751.29	1/4	4,428.62	1/4	4,089.93	1/4	3,729.53	1/4	3,363.72	1/4	2,997.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,743.76	1/2	4,421.84	1/2	4,082.61	1/2	3,721.91	1/2	3,356.09	1/2	2,990.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,736.22	3/4	4,415.05	3/4	4,075.30	3/4	3,714.29	3/4	3,348.47	3/4	2,982.66
4	4	4	4	4	4	4	4	4	4,728.82	4	4,408.25	4	4,067.97	4	3,706.67	4	3,340.85	4	2,975.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,721.57	1/4	4,401.43	1/4	4,060.62	1/4	3,699.04	1/4	3,333.23	1/4	2,967.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,714.31	1/2	4,394.60	1/2	4,053.27	1/2	3,691.42	1/2	3,325.61	1/2	2,959.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,707.05	3/4	4,387.78	3/4	4,045.92	3/4	3,683.80	3/4	3,317.99	3/4	2,952.18
5	5	5	5	5	5	5	5	5	4,700.07	5	4,380.94	5	4,038.56	5	3,676.18	5	3,310.37	5	2,944.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,693.36	1/4	4,374.08	1/4	4,031.17	1/4	3,668.56	1/4	3,302.75	1/4	2,936.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,686.65	1/2	4,367.22	1/2	4,023.79	1/2	3,660.94	1/2	3,295.13	1/2	2,929.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,679.94	3/4	4,360.36	3/4	4,016.41	3/4	3,653.32	3/4	3,287.50	3/4	2,921.69
6	6	6	6	6	6	6	6	6	4,673.36	6	4,353.48	6	4,009.01	6	3,645.70	6	3,279.88	6	2,914.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,666.90	1/4	4,346.59	1/4	4,001.59	1/4	3,638.08	1/4	3,272.26	1/4	2,906.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,660.44	1/2	4,339.69	1/2	3,994.17	1/2	3,630.45	1/2	3,264.64	1/2	2,898.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,653.98	3/4	4,332.79	3/4	3,986.75	3/4	3,622.83	3/4	3,257.02	3/4	2,891.21
7	7	7	7	7	7	7	7	7	4,647.51	7	4,325.87	7	3,979.31	7	3,615.21	7	3,249.40	7	2,883.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,641.01	1/4	4,318.91	1/4	3,971.85	1/4	3,607.59	1/4	3,241.78	1/4	2,875.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,634.52	1/2	4,311.96	1/2	3,964.39	1/2	3,599.97	1/2	3,234.16	1/2	2,868.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,628.02	3/4	4,305.00	3/4	3,956.93	3/4	3,592.35	3/4	3,226.54	3/4	2,860.72
8	8	8	8	8	8	8	8	8	4,621.51	8	4,298.01	8	3,949.46	8	3,584.73	8	3,218.91	8	2,853.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,614.98	1/4	4,290.97	1/4	3,941.96	1/4	3,577.11	1/4	3,211.29	1/4	2,845.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,608.44	1/2	4,283.94	1/2	3,934.47	1/2	3,569.49	1/2	3,203.67	1/2	2,837.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,601.91	3/4	4,276.90	3/4	3,926.97	3/4	3,561.86	3/4	3,196.05	3/4	2,830.24
9	9	9	9	9	9	9	9	9	4,595.36	9	4,269.84	9	3,919.46	9	3,554.24	9	3,188.43	9	2,822.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588.79	1/4	4,262.74	1/4	3,911.93	1/4	3,546.62	1/4	3,180.81	1/4	2,815.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,582.22	1/2	4,255.65	1/2	3,904.39	1/2	3,539.00	1/2	3,173.19	1/2	2,807.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,575.65	3/4	4,248.56	3/4	3,896.86	3/4	3,531.38	3/4	3,165.57	3/4	2,799.75
10	10	10	10	10	10	10	10	10	4,569.06	10	4,241.44	10	3,889.31	10	3,523.76	10	3,157.95	10	2,792.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,562.45	1/4	4,234.31	1/4	3,881.74	1/4	3,516.14	1/4	3,150.32	1/4	2,784.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,555.85	1/2	4,227.18	1/2	3,874.17	1/2	3,508.52	1/2	3,142.70	1/2	2,776.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,549.24	3/4	4,220.05	3/4	3,866.60	3/4	3,500.90	3/4	3,135.08	3/4	2,769.27
11	11	11	11	11	11	11	11	11	4,542.61	11	4,212.90	11	3,859.02	11	3,493.27	11	3,127.46	11	2,761.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,535.97	1/4	4,205.73	1/4	3,851.41	1/4	3,485.65	1/4	3,119.84	1/4	2,754.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,529.32	1/2	4,198.57	1/2	3,843.81	1/2	3,478.03	1/2	3,112.22	1/2	2,746.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,522.68	3/4	4,191.40	3/4	3,836.21	3/4	3,470.41	3/4	3,104.60	3/4	2,738.79

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'-11" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28071"

