



BARGE "KIRBY 29099"

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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 7'-00"
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 5'-00" ON 1 PORT THE TRIM CORRECTED ULLAGE IS 4'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

May 20, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29099"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,953.30	0	4,624.68	0	4,275.33	0	3,909.86	0	3,543.33	0	3,176.26	0	2,809.08
1/4		1/4		1/4		1/4	4,946.20	1/4	4,617.62	1/4	4,267.83	1/4	3,902.22	1/4	3,535.68	1/4	3,168.61	1/4	2,801.43
1/2		1/2		1/2		1/2	4,939.10	1/2	4,610.56	1/2	4,260.33	1/2	3,894.59	1/2	3,528.04	1/2	3,160.96	1/2	2,793.77
3/4		3/4		3/4		3/4	4,932.46	3/4	4,603.46	3/4	4,252.79	3/4	3,886.95	3/4	3,520.40	3/4	3,153.32	3/4	2,786.12
1	1	1	1	1	1	1	4,925.82	1	4,596.36	1	4,245.25	1	3,879.32	1	3,512.75	1	3,145.67	1	2,778.47
1/4		1/4		1/4		1/4	4,919.18	1/4	4,589.27	1/4	4,237.71	1/4	3,871.68	1/4	3,505.10	1/4	3,138.02	1/4	2,770.82
1/2		1/2		1/2		1/2	4,912.54	1/2	4,582.17	1/2	4,230.17	1/2	3,864.04	1/2	3,497.45	1/2	3,130.37	1/2	2,763.17
3/4		3/4		3/4		3/4	4,905.87	3/4	4,575.04	3/4	4,222.60	3/4	3,856.41	3/4	3,489.81	3/4	3,122.73	3/4	2,755.52
2	2	2	2	2	2	2	4,899.20	2	4,567.91	2	4,215.02	2	3,848.77	2	3,482.16	2	3,115.08	2	2,747.87
1/4		1/4		1/4		1/4	4,892.53	1/4	4,560.78	1/4	4,207.45	1/4	3,841.14	1/4	3,474.51	1/4	3,107.43	1/4	2,740.21
1/2		1/2		1/2		1/2	4,885.85	1/2	4,553.65	1/2	4,199.88	1/2	3,833.50	1/2	3,466.86	1/2	3,099.78	1/2	2,732.56
3/4		3/4		3/4		3/4	4,879.15	3/4	4,546.49	3/4	4,192.27	3/4	3,825.87	3/4	3,459.22	3/4	3,092.14	3/4	2,724.91
3	3	3	3	3	3	3	4,872.44	3	4,539.32	3	4,184.66	3	3,818.23	3	3,451.57	3	3,084.49	3	2,717.26
1/4		1/4		1/4		1/4	4,865.73	1/4	4,532.16	1/4	4,177.06	1/4	3,810.59	1/4	3,443.92	1/4	3,076.84	1/4	2,709.61
1/2		1/2		1/2		1/2	4,859.03	1/2	4,525.00	1/2	4,169.45	1/2	3,802.96	1/2	3,436.27	1/2	3,069.19	1/2	2,701.96
3/4		3/4		3/4		3/4	4,852.28	3/4	4,517.80	3/4	4,161.82	3/4	3,795.32	3/4	3,428.63	3/4	3,061.55	3/4	2,694.31
4	4	4	4	4	4	4	4,845.54	4	4,510.60	4	4,154.19	4	3,787.69	4	3,420.98	4	3,053.90	4	2,686.65
1/4		1/4		1/4		1/4	4,838.79	1/4	4,503.41	1/4	4,146.57	1/4	3,780.05	1/4	3,413.33	1/4	3,046.25	1/4	2,679.00
1/2		1/2		1/2		1/2	4,832.05	1/2	4,496.21	1/2	4,138.94	1/2	3,772.41	1/2	3,405.68	1/2	3,038.60	1/2	2,671.35
3/4		3/4		3/4		3/4	4,825.27	3/4	4,488.98	3/4	4,131.30	3/4	3,764.78	3/4	3,398.04	3/4	3,030.96	3/4	2,663.70
5	5	5	5	5	5	5	4,818.49	5	4,481.75	5	4,123.67	5	3,757.14	5	3,390.39	5	3,023.31	5	2,656.05
