



BARGE "KIRBY 29051"

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	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-5/8	00-5/8
1 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	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
2 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	- 00-5/8	00-5/8	- 00-3/4	00-3/4
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-5/8	00-5/8
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	- 00-5/8	00-5/8	- 00-3/4	00-3/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 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'-06"

December 10, 2012

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "KIRBY 29051"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4	4,207.93	1/4	3,918.79	1/4	3,615.28	1/4	3,297.87	1/4	2,968.27	1/4	2,636.63	1/4	2,304.96		
1/2		1/2		1/2		1/2	4,202.01	1/2	3,912.63	1/2	3,608.80	1/2	3,291.11	1/2	2,961.36	1/2	2,629.72	1/2	2,298.05		
3/4		3/4		3/4		3/4	4,196.10	3/4	3,906.47	3/4	3,602.32	3/4	3,284.35	3/4	2,954.45	3/4	2,622.81	3/4	2,291.14		
1		1		1		1	4,190.18	1	3,900.31	1	3,595.84	1	3,277.60	1	2,947.55	1	2,615.90	1	2,284.23		
1/4		1/4		1/4		1/4	4,184.25	1/4	3,894.12	1/4	3,589.34	1/4	3,270.81	1/4	2,940.64	1/4	2,608.99	1/4	2,277.32		
1/2		1/2		1/2		1/2	4,178.31	1/2	3,887.94	1/2	3,582.84	1/2	3,264.02	1/2	2,933.73	1/2	2,602.09	1/2	2,270.41		
3/4		3/4		3/4		3/4	4,172.37	3/4	3,881.75	3/4	3,576.34	3/4	3,257.23	3/4	2,926.82	3/4	2,595.18	3/4	2,263.50		
2		2		2		2	4,166.44	2	3,875.56	2	3,569.84	2	3,250.44	2	2,919.91	2	2,588.27	2	2,256.59		
1/4		1/4		1/4		1/4	4,160.47	1/4	3,869.35	1/4	3,563.32	1/4	3,243.63	1/4	2,913.00	1/4	2,581.36	1/4	2,249.68		
1/2		1/2		1/2		1/2	4,154.51	1/2	3,863.15	1/2	3,556.80	1/2	3,236.83	1/2	2,906.09	1/2	2,574.45	1/2	2,242.77		
3/4		3/4		3/4		3/4	4,148.54	3/4	3,856.94	3/4	3,550.28	3/4	3,230.02	3/4	2,899.18	3/4	2,567.54	3/4	2,235.86		
3		3		3		3	4,142.58	3	3,850.73	3	3,543.75	3	3,223.21	3	2,892.27	3	2,560.63	3	2,228.95		
1/4		1/4		1/4		1/4	4,136.63	1/4	3,844.47	1/4	3,537.20	1/4	3,216.39	1/4	2,885.36	1/4	2,553.72	1/4	2,222.04		
1/2		1/2		1/2		1/2	4,130.68	1/2	3,838.20	1/2	3,530.66	1/2	3,209.56	1/2	2,878.45	1/2	2,546.81	1/2	2,215.13		
3/4		3/4		3/4		3/4	4,124.73	3/4	3,831.94	3/4	3,524.11	3/4	3,202.73	3/4	2,871.54	3/4	2,539.90	3/4	2,208.22		
4		4		4		4	4,118.78	4	3,825.67	4	3,517.56	4	3,195.90	4	2,864.64	4	2,532.99	4	2,201.31		
1/4		1/4		1/4		1/4	4,112.80	1/4	3,819.38	1/4	3,510.99	1/4	3,189.04	1/4	2,857.73	1/4	2,526.08	1/4	2,194.40		
1/2		1/2		1/2		1/2	4,106.83	1/2	3,813.09	1/2	3,504.42	1/2	3,182.19	1/2	2,850.82	1/2	2,519.18	1/2	2,187.49		
3/4		3/4		3/4		3/4	4,100.86	3/4	3,806.80	3/4	3,497.85	3/4	3,175.33	3/4	2,843.91	3/4	2,512.27	3/4	2,180.58		
5		5		5		5	4,094.88	5	3,800.51	5	3,491.28	5	3,168.47	5	2,837.00	5	2,505.36	5	2,173.67		
1/4		1/4		1/4		1/4	4,088.88	1/4	3,794.20	1/4	3,484.68	1/4	3,161.59	1/4	2,830.09	1/4	2,498.45	1/4	2,166.76		
1/2		1/2		1/2		1/2	4,082.89	1/2	3,787.89	1/2	3,478.08	1/2	3,154.72	1/2	2,823.18	1/2	2,491.54	1/2	2,159.85		
3/4		3/4		3/4		3/4	4,076.89	3/4	3,781.58	3/4	3,471.48	3/4	3,147.84	3/4	2,816.27	3/4	2,484.63	3/4	2,152.94		
6		6		6		6	4,070.89	6	3,775.26	6	3,464.88	6	3,140.96	6	2,809.36	6	2,477.72	6	2,146.03		
1/4		1/4		1/4	4,363.54	1/4	4,064.87	1/4	3,768.92	1/4	3,458.26	1/4	3,134.06	1/4	2,802.45	1/4	2,470.81	1/4	2,139.12		
1/2		1/2		1/2	4,358.36	1/2	4,058.84	1/2	3,762.58	1/2	3,451.64	1/2	3,127.17	1/2	2,795.54	1/2	2,463.90	1/2	2,132.20		
3/4		3/4		3/4	4,353.18	3/4	4,052.82	3/4	3,756.24	3/4	3,445.02	3/4	3,120.27	3/4	2,788.63	3/4	2,456.99	3/4	2,125.29		
7		7		7	4,347.99	7	4,046.80	7	3,749.90	7	3,438.41	7	3,113.37	7	2,781.72	7	2,450.08	7	2,118.38		
1/4		1/4		1/4	4,341.08	1/4	4,040.75	1/4	3,743.54	1/4	3,431.77	1/4	3,106.46	1/4	2,774.82	1/4	2,443.17	1/4	2,111.47		
1/2		1/2		1/2	4,334.17	1/2	4,034.70	1/2	3,737.18	1/2	3,425.13	1/2	3,099.55	1/2	2,767.91	1/2	2,436.26	1/2	2,104.56		
3/4		3/4		3/4	4,327.26	3/4	4,028.66	3/4	3,730.82	3/4	3,418.49	3/4	3,092.64	3/4	2,761.00	3/4	2,429.35	3/4	2,097.65		
8		8		8	4,320.35	8	4,022.61	8	3,724.46	8	3,411.85	8	3,085.73	8	2,754.09	8	2,422.44	8	2,090.74		
1/4		1/4		1/4	4,313.44	1/4	4,016.54	1/4	3,718.08	1/4	3,405.18	1/4	3,078.82	1/4	2,747.18	1/4	2,415.53	1/4	2,083.83		
1/2		1/2		1/2	4,306.53	1/2	4,010.47	1/2	3,711.69	1/2	3,398.51	1/2	3,071.91	1/2	2,740.27	1/2	2,408.62	1/2	2,076.92		
3/4		3/4		3/4	4,299.62	3/4	4,004.40	3/4	3,705.31	3/4	3,391.84	3/4	3,065.00	3/4	2,733.36	3/4	2,401.71	3/4	2,070.01		
9		9		9	4,292.71	9	3,998.33	9	3,698.93	9	3,385.17	9	3,058.09	9	2,726.45	9	2,394.80	9	2,063.10		
1/4		1/4		1/4	4,285.80	1/4	3,992.24	1/4	3,692.52	1/4	3,378.48	1/4	3,051.18	1/4	2,719.54	1/4	2,387.89	1/4	2,056.19		
1/2		1/2		1/2	4,278.89	1/2	3,986.15	1/2	3,686.11	1/2	3,371.80	1/2	3,044.27	1/2	2,712.63	1/2	2,380.98	1/2	2,049.28		
3/4		3/4		3/4	4,271.98	3/4	3,980.06	3/4	3,679.70	3/4	3,365.11	3/4	3,037.37	3/4	2,705.72	3/4	2,374.07	3/4	2,042.37		
10		10		10	4,265.07	10	3,973.97	10	3,673.29	10	3,358.42	10	3,030.46	10	2,698.81	10	2,367.16	10	2,035.46		
1/4		1/4		1/4	4,258.16	1/4	3,967.86	1/4	3,666.86	1/4	3,351.71	1/4	3,023.55	1/4	2,691.91	1/4	2,360.25	1/4	2,028.55		
1/2		1/2		1/2	4,251.25	1/2	3,961.74	1/2	3,660.43	1/2	3,345.00	1/2	3,016.64	1/2	2,685.00	1/2	2,353.34	1/2	2,021.64		
3/4		3/4		3/4	4,244.34	3/4	3,955.62	3/4	3,654.00	3/4	3,338.29	3/4	3,009.73	3/4	2,678.09	3/4	2,346.43	3/4	2,014.73		
11		11		11	4,237.43	11	3,949.50	11	3,647.57	11	3,331.58	11	3,002.82	11	2,671.18	11	2,339.52	11	2,007.82		
1/4		1/4		1/4	4,231.53	1/4	3,943.36	1/4	3,641.11	1/4	3,324.84	1/4	2,995.91	1/4	2,664.27	1/4	2,332.61	1/4	2,000.91		
1/2		1/2		1/2	4,225.64	1/2	3,937.23	1/2	3,634.66	1/2	3,318.10	1/2	2,989.00	1/2	2,657.36	1/2	2,325.70	1/2	1,994.00		
3/4		3/4		3/4	4,219.74	3/4	3,931.09	3/4	3,628.21	3/4	3,311.37	3/4	2,982.09	3/4	2,650.45	3/4	2,318.79	3/4	1,987.09		
					4,213.84		3,924.95		3,621.76		3,304.63		2,975.18		2,643.54		2,311.88		1,980.18		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "KIRBY 29051"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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.
