



BARGE "KIRBY 28034"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-03"

September 24, 2004

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28034"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	0	0	0	0	4,354.88	0	4,054.41	0	3,757.71	0	3,446.38	0	3,121.50	0	2,789.74	0	2,457.97	
1/4	1/4	1/4	1/4	1/4	1/4	4,349.70	1/4	4,048.39	1/4	3,751.37	1/4	3,439.76	1/4	3,114.59	1/4	2,782.83	1/4	2,451.06	
1/2	1/2	1/2	1/2	1/2	1/2	4,342.78	1/2	4,042.34	1/2	3,745.01	1/2	3,433.11	1/2	3,107.68	1/2	2,775.92	1/2	2,444.15	
3/4	3/4	3/4	3/4	3/4	3/4	4,335.87	3/4	4,036.29	3/4	3,738.65	3/4	3,426.47	3/4	3,100.77	3/4	2,769.00	3/4	2,437.24	
1	1	1	1	1	1	4,328.96	1	4,030.24	1	3,732.28	1	3,419.83	1	3,093.86	1	2,762.09	1	2,430.32	
1/4	1/4	1/4	1/4	1/4	1/4	4,322.04	1/4	4,024.18	1/4	3,725.92	1/4	3,413.18	1/4	3,086.95	1/4	2,755.18	1/4	2,423.41	
1/2	1/2	1/2	1/2	1/2	1/2	4,315.13	1/2	4,018.11	1/2	3,719.53	1/2	3,406.51	1/2	3,080.04	1/2	2,748.27	1/2	2,416.50	
3/4	3/4	3/4	3/4	3/4	3/4	4,308.22	3/4	4,012.04	3/4	3,713.15	3/4	3,399.84	3/4	3,073.12	3/4	2,741.36	3/4	2,409.58	
2	2	2	2	2	2	4,301.31	2	4,005.97	2	3,706.77	2	3,393.17	2	3,066.21	2	2,734.45	2	2,402.67	
1/4	1/4	1/4	1/4	1/4	1/4	4,294.39	1/4	3,999.90	1/4	3,700.38	1/4	3,386.50	1/4	3,059.30	1/4	2,727.53	1/4	2,395.76	
1/2	1/2	1/2	1/2	1/2	1/2	4,287.48	1/2	3,993.81	1/2	3,693.97	1/2	3,379.81	1/2	3,052.39	1/2	2,720.62	1/2	2,388.84	
3/4	3/4	3/4	3/4	3/4	3/4	4,280.57	3/4	3,987.72	3/4	3,687.56	3/4	3,373.12	3/4	3,045.48	3/4	2,713.71	3/4	2,381.93	
3	3	3	3	3	3	4,273.65	3	3,981.63	3	3,681.14	3	3,366.43	3	3,038.57	3	2,706.80	3	2,375.02	
1/4	1/4	1/4	1/4	1/4	1/4	4,266.74	1/4	3,975.53	1/4	3,674.73	1/4	3,359.74	1/4	3,031.65	1/4	2,699.89	1/4	2,368.10	
1/2	1/2	1/2	1/2	1/2	1/2	4,259.83	1/2	3,969.41	1/2	3,668.30	1/2	3,353.02	1/2	3,024.74	1/2	2,692.98	1/2	2,361.19	
3/4	3/4	3/4	3/4	3/4	3/4	4,252.91	3/4	3,963.29	3/4	3,661.86	3/4	3,346.31	3/4	3,017.83	3/4	2,686.06	3/4	2,354.28	
4	4	4	4	4	4	4,246.00	4	3,957.17	4	3,655.43	4	3,339.60	4	3,010.92	4	2,679.15	4	2,347.36	
1/4	1/4	1/4	1/4	1/4	1/4	4,239.09	1/4	3,951.05	1/4	3,649.00	1/4	3,332.89	1/4	3,004.01	1/4	2,672.24	1/4	2,340.45	
1/2	1/2	1/2	1/2	1/2	1/2	4,233.19	1/2	3,944.91	1/2	3,642.54	1/2	3,326.15	1/2	2,997.09	1/2	2,665.33	1/2	2,333.54	
3/4	3/4	3/4	3/4	3/4	3/4	4,227.29	3/4	3,938.77	3/4	3,636.09	3/4	3,319.41	3/4	2,990.18	3/4	2,658.42	3/4	2,326.62	
5	5	5	5	5	5	4,221.40	5	3,932.63	5	3,629.63	5	3,312.67	5	2,983.27	5	2,651.50	5	2,319.71	
1/4	1/4	1/4	1/4	1/4	1/4	4,215.50	1/4	3,926.49	1/4	3,623.18	1/4	3,305.93	1/4	2,976.36	1/4	2,644.59	1/4	2,312.80	
1/2	1/2	1/2	1/2	1/2	1/2	4,209.58	1/2	3,920.33	1/2	3,616.70	1/2	3,299.17	1/2	2,969.45	1/2	2,637.68	1/2	2,305.88	
3/4	3/4	3/4	3/4	3/4	3/4	4,203.66	3/4	3,914.17	3/4	3,610.22	3/4	3,292.40	3/4	2,962.54	3/4	2,630.77	3/4	2,298.97	
6	6	6	6	6	6	4,197.75	6	3,908.00	6	3,603.74	6	3,285.64	6	2,955.62	6	2,623.86	6	2,292.06	
1/4	1/4	1/4	1/4	1/4	1/4	4,191.83	1/4	3,901.84	1/4	3,597.25	1/4	3,278.88	1/4	2,948.71	1/4	2,616.95	1/4	2,285.15	
1/2	1/2	1/2	1/2	1/2	1/2	4,185.89	1/2	3,895.65	1/2	3,590.75	1/2	3,272.09	1/2	2,941.80	1/2	2,610.03	1/2	2,278.23	
3/4	3/4	3/4	3/4	3/4	3/4	4,179.95	3/4	3,889.46	3/4	3,584.25	3/4	3,265.30	3/4	2,934.89	3/4	2,603.12	3/4	2,271.32	
7	7	7	7	7	7	4,174.01	7	3,883.27	7	3,577.76	7	3,258.51	7	2,927.98	7	2,596.21	7	2,264.41	
1/4	1/4	1/4	1/4	1/4	1/4	4,168.07	1/4	3,877.08	1/4	3,571.24	1/4	3,251.72	1/4	2,921.06	1/4	2,589.30	1/4	2,257.49	
1/2	1/2	1/2	1/2	1/2	1/2	4,162.11	1/2	3,870.87	1/2	3,564.72	1/2	3,244.91	1/2	2,914.15	1/2	2,582.39	1/2	2,250.58	
3/4	3/4	3/4	3/4	3/4	3/4	4,156.14	3/4	3,864.66	3/4	3,558.19	3/4	3,238.10	3/4	2,907.24	3/4	2,575.47	3/4	2,243.67	
8	8	8	8	8	8	4,150.17	8	3,858.45	8	3,551.67	8	3,231.29	8	2,900.33	8	2,568.56	8	2,236.75	
1/4	1/4	1/4	1/4	1/4	1/4	4,144.21	1/4	3,852.24	1/4	3,545.14	1/4	3,224.48	1/4	2,893.42	1/4	2,561.65	1/4	2,229.84	
1/2	1/2	1/2	1/2	1/2	1/2	4,138.25	1/2	3,845.98	1/2	3,538.59	1/2	3,217.65	1/2	2,886.51	1/2	2,554.74	1/2	2,222.93	
3/4	3/4	3/4	3/4	3/4	3/4	4,132.30	3/4	3,839.71	3/4	3,532.04	3/4	3,210.82	3/4	2,879.59	3/4	2,547.83	3/4	2,216.01	
9	9	9	9	9	9	4,126.35	9	3,833.44	9	3,525.49	9	3,203.99	9	2,872.68	9	2,540.92	9	2,209.10	
1/4	1/4	1/4	1/4	1/4	1/4	4,120.39	1/4	3,827.18	1/4	3,518.94	1/4	3,197.15	1/4	2,865.77	1/4	2,534.00	1/4	2,202.19	
1/2	1/2	1/2	1/2	1/2	1/2	4,114.42	1/2	3,820.88	1/2	3,512.37	1/2	3,190.29	1/2	2,858.86	1/2	2,527.09	1/2	2,195.27	
3/4	3/4	3/4	3/4	3/4	3/4	4,108.44	3/4	3,814.59	3/4	3,505.79	3/4	3,183.43	3/4	2,851.95	3/4	2,520.18	3/4	2,188.36	
10	10	10	10	10	10	4,102.47	10	3,808.30	10	3,499.22	10	3,176.57	10	2,845.03	10	2,513.27	10	2,181.45	
1/4	1/4	1/4	1/4	1/4	1/4	4,096.49	1/4	3,802.00	1/4	3,492.65	1/4	3,169.71	1/4	2,838.12	1/4	2,506.36	1/4	2,174.53	
1/2	1/2	1/2	1/2	1/2	1/2	4,090.49	1/2	3,795.69	1/2	3,486.05	1/2	3,162.83	1/2	2,831.21	1/2	2,499.44	1/2	2,167.62	
3/4	3/4	3/4	3/4	3/4	3/4	4,084.49	3/4	3,789.38	3/4	3,479.44	3/4	3,155.96	3/4	2,824.30	3/4	2,492.53	3/4	2,160.71	
11	11	11	11	11	11	4,078.49	11	3,783.06	11	3,472.84	11	3,149.08	11	2,817.39	11	2,485.62	11	2,153.79	
1/4	1/4	1/4	1/4	1/4	1/4	4,072.48	1/4	3,776.75	1/4	3,466.24	1/4	3,142.20	1/4	2,810.48	1/4	2,478.71	1/4	2,146.88	
1/2	1/2	1/2	1/2	1/2	1/2	4,066.46	1/2	3,770.40	1/2	3,459.62	1/2	3,135.30	1/2	2,803.56	1/2	2,471.80	1/2	2,139.97	
3/4	3/4	3/4	3/4	3/4	3/4	4,060.44	3/4	3,764.06	3/4	3,453.00	3/4	3,128.40	3/4	2,796.65	3/4	2,464.89	3/4	2,133.05	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 36'-10" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2032
 Pearland, Texas 77666
<http://www.pmacorp.net>



BARGE "KIRBY 28034"

1 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-10 1/4"