1/4		1/4		1/4		1/4	4,811.71	1/4	4,474.51	1/4	4,116.03	1/4	3,749.51	1/4	3,382.74	1/4	3,015.66	1/4	2,648.40
1/2		1/2		1/2		1/2	4,804.93	1/2	4,467.28	1/2	4,108.39	1/2	3,741.87	1/2	3,375.09	1/2	3,008.01	1/2	2,640.74
3/4		3/4		3/4		3/4	4,798.12	3/4	4,460.01	3/4	4,100.76	3/4	3,734.23	3/4	3,367.45	3/4	3,000.36	3/4	2,633.09
6	6	6	6	6	6	6	4,791.31	6	4,452.75	6	4,093.12	6	3,726.60	6	3,359.80	6	2,992.71	6	2,625.44
1/4		1/4		1/4		1/4	4,784.49	1/4	4,445.48	1/4	4,085.49	1/4	3,718.96	1/4	3,352.15	1/4	2,985.06	1/4	2,617.79
1/2		1/2		1/2		1/2	4,777.68	1/2	4,438.21	1/2	4,077.85	1/2	3,711.33	1/2	3,344.50	1/2	2,977.41	1/2	2,610.14
3/4		3/4		3/4		3/4	4,770.84	3/4	4,430.89	3/4	4,070.21	3/4	3,703.69	3/4	3,336.86	3/4	2,969.76	3/4	2,602.49
7	7	7	7	7	7	7	5,099.33	7	4,763.99	7	4,423.57	7	4,062.58	7	3,696.06	7	3,329.21	7	2,594.84
1/4		1/4		1/4		1/4	5,093.28	1/4	4,757.14	1/4	4,416.25	1/4	4,054.94	1/4	3,688.42	1/4	3,321.56	1/4	2,954.46
1/2		1/2		1/2		1/2	5,087.23	1/2	4,750.30	1/2	4,408.94	1/2	4,047.31	1/2	3,680.78	1/2	3,313.91	1/2	2,946.80
3/4		3/4		3/4		3/4	5,080.03	3/4	4,743.40	3/4	4,401.57	3/4	4,039.67	3/4	3,673.15	3/4	3,306.27	3/4	2,939.15
8	8	8	8	8	8	8	5,072.83	8	4,736.50	8	4,394.21	8	4,032.03	8	3,665.51	8	3,298.62	8	2,931.50
1/4		1/4		1/4		1/4	5,065.64	1/4	4,729.60	1/4	4,386.85	1/4	4,024.40	1/4	3,657.88	1/4	3,290.97	1/4	2,923.85
1/2		1/2		1/2		1/2	5,058.44	1/2	4,722.70	1/2	4,379.49	1/2	4,016.76	1/2	3,650.24	1/2	3,283.32	1/2	2,916.20
3/4		3/4		3/4		3/4	5,050.86	3/4	4,715.75	3/4	4,372.09	3/4	4,009.13	3/4	3,642.60	3/4	3,275.68	3/4	2,908.55
9	9	9	9	9	9	9	5,043.28	9	4,708.79	9	4,364.69	9	4,001.49	9	3,634.97	9	3,268.03	9	2,900.90
1/4		1/4		1/4		1/4	5,035.70	1/4	4,701.84	1/4	4,357.30	1/4	3,993.86	1/4	3,627.33	1/4	3,260.38	1/4	2,893.24
1/2		1/2		1/2		1/2	5,028.13	1/2	4,694.89	1/2	4,349.90	1/2	3,986.22	1/2	3,619.70	1/2	3,252.73	1/2	2,885.59
3/4		3/4		3/4		3/4	5,020.55	3/4	4,687.90	3/4	4,342.47	3/4	3,978.58	3/4	3,612.06	3/4	3,245.09	3/4	2,877.94
10	10	10	10	10	10	10	5,012.97	10	4,680.91	10	4,335.04	10	3,970.95	10	3,604.42	10	3,237.44	10	2,870.29
1/4		1/4		1/4		1/4	5,005.39	1/4	4,673.91	1/4	4,327.61	1/4	3,963.31	1/4	3,596.79	1/4	3,229.79	1/4	2,862.64
1/2		1/2		1/2		1/2	4,997.81	1/2	4,666.92	1/2	4,320.18	1/2	3,955.68	1/2	3,589.15	1/2	3,222.14	1/2	2,854.99
3/4		3/4		3/4		3/4	4,990.23	3/4	4,659.89	3/4	4,312.72	3/4	3,948.04	3/4	3,581.52	3/4	3,214.50	3/4	2,847.34
11	11	11	11	11	11	11	4,982.65	11	4,652.87	11	4,305.26	11	3,940.40	11	3,573.88	11	3,206.85	11	2,839.68
1/4		1/4		1/4		1/4	4,975.08	1/4	4,645.84	1/4	4,297.79	1/4	3,932.77	1/4	3,566.24	1/4	3,199.20	1/4	2,832.03