	1,973.27	0	1,641.57	0	1,309.87	0	978.58	0	662.57	0	369.66	0	100.36	0		0		0	
1/4	1,966.36	1/4	1,634.66	1/4	1,302.96	1/4	971.76	1/4	656.23	1/4	363.81	1/4	95.00	1/4	1/4		1/4		1/4
1/2	1,959.44	1/2	1,627.75	1/2	1,296.05	1/2	964.93	1/2	649.89	1/2	357.96	1/2	89.65	1/2	1/2		1/2		1/2
3/4	1,952.53	3/4	1,620.84	3/4	1,289.14	3/4	958.10	3/4	643.55	3/4	352.11	3/4	84.30	3/4	3/4		3/4		3/4
1	1,945.62	1	1,613.92	1	1,282.23	1	951.32	1	637.25	1	346.31	1	78.99	1	1		1		1
1/4	1,938.71	1/4	1,607.01	1/4	1,275.32	1/4	944.55	1/4	630.96	1/4	340.51	1/4	73.68	1/4	1/4		1/4		1/4
1/2	1,931.80	1/2	1,600.10	1/2	1,268.40	1/2	937.78	1/2	624.66	1/2	334.70	1/2	68.37	1/2	1/2		1/2		1/2
3/4	1,924.89	3/4	1,593.19	3/4	1,261.49	3/4	931.01	3/4	618.37	3/4	328.90	3/4	63.06	3/4	3/4		3/4		3/4
2	1,917.98	2	1,586.28	2	1,254.58	2	924.27	2	612.11	2	323.13	2	57.79	2	2		2		2
1/4	1,911.07	1/4	1,579.37	1/4	1,247.67	1/4	917.54	1/4	605.85	1/4	317.37	1/4	52.52	1/4	1/4		1/4		1/4
1/2	1,904.16	1/2	1,572.46	1/2	1,240.76	1/2	910.81	1/2	599.60	1/2	311.60	1/2	47.25	1/2	1/2		1/2		1/2
3/4	1,897.25	3/4	1,565.55	3/4	1,233.85	3/4	904.08	3/4	593.34	3/4	305.84	3/4	41.98	3/4	3/4		3/4		3/4
3	1,890.34	3	1,558.64	3	1,226.94	3	897.38	3	587.12	3	300.12	3	37.62	3	3		3		3
1/4	1,883.43	1/4	1,551.73	1/4	1,220.03	1/4	890.69	1/4	580.91	1/4	294.39	1/4	33.25	1/4	1/4		1/4		1/4
1/2	1,876.52	1/2	1,544.82	1/2	1,213.12	1/2	884.00	1/2	574.70	1/2	288.67	1/2	28.89	1/2	1/2		1/2		1/2
3/4	1,869.61	3/4	1,537.91	3/4	1,206.21	3/4	877.31	3/4	568.48	3/4	282.95	3/4	24.53	3/4	3/4		3/4		3/4
4	1,862.70	4	1,531.00	4	1,199.30	4	870.66	4	562.31	4	277.27	4	21.93	4	4		4		4
1/4	1,855.79	1/4	1,524.09	1/4	1,192.39	1/4	864.01	1/4	556.13	1/4	271.58	1/4	19.34	1/4	1/4		1/4		1/4
1/2	1,848.88	1/2	1,517.18	1/2	1,185.48	1/2	857.36	1/2	549.96	1/2	265.90	1/2	16.74	1/2	1/2		1/2		1/2
3/4	1,841.97	3/4	1,510.27	3/4	1,178.57	3/4	850.71	3/4	543.78	3/4	260.22	3/4	14.14	3/4	3/4		3/4		3/4
5	1,835.06	5	1,503.36	5	1,171.66	5	844.10	5	537.65	5	254.58	5		5	5		5		5
1/4	1,828.15	1/4	1,496.45	1/4	1,164.75	1/4	837.49	1/4	531.52	1/4	248.94	1/4		1/4	1/4		1/4		1/4
1/2	1,821.24	1/2	1,489.54	1/2	1,157.84	1/2	830.88	1/2	525.39	1/2	243.30	1/2		1/2	1/2		1/2		1/2
3/4	1,814.33	3/4	1,482.63	3/4	1,150.93	3/4	824.28	3/4	519.25	3/4	237.66	3/4		3/4	3/4		3/4		3/4
6	1,807.42	6	1,475.72	6	1,144.02	6	817.71	6	513.16	6	232.06	6		6	6		6		6
1/4	1,800.51	1/4	1,468.81	1/4	1,137.11	1/4	811.14	1/4	507.07	1/4	226.45	1/4		1/4	1/4		1/4		1/4
1/2	1,793.60	1/2	1,461.90	1/2	1,130.20	1/2	804.57	1/2	500.97	1/2	220.85	1/2		1/2	1/2		1/2		1/2
3/4	1,786.68	3/4	1,454.99	3/4	1,123.29	3/4	798.00	3/4	494.88	3/4	215.25	3/4		3/4	3/4		3/4		3/4
7	1,779.77	7	1,448.08	7	1,116.38	7	791.47	7	488.83	7	209.69	7		7	7		7		7
1/4	1,772.86	1/4	1,441.16	1/4	1,109.47	1/4	784.95	1/4	482.78	1/4	204.14	1/4		1/4	1/4		1/4		1/4
1/2	1,765.95	1/2	1,434.25	1/2	1,102.56	1/2	778.42	1/2	476.73	1/2	198.58	1/2		1/2	1/2		1/2		1/2
3/4	1,759.04	3/4	1,427.34	3/4	1,095.64	3/4	771.89	3/4	470.68	3/4	193.02	3/4		3/4	3/4		3/4		3/4
8	1,752.13	8	1,420.43	8	1,088.74	8	765.41	8	464.67	8	187.50	8		8	8		8		8
1/4	1,745.22	1/4	1,413.52	1/4	1,081.83	1/4	758.92	1/4	458.66	1/4	181.98	1/4		1/4	1/4		1/4		1/4
1/2	1,738.31	1/2	1,406.61	1/2	1,074.92	1/2	752.43	1/2	452.65	1/2	176.46	1/2		1/2	1/2		1/2		1/2
3/4	1,731.40	3/4	1,399.70	3/4	1,068.01	3/4	745.95	3/4	446.64	3/4	170.94	3/4		3/4	3/4		3/4		3/4
9	1,724.49	9	1,392.79	9	1,061.11	9	739.49	9	440.67	9	165.46	9		9	9		9		9
1/4	1,717.58	1/4	1,385.88	1/4	1,054.20	1/4	733.02	1/4	434.70	1/4	159.99	1/4		1/4	1/4		1/4		1/4
1/2	1,710.67	1/2	1,378.97	1/2	1,047.30	1/2	726.56	1/2	428.73	1/2	154.51	1/2		1/2	1/2		1/2		1/2
3/4	1,703.76	3/4	1,372.06	3/4	1,040.40	3/4	720.10	3/4	422.76	3/4	149.04	3/4		3/4	3/4		3/4		3/4
10	1,696.85	10	1,365.15	10	1,033.52	10	713.68	10	416.84	10	143.60	10		10	10		10		10
1/4	1,689.94	1/4	1,358.24	1/4	1,026.63	1/4	707.26	1/4	410.91	1/4	138.16	1/4		1/4	1/4		1/4		1/4
1/2	1,683.03	1/2	1,351.33	1/2	1,019.75	1/2	700.84	1/2	404.98	1/2	132.72	1/2		1/2	1/2		1/2		1/2
3/4	1,676.12	3/4	1,344.42	3/4	1,012.86	3/4	694.42	3/4	399.05	3/4	127.28	3/4		3/4	3/4		3/4		3/4
11	1,669.21	11	1,337.51	11	1,006.00	11	688.04	11	393.16	11	121.89	11		11	11		11		11
1/4	1,662.30	1/4	1,330.60	1/4	999.14	1/4	681.66	1/4	387.28	1/4	116.50	1/4		1/4	1/4		1/4		1/4
1/2	1,655.39	1/2	1,323.69	1/2	992.28	1/2	675.29	1/2	381.39	1/2	111.10	1/2		1/2	1/2		1/2		1/2
3/4	1,648.48	3/4	1,316.78	3/4	985.41	3/4	668.91	3/4	375.50	3/4	105.71	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2012 CL - SW
CALCULATED: 12/10/2012 CL
PRINTED: 12/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "KIRBY 29051"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,201.74	0	3,912.90	0	3,609.71	0	3,292.64	0	2,963.39	0	2,632.10	0	2,300.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,195.83	1/4	3,906.75	1/4	3,603.24	1/4	3,285.88	1/4	2,956.49	1/4	2,625.20	1/4	2,293.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,189.92	1/2	3,900.60	1/2	3,596.77	1/2	3,279.13	1/2	2,949.59	1/2	2,618.29	1/2	2,286.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,184.01	3/4	3,894.44	3/4	3,590.29	3/4	3,272.38	3/4	2,942.68	3/4	2,611.39	3/4	2,280.07
1		1		1		1	4,178.08	1	3,888.26	1	3,583.80	1	3,265.60	1	2,935.78	1	2,604.49	1	2,273.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,172.15	1/4	3,882.08	1/4	3,577.31	1/4	3,258.82	1/4	2,928.88	1/4	2,597.59	1/4	2,266.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,166.22	1/2	3,875.90	1/2	3,570.81	1/2	3,252.04	1/2	2,921.98	1/2	2,590.69	1/2	2,259.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,160.29	3/4	3,869.72	3/4	3,564.32	3/4	3,245.25	3/4	2,915.08	3/4	2,583.78	3/4	2,252.46
2		2		2		2	4,154.33	2	3,863.52	2	3,557.81	2	3,238.46	2	2,908.17	2	2,576.88	2	2,245.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,148.37	1/4	3,857.32	1/4	3,551.29	1/4	3,231.66	1/4	2,901.27	1/4	2,569.98	1/4	2,238.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,142.42	1/2	3,851.12	1/2	3,544.78	1/2	3,224.86	1/2	2,894.37	1/2	2,563.08	1/2	2,231.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,136.46	3/4	3,844.91	3/4	3,538.26	3/4	3,218.06	3/4	2,887.47	3/4	2,556.18	3/4	2,224.84
3		3		3		3	4,130.51	3	3,838.66	3	3,531.72	3	3,211.24	3	2,880.57	3	2,549.28	3	2,217.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,124.57	1/4	3,832.40	1/4	3,525.18	1/4	3,204.41	1/4	2,873.66	1/4	2,542.37	1/4	2,211.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,118.62	1/2	3,826.14	1/2	3,518.64	1/2	3,197.59	1/2	2,866.76	1/2	2,535.47	1/2	2,204.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,112.68	3/4	3,819.89	3/4	3,512.09	3/4	3,190.77	3/4	2,859.86	3/4	2,528.57	3/4	2,197.23
4		4		4		4	4,106.71	4	3,813.60	4	3,505.53	4	3,183.92	4	2,852.96	4	2,521.67	4	2,190.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,100.75	1/4	3,807.32	1/4	3,498.97	1/4	3,177.07	1/4	2,846.06	1/4	2,514.77	1/4	2,183.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,094.78	1/2	3,801.03	1/2	3,492.40	1/2	3,170.22	1/2	2,839.15	1/2	2,507.86	1/2	2,176.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,088.81	3/4	3,794.75	3/4	3,485.84	3/4	3,163.37	3/4	2,832.25	3/4	2,500.96	3/4	2,169.62
5		5		5		5	4,082.82	5	3,788.44	5	3,479.25	5	3,156.50	5	2,825.35	5	2,494.06	5	2,162.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,076.83	1/4	3,782.14	1/4	3,472.65	1/4	3,149.63	1/4	2,818.45	1/4	2,487.16	1/4	2,155.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,070.83	1/2	3,775.83	1/2	3,466.06	1/2	3,142.76	1/2	2,811.55	1/2	2,480.26	1/2	2,148.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,064.84	3/4	3,769.53	3/4	3,459.47	3/4	3,135.89	3/4	2,804.65	3/4	2,473.35	3/4	2,142.01
6		6		6		6	4,058.83	6	3,763.19	6	3,452.86	6	3,129.00	6	2,797.74	6	2,466.45	6	2,135.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,052.81	1/4	3,756.86	1/4	3,446.25	1/4	3,122.11	1/4	2,790.84	1/4	2,459.55	1/4	2,128.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,046.83	1/2	3,750.52	1/2	3,439.64	1/2	3,115.22	1/2	2,783.94	1/2	2,452.65	1/2	2,121.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,040.78	3/4	3,744.19	3/4	3,433.02	3/4	3,108.33	3/4	2,777.04	3/4	2,445.75	3/4	2,114.39