1 STBD
ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 7/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,365.35	0	1,999.54	0	1,633.71	0	1,268.54	0	903.67	0	537.97	0	191.30	0		0			
1/4	2,357.73	1/4	1,991.92	1/4	1,626.09	1/4	1,260.92	1/4	896.08	1/4	530.35	1/4	184.61	1/4		1/4			
1/2	2,350.11	1/2	1,984.30	1/2	1,618.47	1/2	1,253.29	1/2	888.48	1/2	522.73	1/2	177.92	1/2		1/2			
3/4	2,342.49	3/4	1,976.68	3/4	1,610.85	3/4	1,245.67	3/4	880.89	3/4	515.10	3/4	171.23	3/4		3/4			
1	2,334.87	1	1,969.06	1	1,603.23	1	1,238.05	1	873.29	1	507.49	1	164.59	1		1			
1/4	2,327.25	1/4	1,961.43	1/4	1,595.61	1/4	1,230.43	1/4	865.68	1/4	499.89	1/4	157.98	1/4		1/4			
1/2	2,319.63	1/2	1,953.81	1/2	1,587.99	1/2	1,222.81	1/2	858.07	1/2	492.29	1/2	151.38	1/2		1/2			
3/4	2,312.00	3/4	1,946.19	3/4	1,580.36	3/4	1,215.18	3/4	850.46	3/4	484.69	3/4	144.78	3/4		3/4			
2	2,304.38	2	1,938.57	2	1,572.74	2	1,207.56	2	842.84	2	477.12	2	138.22	2		2			
1/4	2,296.76	1/4	1,930.95	1/4	1,565.12	1/4	1,199.94	1/4	835.22	1/4	469.58	1/4	131.71	1/4		1/4			
1/2	2,289.14	1/2	1,923.33	1/2	1,557.50	1/2	1,192.32	1/2	827.60	1/2	462.05	1/2	125.20	1/2		1/2			
3/4	2,281.52	3/4	1,915.71	3/4	1,549.88	3/4	1,184.70	3/4	819.98	3/4	454.51	3/4	118.69	3/4		3/4			
3	2,273.90	3	1,908.08	3	1,542.26	3	1,177.08	3	812.36	3	447.01	3	112.23	3		3			
1/4	2,266.28	1/4	1,900.46	1/4	1,534.64	1/4	1,169.47	1/4	804.74	1/4	439.56	1/4	105.81	1/4		1/4			
1/2	2,258.66	1/2	1,892.84	1/2	1,527.01	1/2	1,161.86	1/2	797.11	1/2	432.11	1/2	99.40	1/2		1/2			
3/4	2,251.04	3/4	1,885.22	3/4	1,519.39	3/4	1,154.25	3/4	789.49	3/4	424.66	3/4	92.99	3/4		3/4			
4	2,243.41	4	1,877.60	4	1,511.77	4	1,146.65	4	781.87	4	417.25	4	86.63	4		4			
1/4	2,235.79	1/4	1,869.98	1/4	1,504.15	1/4	1,139.06	1/4	774.25	1/4	409.88	1/4	80.32	1/4		1/4			
1/2	2,228.17	1/2	1,862.36	1/2	1,496.53	1/2	1,131.46	1/2	766.63	1/2	402.51	1/2	74.01	1/2		1/2			
3/4	2,220.55	3/4	1,854.73	3/4	1,488.91	3/4	1,123.87	3/4	759.00	3/4	395.14	3/4	67.70	3/4		3/4			
5	2,212.93	5	1,847.11	5	1,481.29	5	1,116.27	5	751.38	5	387.82	5	61.45	5		5			
1/4	2,205.31	1/4	1,839.49	1/4	1,473.68	1/4	1,108.68	1/4	743.76	1/4	380.53	1/4	55.26	1/4		1/4			
1/2	2,197.69	1/2	1,831.87	1/2	1,466.08	1/2	1,101.09	1/2	736.14	1/2	373.25	1/2	49.07	1/2		1/2			
3/4	2,190.07	3/4	1,824.25	3/4	1,458.47	3/4	1,093.49	3/4	728.52	3/4	365.97	3/4	42.88	3/4		3/4			
6	2,182.45	6	1,816.63	6	1,450.87	6	1,085.90	6	720.90	6	358.73	6	37.03	6		6			
1/4	2,174.82	1/4	1,809.01	1/4	1,443.27	1/4	1,078.31	1/4	713.27	1/4	351.53	1/4	31.54	1/4		1/4			
1/2	2,167.20	1/2	1,801.38	1/2	1,435.68	1/2	1,070.72	1/2	705.65	1/2	344.33	1/2	26.04	1/2		1/2			
3/4	2,159.58	3/4	1,793.76	3/4	1,428.09	3/4	1,063.12	3/4	698.03	3/4	337.13	3/4	20.54	3/4		3/4			
7	2,151.96	7	1,786.14	7	1,420.49	7	1,055.53	7	690.41	7	329.97	7	16.02	7		7			
1/4	2,144.34	1/4	1,778.52	1/4	1,412.90	1/4	1,047.94	1/4	682.79	1/4	322.86	1/4	12.47	1/4		1/4			
1/2	2,136.72	1/2	1,770.90	1/2	1,405.31	1/2	1,040.34	1/2	675.17	1/2	315.75	1/2	8.91	1/2		1/2			
3/4	2,129.10	3/4	1,763.28	3/4	1,397.71	3/4	1,032.75	3/4	667.54	3/4	308.63	3/4	5.36	3/4		3/4			
8	2,121.48	8	1,755.66	8	1,390.12	8	1,025.16	8	659.92	8	301.56	7/8	3.58	8		8			
1/4	2,113.86	1/4	1,748.03	1/4	1,382.52	1/4	1,017.57	1/4	652.30	1/4	294.53	1/4		1/4		1/4			
1/2	2,106.23	1/2	1,740.41	1/2	1,374.93	1/2	1,009.97	1/2	644.68	1/2	287.50	1/2		1/2		1/2			
3/4	2,098.61	3/4	1,732.79	3/4	1,367.34	3/4	1,002.38	3/4	637.06	3/4	280.48	3/4		3/4		3/4			
9	2,090.99	9	1,725.17	9	1,359.74	9	994.79	9	629.44	9	273.49	9		9		9			
1/4	2,083.37	1/4	1,717.55	1/4	1,352.15	1/4	987.19	1/4	621.81	1/4	266.54	1/4		1/4		1/4			
1/2	2,075.75	1/2	1,709.93	1/2	1,344.55	1/2	979.60	1/2	614.19	1/2	259.60	1/2		1/2		1/2			
3/4	2,068.13	3/4	1,702.31	3/4	1,336.96	3/4	972.01	3/4	606.57	3/4	252.66	3/4		3/4		3/4			
10	2,060.51	10	1,694.68	10	1,329.36	10	964.42	10	598.95	10	245.75	10		10		10			
1/4	2,052.89	1/4	1,687.06	1/4	1,321.77	1/4	956.82	1/4	591.33	1/4	238.89	1/4		1/4		1/4			
1/2	2,045.27	1/2	1,679.44	1/2	1,314.17	1/2	949.23	1/2	583.70	1/2	232.04	1/2		1/2		1/2			
3/4	2,037.64	3/4	1,671.82	3/4	1,306.58	3/4	941.64	3/4	576.08	3/4	225.18	3/4		3/4		3/4			
11	2,030.02	11	1,664.20	11	1,298.98	11	934.05	11	568.46	11	218.36	11		11		11			
1/4	2,022.40	1/4	1,656.58	1/4	1,291.37	1/4	926.45	1/4	560.84	1/4	211.58	1/4		1/4		1/4			
1/2	2,014.78	1/2	1,648.96	1/2	1,283.76	1/2	918.86	1/2	553.21	1/2	204.81	1/2		1/2		1/2			
3/4	2,007.16	3/4	1,641.33	3/4	1,276.15	3/4	911.27	3/4	545.59	3/4	198.03	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/01/2005 CL - SW
CALCULATED: 02/02/2005 CL
PRINTED: 02/02/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "KIRBY 28071"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 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		0	4,521.81	0	4,191.62	0	3,837.97	0	3,474.81	0	3,111.64	0	2,748.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,838.84	1/4	4,515.18	1/4	4,184.47	1/4	3,830.41	1/4	3,467.25	1/4	3,104.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,833.25	1/2	4,508.54	1/2	4,177.32	1/2	3,822.85	1/2	3,459.68	1/2	3,096.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,826.47	3/4	4,501.88	3/4	4,170.12	3/4	3,815.28	3/4	3,452.11	3/4	3,088.95
1	1	1	1	1	1	1	1	1	4,819.70	1	4,495.22	1	4,162.93	1	3,807.72	1	3,444.55	1	3,081.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,812.93	1/4	4,488.55	1/4	4,155.74	1/4	3,800.15	1/4	3,436.98	1/4	3,073.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,806.16	1/2	4,481.89	1/2	4,148.55	1/2	3,792.58	1/2	3,429.42	1/2	3,066.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,798.75	3/4	4,475.19	3/4	4,141.33	3/4	3,785.02	3/4	3,421.85	3/4	3,058.68
2	2	2	2	2	2	2	2	2	4,791.35	2	4,468.49	2	4,134.10	2	3,777.45	2	3,414.28	2	3,051.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,783.95	1/4	4,461.79	1/4	4,126.87	1/4	3,769.89	1/4	3,406.72	1/4	3,043.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,776.54	1/2	4,455.10	1/2	4,119.64	1/2	3,762.32	1/2	3,399.15	1/2	3,035.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,769.06	3/4	4,448.36	3/4	4,112.38	3/4	3,754.75	3/4	3,391.59	3/4	3,028.42
3	3	3	3	3	3	3	3	3	4,761.58	3	4,441.62	3	4,105.12	3	3,747.19	3	3,384.02	3	3,020.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,754.10	1/4	4,434.89	1/4	4,097.86	1/4	3,739.62	1/4	3,376.45	1/4	3,013.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,746.62	1/2	4,428.15	1/2	4,090.59	1/2	3,732.06	1/2	3,368.89	1/2	3,005.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,739.41	3/4	4,421.38	3/4	4,083.30	3/4	3,724.49	3/4	3,361.32	3/4	2,998.15
4	4	4	4	4	4	4	4	4	4,732.21	4	4,414.61	4	4,076.00	4	3,716.92	4	3,353.76	4	2,990.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,725.00	1/4	4,407.84	1/4	4,068.71	1/4	3,709.36	1/4	3,346.19	1/4	2,983.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,717.80	1/2	4,401.06	1/2	4,061.41	1/2	3,701.79	1/2	3,338.62	1/2	2,975.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,711.14	3/4	4,394.25	3/4	4,054.08	3/4	3,694.23	3/4	3,331.06	3/4	2,967.89
5	5	5	5	5	5	5	5	5	4,704.48	5	4,387.44	5	4,046.75	5	3,686.66	5	3,323.49	5	2,960.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,697.82	1/4	4,380.63	1/4	4,039.43	1/4	3,679.09	1/4	3,315.93	1/4	2,952.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,691.16	1/2	4,373.82	1/2	4,032.10	1/2	3,671.53	1/2	3,308.36	1/2	2,945.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,684.75	3/4	4,366.98	3/4	4,024.73	3/4	3,663.96	3/4	3,300.79	3/4	2,937.63
6	6	6	6	6	6	6	6	6	4,678.34	6	4,360.13	6	4,017.36	6	3,656.40	6	3,293.23	6	2,930.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,671.93	1/4	4,353.28	1/4	4,010.00	1/4	3,648.83	1/4	3,285.66	1/4	2,922.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,665.51	1/2	4,346.44	1/2	4,002.63	1/2	3,641.26	1/2	3,278.10	1/2	2,914.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,659.07	3/4	4,339.53	3/4	3,995.22	3/4	3,633.70	3/4	3,270.53	3/4	2,907.36
7	7	7	7	7	7	7	7	7	4,652.62	7	4,332.63	7	3,987.82	7	3,626.13	7	3,262.96	7	2,899.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,646.17	1/4	4,325.72	1/4	3,980.42	1/4	3,618.57	1/4	3,255.40	1/4	2,892.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,639.72	1/2	4,318.82	1/2	3,973.01	1/2	3,611.00	1/2	3,247.83	1/2	2,884.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,633.24	3/4	4,311.83	3/4	3,965.57	3/4	3,603.43	3/4	3,240.27	3/4	2,877.10
8	8	8	8	8	8	8	8	8	4,626.75	8	4,304.85	8	3,958.13	8	3,595.87	8	3,232.70	8	2,869.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,620.27	1/4	4,297.87	1/4	3,950.69	1/4	3,588.30	1/4	3,225.13	1/4	2,861.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,613.78	1/2	4,290.88	1/2	3,943.25	1/2	3,580.74	1/2	3,217.57	1/2	2,854.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,607.26	3/4	4,283.84	3/4	3,935.77	3/4	3,573.17	3/4	3,210.00	3/4	2,846.83
9	9	9	9	9	9	9	9	9	4,600.74	9	4,276.80	9	3,928.29	9	3,565.60	9	3,202.44	9	2,839.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,594.21	1/4	4,269.75	1/4	3,920.82	1/4	3,558.04	1/4	3,194.87	1/4	2,831.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,587.69	1/2	4,262.71	1/2	3,913.34	1/2	3,550.47	1/2	3,187.30	1/2	2,824.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,581.13	3/4	4,255.63	3/4	3,905.82	3/4	3,542.91	3/4	3,179.74	3/4	2,816.57
10	10	10	10	10	10	10	10	10	4,574.57	10	4,248.55	10	3,898.31	10	3,535.34	10	3,172.17	10	2,809.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,568.01	1/4	4,241.47	1/4	3,890.79	1/4	3,527.77	1/4	3,164.61	1/4	2,801.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,561.46	1/2	4,234.40	1/2	3,883.28	1/2	3,520.21	1/2	3,157.04	1/2	2,793.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,554.86	3/4	4,227.28	3/4	3,875.73	3/4	3,512.64	3/4	3,149.47	3/4	2,786.31
11	11	11	11	11	11	11	11	11	4,548.26	11	4,220.16	11	3,868.19	11	3,505.08	11	3,141.91	11	2,778.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,541.67	1/4	4,213.05	1/4	3,860.64	1/4	3,497.51	1/4	3,134.34	1/4	2,771.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,535.07	1/2	4,205.93	1/2	3,853.09	1/2	3,489.94	1/2	3,126.78	1/2	2,763.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,528.44	3/4	4,198.78	3/4	3,845.53	3/4	3,482.38	3/4	3,119.21	3/4	2,756.04