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

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,126.14	0	1,794.31	0	1,462.47	0	1,130.64	0	804.88	0	501.17	0	220.94	0		0		0	
1/4	2,119.23	1/4	1,787.39	1/4	1,455.56	1/4	1,123.73	1/4	798.31	1/4	495.08	1/4	215.33	1/4		1/4		1/4	
1/2	2,112.32	1/2	1,780.48	1/2	1,448.65	1/2	1,116.81	1/2	791.78	1/2	489.02	1/2	209.78	1/2		1/2		1/2	
3/4	2,105.40	3/4	1,773.57	3/4	1,441.73	3/4	1,109.90	3/4	785.25	3/4	482.97	3/4	204.22	3/4		3/4		3/4	
1	2,098.49	1	1,766.66	1	1,434.82	1	1,102.99	1	778.73	1	476.92	1	198.66	1		1		1	
1 1/4	2,091.58	1 1/4	1,759.74	1 1/4	1,427.91	1 1/4	1,096.07	1 1/4	772.20	1 1/4	470.87	1 1/4	193.10	1 1/4		1 1/4		1 1/4	
1 1/2	2,084.66	1 1/2	1,752.83	1 1/2	1,421.00	1 1/2	1,089.16	1 1/2	765.71	1 1/2	464.85	1 1/2	187.57	1 1/2		1 1/2		1 1/2	
3/4	2,077.75	3/4	1,745.92	3/4	1,414.08	3/4	1,082.25	3/4	759.22	3/4	458.84	3/4	182.05	3/4		3/4		3/4	
2	2,070.84	2	1,739.00	2	1,407.17	2	1,075.34	2	752.73	2	452.83	2	176.53	2		2		2	
2 1/4	2,063.92	2 1/4	1,732.09	2 1/4	1,400.26	2 1/4	1,068.43	2 1/4	746.24	2 1/4	446.81	2 1/4	171.01	2 1/4		2 1/4		2 1/4	
1/2	2,057.01	1/2	1,725.18	1/2	1,393.34	1/2	1,061.52	1/2	739.78	1/2	440.84	1/2	165.53	1/2		1/2		1/2	
3/4	2,050.10	3/4	1,718.26	3/4	1,386.43	3/4	1,054.62	3/4	733.31	3/4	434.87	3/4	160.05	3/4		3/4		3/4	
3	2,043.18	3	1,711.35	3	1,379.52	3	1,047.71	3	726.85	3	428.90	3	154.57	3		3		3	
3 1/4	2,036.27	3 1/4	1,704.44	3 1/4	1,372.60	3 1/4	1,040.81	3 1/4	720.39	3 1/4	422.93	3 1/4	149.10	3 1/4		3 1/4		3 1/4	
1/2	2,029.36	1/2	1,697.52	1/2	1,365.69	1/2	1,033.92	1/2	713.96	1/2	417.00	1/2	143.66	1/2		1/2		1/2	
3/4	2,022.44	3/4	1,690.61	3/4	1,358.78	3/4	1,027.03	3/4	707.54	3/4	411.07	3/4	138.21	3/4		3/4		3/4	
4	2,015.53	4	1,683.70	4	1,351.86	4	1,020.15	4	701.12	4	405.14	4	132.77	4		4		4	
4 1/4	2,008.62	4 1/4	1,676.78	4 1/4	1,344.95	4 1/4	1,013.26	4 1/4	694.69	4 1/4	399.20	4 1/4	127.33	4 1/4		4 1/4		4 1/4	
1/2	2,001.70	1/2	1,669.87	1/2	1,338.04	1/2	1,006.39	1/2	688.31	1/2	393.32	1/2	121.94	1/2		1/2		1/2	
3/4	1,994.79	3/4	1,662.96	3/4	1,331.12	3/4	999.53	3/4	681.93	3/4	387.43	3/4	116.54	3/4		3/4		3/4	
5	1,987.88	5	1,656.04	5	1,324.21	5	992.66	5	675.55	5	381.54	5	111.15	5		5		5	
5 1/4	1,980.96	5 1/4	1,649.13	5 1/4	1,317.30	5 1/4	985.80	5 1/4	669.17	5 1/4	375.65	5 1/4	105.75	5 1/4		5 1/4		5 1/4	
1/2	1,974.05	1/2	1,642.22	1/2	1,310.38	1/2	978.97	1/2	662.83	1/2	369.80	1/2	100.40	1/2		1/2		1/2	
3/4	1,967.14	3/4	1,635.30	3/4	1,303.47	3/4	972.14	3/4	656.49	3/4	363.95	3/4	95.04	3/4		3/4		3/4	
6	1,960.22	6	1,628.39	6	1,296.56	6	965.30	6	650.15	6	358.10	6	89.69	6		6		6	
6 1/4	1,953.31	6 1/4	1,621.48	6 1/4	1,289.64	6 1/4	958.47	6 1/4	643.80	6 1/4	352.25	6 1/4	84.33	6 1/4		6 1/4		6 1/4	
1/2	1,946.40	1/2	1,614.56	1/2	1,282.73	1/2	951.70	1/2	637.51	1/2	346.45	1/2	79.02	1/2		1/2		1/2	
3/4	1,939.49	3/4	1,607.65	3/4	1,275.82	3/4	944.92	3/4	631.21	3/4	340.64	3/4	73.71	3/4		3/4		3/4	
7	1,932.57	7	1,600.74	7	1,268.90	7	938.15	7	624.91	7	334.84	7	68.40	7		7		7	
7 1/4	1,925.66	7 1/4	1,593.83	7 1/4	1,261.99	7 1/4	931.37	7 1/4	618.61	7 1/4	329.03	7 1/4	63.09	7 1/4		7 1/4		7 1/4	
1/2	1,918.75	1/2	1,586.91	1/2	1,255.08	1/2	924.64	1/2	612.35	1/2	323.26	1/2	57.81	1/2		1/2		1/2	
3/4	1,911.83	3/4	1,580.00	3/4	1,248.17	3/4	917.90	3/4	606.09	3/4	317.49	3/4	52.54	3/4		3/4		3/4	
8	1,904.92	8	1,573.09	8	1,241.25	8	911.17	8	599.83	8	311.73	8	47.27	8		8		8	
8 1/4	1,898.01	8 1/4	1,566.17	8 1/4	1,234.34	8 1/4	904.43	8 1/4	593.57	8 1/4	305.96	8 1/4	41.99	8 1/4		8 1/4		8 1/4	
1/2	1,891.09	1/2	1,559.26	1/2	1,227.43	1/2	897.74	1/2	587.35	1/2	300.23	1/2	37.63	1/2		1/2		1/2	
3/4	1,884.18	3/4	1,552.35	3/4	1,220.51	3/4	891.04	3/4	581.14	3/4	294.51	3/4	33.27	3/4		3/4		3/4	
9	1,877.27	9	1,545.43	9	1,213.60	9	884.35	9	574.92	9	288.79	9	28.90	9		9		9	
9 1/4	1,870.35	9 1/4	1,538.52	9 1/4	1,206.69	9 1/4	877.66	9 1/4	568.70	9 1/4	283.06	9 1/4	24.54	9 1/4		9 1/4		9 1/4	
1/2	1,863.44	1/2	1,531.61	1/2	1,199.77	1/2	871.00	1/2	562.53	1/2	277.38	1/2	21.94	1/2		1/2		1/2	
3/4	1,856.53	3/4	1,524.69	3/4	1,192.86	3/4	864.35	3/4	556.35	3/4	271.69	3/4	19.34	3/4		3/4		3/4	
10	1,849.61	10	1,517.78	10	1,185.95	10	857.70	10	550.17	10	266.00	10	16.75	10		10		10	
10 1/4	1,842.70	10 1/4	1,510.87	10 1/4	1,179.03	10 1/4	851.04	10 1/4	544.00	10 1/4	260.32	10 1/4	14.15	10 1/4		10 1/4		10 1/4	
1/2	1,835.79	1/2	1,503.95	1/2	1,172.12	1/2	844.43	1/2	537.86	1/2	254.68	1/2		1/2		1/2		1/2	
3/4	1,828.87	3/4	1,497.04	3/4	1,165.21	3/4	837.82	3/4	531.73	3/4	249.04	3/4		3/4		3/4		3/4	
11	1,821.96	11	1,490.13	11	1,158.29	11	831.21	11	525.59	11	243.39	11		11		11		11	
11 1/4	1,815.05	11 1/4	1,483.21	11 1/4	1,151.38	11 1/4	824.60	11 1/4	519.46	11 1/4	237.75	11 1/4		11 1/4		11 1/4		11 1/4	
1/2	1,808.13	1/2	1,476.30	1/2	1,144.47	1/2	818.03	1/2	513.36	1/2	232.15	1/2		1/2		1/2		1/2	
3/4	1,801.22	3/4	1,469.39	3/4	1,137.55	3/4	811.46	3/4	507.27	3/4	226.54	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2004 CL - SW
CALCULATED: 09/24/2004 CL
PRINTED: 09/24/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28034"