7		7		7		7	4,034.74	7	3,737.84	7	3,426.39	7	3,101.43	7	2,770.14	7	2,438.84	7	2,107.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,028.70	1/4	3,731.48	1/4	3,419.76	1/4	3,094.53	1/4	2,763.23	1/4	2,431.94	1/4	2,100.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,022.65	1/2	3,725.13	1/2	3,413.12	1/2	3,087.62	1/2	2,756.33	1/2	2,425.04	1/2	2,093.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,016.61	3/4	3,718.77	3/4	3,406.49	3/4	3,080.72	3/4	2,749.43	3/4	2,418.13	3/4	2,086.78
8		8		8		8	4,010.55	8	3,712.40	8	3,399.83	8	3,073.82	8	2,742.53	8	2,411.23	8	2,079.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,004.49	1/4	3,706.02	1/4	3,393.17	1/4	3,066.92	1/4	2,735.63	1/4	2,404.33	1/4	2,072.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,029.33	1/2	3,998.43	1/2	3,699.65	1/2	3,386.51	1/2	3,060.02	1/2	2,728.72	1/2	2,397.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,286.43	3/4	3,992.36	3/4	3,693.27	3/4	3,379.85	3/4	3,053.11	3/4	2,721.82	3/4	2,390.52
9		9		9		9	4,279.53	9	3,986.28	9	3,686.87	9	3,373.16	9	3,046.21	9	2,714.92	9	2,383.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,272.62	1/4	3,980.20	1/4	3,680.47	1/4	3,366.48	1/4	3,039.31	1/4	2,708.02	1/4	2,376.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,265.72	1/2	3,974.11	1/2	3,674.06	1/2	3,359.80	1/2	3,032.41	1/2	2,701.12	1/2	2,369.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,258.82	3/4	3,968.03	3/4	3,667.66	3/4	3,353.12	3/4	3,025.51	3/4	2,694.21	3/4	2,362.91
10		10		10		10	4,251.91	10	3,961.92	10	3,661.24	10	3,346.42	10	3,018.60	10	2,687.31	10	2,356.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,245.01	1/4	3,955.81	1/4	3,654.81	1/4	3,339.71	1/4	3,011.70	1/4	2,680.41	1/4	2,349.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,238.11	1/2	3,949.69	1/2	3,648.39	1/2	3,333.01	1/2	3,004.80	1/2	2,673.51	1/2	2,342.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,231.20	3/4	3,943.58	3/4	3,641.96	3/4	3,326.31	3/4	2,997.90	3/4	2,666.61	3/4	2,335.30
11		11		11		11	4,225.32	11	3,937.45	11	3,635.52	11	3,319.58	11	2,991.00	11	2,659.71	11	2,328.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,219.43	1/4	3,931.32	1/4	3,629.07	1/4	3,312.85	1/4	2,984.09	1/4	2,652.80	1/4	2,321.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,213.54	1/2	3,925.19	1/2	3,622.63	1/2	3,306.12	1/2	2,977.19	1/2	2,645.90	1/2	2,314.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,207.65	3/4	3,919.06	3/4	3,616.18	3/4	3,299.39	3/4	2,970.29	3/4	2,639.00	3/4	2,307.68

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-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 29051"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,962.52	1/4	1,631.17	1/4	1,299.82	1/4	969.15	1/4	655.53	1/4	363.42	1/4	94.90	1/4		1/4		1/4			
1/2	1,955.62	1/2	1,624.27	1/2	1,292.91	1/2	962.36	1/2	649.20	1/2	357.58	1/2	89.55	1/2		1/2		1/2			
3/4	1,948.72	3/4	1,617.36	3/4	1,286.01	3/4	955.58	3/4	642.86	3/4	351.74	3/4	84.21	3/4		3/4		3/4			
1	1,941.81	1	1,610.46	1	1,279.11	1	948.85	1	636.57	1	345.94	1	78.90	1		1		1			
1/4	1,934.91	1/4	1,603.56	1/4	1,272.20	1/4	942.13	1/4	630.28	1/4	340.14	1/4	73.60	1/4		1/4		1/4			
1/2	1,928.01	1/2	1,596.65	1/2	1,265.30	1/2	935.40	1/2	624.00	1/2	334.35	1/2	68.30	1/2		1/2		1/2			
3/4	1,921.10	3/4	1,589.75	3/4	1,258.40	3/4	928.67	3/4	617.71	3/4	328.55	3/4	62.99	3/4		3/4		3/4			
2	1,914.20	2	1,582.85	2	1,251.49	2	921.98	2	611.46	2	322.79	2	57.73	2		2		2			
1/4	1,907.30	1/4	1,575.94	1/4	1,244.59	1/4	915.30	1/4	605.21	1/4	317.03	1/4	52.46	1/4		1/4		1/4			
1/2	1,900.39	1/2	1,569.04	1/2	1,237.69	1/2	908.61	1/2	598.96	1/2	311.27	1/2	47.20	1/2		1/2		1/2			
3/4	1,893.49	3/4	1,562.14	3/4	1,230.78	3/4	901.92	3/4	592.71	3/4	305.51	3/4	41.93	3/4		3/4		3/4			
3	1,886.59	3	1,555.23	3	1,223.88	3	895.28	3	586.50	3	299.80	3	37.57	3		3		3			
1/4	1,879.68	1/4	1,548.33	1/4	1,216.98	1/4	888.63	1/4	580.29	1/4	294.08	1/4	33.22	1/4		1/4		1/4			
1/2	1,872.78	1/2	1,541.43	1/2	1,210.07	1/2	881.99	1/2	574.08	1/2	288.36	1/2	28.86	1/2		1/2		1/2			
3/4	1,865.88	3/4	1,534.52	3/4	1,203.17	3/4	875.34	3/4	567.87	3/4	282.65	3/4	24.50	3/4		3/4		3/4			
4	1,858.97	4	1,527.62	4	1,196.27	4	868.74	4	561.71	4	276.97	4	21.91	4		4		4			
1/4	1,852.07	1/4	1,520.72	1/4	1,189.36	1/4	862.13	1/4	555.54	1/4	271.29	1/4	19.32	1/4		1/4		1/4			
1/2	1,845.17	1/2	1,513.81	1/2	1,182.46	1/2	855.53	1/2	549.37	1/2	265.62	1/2	16.72	1/2		1/2		1/2			
3/4	1,838.26	3/4	1,506.91	3/4	1,175.56	3/4	848.92	3/4	543.20	3/4	259.94	3/4	14.13	3/4		3/4		3/4			
5	1,831.36	5	1,500.01	5	1,168.65	5	842.36	5	537.08	5	254.30	5		5		5		5			
1/4	1,824.46	1/4	1,493.10	1/4	1,161.75	1/4	835.80	1/4	530.95	1/4	248.67	1/4		1/4		1/4		1/4			
1/2	1,817.56	1/2	1,486.20	1/2	1,154.85	1/2	829.24	1/2	524.82	1/2	243.04	1/2		1/2		1/2		1/2			
3/4	1,810.65	3/4	1,479.30	3/4	1,147.94	3/4	822.67	3/4	518.70	3/4	237.40	3/4		3/4		3/4		3/4			
6	1,803.75	6	1,472.40	6	1,141.04	6	816.15	6	512.61	6	231.81	6		6		6		6			
1/4	1,796.85	1/4	1,465.49	1/4	1,134.14	1/4	809.63	1/4	506.53	1/4	226.21	1/4		1/4		1/4		1/4			
1/2	1,789.94	1/2	1,458.59	1/2	1,127.24	1/2	803.10	1/2	500.44	1/2	220.62	1/2		1/2		1/2		1/2			
3/4	1,783.04	3/4	1,451.69	3/4	1,120.33	3/4	796.58	3/4	494.35	3/4	215.02	3/4		3/4		3/4		3/4			
7	1,776.14	7	1,444.78	7	1,113.43	7	790.10	7	488.31	7	209.47	7		7		7		7			
1/4	1,769.23	1/4	1,437.88	1/4	1,106.53	1/4	783.62	1/4	482.27	1/4	203.92	1/4		1/4		1/4		1/4			
1/2	1,762.33	1/2	1,430.98	1/2	1,099.62	1/2	777.13	1/2	476.22	1/2	198.37	1/2		1/2		1/2		1/2			
3/4	1,755.43	3/4	1,424.07	3/4	1,092.72	3/4	770.65	3/4	470.18	3/4	192.81	3/4		3/4		3/4		3/4			
8	1,748.52	8	1,417.17	8	1,085.82	8	764.21	8	464.17	8	187.30	8		8		8		8			
1/4	1,741.62	1/4	1,410.27	1/4	1,078.92	1/4	757.77	1/4	458.17	1/4	181.79	1/4		1/4		1/4		1/4			
1/2	1,734.72	1/2	1,403.36	1/2	1,072.01	1/2	751.33	1/2	452.16	1/2	176.27	1/2		1/2		1/2		1/2			
3/4	1,727.81	3/4	1,396.46	3/4	1,065.11	3/4	744.89	3/4	446.16	3/4	170.76	3/4		3/4		3/4		3/4			
9	1,720.91	9	1,389.56	9	1,058.22	9	738.47	9	440.20	9	165.29	9		9		9		9			
1/4	1,714.01	1/4	1,382.65	1/4	1,051.32	1/4	732.05	1/4	434.24	1/4	159.82	1/4		1/4		1/4		1/4			
1/2	1,707.10	1/2	1,375.75	1/2	1,044.43	1/2	725.63	1/2	428.27	1/2	154.35	1/2		1/2		1/2		1/2			
3/4	1,700.20	3/4	1,368.85	3/4	1,037.53	3/4	719.22	3/4	422.31	3/4	148.88	3/4		3/4		3/4		3/4			
10	1,693.30	10	1,361.94	10	1,030.66	10	712.83	10	416.39	10	143.45	10		10		10		10			
1/4	1,686.39	1/4	1,355.04	1/4	1,023.78	1/4	706.45	1/4	410.47	1/4	138.01	1/4		1/4		1/4		1/4			
1/2	1,679.49	1/2	1,348.14	1/2	1,016.90	1/2	700.06	1/2	404.54	1/2	132.58	1/2		1/2		1/2		1/2			
3/4	1,672.59	3/4	1,341.23	3/4	1,010.02	3/4	693.68	3/4	398.62	3/4	127.14	3/4		3/4		3/4		3/4			
11	1,665.68	11	1,334.33	11	1,003.20	11	687.31	11	392.74	11	121.76	11		11		11		11			
1/4	1,658.78	1/4	1,327.43	1/4	996.37	1/4	680.94	1/4	386.86	1/4	116.37	1/4		1/4		1/4		1/4			
1/2	1,651.88	1/2	1,320.52	1/2	989.55	1/2	674.56	1/2	380.98	1/2	110.99	1/2		1/2		1/2		1/2			
3/4	1,644.98	3/4	1,313.62	3/4	982.72	3/4	668.19	3/4	375.10	3/4	105.60	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2012 CL - SW
CALCULATED: 12/10/2012 CL
PRINTED: 12/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "KIRBY 29051"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,092.64	0	4,755.57	0	4,400.91	0	4,029.65	0	3,644.14	0	3,256.23	0	2,868.26
1/4		1/4		1/4		1/4	5,085.72	1/4	4,748.40	1/4	4,393.34	1/4	4,021.75	1/4	3,636.06	1/4	3,248.14	1/4	2,860.18
1/2		1/2		1/2		1/2	5,078.80	1/2	4,741.22	1/2	4,385.76	1/2	4,013.84	1/2	3,627.97	1/2	3,240.06	1/2	2,852.10
3/4		3/4		3/4		3/4	5,071.88	3/4	4,734.05	3/4	4,378.18	3/4	4,005.94	3/4	3,619.89	3/4	3,231.98	3/4	2,844.01
1		1		1		1	5,064.93	1	4,726.85	1	4,370.58	1	3,998.00	1	3,611.81	1	3,223.90	1	2,835.93
1/4		1/4		1/4		1/4	5,057.99	1/4	4,719.64	1/4	4,362.97	1/4	3,990.06	1/4	3,603.73	1/4	3,215.82	1/4	2,827.84
1/2		1/2		1/2		1/2	5,051.04	1/2	4,712.44	1/2	4,355.37	1/2	3,982.12	1/2	3,595.65	1/2	3,207.74	1/2	2,819.76
3/4		3/4		3/4		3/4	5,044.10	3/4	4,705.23	3/4	4,347.77	3/4	3,974.18	3/4	3,587.57	3/4	3,199.66	3/4	2,811.68