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'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28071"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,385.31	0	2,022.14	0	1,658.96	0	1,299.66	0	949.52	0	590.04	0	226.82	0		0			
1/4	2,377.74	1/4	2,014.57	1/4	1,651.40	1/4	1,292.09	1/4	942.28	1/4	582.47	1/4	219.25	1/4		1/4			
1/2	2,370.18	1/2	2,007.01	1/2	1,643.83	1/2	1,284.53	1/2	935.04	1/2	574.90	1/2	211.69	1/2		1/2			
3/4	2,362.61	3/4	1,999.44	3/4	1,636.26	3/4	1,276.96	3/4	927.79	3/4	567.34	3/4	204.12	3/4		3/4			
1	2,355.04	1	1,991.88	1	1,628.70	1	1,269.39	1	920.54	1	559.77	1	196.56	1		1			
1/4	2,347.48	1/4	1,984.31	1/4	1,621.13	1/4	1,261.82	1/4	913.28	1/4	552.20	1/4	189.00	1/4		1/4			
1/2	2,339.91	1/2	1,976.74	1/2	1,613.57	1/2	1,254.26	1/2	906.03	1/2	544.64	1/2	181.43	1/2		1/2			
3/4	2,332.35	3/4	1,969.18	3/4	1,606.00	3/4	1,246.84	3/4	898.76	3/4	537.07	3/4	173.87	3/4		3/4			
2	2,324.78	2	1,961.61	2	1,598.43	2	1,239.43	2	891.50	2	529.50	2	166.32	2		2			
1/4	2,317.21	1/4	1,954.04	1/4	1,590.87	1/4	1,232.01	1/4	884.23	1/4	521.93	1/4	158.76	1/4		1/4			
1/2	2,309.65	1/2	1,946.48	1/2	1,583.30	1/2	1,224.59	1/2	876.97	1/2	514.37	1/2	151.20	1/2		1/2			
3/4	2,302.08	3/4	1,938.91	3/4	1,575.73	3/4	1,217.34	3/4	869.55	3/4	506.80	3/4	143.66	3/4		3/4			
3	2,294.52	3	1,931.35	3	1,568.17	3	1,210.09	3	862.14	3	499.23	3	136.11	3		3			
1/4	2,286.95	1/4	1,923.78	1/4	1,560.60	1/4	1,202.83	1/4	854.72	1/4	491.67	1/4	128.57	1/4		1/4			
1/2	2,279.38	1/2	1,916.21	1/2	1,553.04	1/2	1,195.58	1/2	847.30	1/2	484.10	1/2	121.02	1/2		1/2			
3/4	2,271.82	3/4	1,908.65	3/4	1,545.55	3/4	1,188.34	3/4	839.74	3/4	476.53	3/4	113.50	3/4		3/4			
4	2,264.25	4	1,901.08	4	1,538.06	4	1,181.10	4	832.17	4	468.97	4	105.97	4		4			
1/4	2,256.69	1/4	1,893.51	1/4	1,530.58	1/4	1,173.86	1/4	824.60	1/4	461.40	1/4	98.44	1/4		1/4			
1/2	2,249.12	1/2	1,885.95	1/2	1,523.09	1/2	1,166.62	1/2	817.04	1/2	453.83	1/2	90.92	1/2		1/2			
3/4	2,241.55	3/4	1,878.38	3/4	1,515.69	3/4	1,159.39	3/4	809.47	3/4	446.26	3/4	83.43	3/4		3/4			
5	2,233.99	5	1,870.82	5	1,508.28	5	1,152.15	5	801.91	5	438.70	5	75.93	5		5			
1/4	2,226.42	1/4	1,863.25	1/4	1,500.88	1/4	1,144.91	1/4	794.34	1/4	431.13	1/4	68.44	1/4		1/4			
1/2	2,218.86	1/2	1,855.68	1/2	1,493.48	1/2	1,137.68	1/2	786.77	1/2	423.56	1/2	60.95	1/2		1/2			
3/4	2,211.29	3/4	1,848.12	3/4	1,486.07	3/4	1,130.44	3/4	779.21	3/4	416.00	3/4	54.06	3/4		3/4			
6	2,203.72	6	1,840.55	6	1,478.67	6	1,123.20	6	771.64	6	408.43	6	47.18	6		6			
1/4	2,196.16	1/4	1,832.98	1/4	1,471.26	1/4	1,115.97	1/4	764.07	1/4	400.86	1/4	40.29	1/4		1/4			
1/2	2,188.59	1/2	1,825.42	1/2	1,463.86	1/2	1,108.73	1/2	756.51	1/2	393.30	1/2	33.40	1/2		1/2			
3/4	2,181.03	3/4	1,817.85	3/4	1,456.45	3/4	1,101.49	3/4	748.94	3/4	385.73	3/4	28.36	3/4		3/4			
7	2,173.46	7	1,810.29	7	1,449.05	7	1,094.26	7	741.37	7	378.16	7	23.32	7		7			
1/4	2,165.89	1/4	1,802.72	1/4	1,441.65	1/4	1,087.02	1/4	733.81	1/4	370.59	1/4	18.28	1/4		1/4			
1/2	2,158.33	1/2	1,795.15	1/2	1,434.24	1/2	1,079.78	1/2	726.24	1/2	363.03	1/2	13.23	1/2		1/2			
3/4	2,150.76	3/4	1,787.59	3/4	1,426.84	3/4	1,072.55	3/4	718.67	3/4	355.46	3/4		3/4		3/4			
8	2,143.20	8	1,780.02	8	1,419.43	8	1,065.31	8	711.11	8	347.89	8		8		8			
1/4	2,135.63	1/4	1,772.46	1/4	1,412.03	1/4	1,058.07	1/4	703.54	1/4	340.33	1/4		1/4		1/4			
1/2	2,128.06	1/2	1,764.89	1/2	1,404.62	1/2	1,050.84	1/2	695.97	1/2	332.76	1/2		1/2		1/2			
3/4	2,120.50	3/4	1,757.32	3/4	1,397.22	3/4	1,043.60	3/4	688.41	3/4	325.19	3/4		3/4		3/4			
9	2,112.93	9	1,749.76	9	1,389.81	9	1,036.36	9	680.84	9	317.63	9		9		9			
1/4	2,105.37	1/4	1,742.19	1/4	1,382.41	1/4	1,029.13	1/4	673.27	1/4	310.06	1/4		1/4		1/4			
1/2	2,097.80	1/2	1,734.62	1/2	1,375.00	1/2	1,021.89	1/2	665.71	1/2	302.49	1/2		1/2		1/2			
3/4	2,090.23	3/4	1,727.06	3/4	1,367.52	3/4	1,014.65	3/4	658.14	3/4	294.92	3/4		3/4		3/4			
10	2,082.67	10	1,719.49	10	1,360.03	10	1,007.42	10	650.57	10	287.36	10		10		10			
1/4	2,075.10	1/4	1,711.93	1/4	1,352.55	1/4	1,000.18	1/4	643.01	1/4	279.79	1/4		1/4		1/4			
1/2	2,067.54	1/2	1,704.36	1/2	1,345.06	1/2	992.94	1/2	635.44	1/2	272.22	1/2		1/2		1/2			
3/4	2,059.97	3/4	1,696.79	3/4	1,337.49	3/4	985.71	3/4	627.87	3/4	264.66	3/4		3/4		3/4			
11	2,052.40	11	1,689.23	11	1,329.93	11	978.47	11	620.31	11	257.09	11		11		11			
1/4	2,044.84	1/4	1,681.66	1/4	1,322.36	1/4	971.23	1/4	612.74	1/4	249.52	1/4		1/4		1/4			
1/2	2,037.27	1/2	1,674.09	1/2	1,314.79	1/2	964.00	1/2	605.17	1/2	241.96	1/2		1/2		1/2			
3/4	2,029.71	3/4	1,666.53	3/4	1,307.23	3/4	956.76	3/4	597.60	3/4	234.39	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/01/2005 CL - SW
CALCULATED: 02/02/2005 CL
PRINTED: 02/02/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28071"

2 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 5/8"