1 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	0	0	0	0	4,361.15	0	4,061.32	0	3,764.74	0	3,463.48	0	3,128.67	0	2,796.70	0	2,464.71	
1/4	1/4	1/4	1/4	1/4	1/4	4,355.96	1/4	4,055.29	1/4	3,758.40	1/4	3,446.85	1/4	3,121.76	1/4	2,789.79	1/4	2,457.80	
1/2	1/2	1/2	1/2	1/2	1/2	4,350.77	1/2	4,049.26	1/2	3,752.05	1/2	3,440.23	1/2	3,114.86	1/2	2,782.87	1/2	2,450.88	
3/4	3/4	3/4	3/4	3/4	3/4	4,343.85	3/4	4,043.21	3/4	3,745.68	3/4	3,433.58	3/4	3,107.94	3/4	2,775.95	3/4	2,443.96	
1	1	1	1	1	1	4,336.93	1	4,037.15	1	3,739.31	1	3,426.93	1	3,101.02	1	2,769.04	1	2,437.05	
1/4	1/4	1/4	1/4	1/4	1/4	4,330.01	1/4	4,031.10	1/4	3,732.95	1/4	3,420.29	1/4	3,094.11	1/4	2,762.12	1/4	2,430.13	
1/2	1/2	1/2	1/2	1/2	1/2	4,323.10	1/2	4,025.04	1/2	3,726.58	1/2	3,413.84	1/2	3,087.19	1/2	2,755.20	1/2	2,423.21	
3/4	3/4	3/4	3/4	3/4	3/4	4,316.18	3/4	4,018.97	3/4	3,720.19	3/4	3,406.96	3/4	3,080.27	3/4	2,748.29	3/4	2,416.29	
2	2	2	2	2	2	4,309.26	2	4,012.89	2	3,713.80	2	3,400.29	2	3,073.36	2	2,741.37	2	2,409.38	
1/4	1/4	1/4	1/4	1/4	1/4	4,302.34	1/4	4,006.82	1/4	3,707.41	1/4	3,393.61	1/4	3,066.44	1/4	2,734.45	1/4	2,402.46	
1/2	1/2	1/2	1/2	1/2	1/2	4,295.43	1/2	4,000.74	1/2	3,701.02	1/2	3,386.94	1/2	3,059.53	1/2	2,727.54	1/2	2,395.54	
3/4	3/4	3/4	3/4	3/4	3/4	4,288.51	3/4	3,994.65	3/4	3,694.61	3/4	3,380.24	3/4	3,052.61	3/4	2,720.62	3/4	2,388.62	
3	3	3	3	3	3	4,281.59	3	3,988.55	3	3,688.19	3	3,373.55	3	3,045.69	3	2,713.71	3	2,381.70	
1/4	1/4	1/4	1/4	1/4	1/4	4,274.67	1/4	3,982.45	1/4	3,681.77	1/4	3,366.85	1/4	3,038.78	1/4	2,706.79	1/4	2,374.79	
1/2	1/2	1/2	1/2	1/2	1/2	4,267.76	1/2	3,976.38	1/2	3,675.36	1/2	3,360.16	1/2	3,031.86	1/2	2,699.87	1/2	2,367.87	
3/4	3/4	3/4	3/4	3/4	3/4	4,260.84	3/4	3,970.23	3/4	3,668.92	3/4	3,353.44	3/4	3,024.94	3/4	2,692.96	3/4	2,360.95	
4	4	4	4	4	4	4,253.92	4	3,964.11	4	3,662.48	4	3,346.72	4	3,018.03	4	2,686.04	4	2,354.03	
1/4	1/4	1/4	1/4	1/4	1/4	4,247.00	1/4	3,957.98	1/4	3,656.05	1/4	3,340.01	1/4	3,011.11	1/4	2,679.12	1/4	2,347.12	
1/2	1/2	1/2	1/2	1/2	1/2	4,240.08	1/2	3,951.86	1/2	3,649.61	1/2	3,333.29	1/2	3,004.19	1/2	2,672.21	1/2	2,340.20	
3/4	3/4	3/4	3/4	3/4	3/4	4,234.18	3/4	3,945.71	3/4	3,643.15	3/4	3,326.54	3/4	2,997.28	3/4	2,665.29	3/4	2,333.28	
5	5	5	5	5	5	4,228.28	5	3,939.57	5	3,636.69	5	3,319.80	5	2,990.36	5	2,658.37	5	2,326.36	
1/4	1/4	1/4	1/4	1/4	1/4	4,222.38	1/4	3,933.43	1/4	3,630.23	1/4	3,313.06	1/4	2,983.44	1/4	2,651.46	1/4	2,319.45	
1/2	1/2	1/2	1/2	1/2	1/2	4,216.48	1/2	3,927.28	1/2	3,623.77	1/2	3,306.31	1/2	2,976.53	1/2	2,644.54	1/2	2,312.53	
3/4	3/4	3/4	3/4	3/4	3/4	4,210.56	3/4	3,921.11	3/4	3,617.29	3/4	3,299.55	3/4	2,969.61	3/4	2,637.62	3/4	2,305.61	
6	6	6	6	6	6	4,204.64	6	3,914.95	6	3,610.80	6	3,292.78	6	2,962.70	6	2,630.71	6	2,298.69	
1/4	1/4	1/4	1/4	1/4	1/4	4,198.72	1/4	3,908.78	1/4	3,604.32	1/4	3,286.01	1/4	2,955.78	1/4	2,623.79	1/4	2,291.77	
1/2	1/2	1/2	1/2	1/2	1/2	4,192.79	1/2	3,902.62	1/2	3,597.83	1/2	3,279.25	1/2	2,948.86	1/2	2,616.88	1/2	2,284.86	
3/4	3/4	3/4	3/4	3/4	3/4	4,186.85	3/4	3,896.42	3/4	3,591.32	3/4	3,272.45	3/4	2,941.95	3/4	2,609.96	3/4	2,277.94	
7	7	7	7	7	7	4,180.91	7	3,890.23	7	3,584.82	7	3,265.66	7	2,935.03	7	2,603.04	7	2,271.02	
1/4	1/4	1/4	1/4	1/4	1/4	4,174.96	1/4	3,884.04	1/4	3,578.31	1/4	3,258.86	1/4	2,928.11	1/4	2,596.13	1/4	2,264.10	
1/2	1/2	1/2	1/2	1/2	1/2	4,169.02	1/2	3,877.84	1/2	3,571.80	1/2	3,252.07	1/2	2,921.20	1/2	2,589.21	1/2	2,257.19	
3/4	3/4	3/4	3/4	3/4	3/4	4,163.05	3/4	3,871.63	3/4	3,565.27	3/4	3,245.25	3/4	2,914.28	3/4	2,582.29	3/4	2,250.27	
8	8	8	8	8	8	4,157.08	8	3,865.41	8	3,558.74	8	3,238.44	8	2,907.36	8	2,575.38	8	2,243.35	
1/4	1/4	1/4	1/4	1/4	1/4	4,151.11	1/4	3,859.20	1/4	3,552.21	1/4	3,231.62	1/4	2,900.45	1/4	2,568.46	1/4	2,236.43	
1/2	1/2	1/2	1/2	1/2	1/2	4,145.14	1/2	3,852.98	1/2	3,545.69	1/2	3,224.81	1/2	2,893.53	1/2	2,561.54	1/2	2,229.52	
3/4	3/4	3/4	3/4	3/4	3/4	4,139.18	3/4	3,846.71	3/4	3,539.13	3/4	3,217.98	3/4	2,886.62	3/4	2,554.63	3/4	2,222.60	
9	9	9	9	9	9	4,133.23	9	3,840.44	9	3,532.58	9	3,211.14	9	2,879.70	9	2,547.71	9	2,215.68	
1/4	1/4	1/4	1/4	1/4	1/4	4,127.27	1/4	3,834.17	1/4	3,526.02	1/4	3,204.30	1/4	2,872.78	1/4	2,540.80	1/4	2,208.76	
1/2	1/2	1/2	1/2	1/2	1/2	4,121.31	1/2	3,827.90	1/2	3,519.46	1/2	3,197.47	1/2	2,865.87	1/2	2,533.88	1/2	2,201.84	
3/4	3/4	3/4	3/4	3/4	3/4	4,115.33	3/4	3,821.61	3/4	3,512.89	3/4	3,190.60	3/4	2,858.95	3/4	2,526.96	3/4	2,194.93	
10	10	10	10	10	10	4,109.35	10	3,815.31	10	3,506.31	10	3,183.74	10	2,852.03	10	2,520.05	10	2,188.01	
1/4	1/4	1/4	1/4	1/4	1/4	4,103.37	1/4	3,809.01	1/4	3,499.73	1/4	3,176.87	1/4	2,845.12	1/4	2,513.13	1/4	2,181.09	
1/2	1/2	1/2	1/2	1/2	1/2	4,097.39	1/2	3,802.71	1/2	3,493.16	1/2	3,170.01	1/2	2,838.20	1/2	2,506.21	1/2	2,174.17	
3/4	3/4	3/4	3/4	3/4	3/4	4,091.39	3/4	3,796.40	3/4	3,486.56	3/4	3,163.13	3/4	2,831.28	3/4	2,499.30	3/4	2,167.26	
11	11	11	11	11	11	4,085.38	11	3,790.08	11	3,479.94	11	3,156.24	11	2,824.37	11	2,492.38	11	2,160.34	
1/4	1/4	1/4	1/4	1/4	1/4	4,079.38	1/4	3,783.76	1/4	3,473.34	1/4	3,149.36	1/4	2,817.45	1/4	2,485.46	1/4	2,153.42	
1/2	1/2	1/2	1/2	1/2	1/2	4,073.37	1/2	3,777.44	1/2	3,466.73	1/2	3,142.47	1/2	2,810.53	1/2	2,478.55	1/2	2,146.50	
3/4	3/4	3/4	3/4	3/4	3/4	4,067.34	3/4	3,771.09	3/4	3,460.10	3/4	3,135.57	3/4	2,803.62	3/4	2,471.63	3/4	2,139.59	

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'-00" OFF CENTERLINE AND 36'-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 28034"