2		2		2		2	5,037.12	2	4,698.00	2	4,340.14	2	3,966.22	2	3,579.49	2	3,191.57	2	2,803.59
1/4		1/4		1/4		1/4	5,030.14	1/4	4,690.77	1/4	4,332.51	1/4	3,958.25	1/4	3,571.40	1/4	3,183.49	1/4	2,795.51
1/2		1/2		1/2		1/2	5,023.17	1/2	4,683.54	1/2	4,324.88	1/2	3,950.29	1/2	3,563.32	1/2	3,175.41	1/2	2,787.42
3/4		3/4		3/4		3/4	5,016.19	3/4	4,676.31	3/4	4,317.25	3/4	3,942.33	3/4	3,555.24	3/4	3,167.33	3/4	2,779.34
3		3		3		3	5,009.26	3	4,668.98	3	4,309.59	3	3,934.34	3	3,547.16	3	3,159.25	3	2,771.26
1/4		1/4		1/4		1/4	5,002.33	1/4	4,661.66	1/4	4,301.93	1/4	3,926.36	1/4	3,539.08	1/4	3,151.17	1/4	2,763.17
1/2		1/2		1/2		1/2	4,995.40	1/2	4,654.33	1/2	4,294.27	1/2	3,918.37	1/2	3,531.00	1/2	3,143.08	1/2	2,755.09
3/4		3/4		3/4		3/4	4,988.47	3/4	4,647.00	3/4	4,286.61	3/4	3,910.38	3/4	3,522.92	3/4	3,135.00	3/4	2,747.00
4		4		4		4	4,981.51	4	4,639.65	4	4,278.93	4	3,902.36	4	3,514.83	4	3,126.92	4	2,738.92
1/4		1/4		1/4		1/4	4,974.56	1/4	4,632.29	1/4	4,271.24	1/4	3,894.34	1/4	3,506.75	1/4	3,118.84	1/4	2,730.84
1/2		1/2		1/2		1/2	4,967.60	1/2	4,624.93	1/2	4,263.56	1/2	3,886.32	1/2	3,498.67	1/2	3,110.76	1/2	2,722.75
3/4		3/4		3/4		3/4	4,960.64	3/4	4,617.57	3/4	4,255.87	3/4	3,878.30	3/4	3,490.59	3/4	3,102.68	3/4	2,714.67
5		5		5		5	4,953.66	5	4,610.19	5	4,248.16	5	3,870.26	5	3,482.51	5	3,094.60	5	2,706.59
1/4		1/4		1/4		1/4	4,946.67	1/4	4,602.81	1/4	4,240.44	1/4	3,862.21	1/4	3,474.43	1/4	3,086.51	1/4	2,698.50
1/2		1/2		1/2		1/2	4,939.68	1/2	4,595.42	1/2	4,232.72	1/2	3,854.17	1/2	3,466.34	1/2	3,078.43	1/2	2,690.42
3/4		3/4		3/4		3/4	4,932.70	3/4	4,588.04	3/4	4,225.00	3/4	3,846.13	3/4	3,458.26	3/4	3,070.35	3/4	2,682.33
6		6		6		6	4,925.68	6	4,580.62	6	4,217.26	6	3,838.06	6	3,450.18	6	3,062.27	6	2,674.25
1/4		1/4		1/4	5,268.61	1/4	4,918.67	1/4	4,573.21	1/4	4,209.52	1/4	3,829.99	1/4	3,442.10	1/4	3,045.19	1/4	2,666.17
1/2		1/2		1/2	5,262.55	1/2	4,911.66	1/2	4,565.79	1/2	4,201.77	1/2	3,821.92	1/2	3,434.02	1/2	3,046.11	1/2	2,658.08
3/4		3/4		3/4	5,256.48	3/4	4,904.65	3/4	4,558.37	3/4	4,194.03	3/4	3,813.85	3/4	3,425.94	3/4	3,038.03	3/4	2,650.00
7		7		7	5,248.40	7	4,897.60	7	4,550.93	7	4,186.27	7	3,805.77	7	3,417.86	7	3,029.94	7	2,641.91
1/4		1/4		1/4	5,240.32	1/4	4,890.56	1/4	4,543.49	1/4	4,178.50	1/4	3,797.69	1/4	3,409.77	1/4	3,021.86	1/4	2,633.83
1/2		1/2		1/2	5,232.23	1/2	4,883.51	1/2	4,536.05	1/2	4,170.73	1/2	3,789.60	1/2	3,401.69	1/2	3,013.77	1/2	2,625.75
3/4		3/4		3/4	5,224.15	3/4	4,876.47	3/4	4,528.61	3/4	4,162.97	3/4	3,781.52	3/4	3,393.61	3/4	3,005.69	3/4	2,617.66
8		8		8	5,216.06	8	4,869.40	8	4,521.15	8	4,155.17	8	3,773.44	8	3,385.53	8	2,997.61	8	2,609.58
1/4		1/4		1/4	5,207.98	1/4	4,862.34	1/4	4,513.68	1/4	4,147.37	1/4	3,765.36	1/4	3,377.45	1/4	2,989.52	1/4	2,601.49
1/2		1/2		1/2	5,199.90	1/2	4,855.27	1/2	4,506.22	1/2	4,139.57	1/2	3,757.28	1/2	3,369.37	1/2	2,981.44	1/2	2,593.41
3/4		3/4		3/4	5,191.81	3/4	4,848.20	3/4	4,498.75	3/4	4,131.77	3/4	3,749.20	3/4	3,361.29	3/4	2,973.35	3/4	2,585.33
9		9		9	5,183.73	9	4,841.11	9	4,491.26	9	4,123.94	9	3,741.12	9	3,353.20	9	2,965.27	9	2,577.24
1/4		1/4		1/4	5,175.64	1/4	4,834.02	1/4	4,483.76	1/4	4,116.12	1/4	3,733.03	1/4	3,345.12	1/4	2,957.19	1/4	2,569.16
1/2		1/2		1/2	5,167.56	1/2	4,826.93	1/2	4,476.26	1/2	4,108.30	1/2	3,724.95	1/2	3,337.04	1/2	2,949.10	1/2	2,561.08
3/4		3/4		3/4	5,159.48	3/4	4,819.84	3/4	4,468.76	3/4	4,100.47	3/4	3,716.87	3/4	3,328.96	3/4	2,941.02	3/4	2,552.99
10		10		10	5,151.39	10	4,812.71	10	4,461.24	10	4,092.63	10	3,708.79	10	3,320.88	10	2,932.93	10	2,544.91
1/4		1/4		1/4	5,143.31	1/4	4,805.59	1/4	4,453.72	1/4	4,084.78	1/4	3,700.71	1/4	3,312.80	1/4	2,924.85	1/4	2,536.82
1/2		1/2		1/2	5,135.22	1/2	4,798.46	1/2	4,446.20	1/2	4,076.93	1/2	3,692.63	1/2	3,304.71	1/2	2,916.77	1/2	2,528.74
3/4		3/4		3/4	5,127.14	3/4	4,791.34	3/4	4,438.68	3/4	4,069.08	3/4	3,684.55	3/4	3,296.63	3/4	2,908.68	3/4	2,520.66
11		11		11	5,120.24	11	4,784.19	11	4,431.13	11	4,061.20	11	3,676.46	11	3,288.55	11	2,900.60	11	2,512.57
1/4		1/4		1/4	5,113.35	1/4	4,777.04	1/4	4,423.59	1/4	4,053.32	1/4	3,668.38	1/4	3,280.47	1/4	2,892.52	1/4	2,504.49
1/2		1/2		1/2	5,106.45	1/2	4,769.89	1/2	4,416.04	1/2	4,045.44	1/2	3,660.30	1/2	3,272.39	1/2	2,884.43	1/2	2,496.40
3/4		3/4		3/4	5,099.56	3/4	4,762.75	3/4	4,408.49	3/4	4,037.56	3/4	3,652.22	3/4	3,264.31	3/4	2,876.35	3/4	2,488.32

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" 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 29051"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,480.24	0	2,092.21	0	1,704.18	0	1,316.15	0	928.13	0	540.97	0	153.36	0		0		0	
1/4	2,472.15	1/4	2,084.13	1/4	1,696.10	1/4	1,308.07	1/4	920.04	1/4	532.90	1/4	145.29	1/4	1/4		1/4		1/4
1/2	2,464.07	1/2	2,076.04	1/2	1,688.01	1/2	1,299.99	1/2	911.96	1/2	524.82	1/2	137.21	1/2	1/2		1/2		1/2
3/4	2,455.98	3/4	2,067.96	3/4	1,679.93	3/4	1,291.90	3/4	903.88	3/4	516.75	3/4	129.14	3/4	3/4		3/4		3/4
1	2,447.90	1	2,059.87	1	1,671.85	1	1,283.82	1	895.80	1	508.67	1	121.06	1	1		1		1
1/4	2,439.82	1/4	2,051.79	1/4	1,663.76	1/4	1,275.74	1/4	887.73	1/4	500.60	1/4	112.99	1/4	1/4		1/4		1/4
1/2	2,431.73	1/2	2,043.71	1/2	1,655.68	1/2	1,267.65	1/2	879.66	1/2	492.52	1/2	104.91	1/2	1/2		1/2		1/2
3/4	2,423.65	3/4	2,035.62	3/4	1,647.59	3/4	1,259.57	3/4	871.59	3/4	484.45	3/4	96.84	3/4	3/4		3/4		3/4
2	2,415.56	2	2,027.54	2	1,639.51	2	1,251.48	2	863.53	2	476.37	2	88.76	2	2		2		2
1/4	2,407.48	1/4	2,019.45	1/4	1,631.43	1/4	1,243.40	1/4	855.47	1/4	468.30	1/4	80.69	1/4	1/4		1/4		1/4
1/2	2,399.40	1/2	2,011.37	1/2	1,623.34	1/2	1,235.32	1/2	847.41	1/2	460.22	1/2	72.61	1/2	1/2		1/2		1/2
3/4	2,391.31	3/4	2,003.29	3/4	1,615.26	3/4	1,227.23	3/4	839.35	3/4	452.15	3/4	64.54	3/4	3/4		3/4		3/4
3	2,383.23	3	1,995.20	3	1,607.17	3	1,219.15	3	831.29	3	444.07	3	57.47	3	3		3		3
1/4	2,375.15	1/4	1,987.12	1/4	1,599.09	1/4	1,211.06	1/4	823.23	1/4	436.00	1/4	50.40	1/4	1/4		1/4		1/4
1/2	2,367.06	1/2	1,979.03	1/2	1,591.01	1/2	1,202.98	1/2	815.17	1/2	427.92	1/2	43.34	1/2	1/2		1/2		1/2
3/4	2,358.98	3/4	1,970.95	3/4	1,582.92	3/4	1,194.90	3/4	807.11	3/4	419.84	3/4	36.27	3/4	3/4		3/4		3/4
4	2,350.89	4	1,962.87	4	1,574.84	4	1,186.81	4	799.05	4	411.77	4	31.23	4	4		4		4
1/4	2,342.81	1/4	1,954.78	1/4	1,566.76	1/4	1,178.73	1/4	790.99	1/4	403.69	1/4	26.19	1/4	1/4		1/4		1/4
1/2	2,334.73	1/2	1,946.70	1/2	1,558.67	1/2	1,170.64	1/2	782.93	1/2	395.62	1/2	21.14	1/2	1/2		1/2		1/2
3/4	2,326.64	3/4	1,938.61	3/4	1,550.59	3/4	1,162.56	3/4	774.88	3/4	387.54	3/4	16.10	3/4	3/4		3/4		3/4
5	2,318.56	5	1,930.53	5	1,542.50	5	1,154.48	5	766.82	5	379.47	5		5	5		5		5
1/4	2,310.47	1/4	1,922.45	1/4	1,534.42	1/4	1,146.39	1/4	758.76	1/4	371.39	1/4		1/4	1/4		1/4		1/4
1/2	2,302.39	1/2	1,914.36	1/2	1,526.34	1/2	1,138.31	1/2	750.70	1/2	363.32	1/2		1/2	1/2		1/2		1/2
3/4	2,294.31	3/4	1,906.28	3/4	1,518.25	3/4	1,130.22	3/4	742.64	3/4	355.24	3/4		3/4	3/4		3/4		3/4
6	2,286.22	6	1,898.20	6	1,510.17	6	1,122.14	6	734.58	6	347.17	6		6	6		6		6
1/4	2,278.14	1/4	1,890.11	1/4	1,502.08	1/4	1,114.06	1/4	726.52	1/4	339.09	1/4		1/4	1/4		1/4		1/4
1/2	2,270.05	1/2	1,882.03	1/2	1,494.00	1/2	1,105.97	1/2	718.46	1/2	331.02	1/2		1/2	1/2		1/2		1/2
3/4	2,261.97	3/4	1,873.94	3/4	1,485.92	3/4	1,097.89	3/4	710.40	3/4	322.94	3/4		3/4	3/4		3/4		3/4
7	2,253.89	7	1,865.86	7	1,477.83	7	1,089.81	7	702.34	7	314.87	7		7	7		7		7
1/4	2,245.80	1/4	1,857.78	1/4	1,469.75	1/4	1,081.72	1/4	694.28	1/4	306.79	1/4		1/4	1/4		1/4		1/4
1/2	2,237.72	1/2	1,849.69	1/2	1,461.66	1/2	1,073.64	1/2	686.22	1/2	298.72	1/2		1/2	1/2		1/2		1/2
3/4	2,229.64	3/4	1,841.61	3/4	1,453.58	3/4	1,065.55	3/4	678.16	3/4	290.64	3/4		3/4	3/4		3/4		3/4
8	2,221.55	8	1,833.52	8	1,445.50	8	1,057.47	8	670.10	8	282.57	8		8	8		8		8
1/4	2,213.47	1/4	1,825.44	1/4	1,437.41	1/4	1,049.39	1/4	662.04	1/4	274.49	1/4		1/4	1/4		1/4		1/4
1/2	2,205.38	1/2	1,817.36	1/2	1,429.33	1/2	1,041.30	1/2	653.98	1/2	266.42	1/2		1/2	1/2		1/2		1/2
3/4	2,197.30	3/4	1,809.27	3/4	1,421.25	3/4	1,033.22	3/4	645.92	3/4	258.34	3/4		3/4	3/4		3/4		3/4
9	2,189.22	9	1,801.19	9	1,413.16	9	1,025.13	9	637.85	9	250.27	9		9	9		9		9
1/4	2,181.13	1/4	1,793.10	1/4	1,405.08	1/4	1,017.05	1/4	629.79	1/4	242.19	1/4		1/4	1/4		1/4		1/4