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	4,540.78	0	4,210.85	0	3,857.40	0	3,494.24	0	3,131.08	0	2,767.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,534.14	1/4	4,203.69	1/4	3,849.84	1/4	3,486.68	1/4	3,123.51	1/4	2,760.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,848.91	1/2	4,527.51	1/2	4,196.54	1/2	3,842.27	1/2	3,479.11	1/2	3,115.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,845.52	3/4	4,520.86	3/4	4,189.37	3/4	3,834.71	3/4	3,471.55	3/4	3,108.38
1	1	1	1	1	1	1	1	1	4,838.75	1	4,514.20	1	4,182.18	1	3,827.15	1	3,463.98	1	3,100.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,831.97	1/4	4,507.54	1/4	4,174.99	1/4	3,819.58	1/4	3,456.41	1/4	3,093.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,825.20	1/2	4,500.87	1/2	4,167.80	1/2	3,812.02	1/2	3,448.85	1/2	3,085.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,818.11	3/4	4,494.19	3/4	4,160.59	3/4	3,804.45	3/4	3,441.28	3/4	3,078.11
2	2	2	2	2	2	2	2	2	4,810.71	2	4,487.49	2	4,153.36	2	3,796.88	2	3,433.72	2	3,070.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,803.31	1/4	4,480.79	1/4	4,146.13	1/4	3,789.32	1/4	3,426.15	1/4	3,062.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,795.90	1/2	4,474.10	1/2	4,138.91	1/2	3,781.75	1/2	3,418.58	1/2	3,055.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,788.46	3/4	4,467.38	3/4	4,131.66	3/4	3,774.19	3/4	3,411.02	3/4	3,047.85
3	3	3	3	3	3	3	3	3	4,780.98	3	4,460.64	3	4,124.40	3	3,766.62	3	3,403.45	3	3,040.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,773.50	1/4	4,453.91	1/4	4,117.14	1/4	3,759.05	1/4	3,395.89	1/4	3,032.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,766.02	1/2	4,447.17	1/2	4,109.87	1/2	3,751.49	1/2	3,388.32	1/2	3,025.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,758.67	3/4	4,440.42	3/4	4,102.59	3/4	3,743.92	3/4	3,380.75	3/4	3,017.59
4	4	4	4	4	4	4	4	4	4,751.47	4	4,433.65	4	4,095.30	4	3,736.36	4	3,373.19	4	3,010.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,744.26	1/4	4,426.87	1/4	4,088.00	1/4	3,728.79	1/4	3,365.62	1/4	3,002.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,737.06	1/2	4,420.10	1/2	4,080.71	1/2	3,721.22	1/2	3,358.06	1/2	2,994.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,730.13	3/4	4,413.31	3/4	4,073.40	3/4	3,713.66	3/4	3,350.49	3/4	2,987.32
5	5	5	5	5	5	5	5	5	4,723.47	5	4,406.50	5	4,066.07	5	3,706.09	5	3,342.92	5	2,979.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,716.81	1/4	4,399.69	1/4	4,058.74	1/4	3,698.53	1/4	3,335.36	1/4	2,972.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,710.15	1/2	4,392.88	1/2	4,051.41	1/2	3,690.96	1/2	3,327.79	1/2	2,964.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,703.61	3/4	4,386.05	3/4	4,044.06	3/4	3,683.39	3/4	3,320.23	3/4	2,957.06
6	6	6	6	6	6	6	6	6	4,697.20	6	4,379.20	6	4,036.69	6	3,675.83	6	3,312.66	6	2,949.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,690.79	1/4	4,372.36	1/4	4,029.33	1/4	3,668.26	1/4	3,305.09	1/4	2,941.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,684.38	1/2	4,365.51	1/2	4,021.96	1/2	3,660.70	1/2	3,297.53	1/2	2,934.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,677.95	3/4	4,358.64	3/4	4,014.57	3/4	3,653.13	3/4	3,289.96	3/4	2,926.79
7	7	7	7	7	7	7	7	7	4,671.50	7	4,351.73	7	4,007.17	7	3,645.56	7	3,282.40	7	2,919.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,665.05	1/4	4,344.83	1/4	3,999.77	1/4	3,638.00	1/4	3,274.83	1/4	2,911.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.60	1/2	4,337.92	1/2	3,992.36	1/2	3,630.43	1/2	3,267.26	1/2	2,904.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,652.13	3/4	4,330.98	3/4	3,984.94	3/4	3,622.87	3/4	3,259.70	3/4	2,896.53
8	8	8	8	8	8	8	8	8	4,645.65	8	4,323.99	8	3,977.50	8	3,615.30	8	3,252.13	8	2,888.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,639.16	1/4	4,317.01	1/4	3,970.06	1/4	3,607.73	1/4	3,244.57	1/4	2,881.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,632.68	1/2	4,310.02	1/2	3,962.62	1/2	3,600.17	1/2	3,237.00	1/2	2,873.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,626.17	3/4	4,303.01	3/4	3,955.16	3/4	3,592.60	3/4	3,229.43	3/4	2,866.27
9	9	9	9	9	9	9	9	9	4,619.65	9	4,295.97	9	3,947.68	9	3,585.04	9	3,221.87	9	2,858.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,613.13	1/4	4,288.93	1/4	3,940.20	1/4	3,577.47	1/4	3,214.30	1/4	2,851.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,606.61	1/2	4,281.88	1/2	3,932.73	1/2	3,569.90	1/2	3,206.74	1/2	2,843.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,600.07	3/4	4,274.82	3/4	3,925.23	3/4	3,562.34	3/4	3,199.17	3/4	2,836.00
10	10	10	10	10	10	10	10	10	4,593.51	10	4,267.74	10	3,917.71	10	3,554.77	10	3,191.60	10	2,828.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,586.95	1/4	4,260.66	1/4	3,910.20	1/4	3,547.21	1/4	3,184.04	1/4	2,820.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,580.39	1/2	4,253.58	1/2	3,902.68	1/2	3,539.64	1/2	3,176.47	1/2	2,813.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,573.81	3/4	4,246.49	3/4	3,895.15	3/4	3,532.07	3/4	3,168.91	3/4	2,805.74
11	11	11	11	11	11	11	11	11	4,567.21	11	4,239.37	11	3,887.61	11	3,524.51	11	3,161.34	11	2,798.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,560.62	1/4	4,232.25	1/4	3,880.06	1/4	3,516.94	1/4	3,153.77	1/4	2,790.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,554.02	1/2	4,225.14	1/2	3,872.52	1/2	3,509.38	1/2	3,146.21	1/2	2,783.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,547.41	3/4	4,218.00	3/4	3,864.96	3/4	3,501.81	3/4	3,138.64	3/4	2,775.47

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.

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 28071"