1 STBD
ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W
0	2,132.67	0	1,800.62	0	1,468.57	0	1,136.52	0	811.32	0	507.59	0	226.69	0		0		0	
1/4	2,125.75	1/4	1,793.70	1/4	1,461.65	1/4	1,129.60	1/4	804.79	1/4	501.49	1/4	221.08	1/4		1/4		1/4	
1/2	2,118.83	1/2	1,786.78	1/2	1,454.73	1/2	1,122.68	1/2	798.25	1/2	495.39	1/2	215.47	1/2		1/2		1/2	
3/4	2,111.91	3/4	1,779.86	3/4	1,447.82	3/4	1,115.77	3/4	791.75	3/4	489.33	3/4	209.91	3/4		3/4		3/4	
1	2,105.00	1	1,772.95	1	1,440.90	1	1,108.85	1	785.26	1	483.28	1	204.34	1		1		1	
1 1/4	2,098.08	1 1/4	1,766.03	1 1/4	1,433.98	1 1/4	1,101.93	1 1/4	778.76	1 1/4	477.22	1 1/4	198.78	1 1/4		1 1/4		1 1/4	
1 1/2	2,091.16	1 1/2	1,759.11	1 1/2	1,427.06	1 1/2	1,095.01	1 1/2	772.27	1 1/2	471.16	1 1/2	193.22	1 1/2		1 1/2		1 1/2	
3/2	2,084.24	3/2	1,752.19	3/2	1,420.14	3/2	1,088.10	3/2	766.81	3/2	465.15	3/2	187.69	3/2		3/2		3/2	
2	2,077.33	2	1,745.28	2	1,413.23	2	1,081.18	2	759.36	2	459.13	2	182.17	2		2		2	
2 1/4	2,070.41	2 1/4	1,738.36	2 1/4	1,406.31	2 1/4	1,074.26	2 1/4	752.90	2 1/4	453.11	2 1/4	176.64	2 1/4		2 1/4		2 1/4	
2 1/2	2,063.49	2 1/2	1,731.44	2 1/2	1,399.39	2 1/2	1,067.35	2 1/2	746.45	2 1/2	447.10	2 1/2	171.11	2 1/2		2 1/2		2 1/2	
3 1/4	2,056.57	3 1/4	1,724.52	3 1/4	1,392.47	3 1/4	1,060.44	3 1/4	740.02	3 1/4	441.12	3 1/4	165.63	3 1/4		3 1/4		3 1/4	
3	2,049.66	3	1,717.61	3	1,385.56	3	1,053.53	3	733.59	3	435.15	3	160.15	3		3		3	
3 1/4	2,042.74	3 1/4	1,710.69	3 1/4	1,378.64	3 1/4	1,046.62	3 1/4	727.16	3 1/4	429.17	3 1/4	154.67	3 1/4		3 1/4		3 1/4	
3 1/2	2,035.82	3 1/2	1,703.77	3 1/2	1,371.72	3 1/2	1,039.71	3 1/2	720.73	3 1/2	423.20	3 1/2	149.19	3 1/2		3 1/2		3 1/2	
4	2,028.90	4	1,696.85	4	1,364.80	4	1,032.82	4	714.33	4	417.26	4	143.75	4		4		4	
4 1/4	2,021.98	4 1/4	1,689.93	4 1/4	1,357.89	4 1/4	1,025.93	4 1/4	707.93	4 1/4	411.33	4 1/4	138.30	4 1/4		4 1/4		4 1/4	
4 1/2	2,015.07	4 1/2	1,683.02	4 1/2	1,350.97	4 1/2	1,019.03	4 1/2	701.53	4 1/2	405.39	4 1/2	132.86	4 1/2		4 1/2		4 1/2	
5 1/4	2,008.15	5 1/4	1,676.10	5 1/4	1,344.05	5 1/4	1,012.14	5 1/4	695.14	5 1/4	399.46	5 1/4	127.41	5 1/4		5 1/4		5 1/4	
5	2,001.23	5	1,669.18	5	1,337.13	5	1,005.30	5	688.75	5	393.57	5	122.01	5		5		5	
5 1/4	1,994.31	5 1/4	1,662.26	5 1/4	1,330.21	5 1/4	998.46	5 1/4	682.37	5 1/4	387.67	5 1/4	116.62	5 1/4		5 1/4		5 1/4	
5 1/2	1,987.40	5 1/2	1,655.35	5 1/2	1,323.30	5 1/2	991.62	5 1/2	675.98	5 1/2	381.78	5 1/2	111.22	5 1/2		5 1/2		5 1/2	
6 1/4	1,980.48	6 1/4	1,648.43	6 1/4	1,316.38	6 1/4	984.78	6 1/4	669.60	6 1/4	375.89	6 1/4	105.82	6 1/4		6 1/4		6 1/4	
6	1,973.56	6	1,641.51	6	1,309.46	6	977.98	6	663.26	6	370.04	6	100.46	6		6		6	
6 1/4	1,966.64	6 1/4	1,634.59	6 1/4	1,302.54	6 1/4	971.18	6 1/4	656.90	6 1/4	364.18	6 1/4	95.10	6 1/4		6 1/4		6 1/4	
6 1/2	1,959.73	6 1/2	1,627.68	6 1/2	1,295.63	6 1/2	964.38	6 1/2	650.56	6 1/2	358.33	6 1/2	89.74	6 1/2		6 1/2		6 1/2	
7 1/4	1,952.81	7 1/4	1,620.76	7 1/4	1,288.71	7 1/4	957.58	7 1/4	644.21	7 1/4	352.48	7 1/4	84.38	7 1/4		7 1/4		7 1/4	
7	1,945.89	7	1,613.84	7	1,281.79	7	950.84	7	637.91	7	346.67	7	79.07	7		7		7	
7 1/4	1,938.97	7 1/4	1,606.92	7 1/4	1,274.87	7 1/4	944.10	7 1/4	631.61	7 1/4	340.86	7 1/4	73.75	7 1/4		7 1/4		7 1/4	
7 1/2	1,932.05	7 1/2	1,600.00	7 1/2	1,267.96	7 1/2	937.36	7 1/2	625.31	7 1/2	335.05	7 1/2	68.44	7 1/2		7 1/2		7 1/2	
8 1/4	1,925.14	8 1/4	1,593.09	8 1/4	1,261.04	8 1/4	930.62	8 1/4	619.00	8 1/4	329.24	8 1/4	63.13	8 1/4		8 1/4		8 1/4	
8	1,918.22	8	1,586.17	8	1,254.12	8	923.92	8	612.74	8	323.47	8	57.85	8		8		8	
8 1/4	1,911.30	8 1/4	1,579.25	8 1/4	1,247.20	8 1/4	917.22	8 1/4	606.48	8 1/4	317.70	8 1/4	52.57	8 1/4		8 1/4		8 1/4	
8 1/2	1,904.38	8 1/2	1,572.33	8 1/2	1,240.28	8 1/2	910.52	8 1/2	600.21	8 1/2	311.92	8 1/2	47.30	8 1/2		8 1/2		8 1/2	
9 1/4	1,897.47	9 1/4	1,565.42	9 1/4	1,233.37	9 1/4	903.82	9 1/4	593.95	9 1/4	306.15	9 1/4	42.02	9 1/4		9 1/4		9 1/4	
9	1,890.55	9	1,558.50	9	1,226.45	9	897.16	9	587.73	9	300.42	9	37.65	9		9		9	
9 1/4	1,883.63	9 1/4	1,551.58	9 1/4	1,219.53	9 1/4	890.50	9 1/4	581.51	9 1/4	294.70	9 1/4	33.29	9 1/4		9 1/4		9 1/4	
9 1/2	1,876.71	9 1/2	1,544.66	9 1/2	1,212.61	9 1/2	883.84	9 1/2	575.29	9 1/2	288.97	9 1/2	28.92	9 1/2		9 1/2		9 1/2	
10 1/4	1,869.80	10 1/4	1,537.75	10 1/4	1,205.70	10 1/4	877.18	10 1/4	569.07	10 1/4	283.24	10 1/4	24.55	10 1/4		10 1/4		10 1/4	
10	1,862.88	10	1,530.83	10	1,198.78	10	870.56	10	562.88	10	277.55	10	21.95	10		10		10	
10 1/4	1,855.96	10 1/4	1,523.91	10 1/4	1,191.86	10 1/4	863.94	10 1/4	556.70	10 1/4	271.86	10 1/4	19.36	10 1/4		10 1/4		10 1/4	
10 1/2	1,849.04	10 1/2	1,516.99	10 1/2	1,184.94	10 1/2	857.32	10 1/2	550.52	10 1/2	266.17	10 1/2	16.76	10 1/2		10 1/2		10 1/2	
11 1/4	1,842.12	11 1/4	1,510.07	11 1/4	1,178.03	11 1/4	850.71	11 1/4	544.34	11 1/4	260.48	11 1/4	14.16	11 1/4		11 1/4		11 1/4	
11	1,835.21	11	1,503.16	11	1,171.11	11	844.13	11	538.20	11	254.84	11		11		11		11	
11 1/4	1,828.29	11 1/4	1,496.24	11 1/4	1,164.19	11 1/4	837.55	11 1/4	532.06	11 1/4	249.19	11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	1,821.37	11 1/2	1,489.32	11 1/2	1,157.27	11 1/2	830.98	11 1/2	525.93	11 1/2	243.55	11 1/2		11 1/2		11 1/2		11 1/2	
12 1/4	1,814.45	12 1/4	1,482.40	12 1/4	1,150.35	12 1/4	824.40	12 1/4	519.79	12 1/4	237.90	12 1/4		12 1/4		12 1/4		12 1/4	
12	1,807.54	12	1,475.49	12	1,143.44	12	817.86	12	513.69	12	232.29	12		12		12		12	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 09/23/2004 CL - SW
CALCULATED: 09/24/2004 CL
PRINTED: 09/24/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28034"

2 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-10 1/4"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U S GALLONS