1/2		1/2		1/2		1/2	4,967.50	1/2	4,638.81	1/2	4,290.33	1/2	3,925.13	1/2	3,558.61	1/2	3,191.55	1/2	2,824.38
3/4		3/4		3/4		3/4	4,960.40	3/4	4,631.75	3/4	4,282.83	3/4	3,917.50	3/4	3,550.97	3/4	3,183.91	3/4	2,816.73

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 29099"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 1/2"

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
1/4	2,434.15	1/4	2,066.88	1/4	1,699.61	1/4	1,332.34	1/4	966.11	1/4	600.01	1/4	250.14	1/4		1/4		1/4	
1/2	2,426.50	1/2	2,059.23	1/2	1,691.96	1/2	1,324.69	1/2	958.51	1/2	592.36	1/2	243.35	1/2		1/2		1/2	
3/4	2,418.85	3/4	2,051.58	3/4	1,684.31	3/4	1,317.04	3/4	950.91	3/4	584.71	3/4	236.65	3/4		3/4		3/4	
1	2,411.20	1	2,043.93	1	1,676.66	1	1,309.38	1	943.31	1	577.06	1	229.95	1		1		1	
1/4	2,403.55	1/4	2,036.28	1/4	1,669.00	1/4	1,301.73	1/4	935.71	1/4	569.41	1/4	223.26	1/4		1/4		1/4	
1/2	2,395.90	1/2	2,028.62	1/2	1,661.35	1/2	1,294.08	1/2	928.11	1/2	561.76	1/2	216.56	1/2		1/2		1/2	
3/4	2,388.25	3/4	2,020.97	3/4	1,653.70	3/4	1,286.43	3/4	920.51	3/4	554.12	3/4	209.95	3/4		3/4		3/4	
2	2,380.59	2	2,013.32	2	1,646.05	2	1,278.78	2	912.90	2	546.48	2	203.34	2		2		2	
1/4	2,372.94	1/4	2,005.67	1/4	1,638.40	1/4	1,271.13	1/4	905.30	1/4	538.84	1/4	196.74	1/4		1/4		1/4	
1/2	2,365.29	1/2	1,998.02	1/2	1,630.75	1/2	1,263.47	1/2	897.70	1/2	531.20	1/2	190.13	1/2		1/2		1/2	
3/4	2,357.64	3/4	1,990.37	3/4	1,623.10	3/4	1,255.82	3/4	890.10	3/4	523.60	3/4	183.61	3/4		3/4		3/4	
3	2,349.99	3	1,982.72	3	1,615.44	3	1,248.17	3	882.50	3	516.01	3	177.10	3		3		3	
1/4	2,342.34	1/4	1,975.06	1/4	1,607.79	1/4	1,240.52	1/4	874.90	1/4	508.41	1/4	170.58	1/4		1/4		1/4	
1/2	2,334.68	1/2	1,967.41	1/2	1,600.14	1/2	1,232.87	1/2	867.30	1/2	500.82	1/2	164.06	1/2		1/2		1/2	
3/4	2,327.03	3/4	1,959.76	3/4	1,592.49	3/4	1,225.22	3/4	859.70	3/4	493.30	3/4	157.64	3/4		3/4		3/4	
4	2,319.38	4	1,952.11	4	1,584.84	4	1,217.57	4	852.10	4	485.79	4	151.22	4		4		4	
1/4	2,311.73	1/4	1,944.46	1/4	1,577.19	1/4	1,209.91	1/4	844.50	1/4	478.27	1/4	144.80	1/4		1/4		1/4	
1/2	2,304.08	1/2	1,936.81	1/2	1,569.53	1/2	1,202.26	1/2	836.90	1/2	470.76	1/2	138.37	1/2		1/2		1/2	
3/4	2,296.43	3/4	1,929.16	3/4	1,561.88	3/4	1,194.61	3/4	829.30	3/4	463.33	3/4	132.05	3/4		3/4		3/4	
5	2,288.78	5	1,921.50	5	1,554.23	5	1,186.96	5	821.70	5	455.91	5	125.72	5		5		5	
1/4	2,281.12	1/4	1,913.85	1/4	1,546.58	1/4	1,179.31	1/4	814.10	1/4	448.49	1/4	119.40	1/4		1/4		1/4	
1/2	2,273.47	1/2	1,906.20	1/2	1,538.93	1/2	1,171.66	1/2	806.50	1/2	441.06	1/2	113.07	1/2		1/2		1/2	
3/4	2,265.82	3/4	1,898.55	3/4	1,531.28	3/4	1,164.02	3/4	798.87	3/4	433.73	3/4	106.85	3/4		3/4		3/4	