1/2	2,173.05	1/2	1,785.02	1/2	1,396.99	1/2	1,008.97	1/2	621.72	1/2	234.12	1/2		1/2	1/2		1/2		1/2
3/4	2,164.96	3/4	1,776.94	3/4	1,388.91	3/4	1,000.88	3/4	613.65	3/4	226.04	3/4		3/4	3/4		3/4		3/4
10	2,156.88	10	1,768.85	10	1,380.83	10	992.80	10	605.57	10	217.96	10		10	10		10		10
1/4	2,148.80	1/4	1,760.77	1/4	1,372.74	1/4	984.71	1/4	597.50	1/4	209.89	1/4		1/4	1/4		1/4		1/4
1/2	2,140.71	1/2	1,752.69	1/2	1,364.66	1/2	976.63	1/2	589.42	1/2	201.81	1/2		1/2	1/2		1/2		1/2
3/4	2,132.63	3/4	1,744.60	3/4	1,356.57	3/4	968.55	3/4	581.35	3/4	193.74	3/4		3/4	3/4		3/4		3/4
11	2,124.54	11	1,736.52	11	1,348.49	11	960.46	11	573.27	11	185.66	11		11	11		11		11
1/4	2,116.46	1/4	1,728.43	1/4	1,340.41	1/4	952.38	1/4	565.20	1/4	177.59	1/4		1/4	1/4		1/4		1/4
1/2	2,108.38	1/2	1,720.35	1/2	1,332.32	1/2	944.30	1/2	557.12	1/2	169.51	1/2		1/2	1/2		1/2		1/2
3/4	2,100.29	3/4	1,712.27	3/4	1,324.24	3/4	936.21	3/4	549.05	3/4	161.44	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2012 CL - SW
CALCULATED: 12/10/2012 CL
PRINTED: 12/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "KIRBY 29051"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
1/4		1/4		1/4		1/4	5,074.53	1/4	4,737.02	1/4	4,381.76	1/4	4,009.97	1/4	3,624.07	1/4	3,235.96	1/4	2,847.79		
1/2		1/2		1/2		1/2	5,067.61	1/2	4,729.84	1/2	4,374.17	1/2	4,002.06	1/2	3,615.99	1/2	3,227.87	1/2	2,839.70		
3/4		3/4		3/4		3/4	5,060.68	3/4	4,722.66	3/4	4,366.59	3/4	3,994.15	3/4	3,607.90	3/4	3,219.79	3/4	2,831.62		
1	1	1	1	1	1	1	5,053.73	1	4,715.45	1	4,358.99	1	3,986.21	1	3,599.82	1	3,211.70	1	2,823.53		
1/4		1/4		1/4		1/4	5,046.78	1/4	4,708.24	1/4	4,351.38	1/4	3,978.26	1/4	3,591.73	1/4	3,203.62	1/4	2,815.44		
1/2		1/2		1/2		1/2	5,039.83	1/2	4,701.03	1/2	4,343.77	1/2	3,970.32	1/2	3,583.65	1/2	3,195.53	1/2	2,807.35		
3/4		3/4		3/4		3/4	5,032.88	3/4	4,693.82	3/4	4,336.16	3/4	3,962.37	3/4	3,575.56	3/4	3,187.45	3/4	2,799.26		
2	2	2	2	2	2	2	5,025.90	2	4,686.59	2	4,328.53	2	3,954.41	2	3,567.47	2	3,179.36	2	2,791.17		
1/4		1/4		1/4		1/4	5,018.92	1/4	4,679.36	1/4	4,320.90	1/4	3,946.44	1/4	3,559.39	1/4	3,171.27	1/4	2,783.09		
1/2		1/2		1/2		1/2	5,011.94	1/2	4,672.12	1/2	4,313.27	1/2	3,938.47	1/2	3,551.30	1/2	3,163.19	1/2	2,775.00		
3/4		3/4		3/4		3/4	5,004.96	3/4	4,664.89	3/4	4,305.63	3/4	3,930.51	3/4	3,543.22	3/4	3,155.10	3/4	2,766.91		
3	3	3	3	3	3	3	4,998.03	3	4,657.56	3	4,297.97	3	3,922.52	3	3,535.13	3	3,147.02	3	2,758.82		
1/4		1/4		1/4		1/4	4,991.09	1/4	4,650.23	1/4	4,290.30	1/4	3,914.53	1/4	3,527.05	1/4	3,138.93	1/4	2,750.73		
1/2		1/2		1/2		1/2	4,984.16	1/2	4,642.90	1/2	4,282.64	1/2	3,906.53	1/2	3,518.96	1/2	3,130.85	1/2	2,742.64		
3/4		3/4		3/4		3/4	4,977.22	3/4	4,635.56	3/4	4,274.98	3/4	3,898.54	3/4	3,510.87	3/4	3,122.76	3/4	2,734.56		
4	4	4	4	4	4	4	4,970.26	4	4,628.20	4	4,267.29	4	3,890.52	4	3,502.79	4	3,114.67	4	2,726.47		
1/4		1/4		1/4		1/4	4,963.30	1/4	4,620.84	1/4	4,259.60	1/4	3,882.49	1/4	3,494.70	1/4	3,106.59	1/4	2,718.38		
1/2		1/2		1/2		1/2	4,956.34	1/2	4,613.48	1/2	4,251.91	1/2	3,874.47	1/2	3,486.62	1/2	3,098.50	1/2	2,710.29		
3/4		3/4		3/4		3/4	4,949.38	3/4	4,606.12	3/4	4,244.22	3/4	3,866.44	3/4	3,478.53	3/4	3,090.42	3/4	2,702.20		
5	5	5	5	5	5	5	4,942.39	5	4,598.73	5	4,236.50	5	3,858.39	5	3,470.45	5	3,082.33	5	2,694.12		
1/4		1/4		1/4		1/4	4,935.40	1/4	4,591.34	1/4	4,228.77	1/4	3,850.35	1/4	3,462.36	1/4	3,074.25	1/4	2,686.03		
1/2		1/2		1/2		1/2	4,928.41	1/2	4,583.96	1/2	4,221.05	1/2	3,842.30	1/2	3,454.27	1/2	3,066.16	1/2	2,677.94		
3/4		3/4		3/4		3/4	4,921.42	3/4	4,576.57	3/4	4,213.33	3/4	3,834.25	3/4	3,446.19	3/4	3,058.07	3/4	2,669.85		
6	6	6	6	6	6	6	4,914.40	6	4,569.15	6	4,205.58	6	3,826.18	6	3,438.10	6	3,049.99	6	2,661.76		
1/4		1/4		1/4	5,257.52	1/4	4,907.39	1/4	4,561.73	1/4	4,197.84	1/4	3,818.11	1/4	3,430.02	1/4	3,041.90	1/4	2,653.67		
1/2		1/2		1/2	5,251.45	1/2	4,900.37	1/2	4,554.31	1/2	4,190.09	1/2	3,810.03	1/2	3,421.93	1/2	3,033.82	1/2	2,645.59		
3/4		3/4		3/4	5,245.39	3/4	4,893.35	3/4	4,546.88	3/4	4,182.35	3/4	3,801.96	3/4	3,413.85	3/4	3,025.73	3/4	2,637.50		
7	7	7	7	7	7	7	5,237.30	7	4,886.31	7	4,539.44	7	4,174.57	7	3,793.87	7	3,405.76	7	3,017.64	7	2,629.41
1/4		1/4		1/4	5,229.21	1/4	4,879.26	1/4	4,532.00	1/4	4,166.80	1/4	3,785.79	1/4	3,397.67	1/4	3,009.56	1/4	2,621.32		
1/2		1/2		1/2	5,221.12	1/2	4,872.21	1/2	4,524.55	1/2	4,159.03	1/2	3,777.70	1/2	3,389.59	1/2	3,001.47	1/2	2,613.23		
3/4		3/4		3/4	5,213.04	3/4	4,865.16	3/4	4,517.11	3/4	4,151.26	3/4	3,769.62	3/4	3,381.50	3/4	2,993.38	3/4	2,605.15		
8	8	8	8	8	8	8	5,204.95	8	4,858.09	8	4,509.64	8	4,143.46	8	3,761.53	8	3,373.42	8	2,985.29	8	2,597.06
1/4		1/4		1/4	5,196.86	1/4	4,851.02	1/4	4,502.17	1/4	4,135.65	1/4	3,753.44	1/4	3,365.33	1/4	2,977.20	1/4	2,588.97		
1/2		1/2		1/2	5,188.77	1/2	4,843.95	1/2	4,494.70	1/2	4,127.85	1/2	3,745.36	1/2	3,357.25	1/2	2,969.11	1/2	2,580.88		
3/4		3/4		3/4	5,180.68	3/4	4,836.88	3/4	4,487.23	3/4	4,120.05	3/4	3,737.27	3/4	3,349.16	3/4	2,961.03	3/4	2,572.79		
9	9	9	9	9	9	9	5,172.59	9	4,829.78	9	4,479.73	9	4,112.22	9	3,729.19	9	3,341.07	9	2,952.94	9	2,564.70
1/4		1/4		1/4	5,164.51	1/4	4,822.69	1/4	4,472.23	1/4	4,104.39	1/4	3,721.10	1/4	3,332.99	1/4	2,944.85	1/4	2,556.62		
1/2		1/2		1/2	5,156.42	1/2	4,815.59	1/2	4,464.73	1/2	4,096.56	1/2	3,713.02	1/2	3,324.90	1/2	2,936.76	1/2	2,548.53		
3/4		3/4		3/4	5,148.33	3/4	4,808.50	3/4	4,457.23	3/4	4,088.74	3/4	3,704.93	3/4	3,316.82	3/4	2,928.67	3/4	2,540.44		
10	10	10	10	10	10	10	5,140.24	10	4,801.37	10	4,449.70	10	4,080.88	10	3,696.85	10	3,308.73	10	2,920.59	10	2,532.35
1/4		1/4		1/4	5,132.15	1/4	4,794.24	1/4	4,442.18	1/4	4,073.03	1/4	3,688.76	1/4	3,300.65	1/4	2,912.50	1/4	2,524.26		
1/2		1/2		1/2	5,124.07	1/2	4,787.11	1/2	4,434.65	1/2	4,065.18	1/2	3,680.67	1/2	3,292.56	1/2	2,904.41	1/2	2,516.18		
3/4		3/4		3/4	5,115.98	3/4	4,779.98	3/4	4,427.13	3/4	4,057.32	3/4	3,672.59	3/4	3,284.47	3/4	2,896.32	3/4	2,508.09		
11	11	11	11	11	11	11	5,109.08	11	4,772.83	11	4,419.57	11	4,049.44	11	3,664.50	11	3,276.39	11	2,888.23	11	2,500.00
1/4		1/4		1/4	5,102.18	1/4	4,765.68	1/4	4,412.02	1/4	4,041.56	1/4	3,656.42	1/4	3,268.30	1/4	2,880.14	1/4	2,491.91		
1/2		1/2		1/2	5,095.28	1/2	4,758.52	1/2	4,404.47	1/2	4,033.67	1/2	3,648.33	1/2	3,260.22	1/2	2,872.06	1/2	2,483.82		
3/4		3/4		3/4	5,088.38	3/4	4,751.37	3/4	4,396.92	3/4	4,025.79	3/4	3,640.25	3/4	3,252.13	3/4	2,863.97	3/4	2,475.73		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" 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 29051"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,467.65	0	2,079.41	0	1,691.18	0	1,302.95	0	915.63	0	542.16	0	153.98	0		0		0	
1/4	2,459.56	1/4	2,071.32	1/4	1,683.09	1/4	1,294.86	1/4	907.85	1/4	534.07	1/4	145.89	1/4	1/4		1/4		1/4
1/2	2,451.47	1/2	2,063.24	1/2	1,675.00	1/2	1,286.77	1/2	900.07	1/2	525.99	1/2	137.80	1/2	1/2		1/2		1/2
3/4	2,443.38	3/4	2,055.15	3/4	1,666.91	3/4	1,278.68	3/4	892.30	3/4	517.90	3/4	129.71	3/4	3/4		3/4		3/4
1	2,435.29	1	2,047.06	1	1,658.83	1	1,270.59	1	884.53	1	509.81	1	121.63	1	1		1		1
1/4	2,427.21	1/4	2,038.97	1/4	1,650.74	1/4	1,262.50	1/4	876.77	1/4	501.72	1/4	113.54	1/4	1/4		1/4		1/4
1/2	2,419.12	1/2	2,030.88	1/2	1,642.65	1/2	1,254.42	1/2	869.00	1/2	493.64	1/2	105.45	1/2	1/2		1/2		1/2
3/4	2,411.03	3/4	2,022.80	3/4	1,634.56	3/4	1,246.33	3/4	861.24	3/4	485.55	3/4	97.36	3/4	3/4		3/4		3/4
2	2,402.94	2	2,014.71	2	1,626.47	2	1,238.24	2	853.48	2	477.46	2	89.28	2	2		2		2
1/4	2,394.85	1/4	2,006.62	1/4	1,618.39	1/4	1,230.15	1/4	845.73	1/4	469.38	1/4	81.19	1/4	1/4		1/4		1/4
1/2	2,386.76	1/2	1,998.53	1/2	1,610.30	1/2	1,222.06	1/2	837.97	1/2	461.29	1/2	73.10	1/2	1/2		1/2		1/2
3/4	2,378.68	3/4	1,990.44	3/4	1,602.21	3/4	1,213.98	3/4	830.22	3/4	453.20	3/4	65.02	3/4	3/4		3/4		3/4
3	2,370.59	3	1,982.35	3	1,594.12	3	1,205.89	3	822.47	3	445.11	3	57.94	3	3		3		3
1/4	2,362.50	1/4	1,974.27	1/4	1,586.03	1/4	1,197.80	1/4	814.71	1/4	437.03	1/4	50.86	1/4	1/4		1/4		1/4
1/2	2,354.41	1/2	1,966.18	1/2	1,577.94	1/2	1,189.71	1/2	806.96	1/2	428.94	1/2	43.78	1/2	1/2		1/2		1/2
3/4	2,346.32	3/4	1,958.09	3/4	1,569.86	3/4	1,181.62	3/4	799.20	3/4	420.85	3/4	36.71	3/4	3/4		3/4		3/4