	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	0	0	5,266.68	4,915.52	4,569.38	4,205.07	3,824.92	3,436.72	3,048.51
1/4	1/4	1/4	1/4	5,260.61	4,908.50	4,561.95	4,197.33	3,816.84	3,428.63	3,040.43
1/2	1/2	1/2	1/2	5,252.52	4,901.45	4,554.51	4,189.55	3,808.76	3,420.55	3,032.33
3/4	3/4	3/4	3/4	5,244.43	4,894.40	4,547.06	4,181.78	3,800.67	3,412.46	3,024.24
1	1	1	1	5,236.34	4,887.35	4,539.62	4,174.01	3,792.58	3,404.37	3,016.15
1 1/4	1 1/4	1 1/4	1 1/4	5,228.25	4,880.30	4,532.17	4,166.24	3,784.49	3,396.28	3,008.06
1 1/2	1 1/2	1 1/2	1 1/2	5,220.16	4,873.23	4,524.70	4,158.43	3,776.41	3,388.20	2,999.97
1 3/4	1 3/4	1 3/4	1 3/4	5,212.07	4,866.16	4,517.23	4,150.62	3,768.32	3,380.11	2,991.88
2	2	2	2	5,203.98	4,859.08	4,509.76	4,142.82	3,760.23	3,372.02	2,983.79
2 1/4	2 1/4	2 1/4	2 1/4	5,195.89	4,852.01	4,502.29	4,135.01	3,752.14	3,363.93	2,975.70
2 1/2	2 1/2	2 1/2	2 1/2	5,187.80	4,844.92	4,494.79	4,127.18	3,744.06	3,355.85	2,967.61
2 3/4	2 3/4	2 3/4	2 3/4	5,179.71	4,837.82	4,487.28	4,119.35	3,735.97	3,347.76	2,959.52
3	3	3	3	5,171.62	4,830.72	4,479.78	4,111.52	3,727.88	3,339.67	2,951.43
3 1/4	3 1/4	3 1/4	3 1/4	5,163.53	4,823.62	4,472.27	4,103.70	3,719.79	3,331.58	2,943.34
3 1/2	3 1/2	3 1/2	3 1/2	5,155.44	4,816.49	4,464.75	4,095.84	3,711.70	3,323.49	2,935.25
3 3/4	3 3/4	3 3/4	3 3/4	5,147.35	4,809.36	4,457.22	4,087.99	3,703.62	3,315.41	2,927.16
4	4	4	4	5,139.26	4,802.23	4,449.69	4,080.13	3,695.53	3,307.32	2,919.07
4 1/4	4 1/4	4 1/4	4 1/4	5,131.17	4,795.10	4,442.17	4,072.28	3,687.44	3,299.23	2,910.98
4 1/2	4 1/2	4 1/2	4 1/2	5,124.27	4,787.95	4,434.61	4,064.39	3,679.35	3,291.14	2,902.89
4 3/4	4 3/4	4 3/4	4 3/4	5,117.37	4,780.79	4,427.06	4,056.50	3,671.27	3,283.06	2,894.80
5	5	5	5	5,110.46	4,773.64	4,419.51	4,048.62	3,663.18	3,274.97	2,886.71
5 1/4	5 1/4	5 1/4	5 1/4	5,103.56	4,766.49	4,411.96	4,040.73	3,655.09	3,266.88	2,878.62
5 1/2	5 1/2	5 1/2	5 1/2	5,096.64	4,759.31	4,404.37	4,032.82	3,647.00	3,258.79	2,870.53
5 3/4	5 3/4	5 3/4	5 3/4	5,089.71	4,752.13	4,396.79	4,024.91	3,638.91	3,250.71	2,862.44
6	6	6	6	5,082.79	4,744.95	4,389.20	4,017.00	3,630.83	3,242.62	2,854.35
6 1/4	6 1/4	6 1/4	6 1/4	5,075.86	4,737.77	4,381.62	4,009.09	3,622.74	3,234.53	2,846.26
6 1/2	6 1/2	6 1/2	6 1/2	5,068.91	4,730.56	4,374.01	4,001.14	3,614.65	3,226.44	2,838.17
6 3/4	6 3/4	6 3/4	6 3/4	5,061.96	4,723.35	4,366.40	3,993.19	3,606.56	3,218.35	2,830.08
7	7	7	7	5,055.01	4,716.14	4,358.79	3,985.25	3,598.48	3,210.27	2,821.99
7 1/4	7 1/4	7 1/4	7 1/4	5,048.06	4,708.93	4,351.18	3,977.30	3,590.39	3,202.18	2,813.90
7 1/2	7 1/2	7 1/2	7 1/2	5,041.08	4,701.69	4,343.55	3,969.33	3,582.30	3,194.09	2,805.81
7 3/4	7 3/4	7 3/4	7 3/4	5,034.09	4,694.45	4,335.91	3,961.36	3,574.21	3,186.00	2,797.72
8	8	8	8	5,027.11	4,687.22	4,328.28	3,953.40	3,566.13	3,177.92	2,789.63
8 1/4	8 1/4	8 1/4	8 1/4	5,020.13	4,679.98	4,320.64	3,945.43	3,558.04	3,169.83	2,781.54
8 1/2	8 1/2	8 1/2	8 1/2	5,013.19	4,672.65	4,312.98	3,937.43	3,549.95	3,161.74	2,773.45
8 3/4	8 3/4	8 3/4	8 3/4	5,006.26	4,665.32	4,305.31	3,929.44	3,541.86	3,153.65	2,765.35
9	9	9	9	4,999.32	4,657.99	4,297.65	3,921.45	3,533.77	3,145.57	2,757.26
9 1/4	9 1/4	9 1/4	9 1/4	4,992.39	4,650.65	4,289.98	3,913.45	3,525.69	3,137.48	2,749.17
9 1/2	9 1/2	9 1/2	9 1/2	4,985.42	4,643.29	4,282.29	3,905.43	3,517.60	3,129.39	2,741.08
9 3/4	9 3/4	9 3/4	9 3/4	4,978.46	4,635.93	4,274.60	3,897.40	3,509.51	3,121.30	2,732.99
10	10	10	10	4,971.50	4,628.56	4,266.91	3,889.37	3,501.42	3,113.21	2,724.90
10 1/4	10 1/4	10 1/4	10 1/4	4,964.54	4,621.20	4,259.22	3,881.35	3,493.34	3,105.13	2,716.81
10 1/2	10 1/2	10 1/2	10 1/2	4,957.55	4,613.81	4,251.49	3,873.30	3,485.25	3,097.04	2,708.72
10 3/4	10 3/4	10 3/4	10 3/4	4,950.56	4,606.42	4,243.77	3,865.26	3,477.16	3,088.95	2,700.63
11	11	11	11	4,943.56	4,599.03	4,236.04	3,857.20	3,469.07	3,080.86	2,692.54
11 1/4	11 1/4	11 1/4	11 1/4	4,936.57	4,591.64	4,228.32	3,849.15	3,460.99	3,072.78	2,684.45
11 1/2	11 1/2	11 1/2	11 1/2	4,929.55	4,584.22	4,220.57	3,841.07	3,452.90	3,064.69	2,676.36
11 3/4	11 3/4	11 3/4	11 3/4	5,272.75	4,922.53	4,576.80	4,212.82	3,833.00	3,444.81	2,668.27

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28034"

2 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-10 1/4"

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

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W
0	2,660.18	0	2,271.85	0	1,883.51	0	1,495.18	0	1,106.84	0	719.02	0	331.28	0		0		0	
1/4	2,652.09	1/4	2,263.76	1/4	1,875.42	1/4	1,487.09	1/4	1,098.75	1/4	710.96	1/4	323.20	1/4		1/4		1/4	
1/2	2,644.00	1/2	2,255.67	1/2	1,867.33	1/2	1,479.00	1/2	1,090.66	1/2	702.89	1/2	315.12	1/2		1/2		1/2	
3/4	2,635.91	3/4	2,247.58	3/4	1,859.24	3/4	1,470.91	3/4	1,082.57	3/4	694.83	3/4	307.03	3/4		3/4		3/4	
1	2,627.82	1	2,239.49	1	1,851.15	1	1,462.82	1	1,074.48	1	686.76	1	298.95	1		1		1	
1 1/4	2,619.73	1 1/4	2,231.40	1 1/4	1,843.06	1 1/4	1,454.73	1 1/4	1,066.39	1 1/4	678.69	1 1/4	290.87	1 1/4		1 1/4		1 1/4	
1 1/2	2,611.64	1 1/2	2,223.30	1 1/2	1,834.97	1 1/2	1,446.64	1 1/2	1,058.30	1 1/2	670.63	1 1/2	282.79	1 1/2		1 1/2		1 1/2	
3/4	2,603.55	3/4	2,215.21	3/4	1,826.88	3/4	1,438.55	3/4	1,050.21	3/4	662.56	3/4	274.71	3/4		3/4		3/4	
2	2,595.46	2	2,207.12	2	1,818.79	2	1,430.46	2	1,042.12	2	654.50	2	266.63	2		2		2	
1 1/4	2,587.37	1 1/4	2,199.03	1 1/4	1,810.70	1 1/4	1,422.37	1 1/4	1,034.03	1 1/4	646.43	1 1/4	258.55	1 1/4		1 1/4		1 1/4	
1 1/2	2,579.28	1 1/2	2,190.94	1 1/2	1,802.61	1 1/2	1,414.27	1 1/2	1,025.94	1 1/2	638.36	1 1/2	250.46	1 1/2		1 1/2		1 1/2	
3/4	2,571.19	3/4	2,182.85	3/4	1,794.52	3/4	1,406.18	3/4	1,017.85	3/4	630.28	3/4	242.38	3/4		3/4		3/4	
3	2,563.10	3	2,174.76	3	1,786.43	3	1,398.09	3	1,009.76	3	622.21	3	234.30	3		3		3	
1 1/4	2,555.01	1 1/4	2,166.67	1 1/4	1,778.34	1 1/4	1,390.00	1 1/4	1,001.67	1 1/4	614.14	1 1/4	226.22	1 1/4		1 1/4		1 1/4	
1 1/2	2,546.92	1 1/2	2,158.58	1 1/2	1,770.25	1 1/2	1,381.91	1 1/2	993.58	1 1/2	606.05	1 1/2	218.14	1 1/2		1 1/2		1 1/2	
3/4	2,538.83	3/4	2,150.49	3/4	1,762.16	3/4	1,373.82	3/4	985.49	3/4	597.97	3/4	210.06	3/4		3/4		3/4	
4	2,530.74	4	2,142.40	4	1,754.07	4	1,365.73	4	977.40	4	589.89	4	201.97	4		4		4	
1 1/4	2,522.65	1 1/4	2,134.31	1 1/4	1,745.98	1 1/4	1,357.64	1 1/4	969.31	1 1/4	581.81	1 1/4	193.89	1 1/4		1 1/4		1 1/4	
1 1/2	2,514.56	1 1/2	2,126.22	1 1/2	1,737.89	1 1/2	1,349.55	1 1/2	961.22	1 1/2	573.73	1 1/2	185.81	1 1/2		1 1/2		1 1/2	
3/4	2,506.47	3/4	2,118.13	3/4	1,729.80	3/4	1,341.46	3/4	953.13	3/4	565.65	3/4	177.73	3/4		3/4		3/4	
5	2,498.38	5	2,110.04	5	1,721.71	5	1,333.37	5	945.04	5	557.56	5	169.65	5		5		5	
1 1/4	2,490.28	1 1/4	2,101.95	1 1/4	1,713.62	1 1/4	1,325.28	1 1/4	936.95	1 1/4	549.48	1 1/4	161.57	1 1/4		1 1/4		1 1/4	
1 1/2	2,482.19	1 1/2	2,093.86	1 1/2	1,705.53	1 1/2	1,317.19	1 1/2	928.86	1 1/2	541.40	1 1/2	153.48	1 1/2		1 1/2		1 1/2	
3/4	2,474.10	3/4	2,085.77	3/4	1,697.44	3/4	1,309.10	3/4	920.77	3/4	533.32	3/4	145.40	3/4		3/4		3/4	
6	2,466.01	6	2,077.68	6	1,689.35	6	1,301.01	6	912.68	6	525.24	6	137.32	6		6		6	
1 1/4	2,457.92	1 1/4	2,069.59	1 1/4	1,681.26	1 1/4	1,292.92	1 1/4	904.59	1 1/4	517.16	1 1/4	129.24	1 1/4		1 1/4		1 1/4	
1 1/2	2,449.83	1 1/2	2,061.50	1 1/2	1,673.16	1 1/2	1,284.83	1 1/2	896.51	1 1/2	509.07	1 1/2	121.16	1 1/2		1 1/2		1 1/2	
3/4	2,441.74	3/4	2,053.41	3/4	1,665.07	3/4	1,276.74	3/4	888.43	3/4	500.99	3/4	113.08	3/4		3/4		3/4	
7	2,433.65	7	2,045.32	7	1,656.98	7	1,268.65	7	880.35	7	492.91	7	104.99	7		7		7	
1 1/4	2,425.56	1 1/4	2,037.23	1 1/4	1,648.89	1 1/4	1,260.56	1 1/4	872.27	1 1/4	484.83	1 1/4	96.91	1 1/4		1 1/4		1 1/4	
1 1/2	2,417.47	1 1/2	2,029.14	1 1/2	1,640.80	1 1/2	1,252.47	1 1/2	864.21	1 1/2	476.75	1 1/2	88.83	1 1/2		1 1/2		1 1/2	
3/4	2,409.38	3/4	2,021.05	3/4	1,632.71	3/4	1,244.38	3/4	856.14	3/4	468.67	3/4	80.75	3/4		3/4		3/4	
8	2,401.29	8	2,012.96	8	1,624.62	8	1,236.29	8	848.08	8	460.59	8	72.67	8		8		8	
1 1/4	2,393.20	1 1/4	2,004.87	1 1/4	1,616.53	1 1/4	1,228.20	1 1/4	840.01	1 1/4	452.50	1 1/4	64.59	1 1/4		1 1/4		1 1/4	
1 1/2	2,385.11	1 1/2	1,996.78	1 1/2	1,608.44	1 1/2	1,220.11	1 1/2	831.94	1 1/2	444.42	1 1/2	57.52	1 1/2		1 1/2		1 1/2	
3/4	2,377.02	3/4	1,988.69	3/4	1,600.35	3/4	1,212.02	3/4	823.86	3/4	436.34	3/4	50.44	3/4		3/4		3/4	
9	2,368.93	9	1,980.60	9	1,592.26	9	1,203.93	9	815.81	9	428.26	9	43.37	9		9		9	
1 1/4	2,360.84	1 1/4	1,972.51	1 1/4	1,584.17	1 1/4	1,195.84	1 1/4	807.75	1 1/4	420.18	1 1/4	36.30	1 1/4		1 1/4		1 1/4	
1 1/2	2,352.75	1 1/2	1,964.42	1 1/2	1,576.08	1 1/2	1,187.75	1 1/2	799.68	1 1/2	412.10	1 1/2	31.25	1 1/2		1 1/2		1 1/2	
3/4	2,344.66	3/4	1,956.33	3/4	1,567.99	3/4	1,179.66	3/4	791.62	3/4	404.01	3/4	26.21	3/4		3/4		3/4	
10	2,336.57	10	1,948.23	10	1,559.90	10	1,171.57	10	783.55	10	395.93	10	21.16	10		10		10	
1 1/4	2,328.48	1 1/4	1,940.14	1 1/4	1,551.81	1 1/4	1,163.48	1 1/4	775.48	1 1/4	387.85	1 1/4	16.11	1 1/4		1 1/4		1 1/4	
1 1/2	2,320.39	1 1/2	1,932.05	1 1/2	1,543.72	1 1/2	1,155.39	1 1/2	767.42	1 1/2	379.77	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,312.30	3/4	1,923.96	3/4	1,535.63	3/4	1,147.29	3/4	759.35	3/4	371.69	3/4		3/4		3/4		3/4	
11	2,304.21	11	1,915.87	11	1,527.54	11	1,139.20	11	751.29	11	363.61	11		11		11		11	
1 1/4	2,296.12	1 1/4	1,907.78	1 1/4	1,519.45	1 1/4	1,131.11	1 1/4	743.22	1 1/4	355.52	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,288.03	1 1/2	1,899.69	1 1/2	1,511.36	1 1/2	1,123.02	1 1/2	735.15	1 1/2	347.44	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,279.94	3/4	1,891.60	3/4	1,503.27	3/4	1,114.93	3/4	727.09	3/4	339.36	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 09/23/2004 CL - SW
CALCULATED: 09/24/2004 CL
PRINTED: 09/24/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28034"