6	2,258.17	6	1,890.90	6	1,523.63	6	1,156.38	6	791.24	6	426.39	6	100.62	6		6		6	
1/4	2,250.52	1/4	1,883.25	1/4	1,515.97	1/4	1,148.75	1/4	783.62	1/4	419.06	1/4	94.39	1/4		1/4		1/4	
1/2	2,242.87	1/2	1,875.59	1/2	1,508.32	1/2	1,141.11	1/2	775.99	1/2	411.73	1/2	88.17	1/2		1/2		1/2	
3/4	2,235.22	3/4	1,867.94	3/4	1,500.67	3/4	1,133.49	3/4	768.34	3/4	404.48	3/4	82.05	3/4		3/4		3/4	
7	2,227.56	7	1,860.29	7	1,493.02	7	1,125.87	7	760.69	7	397.24	7	75.93	7		7		7	
1/4	2,219.91	1/4	1,852.64	1/4	1,485.37	1/4	1,118.24	1/4	753.04	1/4	390.00	1/4	69.82	1/4		1/4		1/4	
1/2	2,212.26	1/2	1,844.99	1/2	1,477.72	1/2	1,110.62	1/2	745.39	1/2	382.76	1/2	63.70	1/2		1/2		1/2	
3/4	2,204.61	3/4	1,837.34	3/4	1,470.07	3/4	1,103.01	3/4	737.74	3/4	375.60	3/4	58.14	3/4		3/4		3/4	
8	2,196.96	8	1,829.69	8	1,462.41	8	1,095.39	8	730.09	8	368.45	8	52.59	8		8		8	
1/4	2,189.31	1/4	1,822.03	1/4	1,454.76	1/4	1,087.78	1/4	722.43	1/4	361.30	1/4	47.04	1/4		1/4		1/4	
1/2	2,181.65	1/2	1,814.38	1/2	1,447.11	1/2	1,080.16	1/2	714.78	1/2	354.15	1/2	41.48	1/2		1/2		1/2	
3/4	2,174.00	3/4	1,806.73	3/4	1,439.46	3/4	1,072.55	3/4	707.13	3/4	347.09	3/4	36.99	3/4		3/4		3/4	
9	2,166.35	9	1,799.08	9	1,431.81	9	1,064.95	9	699.48	9	340.03	9	32.50	9		9		9	
1/4	2,158.70	1/4	1,791.43	1/4	1,424.16	1/4	1,057.34	1/4	691.83	1/4	332.97	1/4	28.01	1/4		1/4		1/4	
1/2	2,151.05	1/2	1,783.78	1/2	1,416.50	1/2	1,049.73	1/2	684.18	1/2	325.90	1/2	23.51	1/2		1/2		1/2	
3/4	2,143.40	3/4	1,776.13	3/4	1,408.85	3/4	1,042.13	3/4	676.53	3/4	318.93	3/4		3/4		3/4		3/4	
10	2,135.75	10	1,768.47	10	1,401.20	10	1,034.52	10	668.87	10	311.96	10		10		10		10	
1/4	2,128.09	1/4	1,760.82	1/4	1,393.55	1/4	1,026.92	1/4	661.22	1/4	304.99	1/4		1/4		1/4		1/4	
1/2	2,120.44	1/2	1,753.17	1/2	1,385.90	1/2	1,019.31	1/2	653.57	1/2	298.02	1/2		1/2		1/2		1/2	
3/4	2,112.79	3/4	1,745.52	3/4	1,378.25	3/4	1,011.71	3/4	645.92	3/4	291.14	3/4		3/4		3/4		3/4	
11	2,105.14	11	1,737.87	11	1,370.60	11	1,004.11	11	638.27	11	284.26	11		11		11		11	
1/4	2,097.49	1/4	1,730.22	1/4	1,362.94	1/4	996.51	1/4	630.62	1/4	277.38	1/4		1/4		1/4		1/4	
1/2	2,089.84	1/2	1,722.56	1/2	1,355.29	1/2	988.91	1/2	622.97	1/2	270.51	1/2		1/2		1/2		1/2	
3/4	2,082.19	3/4	1,714.91	3/4	1,347.64	3/4	981.31	3/4	615.32	3/4	263.72	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2014 CL
CALCULATED: 05/20/2014 CL
PRINTED: 05/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

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



BARGE "KIRBY 29099"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,963.86	0	4,635.17	0	4,286.70	0	3,921.51	0	3,554.99	0	3,188.47	0	2,821.88