4	2,338.23	4	1,950.00	4	1,561.77	4	1,173.53	4	791.45	4	412.77	4	31.65	4	4		4		4
1/4	2,330.15	1/4	1,941.91	1/4	1,553.68	1/4	1,165.45	1/4	783.70	1/4	404.68	1/4	26.60	1/4	1/4		1/4		1/4
1/2	2,322.06	1/2	1,933.82	1/2	1,545.59	1/2	1,157.36	1/2	775.94	1/2	396.59	1/2	21.54	1/2	1/2		1/2		1/2
3/4	2,313.97	3/4	1,925.74	3/4	1,537.50	3/4	1,149.27	3/4	768.19	3/4	388.50	3/4	16.49	3/4	3/4		3/4		3/4
5	2,305.88	5	1,917.65	5	1,529.41	5	1,141.18	5	760.43	5	380.42	5		5	5		5		5
1/4	2,297.79	1/4	1,909.56	1/4	1,521.33	1/4	1,133.09	1/4	752.68	1/4	372.33	1/4		1/4	1/4		1/4		1/4
1/2	2,289.71	1/2	1,901.47	1/2	1,513.24	1/2	1,125.00	1/2	744.93	1/2	364.24	1/2		1/2	1/2		1/2		1/2
3/4	2,281.62	3/4	1,893.38	3/4	1,505.15	3/4	1,116.92	3/4	737.17	3/4	356.16	3/4		3/4	3/4		3/4		3/4
6	2,273.53	6	1,885.30	6	1,497.06	6	1,108.83	6	729.42	6	348.07	6		6	6		6		6
1/4	2,265.44	1/4	1,877.21	1/4	1,488.97	1/4	1,100.74	1/4	721.66	1/4	339.98	1/4		1/4	1/4		1/4		1/4
1/2	2,257.35	1/2	1,869.12	1/2	1,480.89	1/2	1,092.65	1/2	713.91	1/2	331.89	1/2		1/2	1/2		1/2		1/2
3/4	2,249.26	3/4	1,861.03	3/4	1,472.80	3/4	1,084.56	3/4	706.16	3/4	323.81	3/4		3/4	3/4		3/4		3/4
7	2,241.18	7	1,852.94	7	1,464.71	7	1,076.48	7	698.40	7	315.72	7		7	7		7		7
1/4	2,233.09	1/4	1,844.85	1/4	1,456.62	1/4	1,068.39	1/4	690.65	1/4	307.63	1/4		1/4	1/4		1/4		1/4
1/2	2,225.00	1/2	1,836.77	1/2	1,448.53	1/2	1,060.30	1/2	682.90	1/2	299.54	1/2		1/2	1/2		1/2		1/2
3/4	2,216.91	3/4	1,828.68	3/4	1,440.44	3/4	1,052.21	3/4	675.15	3/4	291.46	3/4		3/4	3/4		3/4		3/4
8	2,208.82	8	1,820.59	8	1,432.36	8	1,044.12	8	667.40	8	283.37	8		8	8		8		8
1/4	2,200.74	1/4	1,812.50	1/4	1,424.27	1/4	1,036.03	1/4	659.64	1/4	275.28	1/4		1/4	1/4		1/4		1/4
1/2	2,192.65	1/2	1,804.41	1/2	1,416.18	1/2	1,027.95	1/2	651.89	1/2	267.20	1/2		1/2	1/2		1/2		1/2
3/4	2,184.56	3/4	1,796.33	3/4	1,408.09	3/4	1,019.86	3/4	644.14	3/4	259.11	3/4		3/4	3/4		3/4		3/4
9	2,176.47	9	1,788.24	9	1,400.00	9	1,011.77	9	636.38	9	251.02	9		9	9		9		9
1/4	2,168.38	1/4	1,780.15	1/4	1,391.92	1/4	1,003.68	1/4	628.61	1/4	242.93	1/4		1/4	1/4		1/4		1/4
1/2	2,160.29	1/2	1,772.06	1/2	1,383.83	1/2	995.59	1/2	620.85	1/2	234.85	1/2		1/2	1/2		1/2		1/2
3/4	2,152.21	3/4	1,763.97	3/4	1,375.74	3/4	987.51	3/4	613.09	3/4	226.76	3/4		3/4	3/4		3/4		3/4
10	2,144.12	10	1,755.88	10	1,367.65	10	979.42	10	605.31	10	218.67	10		10	10		10		10
1/4	2,136.03	1/4	1,747.80	1/4	1,359.56	1/4	971.33	1/4	597.54	1/4	210.59	1/4		1/4	1/4		1/4		1/4
1/2	2,127.94	1/2	1,739.71	1/2	1,351.47	1/2	963.24	1/2	589.76	1/2	202.50	1/2		1/2	1/2		1/2		1/2
3/4	2,119.85	3/4	1,731.62	3/4	1,343.39	3/4	955.15	3/4	581.98	3/4	194.41	3/4		3/4	3/4		3/4		3/4
11	2,111.77	11	1,723.53	11	1,335.30	11	947.22	11	574.05	11	186.32	11		11	11		11		11
1/4	2,103.68	1/4	1,715.44	1/4	1,327.21	1/4	939.28	1/4	566.12	1/4	178.24	1/4		1/4	1/4		1/4		1/4
1/2	2,095.59	1/2	1,707.36	1/2	1,319.12	1/2	931.35	1/2	558.18	1/2	170.15	1/2		1/2	1/2		1/2		1/2
3/4	2,087.50	3/4	1,699.27	3/4	1,311.03	3/4	923.41	3/4	550.25	3/4	162.06	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2012 CL - SW
CALCULATED: 12/10/2012 CL
PRINTED: 12/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "KIRBY 29051"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,487.45	0	4,231.33	0	3,962.30	0	3,680.86	0	3,385.70	0	3,029.24	0	2,668.43
1/4		1/4		1/4		1/4	4,482.21	1/4	4,225.88	1/4	3,956.55	1/4	3,674.87	1/4	3,378.88	1/4	3,021.72	1/4	2,660.91
1/2		1/2		1/2		1/2	4,476.96	1/2	4,220.42	1/2	3,950.81	1/2	3,668.88	1/2	3,372.06	1/2	3,014.20	1/2	2,653.39
3/4		3/4		3/4		3/4	4,471.72	3/4	4,214.97	3/4	3,945.07	3/4	3,662.89	3/4	3,365.24	3/4	3,006.69	3/4	2,645.87
1		1		1		1	4,466.45	1	4,209.49	1	3,939.30	1	3,656.87	1	3,358.14	1	2,999.17	1	2,638.35
1/4		1/4		1/4		1/4	4,461.19	1/4	4,204.01	1/4	3,933.54	1/4	3,650.85	1/4	3,351.04	1/4	2,991.66	1/4	2,630.84
1/2		1/2		1/2		1/2	4,455.93	1/2	4,198.53	1/2	3,927.77	1/2	3,644.83	1/2	3,343.94	1/2	2,984.14	1/2	2,623.32
3/4		3/4		3/4		3/4	4,450.66	3/4	4,193.05	3/4	3,922.01	3/4	3,638.81	3/4	3,336.84	3/4	2,976.62	3/4	2,615.80
2		2		2		2	4,445.37	2	4,187.56	2	3,916.23	2	3,632.77	2	3,329.46	2	2,969.11	2	2,608.28
1/4		1/4		1/4		1/4	4,440.08	1/4	4,182.06	1/4	3,910.45	1/4	3,626.74	1/4	3,322.09	1/4	2,961.59	1/4	2,600.76
1/2		1/2		1/2		1/2	4,434.80	1/2	4,176.56	1/2	3,904.66	1/2	3,620.70	1/2	3,314.71	1/2	2,954.07	1/2	2,593.25
3/4		3/4		3/4		3/4	4,429.51	3/4	4,171.06	3/4	3,898.88	3/4	3,614.67	3/4	3,307.34	3/4	2,946.56	3/4	2,585.73
3		3		3		3	4,424.24	3	4,165.51	3	3,893.07	3	3,608.61	3	3,299.82	3	2,939.04	3	2,578.21
1/4		1/4		1/4		1/4	4,418.97	1/4	4,159.96	1/4	3,887.27	1/4	3,602.56	1/4	3,292.30	1/4	2,931.53	1/4	2,570.69
1/2		1/2		1/2		1/2	4,413.70	1/2	4,154.40	1/2	3,881.46	1/2	3,596.50	1/2	3,284.79	1/2	2,924.01	1/2	2,563.18
3/4		3/4		3/4		3/4	4,408.43	3/4	4,148.85	3/4	3,875.65	3/4	3,590.45	3/4	3,277.27	3/4	2,916.49	3/4	2,555.66
4		4		4		4	4,403.14	4	4,143.27	4	3,869.83	4	3,584.37	4	3,269.75	4	2,908.98	4	2,548.14
1/4		1/4		1/4		1/4	4,397.85	1/4	4,137.69	1/4	3,864.00	1/4	3,578.29	1/4	3,262.24	1/4	2,901.46	1/4	2,540.62
1/2		1/2		1/2		1/2	4,392.56	1/2	4,132.12	1/2	3,858.18	1/2	3,572.21	1/2	3,254.72	1/2	2,893.94	1/2	2,533.10
3/4		3/4		3/4		3/4	4,387.27	3/4	4,126.54	3/4	3,852.35	3/4	3,566.13	3/4	3,247.21	3/4	2,886.43	3/4	2,525.59
5		5		5		5	4,381.96	5	4,120.94	5	3,846.50	5	3,560.03	5	3,239.69	5	2,878.91	5	2,518.07
1/4		1/4		1/4		1/4	4,376.65	1/4	4,115.34	1/4	3,840.65	1/4	3,553.93	1/4	3,232.17	1/4	2,871.40	1/4	2,510.55
1/2		1/2		1/2		1/2	4,371.33	1/2	4,109.75	1/2	3,834.80	1/2	3,547.84	1/2	3,224.66	1/2	2,863.88	1/2	2,503.03
3/4		3/4		3/4		3/4	4,366.02	3/4	4,104.15	3/4	3,828.95	3/4	3,541.74	3/4	3,217.14	3/4	2,856.36	3/4	2,495.52
6		6		6		6	4,360.69	6	4,098.53	6	3,823.08	6	3,535.62	6	3,209.63	6	2,848.85	6	2,488.00
1/4		1/4		1/4	4,620.84	1/4	4,355.36	1/4	4,092.91	1/4	3,817.21	1/4	3,529.51	1/4	3,202.11	1/4	2,841.33	1/4	2,480.48
1/2		1/2		1/2	4,616.24	1/2	4,350.03	1/2	4,087.28	1/2	3,811.34	1/2	3,523.39	1/2	3,194.59	1/2	2,833.82	1/2	2,472.96
3/4		3/4		3/4	4,611.65	3/4	4,344.69	3/4	4,081.66	3/4	3,805.47	3/4	3,517.27	3/4	3,187.08	3/4	2,826.30	3/4	2,465.44
7		7		7	4,605.52	7	4,339.34	7	4,076.02	7	3,799.58	7	3,511.15	7	3,179.56	7	2,818.78	7	2,457.93
1/4		1/4		1/4	4,599.39	1/4	4,333.98	1/4	4,070.38	1/4	3,793.70	1/4	3,505.02	1/4	3,172.04	1/4	2,811.26	1/4	2,450.41
1/2		1/2		1/2	4,593.26	1/2	4,328.62	1/2	4,064.74	1/2	3,787.81	1/2	3,498.89	1/2	3,164.53	1/2	2,803.75	1/2	2,442.89
3/4		3/4		3/4	4,587.14	3/4	4,323.27	3/4	4,059.10	3/4	3,781.92	3/4	3,492.77	3/4	3,157.01	3/4	2,796.23	3/4	2,435.37
8		8		8	4,581.01	8	4,317.89	8	4,053.44	8	3,776.01	8	3,486.64	8	3,149.50	8	2,788.71	8	2,427.86
1/4		1/4		1/4	4,574.88	1/4	4,312.52	1/4	4,047.79	1/4	3,770.10	1/4	3,480.52	1/4	3,141.98	1/4	2,781.19	1/4	2,420.34
1/2		1/2		1/2	4,568.75	1/2	4,307.15	1/2	4,042.13	1/2	3,764.18	1/2	3,474.39	1/2	3,134.46	1/2	2,773.67	1/2	2,412.82
3/4		3/4		3/4	4,562.63	3/4	4,301.77	3/4	4,036.47	3/4	3,758.27	3/4	3,468.26	3/4	3,126.95	3/4	2,766.16	3/4	2,405.30
9		9		9	4,556.50	9	4,296.38	9	4,030.78	9	3,752.34	9	3,462.14	9	3,119.43	9	2,758.64	9	2,397.78
1/4		1/4		1/4	4,550.37	1/4	4,290.99	1/4	4,025.10	1/4	3,746.41	1/4	3,456.01	1/4	3,111.91	1/4	2,751.12	1/4	2,390.27
1/2		1/2		1/2	4,544.24	1/2	4,285.59	1/2	4,019.42	1/2	3,740.48	1/2	3,449.88	1/2	3,104.40	1/2	2,743.60	1/2	2,382.75
3/4		3/4		3/4	4,538.12	3/4	4,280.20	3/4	4,013.73	3/4	3,734.55	3/4	3,443.76	3/4	3,096.88	3/4	2,736.09	3/4	2,375.23
10		10		10	4,531.99	10	4,274.78	10	4,008.03	10	3,728.60	10	3,437.49	10	3,089.37	10	2,728.57	10	2,367.71
1/4		1/4		1/4	4,525.86	1/4	4,269.37	1/4	4,002.33	1/4	3,722.65	1/4	3,431.23	1/4	3,081.85	1/4	2,721.05	1/4	2,360.20
1/2		1/2		1/2	4,519.73	1/2	4,263.95	1/2	3,996.63	1/2	3,716.70	1/2	3,424.96	1/2	3,074.33	1/2	2,713.53	1/2	2,352.68
3/4		3/4		3/4	4,513.61	3/4	4,258.53	3/4	3,990.93	3/4	3,710.75	3/4	3,418.70	3/4	3,066.82	3/4	2,706.01	3/4	2,345.16
11		11		11	4,508.38	11	4,253.09	11	3,985.21	11	3,704.78	11	3,412.15	11	3,059.30	11	2,698.50	11	2,337.64
1/4		1/4		1/4	4,503.15	1/4	4,247.66	1/4	3,979.49	1/4	3,698.80	1/4	3,405.61	1/4	3,051.78	1/4	2,690.98	1/4	2,330.12