2 STBD
ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,644.39	0	2,256.33	0	1,868.27	0	1,480.22	0	1,092.16	0	713.59	0	331.75	0		0		0	
1/4	2,636.30	1/4	2,248.25	1/4	1,860.19	1/4	1,472.13	1/4	1,084.08	1/4	705.84	1/4	323.66	1/4		1/4		1/4	
1/2	2,628.22	1/2	2,240.16	1/2	1,852.10	1/2	1,464.05	1/2	1,075.99	1/2	698.09	1/2	315.58	1/2		1/2		1/2	
3/4	2,620.13	3/4	2,232.08	3/4	1,844.02	3/4	1,455.96	3/4	1,067.91	3/4	690.34	3/4	307.49	3/4		3/4		3/4	
1	2,612.05	1	2,223.99	1	1,835.94	1	1,447.88	1	1,059.82	1	682.59	1	299.41	1		1		1	
1/4	2,603.96	1/4	2,215.91	1/4	1,827.85	1/4	1,439.80	1/4	1,051.74	1/4	674.84	1/4	291.33	1/4		1/4		1/4	
1/2	2,595.88	1/2	2,207.82	1/2	1,819.77	1/2	1,431.71	1/2	1,043.65	1/2	667.10	1/2	283.24	1/2		1/2		1/2	
3/4	2,587.79	3/4	2,199.74	3/4	1,811.68	3/4	1,423.63	3/4	1,035.57	3/4	659.35	3/4	275.16	3/4		3/4		3/4	
2	2,579.71	2	2,191.65	2	1,803.60	2	1,415.54	2	1,027.49	2	651.60	2	267.08	2		2		2	
1/4	2,571.63	1/4	2,183.57	1/4	1,795.51	1/4	1,407.46	1/4	1,019.40	1/4	643.85	1/4	258.99	1/4		1/4		1/4	
1/2	2,563.54	1/2	2,175.48	1/2	1,787.43	1/2	1,399.37	1/2	1,011.32	1/2	636.09	1/2	250.91	1/2		1/2		1/2	
3/4	2,555.46	3/4	2,167.40	3/4	1,779.34	3/4	1,391.29	3/4	1,003.23	3/4	628.33	3/4	242.83	3/4		3/4		3/4	
3	2,547.37	3	2,159.32	3	1,771.26	3	1,383.20	3	995.15	3	620.57	3	234.74	3		3		3	
1/4	2,539.29	1/4	2,151.23	1/4	1,763.18	1/4	1,375.12	1/4	987.06	1/4	612.82	1/4	226.66	1/4		1/4		1/4	
1/2	2,531.20	1/2	2,143.15	1/2	1,755.09	1/2	1,367.03	1/2	978.98	1/2	605.04	1/2	218.58	1/2		1/2		1/2	
3/4	2,523.12	3/4	2,135.06	3/4	1,747.01	3/4	1,358.95	3/4	970.89	3/4	597.27	3/4	210.49	3/4		3/4		3/4	
4	2,515.03	4	2,126.98	4	1,738.92	4	1,350.87	4	962.81	4	589.50	4	202.41	4		4		4	
1/4	2,506.95	1/4	2,118.89	1/4	1,730.84	1/4	1,342.78	1/4	954.73	1/4	581.72	1/4	194.32	1/4		1/4		1/4	
1/2	2,498.86	1/2	2,110.81	1/2	1,722.75	1/2	1,334.70	1/2	946.79	1/2	573.79	1/2	186.24	1/2		1/2		1/2	
3/4	2,490.78	3/4	2,102.72	3/4	1,714.67	3/4	1,326.61	3/4	938.86	3/4	565.86	3/4	178.16	3/4		3/4		3/4	
5	2,482.70	5	2,094.64	5	1,706.58	5	1,318.53	5	930.93	5	557.93	5	170.07	5		5		5	
1/4	2,474.61	1/4	2,086.56	1/4	1,698.50	1/4	1,310.44	1/4	923.00	1/4	550.00	1/4	161.99	1/4		1/4		1/4	
1/2	2,466.53	1/2	2,078.47	1/2	1,690.41	1/2	1,302.36	1/2	915.22	1/2	541.92	1/2	153.91	1/2		1/2		1/2	
3/4	2,458.44	3/4	2,070.39	3/4	1,682.33	3/4	1,294.27	3/4	907.45	3/4	533.84	3/4	145.82	3/4		3/4		3/4	
6	2,450.36	6	2,062.30	6	1,674.25	6	1,286.19	6	899.67	6	525.75	6	137.74	6		6		6	
1/4	2,442.27	1/4	2,054.22	1/4	1,666.16	1/4	1,278.11	1/4	891.90	1/4	517.67	1/4	129.66	1/4		1/4		1/4	
1/2	2,434.19	1/2	2,046.13	1/2	1,658.08	1/2	1,270.02	1/2	884.13	1/2	509.58	1/2	121.57	1/2		1/2		1/2	
3/4	2,426.10	3/4	2,038.05	3/4	1,649.99	3/4	1,261.94	3/4	876.37	3/4	501.50	3/4	113.49	3/4		3/4		3/4	
7	2,418.02	7	2,029.96	7	1,641.91	7	1,253.85	7	868.61	7	493.42	7	105.40	7		7		7	
1/4	2,409.94	1/4	2,021.88	1/4	1,633.82	1/4	1,245.77	1/4	860.85	1/4	485.33	1/4	97.32	1/4		1/4		1/4	
1/2	2,401.85	1/2	2,013.79	1/2	1,625.74	1/2	1,237.68	1/2	853.10	1/2	477.25	1/2	89.24	1/2		1/2		1/2	
3/4	2,393.77	3/4	2,005.71	3/4	1,617.65	3/4	1,229.60	3/4	845.35	3/4	469.17	3/4	81.15	3/4		3/4		3/4	
8	2,385.68	8	1,997.63	8	1,609.57	8	1,221.51	8	837.60	8	461.08	8	73.07	8		8		8	
1/4	2,377.60	1/4	1,989.54	1/4	1,601.49	1/4	1,213.43	1/4	829.85	1/4	453.00	1/4	64.99	1/4		1/4		1/4	
1/2	2,369.51	1/2	1,981.46	1/2	1,593.40	1/2	1,205.34	1/2	822.10	1/2	444.92	1/2	57.91	1/2		1/2		1/2	
3/4	2,361.43	3/4	1,973.37	3/4	1,585.32	3/4	1,197.26	3/4	814.35	3/4	436.83	3/4	50.84	3/4		3/4		3/4	
9	2,353.34	9	1,965.29	9	1,577.23	9	1,189.18	9	806.60	9	428.75	9	43.76	9		9		9	
1/4	2,345.26	1/4	1,957.20	1/4	1,569.15	1/4	1,181.09	1/4	798.85	1/4	420.67	1/4	36.69	1/4		1/4		1/4	
1/2	2,337.17	1/2	1,949.12	1/2	1,561.06	1/2	1,173.01	1/2	791.10	1/2	412.58	1/2	31.64	1/2		1/2		1/2	
3/4	2,329.09	3/4	1,941.03	3/4	1,552.98	3/4	1,164.92	3/4	783.34	3/4	404.50	3/4	26.58	3/4		3/4		3/4	
10	2,321.01	10	1,932.95	10	1,544.89	10	1,156.84	10	775.59	10	396.41	10	21.53	10		10		10	
1/4	2,312.92	1/4	1,924.87	1/4	1,536.81	1/4	1,148.75	1/4	767.84	1/4	388.33	1/4	16.48	1/4		1/4		1/4	
1/2	2,304.84	1/2	1,916.78	1/2	1,528.72	1/2	1,140.67	1/2	760.09	1/2	380.25	1/2		1/2		1/2		1/2	
3/4	2,296.75	3/4	1,908.70	3/4	1,520.64	3/4	1,132.58	3/4	752.34	3/4	372.16	3/4		3/4		3/4		3/4	
11	2,288.67	11	1,900.61	11	1,512.56	11	1,124.50	11	744.59	11	364.08	11		11		11		11	
1/4	2,280.58	1/4	1,892.53	1/4	1,504.47	1/4	1,116.42	1/4	736.84	1/4	356.00	1/4		1/4		1/4		1/4	
1/2	2,272.50	1/2	1,884.44	1/2	1,496.39	1/2	1,108.33	1/2	729.09	1/2	347.91	1/2		1/2		1/2		1/2	
3/4	2,264.41	3/4	1,876.36	3/4	1,488.30	3/4	1,100.25	3/4	721.34	3/4	339.83	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 09/23/2004 CL - SW
CALCULATED: 09/24/2004 CL
PRINTED: 09/24/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28034"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,474.41	0	2,113.35	0	1,752.28	0	1,391.22	0	1,030.43	0	669.90	0	308.84	0		0			
1/4	2,466.89	1/4	2,105.83	1/4	1,744.76	1/4	1,383.70	1/4	1,022.93	1/4	662.37	1/4	301.32	1/4		1/4			