1/4		1/4		1/4		1/4	4,956.76	1/4	4,628.11	1/4	4,279.20	1/4	3,913.87	1/4	3,547.36	1/4	3,180.84	1/4	2,814.24
1/2		1/2		1/2		1/2	4,949.66	1/2	4,621.04	1/2	4,271.70	1/2	3,906.24	1/2	3,539.72	1/2	3,173.20	1/2	2,806.60
3/4		3/4		3/4		3/4	4,942.56	3/4	4,613.98	3/4	4,264.19	3/4	3,898.60	3/4	3,532.08	3/4	3,165.57	3/4	2,798.96
1	1	1	1	1	1	1	4,935.46	1	4,606.92	1	4,256.69	1	3,890.97	1	3,524.45	1	3,157.93	1	2,791.32
1/4		1/4		1/4		1/4	4,928.82	1/4	4,599.82	1/4	4,249.15	1/4	3,883.33	1/4	3,516.81	1/4	3,150.29	1/4	2,783.68
1/2		1/2		1/2		1/2	4,922.18	1/2	4,592.73	1/2	4,241.61	1/2	3,875.70	1/2	3,509.18	1/2	3,142.66	1/2	2,776.04
3/4		3/4		3/4		3/4	4,915.54	3/4	4,585.63	3/4	4,234.08	3/4	3,868.06	3/4	3,501.54	3/4	3,135.02	3/4	2,768.40
2	2	2	2	2	2	2	4,908.90	2	4,578.53	2	4,226.54	2	3,860.42	2	3,493.91	2	3,127.39	2	2,760.76
1/4		1/4		1/4		1/4	4,902.23	1/4	4,571.40	1/4	4,218.96	1/4	3,852.79	1/4	3,486.27	1/4	3,119.75	1/4	2,753.12
1/2		1/2		1/2		1/2	4,895.56	1/2	4,564.27	1/2	4,211.39	1/2	3,845.15	1/2	3,478.63	1/2	3,112.12	1/2	2,745.48
3/4		3/4		3/4		3/4	4,888.89	3/4	4,557.15	3/4	4,203.82	3/4	3,837.52	3/4	3,471.00	3/4	3,104.48	3/4	2,737.84
3	3	3	3	3	3	3	4,882.22	3	4,550.02	3	4,196.25	3	3,829.88	3	3,463.36	3	3,096.84	3	2,730.20
1/4		1/4		1/4		1/4	4,875.51	1/4	4,542.85	1/4	4,188.64	1/4	3,822.24	1/4	3,455.73	1/4	3,089.21	1/4	2,722.56
1/2		1/2		1/2		1/2	4,868.80	1/2	4,535.69	1/2	4,181.03	1/2	3,814.61	1/2	3,448.09	1/2	3,081.57	1/2	2,714.92
3/4		3/4		3/4		3/4	4,862.09	3/4	4,528.52	3/4	4,173.43	3/4	3,806.97	3/4	3,440.45	3/4	3,073.94	3/4	2,707.28
4	4	4	4	4	4	4	4,855.39	4	4,521.36	4	4,165.82	4	3,799.34	4	3,432.82	4	3,066.30	4	2,699.64
1/4		1/4		1/4		1/4	4,848.64	1/4	4,514.16	1/4	4,158.19	1/4	3,791.70	1/4	3,425.18	1/4	3,058.66	1/4	2,692.00
1/2		1/2		1/2		1/2	4,841.90	1/2	4,506.97	1/2	4,150.57	1/2	3,784.07	1/2	3,417.55	1/2	3,051.03	1/2	2,684.36
3/4		3/4		3/4		3/4	4,835.15	3/4	4,499.77	3/4	4,142.94	3/4	3,776.43	3/4	3,409.91	3/4	3,043.39	3/4	2,676.72
5	5	5	5	5	5	5	4,828.41	5	4,492.57	5	4,135.31	5	3,768.79	5	3,402.28	5	3,035.76	5	2,669.08
1/4		1/4		1/4		1/4	4,821.63	1/4	4,485.34	1/4	4,127.68	1/4	3,761.16	1/4	3,394.64	1/4	3,028.12	1/4	2,661.44
1/2		1/2		1/2		1/2	4,814.85	1/2	4,478.11	1/2	4,120.04	1/2	3,753.52	1/2	3,387.00	1/2	3,020.49	1/2	2,653.80
3/4		3/4		3/4		3/4	4,808.07	3/4	4,470.88	3/4	4,112.41	3/4	3,745.89	3/4	3,379.37	3/4	3,012.85	3/4	2,646.16
6	6	6	6	6	6	6	4,801.29	6	4,463.65	6	4,104.77	6	3,738.25	6	3,371.73	6	3,005.21	6	2,638.52
1/4		1/4		1/4		1/4	4,794.48	1/4	4,456.38	1/4	4,097.13	1/4	3,730.62	1/4	3,364.10	1/4	2,997.58	1/4	2,630.88