1/2		1/2		1/2	4,497.92	1/2	4,242.22	1/2	3,973.76	1/2	3,692.83	1/2	3,399.07	1/2	3,044.27	1/2	2,683.46	1/2	2,322.61
3/4		3/4		3/4	4,492.70	3/4	4,236.79	3/4	3,968.04	3/4	3,686.86	3/4	3,392.52	3/4	3,036.75	3/4	2,675.94	3/4	2,315.09

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" 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 29051"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,300.05	1/4	1,939.20	1/4	1,578.34	1/4	1,217.49	1/4	857.43	1/4	496.59	1/4	135.76	1/4		1/4		1/4			
1/2	2,292.53	1/2	1,931.68	1/2	1,570.83	1/2	1,209.97	1/2	849.91	1/2	489.08	1/2	128.24	1/2		1/2		1/2			
3/4	2,285.02	3/4	1,924.16	3/4	1,563.31	3/4	1,202.45	3/4	842.39	3/4	481.56	3/4	120.72	3/4		3/4		3/4			
1	2,277.50	1	1,916.64	1	1,555.79	1	1,194.94	1	834.88	1	474.04	1	113.21	1		1		1			
1/4	2,269.98	1/4	1,909.13	1/4	1,548.27	1/4	1,187.42	1/4	827.36	1/4	466.52	1/4	105.69	1/4		1/4		1/4			
1/2	2,262.46	1/2	1,901.61	1/2	1,540.75	1/2	1,179.90	1/2	819.84	1/2	459.01	1/2	98.17	1/2		1/2		1/2			
3/4	2,254.95	3/4	1,894.09	3/4	1,533.24	3/4	1,172.38	3/4	812.33	3/4	451.49	3/4	90.65	3/4		3/4		3/4			
2	2,247.43	2	1,886.57	2	1,525.72	2	1,164.86	2	804.81	2	443.97	2	83.14	2		2		2			
1/4	2,239.91	1/4	1,879.06	1/4	1,518.20	1/4	1,157.35	1/4	797.29	1/4	436.46	1/4	75.62	1/4		1/4		1/4			
1/2	2,232.39	1/2	1,871.54	1/2	1,510.68	1/2	1,149.83	1/2	789.77	1/2	428.94	1/2	68.10	1/2		1/2		1/2			
3/4	2,224.87	3/4	1,864.02	3/4	1,503.17	3/4	1,142.31	3/4	782.26	3/4	421.42	3/4	60.59	3/4		3/4		3/4			
3	2,217.36	3	1,856.50	3	1,495.65	3	1,134.79	3	774.74	3	413.90	3	54.01	3		3		3			
1/4	2,209.84	1/4	1,848.98	1/4	1,488.13	1/4	1,127.28	1/4	767.22	1/4	406.39	1/4	47.43	1/4		1/4		1/4			
1/2	2,202.32	1/2	1,841.47	1/2	1,480.61	1/2	1,119.76	1/2	759.70	1/2	398.87	1/2	40.85	1/2		1/2		1/2			
3/4	2,194.80	3/4	1,833.95	3/4	1,473.09	3/4	1,112.24	3/4	752.19	3/4	391.35	3/4	34.27	3/4		3/4		3/4			
4	2,187.29	4	1,826.43	4	1,465.58	4	1,104.75	4	744.67	4	383.83	4	29.57	4		4		4			
1/4	2,179.77	1/4	1,818.91	1/4	1,458.06	1/4	1,097.25	1/4	737.15	1/4	376.32	1/4	24.87	1/4		1/4		1/4			
1/2	2,172.25	1/2	1,811.40	1/2	1,450.54	1/2	1,089.76	1/2	729.63	1/2	368.80	1/2	20.18	1/2		1/2		1/2			
3/4	2,164.73	3/4	1,803.88	3/4	1,443.02	3/4	1,082.27	3/4	722.12	3/4	361.28	3/4	15.48	3/4		3/4		3/4			
5	2,157.21	5	1,796.36	5	1,435.51	5	1,074.78	5	714.60	5	353.76	5		5		5		5			
1/4	2,149.70	1/4	1,788.84	1/4	1,427.99	1/4	1,067.28	1/4	707.08	1/4	346.25	1/4		1/4		1/4		1/4			
1/2	2,142.18	1/2	1,781.32	1/2	1,420.47	1/2	1,059.79	1/2	699.56	1/2	338.73	1/2		1/2		1/2		1/2			
3/4	2,134.66	3/4	1,773.81	3/4	1,412.95	3/4	1,052.30	3/4	692.05	3/4	331.21	3/4		3/4		3/4		3/4			
6	2,127.14	6	1,766.29	6	1,405.43	6	1,044.80	6	684.53	6	323.69	6		6		6		6			
1/4	2,119.63	1/4	1,758.77	1/4	1,397.92	1/4	1,037.31	1/4	677.01	1/4	316.18	1/4		1/4		1/4		1/4			
1/2	2,112.11	1/2	1,751.25	1/2	1,390.40	1/2	1,029.82	1/2	669.49	1/2	308.66	1/2		1/2		1/2		1/2			
3/4	2,104.59	3/4	1,743.74	3/4	1,382.88	3/4	1,022.32	3/4	661.98	3/4	301.14	3/4		3/4		3/4		3/4			
7	2,097.07	7	1,736.22	7	1,375.36	7	1,014.83	7	654.46	7	293.62	7		7		7		7			
1/4	2,089.55	1/4	1,728.70	1/4	1,367.85	1/4	1,007.34	1/4	646.94	1/4	286.11	1/4		1/4		1/4		1/4			
1/2	2,082.04	1/2	1,721.18	1/2	1,360.33	1/2	999.85	1/2	639.42	1/2	278.59	1/2		1/2		1/2		1/2			
3/4	2,074.52	3/4	1,713.66	3/4	1,352.81	3/4	992.35	3/4	631.91	3/4	271.07	3/4		3/4		3/4		3/4			
8	2,067.00	8	1,706.15	8	1,345.29	8	984.86	8	624.39	8	263.55	8		8		8		8			
1/4	2,059.48	1/4	1,698.63	1/4	1,337.77	1/4	977.37	1/4	616.87	1/4	256.04	1/4		1/4		1/4		1/4			
1/2	2,051.97	1/2	1,691.11	1/2	1,330.26	1/2	969.87	1/2	609.36	1/2	248.52	1/2		1/2		1/2		1/2			
3/4	2,044.45	3/4	1,683.59	3/4	1,322.74	3/4	962.38	3/4	601.84	3/4	241.00	3/4		3/4		3/4		3/4			
9	2,036.93	9	1,676.08	9	1,315.22	9	954.89	9	594.32	9	233.49	9		9		9		9			
1/4	2,029.41	1/4	1,668.56	1/4	1,307.70	1/4	947.39	1/4	586.80	1/4	225.97	1/4		1/4		1/4		1/4			
1/2	2,021.89	1/2	1,661.04	1/2	1,300.19	1/2	939.90	1/2	579.29	1/2	218.45	1/2		1/2		1/2		1/2			
3/4	2,014.38	3/4	1,653.52	3/4	1,292.67	3/4	932.41	3/4	571.77	3/4	210.93	3/4		3/4		3/4		3/4			
10	2,006.86	10	1,646.00	10	1,285.15	10	924.92	10	564.25	10	203.42	10		10		10		10			
1/4	1,999.34	1/4	1,638.49	1/4	1,277.63	1/4	917.42	1/4	556.73	1/4	195.90	1/4		1/4		1/4		1/4			
1/2	1,991.82	1/2	1,630.97	1/2	1,270.11	1/2	909.93	1/2	549.22	1/2	188.38	1/2		1/2		1/2		1/2			
3/4	1,984.31	3/4	1,623.45	3/4	1,262.60	3/4	902.44	3/4	541.70	3/4	180.86	3/4		3/4		3/4		3/4			
11	1,976.79	11	1,615.93	11	1,255.08	11	894.94	11	534.18	11	173.35	11		11		11		11			
1/4	1,969.27	1/4	1,608.42	1/4	1,247.56	1/4	887.45	1/4	526.66	1/4	165.83	1/4		1/4		1/4		1/4			
1/2	1,961.75	1/2	1,600.90	1/2	1,240.04	1/2	879.96	1/2	519.15	1/2	158.31	1/2		1/2		1/2		1/2			
3/4	1,954.23	3/4	1,593.38	3/4	1,232.53	3/4	872.46	3/4	511.63	3/4	150.79	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2012 CL - SW
CALCULATED: 12/10/2012 CL
PRINTED: 12/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

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



BARGE "KIRBY 29051"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
0		0		0		0	4,474.01	0	4,217.88	0	3,948.90	0	3,667.46	0	3,372.87	0	3,017.28	0	2,656.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,468.77	1/4	4,212.42	1/4	3,943.15	1/4	3,661.46	1/4	3,366.04	1/4	3,009.77	1/4	2,649.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,463.52	1/2	4,206.96	1/2	3,937.40	1/2	3,655.46	1/2	3,359.21	1/2	3,002.26	1/2	2,641.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,458.27	3/4	4,201.50	3/4	3,931.65	3/4	3,649.47	3/4	3,352.39	3/4	2,994.76	3/4	2,634.30		
1		1		1		1	4,453.02	1	4,196.04	1	3,925.90	1	3,643.47	1	3,345.56	1	2,987.25	1	2,626.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,447.75	1/4	4,190.56	1/4	3,920.13	1/4	3,637.44	1/4	3,338.45	1/4	2,979.74	1/4	2,619.28		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,442.48	1/2	4,185.07	1/2	3,914.36	1/2	3,631.42	1/2	3,331.35	1/2	2,972.23	1/2	2,611.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,437.21	3/4	4,179.59	3/4	3,908.59	3/4	3,625.39	3/4	3,324.24	3/4	2,964.72	3/4	2,604.25		
2		2		2		2	4,431.94	2	4,174.11	2	3,902.82	2	3,619.37	2	3,317.14	2	2,957.21	2	2,596.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,426.65	1/4	4,168.60	1/4	3,897.03	1/4	3,613.33	1/4	3,309.75	1/4	2,949.70	1/4	2,589.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,421.36	1/2	4,163.10	1/2	3,891.25	1/2	3,607.29	1/2	3,302.37	1/2	2,942.19	1/2	2,581.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,416.06	3/4	4,157.60	3/4	3,885.46	3/4	3,601.25	3/4	3,294.99	3/4	2,934.68	3/4	2,574.21		
3		3		3		3	4,410.77	3	4,152.10	3	3,879.67	3	3,595.21	3	3,287.61	3	2,927.17	3	2,566.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,405.49	1/4	4,146.54	1/4	3,873.86	1/4	3,589.15	1/4	3,280.10	1/4	2,919.67	1/4	2,559.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,400.22	1/2	4,140.98	1/2	3,868.05	1/2	3,583.09	1/2	3,272.59	1/2	2,912.16	1/2	2,551.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,394.95	3/4	4,135.42	3/4	3,862.24	3/4	3,577.03	3/4	3,265.08	3/4	2,904.65	3/4	2,544.17		
4		4		4		4	4,389.67	4	4,129.86	4	3,856.43	4	3,570.97	4	3,257.57	4	2,897.14	4	2,536.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,384.38	1/4	4,124.28	1/4	3,850.59	1/4	3,564.88	1/4	3,250.06	1/4	2,889.63	1/4	2,529.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,379.08	1/2	4,118.70	1/2	3,844.76	1/2	3,558.80	1/2	3,242.55	1/2	2,882.12	1/2	2,521.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,373.79	3/4	4,113.11	3/4	3,838.93	3/4	3,552.71	3/4	3,235.04	3/4	2,874.61	3/4	2,514.13		
5		5		5		5	4,368.50	5	4,107.53	5	3,833.10	5	3,546.63	5	3,227.53	5	2,867.10	5	2,506.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,363.18	1/4	4,101.93	1/4	3,827.25	1/4	3,540.52	1/4	3,220.03	1/4	2,859.59	1/4	2,499.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,357.86	1/2	4,096.33	1/2	3,821.39	1/2	3,534.42	1/2	3,212.52	1/2	2,852.08	1/2	2,491.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,352.54	3/4	4,090.73	3/4	3,815.53	3/4	3,528.32	3/4	3,205.01	3/4	2,844.58	3/4	2,484.09		