1/2	2,459.37	1/2	2,098.30	1/2	1,737.24	1/2	1,376.17	1/2	1,015.43	1/2	654.85	1/2	293.80	1/2		1/2			
3/4	2,451.85	3/4	2,090.78	3/4	1,729.72	3/4	1,368.65	3/4	1,007.94	3/4	647.33	3/4	286.28	3/4		3/4			
1	2,444.33	1	2,083.26	1	1,722.19	1	1,361.13	1	1,000.44	1	639.81	1	278.76	1		1			
1 1/4	2,436.80	1 1/4	2,075.74	1 1/4	1,714.67	1 1/4	1,353.61	1 1/4	992.94	1 1/4	632.29	1 1/4	271.23	1 1/4		1 1/4			
1 1/2	2,429.28	1 1/2	2,068.22	1 1/2	1,707.15	1 1/2	1,346.08	1 1/2	985.44	1 1/2	624.76	1 1/2	263.71	1 1/2		1 1/2			
3/2	2,421.76	3/2	2,060.69	3/2	1,699.63	3/2	1,338.56	3/2	977.95	3/2	617.24	3/2	256.19	3/2		3/2			
2	2,414.24	2	2,053.17	2	1,692.11	2	1,331.04	2	970.45	2	609.72	2	248.67	2		2			
2 1/4	2,406.72	2 1/4	2,045.65	2 1/4	1,684.58	2 1/4	1,323.52	2 1/4	962.95	2 1/4	602.20	2 1/4	241.15	2 1/4		2 1/4			
2 1/2	2,399.19	2 1/2	2,038.13	2 1/2	1,677.06	2 1/2	1,316.00	2 1/2	955.46	2 1/2	594.68	2 1/2	233.62	2 1/2		2 1/2			
5/2	2,391.67	5/2	2,030.61	5/2	1,669.54	5/2	1,308.47	5/2	947.96	5/2	587.16	5/2	226.10	5/2		5/2			
3	2,384.15	3	2,023.08	3	1,662.02	3	1,300.95	3	940.46	3	579.63	3	218.58	3		3			
3 1/4	2,376.63	3 1/4	2,015.56	3 1/4	1,654.50	3 1/4	1,293.43	3 1/4	932.96	3 1/4	572.11	3 1/4	211.06	3 1/4		3 1/4			
3 1/2	2,369.10	3 1/2	2,008.04	3 1/2	1,646.97	3 1/2	1,285.91	3 1/2	925.47	3 1/2	564.59	3 1/2	203.54	3 1/2		3 1/2			
4	2,361.58	4	2,000.52	4	1,639.45	4	1,278.39	4	917.97	4	557.07	4	196.02	4		4			
4 1/4	2,354.06	4 1/4	1,992.99	4 1/4	1,631.93	4 1/4	1,270.86	4 1/4	910.47	4 1/4	549.54	4 1/4	188.49	4 1/4		4 1/4			
4 1/2	2,346.54	4 1/2	1,985.47	4 1/2	1,624.41	4 1/2	1,263.34	4 1/2	902.98	4 1/2	542.02	4 1/2	180.97	4 1/2		4 1/2			
5 1/2	2,339.02	5 1/2	1,977.95	5 1/2	1,616.88	5 1/2	1,255.82	5 1/2	895.48	5 1/2	534.50	5 1/2	173.45	5 1/2		5 1/2			
6	2,331.49	6	1,970.43	6	1,609.36	6	1,248.30	6	887.98	6	526.98	6	165.93	6		6			
6 1/4	2,323.97	6 1/4	1,962.91	6 1/4	1,601.84	6 1/4	1,240.77	6 1/4	880.48	6 1/4	519.46	6 1/4	158.41	6 1/4		6 1/4			
6 1/2	2,316.45	6 1/2	1,955.38	6 1/2	1,594.32	6 1/2	1,233.25	6 1/2	872.99	6 1/2	511.94	6 1/2	150.88	6 1/2		6 1/2			
7 1/2	2,308.93	7 1/2	1,947.86	7 1/2	1,586.80	7 1/2	1,225.73	7 1/2	865.46	7 1/2	504.41	7 1/2	143.36	7 1/2		7 1/2			
8	2,301.40	8	1,940.34	8	1,579.27	8	1,218.21	8	857.94	8	496.89	8	135.84	8		8			
8 1/4	2,293.88	8 1/4	1,932.82	8 1/4	1,571.75	8 1/4	1,210.69	8 1/4	850.42	8 1/4	489.37	8 1/4	128.32	8 1/4		8 1/4			
8 1/2	2,286.36	8 1/2	1,925.29	8 1/2	1,564.23	8 1/2	1,203.16	8 1/2	842.90	8 1/2	481.86	8 1/2	120.80	8 1/2		8 1/2			
9 1/2	2,278.84	9 1/2	1,917.77	9 1/2	1,556.71	9 1/2	1,195.64	9 1/2	835.38	9 1/2	474.33	9 1/2	113.27	9 1/2		9 1/2			
10	2,271.32	10	1,910.25	10	1,549.18	10	1,188.12	10	827.85	10	466.80	10	105.75	10		10			
10 1/4	2,263.79	10 1/4	1,902.73	10 1/4	1,541.66	10 1/4	1,180.60	10 1/4	820.33	10 1/4	459.28	10 1/4	98.23	10 1/4		10 1/4			
10 1/2	2,256.27	10 1/2	1,895.21	10 1/2	1,534.14	10 1/2	1,173.07	10 1/2	812.81	10 1/2	451.76	10 1/2	90.71	10 1/2		10 1/2			
11 1/2	2,248.75	11 1/2	1,887.68	11 1/2	1,526.62	11 1/2	1,165.55	11 1/2	805.29	11 1/2	444.24	11 1/2	83.19	11 1/2		11 1/2			
12	2,241.23	12	1,880.16	12	1,519.10	12	1,158.03	12	797.77	12	436.72	12	75.66	12		12			
12 1/4	2,233.70	12 1/4	1,872.64	12 1/4	1,511.57	12 1/4	1,150.51	12 1/4	790.25	12 1/4	429.19	12 1/4	68.14	12 1/4		12 1/4			
12 1/2	2,226.18	12 1/2	1,865.12	12 1/2	1,504.05	12 1/2	1,142.99	12 1/2	782.72	12 1/2	421.67	12 1/2	60.62	12 1/2		12 1/2			
13 1/2	2,218.66	13 1/2	1,857.59	13 1/2	1,496.53	13 1/2	1,135.46	13 1/2	775.20	13 1/2	414.15	13 1/2	53.10	13 1/2		13 1/2			
14	2,211.14	14	1,850.07	14	1,489.01	14	1,127.94	14	767.68	14	406.63	14	45.58	14		14			
14 1/4	2,203.62	14 1/4	1,842.55	14 1/4	1,481.48	14 1/4	1,120.42	14 1/4	760.16	14 1/4	399.11	14 1/4	38.06	14 1/4		14 1/4			
14 1/2	2,196.09	14 1/2	1,835.03	14 1/2	1,473.96	14 1/2	1,112.90	14 1/2	752.64	14 1/2	391.58	14 1/2	30.54	14 1/2		14 1/2			
15 1/2	2,188.57	15 1/2	1,827.51	15 1/2	1,466.44	15 1/2	1,105.40	15 1/2	745.11	15 1/2	384.06	15 1/2	23.02	15 1/2		15 1/2			
16	2,181.05	16	1,819.98	16	1,458.92	16	1,097.90	16	737.59	16	376.54	16	15.50	16		16			
16 1/4	2,173.53	16 1/4	1,812.46	16 1/4	1,451.40	16 1/4	1,090.41	16 1/4	730.07	16 1/4	369.02	16 1/4	8.98	16 1/4		16 1/4			
16 1/2	2,166.00	16 1/2	1,804.94	16 1/2	1,443.87	16 1/2	1,082.91	16 1/2	722.55	16 1/2	361.50	16 1/2	1.46	16 1/2		16 1/2			
17 1/2	2,158.48	17 1/2	1,797.42	17 1/2	1,436.35	17 1/2	1,075.41	17 1/2	715.03	17 1/2	353.98	17 1/2		17 1/2		17 1/2			
18	2,150.96	18	1,789.89	18	1,428.83	18	1,067.91	18	707.50	18	346.45	18		18		18			
18 1/4	2,143.44	18 1/4	1,782.37	18 1/4	1,421.31	18 1/4	1,060.42	18 1/4	699.98	18 1/4	338.93	18 1/4		18 1/4		18 1/4			
18 1/2	2,135.92	18 1/2	1,774.85	18 1/2	1,413.78	18 1/2	1,052.92	18 1/2	692.46	18 1/2	331.41	18 1/2		18 1/2		18 1/2			
19 1/2	2,128.39	19 1/2	1,767.33	19 1/2	1,406.26	19 1/2	1,045.42	19 1/2	684.94	19 1/2	323.89	19 1/2		19 1/2		19 1/2			
20	2,120.87	20	1,759.81	20	1,398.74	20	1,037.92	20	677.42	20	316.37	20		20		20			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2004 CL - SW
CALCULATED: 09/24/2004 CL
PRINTED: 09/24/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2004