1/2		1/2		1/2		1/2	4,787.67	1/2	4,449.11	1/2	4,089.50	1/2	3,722.98	1/2	3,356.46	1/2	2,989.94	1/2	2,623.24
3/4		3/4		3/4		3/4	4,780.86	3/4	4,441.84	3/4	4,081.86	3/4	3,715.34	3/4	3,348.83	3/4	2,982.31	3/4	2,615.60
7	7	7	7	7	7	7	4,774.04	7	4,434.57	7	4,074.23	7	3,707.71	7	3,341.19	7	2,974.68	7	2,607.97
1/4		1/4		1/4		1/4	4,767.20	1/4	4,427.25	1/4	4,066.59	1/4	3,700.07	1/4	3,333.55	1/4	2,967.04	1/4	2,600.33
1/2		1/2		1/2	5,095.68	1/2	4,760.35	1/2	4,419.94	1/2	4,058.95	1/2	3,692.44	1/2	3,325.92	1/2	2,959.40	1/2	2,592.69
3/4		3/4		3/4	5,089.63	3/4	4,753.51	3/4	4,412.62	3/4	4,051.32	3/4	3,684.80	3/4	3,318.28	3/4	2,951.76	3/4	2,585.05
8	8	8	8	8	8	8	4,746.66	8	4,405.30	8	4,043.68	8	3,677.16	8	3,310.65	8	2,944.12	8	2,577.41
1/4		1/4		1/4	5,076.38	1/4	4,739.76	1/4	4,397.94	1/4	4,036.05	1/4	3,669.53	1/4	3,303.01	1/4	2,936.48	1/4	2,569.77
1/2		1/2		1/2	5,069.19	1/2	4,732.86	1/2	4,390.58	1/2	4,028.41	1/2	3,661.89	1/2	3,295.37	1/2	2,928.84	1/2	2,562.13
3/4		3/4		3/4	5,061.99	3/4	4,725.96	3/4	4,383.21	3/4	4,020.78	3/4	3,654.26	3/4	3,287.74	3/4	2,921.20	3/4	2,554.49
9	9	9	9	9	9	9	5,054.80	9	4,375.85	9	4,013.14	9	3,646.62	9	3,280.10	9	2,913.56	9	2,546.85
1/4		1/4		1/4	5,047.22	1/4	4,712.11	1/4	4,368.46	1/4	4,005.50	1/4	3,638.99	1/4	3,272.47	1/4	2,905.92	1/4	2,539.21
1/2		1/2		1/2	5,039.64	1/2	4,705.16	1/2	4,361.06	1/2	3,997.87	1/2	3,631.35	1/2	3,264.83	1/2	2,898.28	1/2	2,531.57
3/4		3/4		3/4	5,032.06	3/4	4,698.20	3/4	4,353.66	3/4	3,990.23	3/4	3,623.71	3/4	3,257.20	3/4	2,890.64	3/4	2,523.93
10	10	10	10	10	10	10	5,024.49	10	4,691.25	10	4,346.27	10	3,982.60	10	3,249.56	10	2,883.00	10	2,516.29
1/4		1/4		1/4	5,016.91	1/4	4,684.26	1/4	4,338.84	1/4	3,974.96	1/4	3,608.44	1/4	3,241.92	1/4	2,875.36	1/4	2,508.65
1/2		1/2		1/2	5,009.33	1/2	4,677.27	1/2	4,331.41	1/2	3,967.33	1/2	3,600.81	1/2	3,234.29	1/2	2,867.72	1/2	2,501.01
3/4		3/4		3/4	5,001.75	3/4	4,670.28	3/4	4,323.98	3/4	3,959.69	3/4	3,593.17	3/4	3,226.65	3/4	2,860.08	3/4	2,493.37
11	11	11	11	11	11	11	4,994.17	11	4,316.55	11	3,952.05	11	3,585.54	11	3,219.02	11	2,852.44	11	2,485.73
1/4		1/4		1/4	4,986.59	1/4	4,656.26	1/4	4,309.09	1/4	3,944.42	1/4	3,577.90	1/4	3,211.38	1/4	2,844.80	1/4	2,478.09
1/2		1/2		1/2	4,979.02	1/2	4,649.23	1/2	4,301.62	1/2	3,936.78	1/2	3,570.26	1/2	3,203.75	1/2	2,837.16	1/2	2,470.45
3/4		3/4		3/4	4,971.44	3/4	4,642.20	3/4	4,294.16	3/4	3,929.15	3/4	3,562.63	3/4	3,196.11	3/4	2,829.52	3/4	2,462.81

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 29099"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,455.17	0	2,088.46	0	1,721.75	0	1,355.04	0	988.46	0	622.12	0	270.28	0		0		0	