2 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-07 5/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,404.74	0	2,041.57	0	1,678.40	0	1,319.09	0	956.90	0	593.82	0	230.60	0		0			
1/4	2,397.17	1/4	2,034.01	1/4	1,670.83	1/4	1,311.53	1/4	949.36	1/4	586.25	1/4	223.04	1/4		1/4			
1/2	2,389.61	1/2	2,026.44	1/2	1,663.26	1/2	1,303.96	1/2	941.82	1/2	578.69	1/2	215.47	1/2		1/2			
3/4	2,382.04	3/4	2,018.87	3/4	1,655.70	3/4	1,296.39	3/4	934.27	3/4	571.12	3/4	207.91	3/4		3/4			
1	2,374.48	1	2,011.31	1	1,648.13	1	1,288.83	1	926.72	1	563.55	1	200.34	1		1			
1/4	2,366.91	1/4	2,003.74	1/4	1,640.56	1/4	1,281.26	1/4	919.17	1/4	555.99	1/4	192.78	1/4		1/4			
1/2	2,359.34	1/2	1,996.18	1/2	1,633.00	1/2	1,273.69	1/2	911.61	1/2	548.42	1/2	185.21	1/2		1/2			
3/4	2,351.78	3/4	1,988.61	3/4	1,625.43	3/4	1,266.12	3/4	904.05	3/4	540.85	3/4	177.65	3/4		3/4			
2	2,344.21	2	1,981.04	2	1,617.87	2	1,258.56	2	896.48	2	533.28	2	170.10	2		2			
1/4	2,336.65	1/4	1,973.48	1/4	1,610.30	1/4	1,250.99	1/4	888.92	1/4	525.72	1/4	162.54	1/4		1/4			
1/2	2,329.08	1/2	1,965.91	1/2	1,602.73	1/2	1,243.42	1/2	881.35	1/2	518.15	1/2	154.98	1/2		1/2			
3/4	2,321.51	3/4	1,958.34	3/4	1,595.17	3/4	1,235.86	3/4	873.79	3/4	510.58	3/4	147.43	3/4		3/4			
3	2,313.95	3	1,950.78	3	1,587.60	3	1,228.31	3	866.22	3	503.02	3	139.88	3		3			
1/4	2,306.38	1/4	1,943.21	1/4	1,580.03	1/4	1,220.75	1/4	858.65	1/4	495.45	1/4	132.34	1/4		1/4			
1/2	2,298.82	1/2	1,935.65	1/2	1,572.47	1/2	1,213.20	1/2	851.09	1/2	487.88	1/2	124.79	1/2		1/2			
3/4	2,291.25	3/4	1,928.08	3/4	1,564.94	3/4	1,205.65	3/4	843.52	3/4	480.32	3/4	117.26	3/4		3/4			
4	2,283.68	4	1,920.51	4	1,557.46	4	1,198.11	4	835.95	4	472.75	4	109.73	4		4			
1/4	2,276.12	1/4	1,912.95	1/4	1,549.97	1/4	1,190.58	1/4	828.39	1/4	465.18	1/4	102.21	1/4		1/4			
1/2	2,268.55	1/2	1,905.38	1/2	1,542.49	1/2	1,183.04	1/2	820.82	1/2	457.61	1/2	94.68	1/2		1/2			
3/4	2,260.99	3/4	1,897.82	3/4	1,535.04	3/4	1,175.50	3/4	813.25	3/4	450.05	3/4	87.17	3/4		3/4			
5	2,253.42	5	1,890.25	5	1,527.64	5	1,167.96	5	805.69	5	442.48	5	79.68	5		5			
1/4	2,245.85	1/4	1,882.68	1/4	1,520.23	1/4	1,160.42	1/4	798.12	1/4	434.91	1/4	72.19	1/4		1/4			
1/2	2,238.29	1/2	1,875.12	1/2	1,512.83	1/2	1,152.88	1/2	790.55	1/2	427.35	1/2	64.70	1/2		1/2			
3/4	2,230.72	3/4	1,867.55	3/4	1,505.42	3/4	1,145.35	3/4	782.99	3/4	419.78	3/4	57.51	3/4		3/4			
6	2,223.16	6	1,859.98	6	1,498.02	6	1,137.81	6	775.42	6	412.21	6	50.62	6		6			
1/4	2,215.59	1/4	1,852.42	1/4	1,490.62	1/4	1,130.27	1/4	767.85	1/4	404.65	1/4	43.73	1/4		1/4			
1/2	2,208.02	1/2	1,844.85	1/2	1,483.21	1/2	1,122.73	1/2	760.29	1/2	397.08	1/2	36.85	1/2		1/2			
3/4	2,200.46	3/4	1,837.29	3/4	1,475.81	3/4	1,115.20	3/4	752.72	3/4	389.51	3/4	30.88	3/4		3/4			
7	2,192.89	7	1,829.72	7	1,468.40	7	1,107.66	7	745.15	7	381.94	7	25.84	7		7			
1/4	2,185.33	1/4	1,822.15	1/4	1,461.00	1/4	1,100.12	1/4	737.59	1/4	374.38	1/4	20.80	1/4		1/4			
1/2	2,177.76	1/2	1,814.59	1/2	1,453.59	1/2	1,092.58	1/2	730.02	1/2	366.81	1/2	15.76	1/2		1/2			
3/4	2,170.19	3/4	1,807.02	3/4	1,446.19	3/4	1,085.04	3/4	722.46	3/4	359.24	3/4	13.23	3/4		3/4			
8	2,162.63	8	1,799.45	8	1,438.78	8	1,077.51	8	714.89	8	351.68	8		8		8			
1/4	2,155.06	1/4	1,791.89	1/4	1,431.38	1/4	1,069.97	1/4	707.32	1/4	344.11	1/4		1/4		1/4			
1/2	2,147.50	1/2	1,784.32	1/2	1,423.98	1/2	1,062.43	1/2	699.76	1/2	336.54	1/2		1/2		1/2			
3/4	2,139.93	3/4	1,776.76	3/4	1,416.57	3/4	1,054.89	3/4	692.19	3/4	328.98	3/4		3/4		3/4			
9	2,132.36	9	1,769.19	9	1,409.17	9	1,047.36	9	684.62	9	321.41	9		9		9			
1/4	2,124.80	1/4	1,761.62	1/4	1,401.76	1/4	1,039.82	1/4	677.06	1/4	313.84	1/4		1/4		1/4			
1/2	2,117.23	1/2	1,754.06	1/2	1,394.36	1/2	1,032.28	1/2	669.49	1/2	306.27	1/2		1/2		1/2			
3/4	2,109.67	3/4	1,746.49	3/4	1,386.91	3/4	1,024.74	3/4	661.92	3/4	298.71	3/4		3/4		3/4			
10	2,102.10	10	1,738.92	10	1,379.42	10	1,017.20	10	654.36	10	291.14	10		10		10			
1/4	2,094.53	1/4	1,731.36	1/4	1,371.94	1/4	1,009.67	1/4	646.79	1/4	283.57	1/4		1/4		1/4			
1/2	2,086.97	1/2	1,723.79	1/2	1,364.45	1/2	1,002.13	1/2	639.22	1/2	276.01	1/2		1/2		1/2			
3/4	2,079.40	3/4	1,716.23	3/4	1,356.93	3/4	994.59	3/4	631.66	3/4	268.44	3/4		3/4		3/4			
11	2,071.84	11	1,708.66	11	1,349.36	11	987.05	11	624.09	11	260.87	11		11		11			
1/4	2,064.27	1/4	1,701.09	1/4	1,341.79	1/4	979.52	1/4	616.52	1/4	253.31	1/4		1/4		1/4			
1/2	2,056.70	1/2	1,693.53	1/2	1,334.23	1/2	971.98	1/2	608.95	1/2	245.74	1/2		1/2		1/2			
3/4	2,049.14	3/4	1,685.96	3/4	1,326.66	3/4	964.44	3/4	601.39	3/4	238.17	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/01/2005 CL - SW
CALCULATED: 02/02/2005 CL
PRINTED: 02/02/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2005