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



BARGE "KIRBY 28034"

3 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 1/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	2,454.79	0	2,094.24	0	1,736.69	0	1,376.12	0	1,019.25	0	665.89	0	308.86	0		0			
1/4	2,447.28	1/4	2,086.73	1/4	1,729.26	1/4	1,368.61	1/4	1,011.88	1/4	658.54	1/4	301.34	1/4		1/4			
1/2	2,439.77	1/2	2,079.28	1/2	1,721.73	1/2	1,361.09	1/2	1,004.51	1/2	651.20	1/2	293.83	1/2		1/2			
3/4	2,432.26	3/4	2,071.83	3/4	1,714.22	3/4	1,353.58	3/4	997.14	3/4	643.85	3/4	286.31	3/4		3/4			
1	2,424.75	1	2,064.38	1	1,706.71	1	1,346.07	1	989.77	1	636.51	1	278.80	1		1			
1/4	2,417.24	1/4	2,056.94	1/4	1,699.19	1/4	1,338.55	1/4	982.40	1/4	629.16	1/4	271.29	1/4		1/4			
1/2	2,409.73	1/2	2,049.49	1/2	1,691.68	1/2	1,331.04	1/2	975.03	1/2	621.82	1/2	263.77	1/2		1/2			
3/4	2,402.22	3/4	2,042.04	3/4	1,684.17	3/4	1,323.53	3/4	967.66	3/4	614.47	3/4	256.26	3/4		3/4			
2	2,394.72	2	2,034.59	2	1,676.65	2	1,316.01	2	960.29	2	607.13	2	248.74	2		2			
1/4	2,387.21	1/4	2,027.15	1/4	1,669.14	1/4	1,308.50	1/4	952.92	1/4	599.78	1/4	241.23	1/4		1/4			
1/2	2,379.70	1/2	2,019.70	1/2	1,661.63	1/2	1,300.99	1/2	945.55	1/2	592.44	1/2	233.71	1/2		1/2			
3/4	2,372.19	3/4	2,012.25	3/4	1,654.11	3/4	1,293.47	3/4	938.18	3/4	585.09	3/4	226.20	3/4		3/4			
3	2,364.68	3	2,004.80	3	1,646.60	3	1,285.96	3	930.81	3	577.75	3	218.69	3		3			
1/4	2,357.17	1/4	1,997.36	1/4	1,639.09	1/4	1,278.45	1/4	923.44	1/4	570.40	1/4	211.17	1/4		1/4			
1/2	2,349.66	1/2	1,989.91	1/2	1,631.57	1/2	1,270.93	1/2	916.07	1/2	563.04	1/2	203.65	1/2		1/2			
3/4	2,342.15	3/4	1,982.46	3/4	1,624.08	3/4	1,263.42	3/4	908.70	3/4	555.69	3/4	196.12	3/4		3/4			
4	2,334.65	4	1,975.01	4	1,616.55	4	1,255.91	4	901.33	4	548.33	4	188.59	4		4			
1/4	2,327.14	1/4	1,967.57	1/4	1,609.03	1/4	1,248.40	1/4	893.96	1/4	540.97	1/4	181.07	1/4		1/4			
1/2	2,319.63	1/2	1,960.12	1/2	1,601.52	1/2	1,240.88	1/2	886.59	1/2	533.60	1/2	173.54	1/2		1/2			
3/4	2,312.12	3/4	1,952.67	3/4	1,594.01	3/4	1,233.37	3/4	879.22	3/4	526.22	3/4	166.02	3/4		3/4			
5	2,304.61	5	1,945.22	5	1,586.49	5	1,225.86	5	871.85	5	518.85	5	158.49	5		5			
1/4	2,297.10	1/4	1,937.78	1/4	1,578.98	1/4	1,218.34	1/4	864.48	1/4	511.47	1/4	150.96	1/4		1/4			
1/2	2,289.59	1/2	1,930.33	1/2	1,571.47	1/2	1,210.97	1/2	857.10	1/2	504.03	1/2	143.44	1/2		1/2			
3/4	2,282.07	3/4	1,922.88	3/4	1,563.95	3/4	1,203.59	3/4	849.73	3/4	496.58	3/4	135.91	3/4		3/4			
6	2,274.56	6	1,915.43	6	1,556.44	6	1,196.21	6	842.35	6	489.13	6	128.39	6		6			
1/4	2,267.05	1/4	1,907.99	1/4	1,548.93	1/4	1,188.84	1/4	834.97	1/4	481.69	1/4	120.86	1/4		1/4			
1/2	2,259.53	1/2	1,900.54	1/2	1,541.41	1/2	1,181.46	1/2	827.60	1/2	474.17	1/2	113.33	1/2		1/2			
3/4	2,252.02	3/4	1,893.09	3/4	1,533.90	3/4	1,174.08	3/4	820.23	3/4	466.66	3/4	105.81	3/4		3/4			
7	2,244.51	7	1,885.64	7	1,526.39	7	1,166.70	7	812.85	7	459.14	7	98.28	7		7			
1/4	2,236.99	1/4	1,878.20	1/4	1,518.87	1/4	1,159.33	1/4	805.48	1/4	451.63	1/4	90.76	1/4		1/4			
1/2	2,229.48	1/2	1,870.75	1/2	1,511.36	1/2	1,151.95	1/2	798.12	1/2	444.11	1/2	83.23	1/2		1/2			
3/4	2,221.97	3/4	1,863.30	3/4	1,503.85	3/4	1,144.57	3/4	790.77	3/4	436.60	3/4	75.70	3/4		3/4			
8	2,214.45	8	1,855.85	8	1,496.33	8	1,137.20	8	783.41	8	429.09	8	68.18	8		8			
1/4	2,206.94	1/4	1,848.41	1/4	1,488.82	1/4	1,129.82	1/4	776.05	1/4	421.57	1/4	60.65	1/4		1/4			
1/2	2,199.43	1/2	1,840.96	1/2	1,481.31	1/2	1,122.44	1/2	768.71	1/2	414.06	1/2	54.07	1/2		1/2			
3/4	2,191.91	3/4	1,833.51	3/4	1,473.79	3/4	1,115.07	3/4	761.37	3/4	406.54	3/4	47.48	3/4		3/4			
9	2,184.40	9	1,826.06	9	1,466.28	9	1,107.69	9	754.02	9	399.03	9	40.89	9		9			
1/4	2,176.89	1/4	1,818.62	1/4	1,458.77	1/4	1,100.31	1/4	746.68	1/4	391.51	1/4	34.31	1/4		1/4			
1/2	2,169.37	1/2	1,811.17	1/2	1,451.25	1/2	1,092.94	1/2	739.34	1/2	384.00	1/2	29.60	1/2		1/2			
3/4	2,161.86	3/4	1,803.72	3/4	1,443.74	3/4	1,085.57	3/4	731.99	3/4	376.49	3/4	24.90	3/4		3/4			
10	2,154.35	10	1,796.27	10	1,436.23	10	1,078.20	10	724.65	10	368.97	10	20.20	10		10			
1/4	2,146.83	1/4	1,788.83	1/4	1,428.71	1/4	1,070.84	1/4	717.31	1/4	361.46	1/4	15.49	1/4		1/4			
1/2	2,139.32	1/2	1,781.38	1/2	1,421.20	1/2	1,063.47	1/2	709.96	1/2	353.94	1/2		1/2		1/2			
3/4	2,131.81	3/4	1,773.93	3/4	1,413.69	3/4	1,056.10	3/4	702.62	3/4	346.43	3/4		3/4		3/4			
11	2,124.29	11	1,766.48	11	1,406.17	11	1,048.73	11	695.27	11	338.91	11		11		11			
1/4	2,116.78	1/4	1,759.04	1/4	1,398.66	1/4	1,041.36	1/4	687.93	1/4	331.40	1/4		1/4		1/4			
1/2	2,109.27	1/2	1,751.59	1/2	1,391.15	1/2	1,033.99	1/2	680.58	1/2	323.89	1/2		1/2		1/2			
3/4	2,101.75	3/4	1,744.14	3/4	1,383.63	3/4	1,026.62	3/4	673.23	3/4	316.37	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 09/23/2004 CL - SW
CALCULATED: 09/24/2004 CL
PRINTED: 09/24/2004 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2004

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