1/4	2,447.53	1/4	2,080.82	1/4	1,714.11	1/4	1,347.40	1/4	980.84	1/4	614.48	1/4	263.50	1/4		1/4		1/4	
1/2	2,439.89	1/2	2,073.18	1/2	1,706.47	1/2	1,339.76	1/2	973.21	1/2	606.84	1/2	256.72	1/2		1/2		1/2	
3/4	2,432.25	3/4	2,065.54	3/4	1,698.83	3/4	1,332.12	3/4	965.59	3/4	599.20	3/4	249.95	3/4		3/4		3/4	
1	2,424.61	1	2,057.90	1	1,691.19	1	1,324.48	1	957.96	1	591.56	1	243.17	1		1		1	
1/4	2,416.97	1/4	2,050.26	1/4	1,683.55	1/4	1,316.84	1/4	950.33	1/4	583.93	1/4	236.48	1/4		1/4		1/4	
1/2	2,409.33	1/2	2,042.62	1/2	1,675.91	1/2	1,309.20	1/2	942.71	1/2	576.29	1/2	229.80	1/2		1/2		1/2	
3/4	2,401.69	3/4	2,034.98	3/4	1,668.27	3/4	1,301.56	3/4	935.08	3/4	568.66	3/4	223.11	3/4		3/4		3/4	
2	2,394.05	2	2,027.34	2	1,660.63	2	1,293.92	2	927.46	2	561.02	2	216.42	2		2		2	
1/4	2,386.41	1/4	2,019.70	1/4	1,652.99	1/4	1,286.28	1/4	919.83	1/4	553.40	1/4	209.83	1/4		1/4		1/4	
1/2	2,378.77	1/2	2,012.06	1/2	1,645.35	1/2	1,278.64	1/2	912.20	1/2	545.78	1/2	203.23	1/2		1/2		1/2	
3/4	2,371.13	3/4	2,004.42	3/4	1,637.71	3/4	1,271.00	3/4	904.58	3/4	538.16	3/4	196.64	3/4		3/4		3/4	
3	2,363.49	3	1,996.78	3	1,630.07	3	1,263.36	3	896.95	3	530.54	3	190.04	3		3		3	
1/4	2,355.85	1/4	1,989.14	1/4	1,622.43	1/4	1,255.72	1/4	889.33	1/4	522.96	1/4	183.54	1/4		1/4		1/4	
1/2	2,348.21	1/2	1,981.50	1/2	1,614.79	1/2	1,248.08	1/2	881.70	1/2	515.38	1/2	177.03	1/2		1/2		1/2	
3/4	2,340.57	3/4	1,973.86	3/4	1,607.15	3/4	1,240.44	3/4	874.08	3/4	507.80	3/4	170.53	3/4		3/4		3/4	
4	2,332.93	4	1,966.22	4	1,599.51	4	1,232.80	4	866.45	4	500.22	4	164.02	4		4		4	
1/4	2,325.29	1/4	1,958.58	1/4	1,591.87	1/4	1,225.16	1/4	858.82	1/4	492.72	1/4	157.61	1/4		1/4		1/4	
1/2	2,317.65	1/2	1,950.94	1/2	1,584.23	1/2	1,217.52	1/2	851.20	1/2	485.21	1/2	151.19	1/2		1/2		1/2	
3/4	2,310.01	3/4	1,943.30	3/4	1,576.59	3/4	1,209.88	3/4	843.57	3/4	477.71	3/4	144.78	3/4		3/4		3/4	
5	2,302.37	5	1,935.66	5	1,568.95	5	1,202.24	5	835.95	5	470.21	5	138.37	5		5		5	
1/4	2,294.73	1/4	1,928.02	1/4	1,561.31	1/4	1,194.60	1/4	828.32	1/4	462.79	1/4	132.04	1/4		1/4		1/4	
1/2	2,287.09	1/2	1,920.38	1/2	1,553.67	1/2	1,186.96	1/2	820.69	1/2	455.38	1/2	125.72	1/2		1/2		1/2	
3/4	2,279.45	3/4	1,912.74	3/4	1,546.03	3/4	1,179.32	3/4	813.07	3/4	447.97	3/4	119.40	3/4		3/4		3/4	
6	2,271.81	6	1,905.10	6	1,538.39	6	1,171.68	6	805.44	6	440.56	6	113.08	6		6		6	
1/4	2,264.17	1/4	1,897.46	1/4	1,530.75	1/4	1,164.04	1/4	797.81	1/4	433.23	1/4	106.85	1/4		1/4		1/4	
1/2	2,256.53	1/2	1,889.82	1/2	1,523.11	1/2	1,156.40	1/2	790.18	1/2	425.91	1/2	100.62	1/2		1/2		1/2	
3/4	2,248.89	3/4	1,882.18	3/4	1,515.47	3/4	1,148.76	3/4	782.54	3/4	418.59	3/4	94.40	3/4		3/4		3/4	