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



BARGE "KIRBY 28071"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,446.90	0	4,191.15	0	3,929.64	0	3,654.55	0	3,371.27	0	3,007.60	0	2,644.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,441.87	1/4	4,185.85	1/4	3,924.02	1/4	3,648.73	1/4	3,363.68	1/4	3,000.04	1/4	2,636.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,436.84	1/2	4,180.54	1/2	3,918.39	1/2	3,642.90	1/2	3,356.09	1/2	2,992.47	1/2	2,629.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,431.80	3/4	4,175.24	3/4	3,912.76	3/4	3,637.07	3/4	3,348.51	3/4	2,984.90	3/4	2,621.68
1	1	1	1	1	1	1	4,426.77	1	4,169.93	1	3,907.14	1	3,631.24	1	3,340.92	1	2,977.34	1	2,614.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,421.11	1/4	4,164.61	1/4	3,901.49	1/4	3,625.41	1/4	3,333.33	1/4	2,969.77	1/4	2,606.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,415.44	1/2	4,159.29	1/2	3,895.85	1/2	3,619.58	1/2	3,325.75	1/2	2,962.20	1/2	2,598.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,409.77	3/4	4,153.96	3/4	3,890.20	3/4	3,613.75	3/4	3,318.16	3/4	2,954.63	3/4	2,591.41
2	2	2	2	2	2	2	4,404.11	2	4,148.64	2	3,884.55	2	3,607.93	2	3,310.57	2	2,947.07	2	2,583.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,398.36	1/4	4,143.30	1/4	3,878.89	1/4	3,602.10	1/4	3,302.98	1/4	2,939.50	1/4	2,576.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,392.62	1/2	4,137.95	1/2	3,873.22	1/2	3,596.27	1/2	3,295.40	1/2	2,931.93	1/2	2,568.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,386.88	3/4	4,132.61	3/4	3,867.56	3/4	3,590.44	3/4	3,287.81	3/4	2,924.37	3/4	2,561.14
3	3	3	3	3	3	3	4,381.13	3	4,127.27	3	3,861.89	3	3,584.61	3	3,280.22	3	2,916.80	3	2,553.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,375.54	1/4	4,121.91	1/4	3,856.21	1/4	3,578.78	1/4	3,272.64	1/4	2,909.23	1/4	2,546.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,369.94	1/2	4,116.54	1/2	3,850.53	1/2	3,572.96	1/2	3,265.05	1/2	2,901.66	1/2	2,538.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,364.35	3/4	4,111.18	3/4	3,844.84	3/4	3,567.13	3/4	3,257.46	3/4	2,894.10	3/4	2,530.87
4	4	4	4	4	4	4	4,358.75	4	4,105.82	4	3,839.16	4	3,561.30	4	3,249.87	4	2,886.53	4	2,523.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,353.45	1/4	4,100.43	1/4	3,833.46	1/4	3,555.47	1/4	3,242.29	1/4	2,878.96	1/4	2,515.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,348.15	1/2	4,095.05	1/2	3,827.76	1/2	3,549.64	1/2	3,234.70	1/2	2,871.40	1/2	2,508.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,342.84	3/4	4,089.67	3/4	3,822.06	3/4	3,543.81	3/4	3,227.11	3/4	2,863.83	3/4	2,500.60
5	5	5	5	5	5	5	4,337.54	5	4,084.29	5	3,816.35	5	3,537.98	5	3,219.52	5	2,856.26	5	2,493.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,332.37	1/4	4,078.88	1/4	3,810.63	1/4	3,532.16	1/4	3,211.95	1/4	2,848.69	1/4	2,485.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,327.20	1/2	4,073.48	1/2	3,804.91	1/2	3,526.33	1/2	3,204.37	1/2	2,841.13	1/2	2,477.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,322.04	3/4	4,068.08	3/4	3,799.19	3/4	3,520.50	3/4	3,196.79	3/4	2,833.56	3/4	2,470.33
6	6	6	6	6	6	6	4,316.87	6	4,062.67	6	3,793.47	6	3,514.67	6	3,189.22	6	2,825.99	6	2,462.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,311.68	1/4	4,057.23	1/4	3,787.73	1/4	3,508.84	1/4	3,181.65	1/4	2,818.42	1/4	2,455.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,306.49	1/2	4,051.79	1/2	3,781.99	1/2	3,503.01	1/2	3,174.08	1/2	2,810.86	1/2	2,447.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,301.30	3/4	4,046.34	3/4	3,776.25	3/4	3,497.18	3/4	3,166.52	3/4	2,803.29	3/4	2,440.06
7	7	7	7	7	7	7	4,296.11	7	4,040.90	7	3,770.50	7	3,491.36	7	3,158.95	7	2,795.72	7	2,432.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,290.90	1/4	4,035.39	1/4	3,764.74	1/4	3,485.53	1/4	3,151.38	1/4	2,788.16	1/4	2,424.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,285.70	1/2	4,029.89	1/2	3,758.98	1/2	3,479.70	1/2	3,143.81	1/2	2,780.59	1/2	2,417.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,280.49	3/4	4,024.38	3/4	3,753.22	3/4	3,473.87	3/4	3,136.25	3/4	2,773.02	3/4	2,409.80
8	8	8	8	8	8	8	4,275.28	8	4,018.87	8	3,747.46	8	3,468.04	8	3,128.68	8	2,765.45	8	2,402.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,270.05	1/4	4,013.33	1/4	3,741.68	1/4	3,462.21	1/4	3,121.11	1/4	2,757.89	1/4	2,394.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,264.82	1/2	4,007.78	1/2	3,735.90	1/2	3,456.39	1/2	3,113.55	1/2	2,750.32	1/2	2,387.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,259.59	3/4	4,002.23	3/4	3,730.12	3/4	3,450.56	3/4	3,105.98	3/4	2,742.75	3/4	2,379.53
9	9	9	9	9	9	9	4,254.37	9	3,996.69	9	3,724.33	9	3,444.73	9	3,098.41	9	2,735.19	9	2,371.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,249.12	1/4	3,991.12	1/4	3,718.53	1/4	3,438.90	1/4	3,090.84	1/4	2,727.62	1/4	2,364.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,243.87	1/2	3,985.55	1/2	3,712.73	1/2	3,433.07	1/2	3,083.28	1/2	2,720.05	1/2	2,356.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,238.62	3/4	3,979.99	3/4	3,706.93	3/4	3,427.24	3/4	3,075.71	3/4	2,712.48	3/4	2,349.26
10	10	10	10	10	10	10	4,233.37	10	3,974.42	10	3,701.13	10	3,421.41	10	3,068.14	10	2,704.92	10	2,341.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,228.10	1/4	3,968.83	1/4	3,695.31	1/4	3,415.59	1/4	3,060.58	1/4	2,697.35	1/4	2,334.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,222.84	1/2	3,963.25	1/2	3,689.49	1/2	3,409.76	1/2	3,053.01	1/2	2,689.78	1/2	2,326.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,217.57	3/4	3,957.66	3/4	3,683.68	3/4	3,403.93	3/4	3,045.44	3/4	2,682.22	3/4	2,318.99
11	11	11	11	11	11	11	4,212.30	11	3,952.07	11	3,677.86	11	3,398.10	11	3,037.87	11	2,674.65	11	2,311.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,207.01	1/4	3,946.47	1/4	3,672.03	1/4	3,391.39	1/4	3,030.31	1/4	2,667.08	1/4	2,303.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,456.36	1/2	4,201.72	1/2	3,940.86	1/2	3,666.21	1/2	3,384.68	1/2	3,022.74	1/2	2,296.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,451.63	3/4	4,196.44	3/4	3,935.25	3/4	3,660.38	3/4	3,377.98	3/4	3,015.17	3/4	2,288.72

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'-05" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28071"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,281.15	0	1,917.93	0	1,554.83	0	1,196.10	0	842.58	0	485.56	0	122.59	0		0			
1/4	2,273.59	1/4	1,910.36	1/4	1,547.29	1/4	1,188.55	1/4	835.22	1/4	477.97	1/4	116.27	1/4		1/4			
1/2	2,266.02	1/2	1,902.79	1/2	1,539.75	1/2	1,181.00	1/2	827.85	1/2	470.38	1/2	109.94	1/2		1/2			
3/4	2,258.45	3/4	1,895.23	3/4	1,532.20	3/4	1,173.45	3/4	820.49	3/4	462.79	3/4	103.62	3/4		3/4			
1	2,250.88	1	1,887.66	1	1,524.66	1	1,165.89	1	813.12	1	455.20	1	97.30	1		1			
1/4	2,243.32	1/4	1,880.09	1/4	1,517.11	1/4	1,158.45	1/4	805.74	1/4	447.62	1/4	92.25	1/4		1/4			
1/2	2,235.75	1/2	1,872.52	1/2	1,509.57	1/2	1,151.00	1/2	798.36	1/2	440.03	1/2	87.20	1/2		1/2			
3/4	2,228.18	3/4	1,864.96	3/4	1,502.03	3/4	1,143.55	3/4	790.99	3/4	432.44	3/4	82.14	3/4		3/4			
2	2,220.62	2	1,857.39	2	1,494.48	2	1,136.11	2	783.61	2	424.85	2	77.09	2		2			
1/4	2,213.05	1/4	1,849.82	1/4	1,486.94	1/4	1,128.77	1/4	776.23	1/4	417.26	1/4	73.32	1/4		1/4			
1/2	2,205.48	1/2	1,842.25	1/2	1,479.39	1/2	1,121.43	1/2	768.85	1/2	409.68	1/2	69.54	1/2		1/2			
3/4	2,197.91	3/4	1,834.69	3/4	1,471.85	3/4	1,114.09	3/4	761.48	3/4	402.09	3/4	65.76	3/4		3/4			
3	2,190.35	3	1,827.12	3	1,464.31	3	1,106.75	3	754.10	3	394.50	3	61.99	3		3			
1/4	2,182.78	1/4	1,819.55	1/4	1,456.84	1/4	1,099.42	1/4	746.72	1/4	386.91	1/4	59.49	1/4		1/4			
1/2	2,175.21	1/2	1,811.98	1/2	1,449.38	1/2	1,092.09	1/2	739.34	1/2	379.32	1/2	57.00	1/2		1/2			
3/4	2,167.65	3/4	1,804.42	3/4	1,441.92	3/4	1,084.76	3/4	731.97	3/4	371.73	3/4	54.50	3/4		3/4			
4	2,160.08	4	1,796.85	4	1,434.45	4	1,077.42	4	724.59	4	364.15	4	52.01	4		4			
1/4	2,152.51	1/4	1,789.28	1/4	1,427.06	1/4	1,070.09	1/4	717.21	1/4	356.56	1/4	50.81	1/4		1/4			
1/2	2,144.94	1/2	1,781.71	1/2	1,419.67	1/2	1,062.76	1/2	709.83	1/2	348.97	1/2	49.62	1/2		1/2			
3/4	2,137.38	3/4	1,774.15	3/4	1,412.27	3/4	1,055.43	3/4	702.46	3/4	341.38	3/4	48.42	3/4		3/4			
5	2,129.81	5	1,766.58	5	1,404.88	5	1,048.10	5	695.08	5	333.79	5	47.22	5		5			
1/4	2,122.24	1/4	1,759.01	1/4	1,397.47	1/4	1,040.77	1/4	687.70	1/4	326.21	1/4		1/4		1/4			
1/2	2,114.68	1/2	1,751.44	1/2	1,390.06	1/2	1,033.44	1/2	680.32	1/2	318.62	1/2		1/2		1/2			
3/4	2,107.11	3/4	1,743.88	3/4	1,382.66	3/4	1,026.11	3/4	672.95	3/4	311.03	3/4		3/4		3/4			
6	2,099.54	6	1,736.31	6	1,375.25	6	1,018.78	6	665.57	6	303.44	6		6		6			
1/4	2,091.97	1/4	1,728.74	1/4	1,367.84	1/4	1,011.45	1/4	658.19	1/4	295.85	1/4		1/4		1/4			
1/2	2,084.41	1/2	1,721.18	1/2	1,360.44	1/2	1,004.12	1/2	650.81	1/2	288.26	1/2		1/2		1/2			
3/4	2,076.84	3/4	1,713.61	3/4	1,353.03	3/4	996.79	3/4	643.44	3/4	280.68	3/4		3/4		3/4			
7	2,069.27	7	1,706.04	7	1,345.63	7	989.46	7	636.06	7	273.09	7		7		7			
1/4	2,061.70	1/4	1,698.47	1/4	1,338.22	1/4	982.13	1/4	628.68	1/4	265.50	1/4		1/4		1/4			
1/2	2,054.14	1/2	1,690.91	1/2	1,330.81	1/2	974.80	1/2	621.30	1/2	257.91	1/2		1/2		1/2			
3/4	2,046.57	3/4	1,683.34	3/4	1,323.41	3/4	967.46	3/4	613.92	3/4	250.32	3/4		3/4		3/4			
8	2,039.00	8	1,675.77	8	1,316.00	8	960.13	8	606.55	8	242.74	8		8		8			
1/4	2,031.44	1/4	1,668.20	1/4	1,308.60	1/4	952.79	1/4	599.06	1/4	235.15	1/4		1/4		1/4			
1/2	2,023.87	1/2	1,660.64	1/2	1,301.20	1/2	945.45	1/2	591.58	1/2	227.56	1/2		1/2		1/2			
3/4	2,016.30	3/4	1,653.07	3/4	1,293.80	3/4	938.12	3/4	584.10	3/4	219.97	3/4		3/4		3/4			
9	2,008.73	9	1,645.50	9	1,286.40	9	930.78	9	576.62	9	212.38	9		9		9			
1/4	2,001.17	1/4	1,637.93	1/4	1,278.93	1/4	923.43	1/4	569.03	1/4	204.79	1/4		1/4		1/4			
1/2	1,993.60	1/2	1,630.37	1/2	1,271.46	1/2	916.08	1/2	561.44	1/2	197.21	1/2		1/2		1/2			
3/4	1,986.03	3/4	1,622.80	3/4	1,263.99	3/4	908.73	3/4	553.85	3/4	189.62	3/4		3/4		3/4			
10	1,978.47	10	1,615.23	10	1,256.52	10	901.38	10	546.26	10	182.03	10		10		10			
1/4	1,970.90	1/4	1,607.68	1/4	1,248.97	1/4	894.03	1/4	538.68	1/4	174.44	1/4		1/4		1/4			
1/2	1,963.33	1/2	1,600.12	1/2	1,241.42	1/2	886.68	1/2	531.09	1/2	166.85	1/2		1/2		1/2			
3/4	1,955.76	3/4	1,592.56	3/4	1,233.86	3/4	879.33	3/4	523.50	3/4	159.27	3/4		3/4		3/4			
11	1,948.20	11	1,585.01	11	1,226.31	11	871.98	11	515.91	11	151.68	11		11		11			
1/4	1,940.63	1/4	1,577.46	1/4	1,218.76	1/4	864.63	1/4	508.32	1/4	144.40	1/4		1/4		1/4			
1/2	1,933.06	1/2	1,569.92	1/2	1,211.21	1/2	857.28	1/2	500.73	1/2	137.13	1/2		1/2		1/2			
3/4	1,925.50	3/4	1,562.38	3/4	1,203.66	3/4	849.93	3/4	493.15	3/4	129.86	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/01/2005 CL - SW
CALCULATED: 02/02/2005 CL
PRINTED: 02/02/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2005