6		6		6		6	4,347.23	6	4,085.12	6	3,809.68	6	3,522.21	6	3,197.50	6	2,837.07	6	2,476.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,341.89	1/4	4,079.50	1/4	3,803.80	1/4	3,516.09	1/4	3,189.99	1/4	2,829.56	1/4	2,469.07		
1/2	1/2	1/2	1/2	1/2	1/2	4,602.27	4,336.55	1/2	4,073.87	1/2	3,797.93	1/2	3,509.97	1/2	3,182.48	1/2	2,822.05	1/2	2,461.57		
3/4	3/4	3/4	3/4	3/4	3/4	4,597.67	4,331.22	3/4	4,068.24	3/4	3,792.05	3/4	3,503.85	3/4	3,174.97	3/4	2,814.54	3/4	2,454.06		
7		7		7		7	4,593.07	7	4,325.88	7	4,062.61	7	3,786.18	7	3,497.73	7	3,167.46	7	2,807.03	7	2,446.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,586.94	1/4	4,320.52	1/4	4,056.97	1/4	3,780.29	1/4	3,491.59	1/4	3,159.95	1/4	2,799.52	1/4	2,439.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,580.80	1/2	4,315.16	1/2	4,051.33	1/2	3,774.40	1/2	3,485.46	1/2	3,152.44	1/2	2,792.01	1/2	2,431.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,574.67	3/4	4,309.80	3/4	4,045.68	3/4	3,768.50	3/4	3,479.33	3/4	3,144.94	3/4	2,784.50	3/4	2,424.03
8		8		8		8	4,568.54	8	4,304.43	8	4,040.04	8	3,762.61	8	3,473.20	8	3,137.43	8	2,776.99	8	2,416.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,562.40	1/4	4,299.06	1/4	4,034.37	1/4	3,756.69	1/4	3,467.07	1/4	3,129.92	1/4	2,769.48	1/4	2,409.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,556.27	1/2	4,293.68	1/2	4,028.71	1/2	3,750.77	1/2	3,460.94	1/2	3,122.41	1/2	2,761.97	1/2	2,401.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,550.14	3/4	4,288.30	3/4	4,023.05	3/4	3,744.86	3/4	3,454.81	3/4	3,114.90	3/4	2,754.46	3/4	2,394.01
9		9		9		9	4,544.01	9	4,282.92	9	4,017.38	9	3,738.94	9	3,448.67	9	3,107.39	9	2,746.95	9	2,386.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,537.87	1/4	4,277.52	1/4	4,011.69	1/4	3,733.00	1/4	3,442.54	1/4	3,099.88	1/4	2,739.44	1/4	2,379.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,531.74	1/2	4,272.13	1/2	4,006.00	1/2	3,727.07	1/2	3,436.41	1/2	3,092.37	1/2	2,731.93	1/2	2,371.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,525.61	3/4	4,266.73	3/4	4,000.32	3/4	3,721.13	3/4	3,430.28	3/4	3,084.86	3/4	2,724.42	3/4	2,363.98
10		10		10		10	4,519.47	10	4,261.33	10	3,994.63	10	3,715.20	10	3,424.15	10	3,077.35	10	2,716.91	10	2,356.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,513.34	1/4	4,255.91	1/4	3,988.92	1/4	3,709.24	1/4	3,417.88	1/4	3,069.85	1/4	2,709.40	1/4	2,348.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,507.21	1/2	4,250.49	1/2	3,983.21	1/2	3,703.29	1/2	3,411.61	1/2	3,062.34	1/2	2,701.89	1/2	2,341.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,501.07	3/4	4,245.06	3/4	3,977.51	3/4	3,697.33	3/4	3,405.33	3/4	3,054.83	3/4	2,694.38	3/4	2,333.96
11		11		11		11	4,494.94	11	4,239.64	11	3,971.80	11	3,691.38	11	3,399.06	11	3,047.32	11	2,686.87	11	2,326.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,489.71	1/4	4,234.20	1/4	3,966.07	1/4	3,685.40	1/4	3,392.51	1/4	3,039.81	1/4	2,679.36	1/4	2,318.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,484.48	1/2	4,228.76	1/2	3,960.35	1/2	3,679.42	1/2	3,385.97	1/2	3,032.30	1/2	2,671.85	1/2	2,311.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,479.25	3/4	4,223.32	3/4	3,954.62	3/4	3,673.44	3/4	3,379.42	3/4	3,024.79	3/4	2,664.34	3/4	2,303.93

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" 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 29051"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN 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	2,296.42	0	1,937.21	0	1,578.52	0	1,217.98	0	864.22	0	511.32	0	150.92	0		0		0	
1/4	2,288.91	1/4	1,929.76	1/4	1,571.00	1/4	1,210.61	1/4	856.85	1/4	503.88	1/4	143.40	1/4		1/4		1/4	
1/2	2,281.40	1/2	1,922.32	1/2	1,563.49	1/2	1,203.23	1/2	849.47	1/2	496.43	1/2	135.87	1/2		1/2		1/2	
3/4	2,273.89	3/4	1,914.87	3/4	1,555.98	3/4	1,195.86	3/4	842.10	3/4	488.99	3/4	128.35	3/4		3/4		3/4	
1	2,266.38	1	1,907.42	1	1,548.47	1	1,188.48	1	834.73	1	481.55	1	120.82	1		1		1	
1/4	2,258.87	1/4	1,899.98	1/4	1,540.96	1/4	1,181.11	1/4	827.36	1/4	474.03	1/4	113.30	1/4		1/4		1/4	
1/2	2,251.36	1/2	1,892.53	1/2	1,533.45	1/2	1,173.74	1/2	819.98	1/2	466.52	1/2	105.78	1/2		1/2		1/2	
3/4	2,243.85	3/4	1,885.09	3/4	1,525.94	3/4	1,166.36	3/4	812.61	3/4	459.01	3/4	98.25	3/4		3/4		3/4	
2	2,236.33	2	1,877.64	2	1,518.43	2	1,158.99	2	805.24	2	451.50	2	90.73	2		2		2	
1/4	2,228.82	1/4	1,870.20	1/4	1,510.92	1/4	1,151.61	1/4	797.89	1/4	443.98	1/4	83.20	1/4		1/4		1/4	
1/2	2,221.31	1/2	1,862.75	1/2	1,503.40	1/2	1,144.24	1/2	790.53	1/2	436.47	1/2	75.68	1/2		1/2		1/2	
3/4	2,213.80	3/4	1,855.31	3/4	1,495.89	3/4	1,136.86	3/4	783.18	3/4	428.96	3/4	68.16	3/4		3/4		3/4	
3	2,206.29	3	1,847.86	3	1,488.38	3	1,129.49	3	775.82	3	421.45	3	60.63	3		3		3	
1/4	2,198.78	1/4	1,840.42	1/4	1,480.87	1/4	1,122.11	1/4	768.48	1/4	413.94	1/4	54.05	1/4		1/4		1/4	
1/2	2,191.27	1/2	1,832.97	1/2	1,473.36	1/2	1,114.74	1/2	761.14	1/2	406.42	1/2	47.47	1/2		1/2		1/2	
3/4	2,183.76	3/4	1,825.53	3/4	1,465.85	3/4	1,107.36	3/4	753.80	3/4	398.91	3/4	40.88	3/4		3/4		3/4	
4	2,176.25	4	1,818.08	4	1,458.34	4	1,099.99	4	746.46	4	391.40	4	34.30	4		4		4	
1/4	2,168.73	1/4	1,810.64	1/4	1,450.83	1/4	1,092.62	1/4	739.12	1/4	383.89	1/4	29.60	1/4		1/4		1/4	
1/2	2,161.22	1/2	1,803.19	1/2	1,443.32	1/2	1,085.25	1/2	731.78	1/2	376.38	1/2	24.89	1/2		1/2		1/2	
3/4	2,153.71	3/4	1,795.75	3/4	1,435.80	3/4	1,077.89	3/4	724.43	3/4	368.86	3/4	20.19	3/4		3/4		3/4	
5	2,146.20	5	1,788.30	5	1,428.29	5	1,070.52	5	717.09	5	361.35	5	15.49	5		5		5	
1/4	2,138.69	1/4	1,780.85	1/4	1,420.78	1/4	1,063.15	1/4	709.75	1/4	353.84	1/4		1/4		1/4		1/4	
1/2	2,131.18	1/2	1,773.41	1/2	1,413.27	1/2	1,055.78	1/2	702.41	1/2	346.33	1/2		1/2		1/2		1/2	
3/4	2,123.67	3/4	1,765.96	3/4	1,405.76	3/4	1,048.42	3/4	695.06	3/4	338.82	3/4		3/4		3/4		3/4	
6	2,116.16	6	1,758.52	6	1,398.25	6	1,041.05	6	687.72	6	331.30	6		6		6		6	
1/4	2,108.65	1/4	1,751.07	1/4	1,390.74	1/4	1,033.68	1/4	680.38	1/4	323.79	1/4		1/4		1/4		1/4	
1/2	2,101.13	1/2	1,743.63	1/2	1,383.23	1/2	1,026.31	1/2	673.04	1/2	316.28	1/2		1/2		1/2		1/2	
3/4	2,093.62	3/4	1,736.18	3/4	1,375.72	3/4	1,018.94	3/4	665.69	3/4	308.77	3/4		3/4		3/4		3/4	
7	2,086.11	7	1,728.74	7	1,368.20	7	1,011.58	7	658.35	7	301.25	7		7		7		7	
1/4	2,078.67	1/4	1,721.23	1/4	1,360.69	1/4	1,004.21	1/4	651.01	1/4	293.74	1/4		1/4		1/4		1/4	
1/2	2,071.22	1/2	1,713.72	1/2	1,353.18	1/2	996.84	1/2	643.66	1/2	286.23	1/2		1/2		1/2		1/2	
3/4	2,063.78	3/4	1,706.20	3/4	1,345.67	3/4	989.47	3/4	636.32	3/4	278.72	3/4		3/4		3/4		3/4	
8	2,056.33	8	1,698.69	8	1,338.16	8	982.11	8	628.98	8	271.21	8		8		8		8	
1/4	2,048.89	1/4	1,691.18	1/4	1,330.65	1/4	974.74	1/4	621.63	1/4	263.69	1/4		1/4		1/4		1/4	
1/2	2,041.44	1/2	1,683.67	1/2	1,323.14	1/2	967.37	1/2	614.29	1/2	256.18	1/2		1/2		1/2		1/2	
3/4	2,033.99	3/4	1,676.16	3/4	1,315.63	3/4	960.00	3/4	606.95	3/4	248.67	3/4		3/4		3/4		3/4	
9	2,026.55	9	1,668.65	9	1,308.12	9	952.64	9	599.61	9	241.16	9		9		9		9	
1/4	2,019.10	1/4	1,661.14	1/4	1,300.60	1/4	945.27	1/4	592.26	1/4	233.65	1/4		1/4		1/4		1/4	
1/2	2,011.66	1/2	1,653.63	1/2	1,293.09	1/2	937.90	1/2	584.92	1/2	226.13	1/2		1/2		1/2		1/2	
3/4	2,004.21	3/4	1,646.12	3/4	1,285.58	3/4	930.53	3/4	577.58	3/4	218.62	3/4		3/4		3/4		3/4	
10	1,996.77	10	1,638.60	10	1,278.07	10	923.16	10	570.23	10	211.11	10		10		10		10	
1/4	1,989.32	1/4	1,631.09	1/4	1,270.56	1/4	915.80	1/4	562.88	1/4	203.59	1/4		1/4		1/4		1/4	
1/2	1,981.88	1/2	1,623.58	1/2	1,263.05	1/2	908.43	1/2	555.52	1/2	196.06	1/2		1/2		1/2		1/2	
3/4	1,974.43	3/4	1,616.07	3/4	1,255.54	3/4	901.06	3/4	548.17	3/4	188.54	3/4		3/4		3/4		3/4	
11	1,966.99	11	1,608.56	11	1,248.03	11	893.69	11	540.81	11	181.01	11		11		11		11	
1/4	1,959.54	1/4	1,601.05	1/4	1,240.52	1/4	886.33	1/4	533.44	1/4	173.49	1/4		1/4		1/4		1/4	
1/2	1,952.10	1/2	1,593.54	1/2	1,233.00	1/2	878.96	1/2	526.07	1/2	165.97	1/2		1/2		1/2		1/2	
3/4	1,944.65	3/4	1,586.03	3/4	1,225.49	3/4	871.59	3/4	518.69	3/4	158.44	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2012 CL - SW
CALCULATED: 12/10/2012 CL
PRINTED: 12/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2012

PRECISION MEASUREMENT
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