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



BARGE "KIRBY 28071"

3 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-04 5/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,454.81	0	4,199.08	0	3,937.52	0	3,662.58	0	3,377.13	0	3,013.55	0	2,649.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,449.79	1/4	4,193.78	1/4	3,931.90	1/4	3,656.76	1/4	3,369.56	1/4	3,005.98	1/4	2,642.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,444.76	1/2	4,188.48	1/2	3,926.29	1/2	3,650.94	1/2	3,361.98	1/2	2,998.40	1/2	2,634.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,439.42	3/4	4,183.18	3/4	3,920.66	3/4	3,645.13	3/4	3,354.41	3/4	2,990.83	3/4	2,627.25
1	1	1	1	1	1	1	4,433.76	1	4,177.87	1	3,915.02	1	3,639.31	1	3,346.83	1	2,983.25	1	2,619.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,428.11	1/4	4,172.55	1/4	3,909.38	1/4	3,633.49	1/4	3,339.26	1/4	2,975.68	1/4	2,612.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,422.45	1/2	4,167.24	1/2	3,903.75	1/2	3,627.67	1/2	3,331.69	1/2	2,968.10	1/2	2,604.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,416.76	3/4	4,161.91	3/4	3,898.10	3/4	3,621.85	3/4	3,324.11	3/4	2,960.53	3/4	2,596.95
2	2	2	2	2	2	2	4,411.02	2	4,156.58	2	3,892.44	2	3,616.03	2	3,316.54	2	2,952.96	2	2,589.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,405.29	1/4	4,151.24	1/4	3,886.79	1/4	3,610.21	1/4	3,308.96	1/4	2,945.38	1/4	2,581.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,399.55	1/2	4,145.91	1/2	3,881.13	1/2	3,604.39	1/2	3,301.39	1/2	2,937.81	1/2	2,574.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,393.89	3/4	4,140.57	3/4	3,875.47	3/4	3,598.58	3/4	3,293.81	3/4	2,930.23	3/4	2,566.65
3	3	3	3	3	3	3	4,388.31	3	4,135.21	3	3,869.80	3	3,592.76	3	3,286.24	3	2,922.66	3	2,559.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,382.72	1/4	4,129.86	1/4	3,864.12	1/4	3,586.94	1/4	3,278.66	1/4	2,915.08	1/4	2,551.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,377.14	1/2	4,124.50	1/2	3,858.45	1/2	3,581.12	1/2	3,271.09	1/2	2,907.51	1/2	2,543.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,371.70	3/4	4,119.14	3/4	3,852.77	3/4	3,575.30	3/4	3,263.51	3/4	2,899.93	3/4	2,536.35
4	4	4	4	4	4	4	4,366.40	4	4,113.77	4	3,847.07	4	3,569.48	4	3,255.94	4	2,892.36	4	2,528.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,361.11	1/4	4,108.39	1/4	3,841.38	1/4	3,563.66	1/4	3,248.37	1/4	2,884.78	1/4	2,521.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,355.81	1/2	4,103.02	1/2	3,835.69	1/2	3,557.84	1/2	3,240.79	1/2	2,877.21	1/2	2,513.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,350.59	3/4	4,097.63	3/4	3,829.99	3/4	3,552.02	3/4	3,233.22	3/4	2,869.64	3/4	2,506.05
5	5	5	5	5	5	5	4,345.43	5	4,092.24	5	3,824.28	5	3,546.21	5	3,225.64	5	2,862.06	5	2,498.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,340.27	1/4	4,086.85	1/4	3,818.56	1/4	3,540.39	1/4	3,218.07	1/4	2,854.49	1/4	2,490.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,335.11	1/2	4,081.45	1/2	3,812.85	1/2	3,534.57	1/2	3,210.49	1/2	2,846.91	1/2	2,483.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,329.94	3/4	4,076.04	3/4	3,807.13	3/4	3,528.75	3/4	3,202.92	3/4	2,839.34	3/4	2,475.76
6	6	6	6	6	6	6	4,324.76	6	4,070.60	6	3,801.40	6	3,522.93	6	3,195.34	6	2,831.76	6	2,468.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,319.58	1/4	4,065.17	1/4	3,795.67	1/4	3,517.11	1/4	3,187.77	1/4	2,824.19	1/4	2,460.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,314.40	1/2	4,059.73	1/2	3,789.94	1/2	3,511.29	1/2	3,180.19	1/2	2,816.61	1/2	2,453.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,309.21	3/4	4,054.27	3/4	3,784.19	3/4	3,505.47	3/4	3,172.62	3/4	2,809.04	3/4	2,445.46
7	7	7	7	7	7	7	4,304.01	7	4,048.77	7	3,778.44	7	3,499.66	7	3,165.04	7	2,801.46	7	2,437.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,298.81	1/4	4,043.27	1/4	3,772.69	1/4	3,493.84	1/4	3,157.47	1/4	2,793.89	1/4	2,430.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,293.61	1/2	4,037.78	1/2	3,766.94	1/2	3,488.02	1/2	3,149.90	1/2	2,786.31	1/2	2,422.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,288.40	3/4	4,032.26	3/4	3,761.18	3/4	3,482.20	3/4	3,142.32	3/4	2,778.74	3/4	2,415.16
8	8	8	8	8	8	8	4,283.18	8	4,026.72	8	3,755.41	8	3,476.38	8	3,134.75	8	2,771.17	8	2,407.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,277.96	1/4	4,021.18	1/4	3,749.63	1/4	3,470.56	1/4	3,127.17	1/4	2,763.59	1/4	2,400.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,272.74	1/2	4,015.65	1/2	3,743.86	1/2	3,464.74	1/2	3,119.60	1/2	2,756.02	1/2	2,392.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,267.51	3/4	4,010.10	3/4	3,738.08	3/4	3,458.92	3/4	3,112.02	3/4	2,748.44	3/4	2,384.86
9	9	9	9	9	9	9	4,262.27	9	4,004.54	9	3,732.29	9	3,453.11	9	3,104.45	9	2,740.87	9	2,377.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,257.03	1/4	3,998.98	1/4	3,726.50	1/4	3,447.29	1/4	3,096.87	1/4	2,733.29	1/4	2,369.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,251.79	1/2	3,993.43	1/2	3,720.71	1/2	3,441.47	1/2	3,089.30	1/2	2,725.72	1/2	2,362.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,246.54	3/4	3,987.86	3/4	3,714.91	3/4	3,435.65	3/4	3,081.72	3/4	2,718.14	3/4	2,354.56
10	10	10	10	10	10	10	4,241.28	10	3,982.28	10	3,709.10	10	3,429.83	10	3,074.15	10	2,710.57	10	2,346.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,236.02	1/4	3,976.70	1/4	3,703.29	1/4	3,424.01	1/4	3,066.57	1/4	2,702.99	1/4	2,339.41
1/2	1/2	1/2	5/8	1/2	4,481.22	1/2	4,230.76	1/2	3,971.13	1/2	3,697.48	1/2	3,418.19	1/2	3,059.00	1/2	2,695.42	1/2	2,331.84
3/4	3/4	3/4	3/4	3/4	4,478.86	3/4	4,225.49	3/4	3,965.54	3/4	3,691.67	3/4	3,411.93	3/4	3,051.43	3/4	2,687.84	3/4	2,324.26
11	11	11	11	11	4,474.14	11	4,220.21	11	3,959.94	11	3,685.85	11	3,405.24	11	3,043.85	11	2,680.27	11	2,316.69
1/4	1/4	1/4	1/4	1/4	4,469.43	1/4	4,214.94	1/4	3,954.34	1/4	3,680.04	1/4	3,398.54	1/4	3,036.28	1/4	2,672.70	1/4	2,309.11
1/2	1/2	1/2	1/2	1/2	4,464.71	1/2	4,209.66	1/2	3,948.75	1/2	3,674.22	1/2	3,391.84	1/2	3,028.70	1/2	2,665.12	1/2	2,301.54
3/4	3/4	3/4	3/4	3/4	4,459.84	3/4	4,204.37	3/4	3,943.14	3/4	3,668.40	3/4	3,384.71	3/4	3,021.13	3/4	2,657.55	3/4	2,293.97

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'-04" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28071"

3 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-04 5/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,286.39	0	1,922.81	0	1,559.22	0	1,199.49	0	836.97	0	473.39	0	112.92	0		0			
1/4	2,278.82	1/4	1,915.23	1/4	1,551.64	1/4	1,191.92	1/4	829.41	1/4	465.81	1/4	106.61	1/4		1/4			
1/2	2,271.24	1/2	1,907.66	1/2	1,544.07	1/2	1,184.34	1/2	821.85	1/2	458.24	1/2	100.29	1/2		1/2			
3/4	2,263.67	3/4	1,900.08	3/4	1,536.49	3/4	1,176.77	3/4	814.28	3/4	450.66	3/4	94.62	3/4		3/4			
1	2,256.09	1	1,892.51	1	1,528.92	1	1,169.19	1	806.70	1	443.09	1	89.57	1		1			
1/4	2,248.52	1/4	1,884.93	1/4	1,521.34	1/4	1,161.61	1/4	799.13	1/4	435.51	1/4	84.53	1/4		1/4			
1/2	2,240.94	1/2	1,877.36	1/2	1,513.77	1/2	1,154.04	1/2	791.55	1/2	427.93	1/2	79.49	1/2		1/2			
3/4	2,233.37	3/4	1,869.78	3/4	1,506.19	3/4	1,146.47	3/4	783.98	3/4	420.36	3/4	75.08	3/4		3/4			
2	2,225.79	2	1,862.21	2	1,498.62	2	1,138.91	2	776.40	2	412.78	2	71.31	2		2			
1/4	2,218.22	1/4	1,854.63	1/4	1,491.04	1/4	1,131.34	1/4	768.83	1/4	405.21	1/4	67.54	1/4		1/4			
1/2	2,210.64	1/2	1,847.06	1/2	1,483.47	1/2	1,123.78	1/2	761.25	1/2	397.63	1/2	63.77	1/2		1/2			
3/4	2,203.07	3/4	1,839.48	3/4	1,475.93	3/4	1,116.23	3/4	753.68	3/4	390.06	3/4	60.64	3/4		3/4			
3	2,195.50	3	1,831.91	3	1,468.44	3	1,108.68	3	746.10	3	382.48	3	58.15	3		3			
1/4	2,187.92	1/4	1,824.34	1/4	1,460.95	1/4	1,101.13	1/4	738.53	1/4	374.91	1/4	55.66	1/4		1/4			
1/2	2,180.35	1/2	1,816.76	1/2	1,453.45	1/2	1,093.58	1/2	730.95	1/2	367.33	1/2	53.17	1/2		1/2			
3/4	2,172.77	3/4	1,809.19	3/4	1,446.00	3/4	1,086.04	3/4	723.38	3/4	359.75	3/4	51.33	3/4		3/4			
4	2,165.20	4	1,801.61	4	1,438.59	4	1,078.49	4	715.80	4	352.18	4	50.13	4		4			
1/4	2,157.62	1/4	1,794.04	1/4	1,431.17	1/4	1,070.94	1/4	708.23	1/4	344.60	1/4	48.94	1/4		1/4			
1/2	2,150.05	1/2	1,786.46	1/2	1,423.76	1/2	1,063.40	1/2	700.65	1/2	337.03	1/2	47.74	1/2		1/2			
3/4	2,142.47	3/4	1,778.89	3/4	1,416.35	3/4	1,055.85	3/4	693.08	3/4	329.45	3/4	47.14	3/4		3/4			
5	2,134.90	5	1,771.31	5	1,408.93	5	1,048.30	5	685.50	5	321.88	5		5		5			
1/4	2,127.32	1/4	1,763.74	1/4	1,401.52	1/4	1,040.76	1/4	677.93	1/4	314.30	1/4		1/4		1/4			
1/2	2,119.75	1/2	1,756.16	1/2	1,394.11	1/2	1,033.21	1/2	670.35	1/2	306.73	1/2		1/2		1/2			
3/4	2,112.18	3/4	1,748.59	3/4	1,386.69	3/4	1,025.66	3/4	662.78	3/4	299.15	3/4		3/4		3/4			
6	2,104.60	6	1,741.01	6	1,379.28	6	1,018.12	6	655.20	6	291.57	6		6		6			
1/4	2,097.03	1/4	1,733.44	1/4	1,371.87	1/4	1,010.57	1/4	647.62	1/4	284.00	1/4		1/4		1/4			
1/2	2,089.45	1/2	1,725.86	1/2	1,364.45	1/2	1,003.03	1/2	640.05	1/2	276.42	1/2		1/2		1/2			
3/4	2,081.88	3/4	1,718.29	3/4	1,357.04	3/4	995.48	3/4	632.47	3/4	268.85	3/4		3/4		3/4			
7	2,074.30	7	1,710.71	7	1,349.63	7	987.93	7	624.90	7	261.27	7		7		7			
1/4	2,066.73	1/4	1,703.14	1/4	1,342.21	1/4	980.39	1/4	617.32	1/4	253.70	1/4		1/4		1/4			
1/2	2,059.15	1/2	1,695.56	1/2	1,334.80	1/2	972.84	1/2	609.75	1/2	246.12	1/2		1/2		1/2			
3/4	2,051.58	3/4	1,687.99	3/4	1,327.39	3/4	965.29	3/4	602.17	3/4	238.54	3/4		3/4		3/4			
8	2,044.00	8	1,680.41	8	1,319.97	8	957.75	8	594.60	8	230.97	8		8		8			
1/4	2,036.43	1/4	1,672.84	1/4	1,312.56	1/4	950.20	1/4	587.02	1/4	223.39	1/4		1/4		1/4			
1/2	2,028.85	1/2	1,665.26	1/2	1,305.14	1/2	942.65	1/2	579.45	1/2	215.82	1/2		1/2		1/2			
3/4	2,021.28	3/4	1,657.69	3/4	1,297.69	3/4	935.11	3/4	571.87	3/4	208.24	3/4		3/4		3/4			
9	2,013.71	9	1,650.11	9	1,290.20	9	927.56	9	564.30	9	200.67	9		9		9			
1/4	2,006.13	1/4	1,642.54	1/4	1,282.70	1/4	920.01	1/4	556.72	1/4	193.09	1/4		1/4		1/4			
1/2	1,998.56	1/2	1,634.97	1/2	1,275.21	1/2	912.47	1/2	549.14	1/2	185.52	1/2		1/2		1/2			
3/4	1,990.98	3/4	1,627.39	3/4	1,267.67	3/4	904.92	3/4	541.57	3/4	177.94	3/4		3/4		3/4			
10	1,983.41	10	1,619.82	10	1,260.10	10	897.38	10	533.99	10	170.36	10		10		10			
1/4	1,975.83	1/4	1,612.24	1/4	1,252.52	1/4	889.83	1/4	526.42	1/4	162.79	1/4		1/4		1/4			
1/2	1,968.26	1/2	1,604.67	1/2	1,244.95	1/2	882.28	1/2	518.84	1/2	155.21	1/2		1/2		1/2			
3/4	1,960.68	3/4	1,597.09	3/4	1,237.37	3/4	874.74	3/4	511.27	3/4	147.80	3/4		3/4		3/4			
11	1,953.11	11	1,589.52	11	1,229.79	11	867.19	11	503.69	11	140.54	11		11		11			
1/4	1,945.53	1/4	1,581.94	1/4	1,222.22	1/4	859.64	1/4	496.12	1/4	133.28	1/4		1/4		1/4			
1/2	1,937.96	1/2	1,574.37	1/2	1,214.64	1/2	852.09	1/2	488.54	1/2	126.02	1/2		1/2		1/2			
3/4	1,930.38	3/4	1,566.79	3/4	1,207.07	3/4	844.53	3/4	480.96	3/4	119.23	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/01/2005 CL - SW
CALCULATED: 02/02/2005 CL
PRINTED: 02/02/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2005

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