7	2,241.25	7	1,874.54	7	1,507.83	7	1,141.12	7	774.91	7	411.27	7	88.17	7		7		7	
1/4	2,233.61	1/4	1,866.90	1/4	1,500.19	1/4	1,133.48	1/4	767.27	1/4	404.04	1/4	82.05	1/4		1/4		1/4	
1/2	2,225.98	1/2	1,859.26	1/2	1,492.55	1/2	1,125.84	1/2	759.63	1/2	396.81	1/2	75.93	1/2		1/2		1/2	
3/4	2,218.34	3/4	1,851.62	3/4	1,484.91	3/4	1,118.20	3/4	751.99	3/4	389.58	3/4	69.82	3/4		3/4		3/4	
8	2,210.70	8	1,843.99	8	1,477.27	8	1,110.56	8	744.35	8	382.34	8	63.70	8		8		8	
1/4	2,203.06	1/4	1,836.35	1/4	1,469.63	1/4	1,102.93	1/4	736.71	1/4	375.20	1/4	58.15	1/4		1/4		1/4	
1/2	2,195.42	1/2	1,828.71	1/2	1,462.00	1/2	1,095.29	1/2	729.07	1/2	368.06	1/2	52.59	1/2		1/2		1/2	
3/4	2,187.78	3/4	1,821.07	3/4	1,454.36	3/4	1,087.65	3/4	721.43	3/4	360.92	3/4	47.04	3/4		3/4		3/4	
9	2,180.14	9	1,813.43	9	1,446.72	9	1,080.02	9	713.80	9	353.78	9	41.48	9		9		9	
1/4	2,172.50	1/4	1,805.79	1/4	1,439.08	1/4	1,072.39	1/4	706.16	1/4	346.73	1/4	36.99	1/4		1/4		1/4	
1/2	2,164.86	1/2	1,798.15	1/2	1,431.44	1/2	1,064.75	1/2	698.52	1/2	339.68	1/2	32.50	1/2		1/2		1/2	
3/4	2,157.22	3/4	1,790.51	3/4	1,423.80	3/4	1,057.12	3/4	690.88	3/4	332.63	3/4	28.01	3/4		3/4		3/4	
10	2,149.58	10	1,782.87	10	1,416.16	10	1,049.49	10	683.24	10	325.58	10	23.51	10		10		10	
1/4	2,141.94	1/4	1,775.23	1/4	1,408.52	1/4	1,041.86	1/4	675.60	1/4	318.63	1/4		1/4		1/4		1/4	
1/2	2,134.30	1/2	1,767.59	1/2	1,400.88	1/2	1,034.23	1/2	667.96	1/2	311.67	1/2		1/2		1/2		1/2	
3/4	2,126.66	3/4	1,759.95	3/4	1,393.24	3/4	1,026.60	3/4	660.32	3/4	304.71	3/4		3/4		3/4		3/4	
11	2,119.02	11	1,752.31	11	1,385.60	11	1,018.97	11	652.68	11	297.75	11		11		11		11	
1/4	2,111.38	1/4	1,744.67	1/4	1,377.96	1/4	1,011.34	1/4	645.04	1/4	290.88	1/4		1/4		1/4		1/4	
1/2	2,103.74	1/2	1,737.03	1/2	1,370.32	1/2	1,003.72	1/2	637.40	1/2	284.01	1/2		1/2		1/2		1/2	
3/4	2,096.10	3/4	1,729.39	3/4	1,362.68	3/4	996.09	3/4	629.76	3/4	277.15	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2014 CL
CALCULATED: 05/20/2014 CL
PRINTED: 05/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "KIRBY 29099"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	0	0	4,700.01	0	4,391.28	0	4,062.96	0	3,719.44	0	3,374.94	0	3,030.45	0	2,685.86		
1/4		1/4		1/4		1/4	4,693.34	1/4	4,384.64	1/4	4,055.91	1/4	3,712.26	1/4	3,367.77	1/4	3,023.27	1/4	2,678.68		
1/2		1/2		1/2		1/2	4,686.67	1/2	4,378.01	1/2	4,048.86	1/2	3,705.09	1/2	3,360.59	1/2	3,016.09	1/2	2,671.50		
3/4		3/4		3/4		3/4	4,680.43	3/4	4,371.34	3/4	4,041.77	3/4	3,697.91	3/4	3,353.41	3/4	3,008.92	3/4	2,664.32		
1	1	1	1	1	1	1	4,674.20	1	4,364.67	1	4,034.68	1	3,690.73	1	3,346.24	1	3,001.74	1	2,657.13		
1/4		1/4		1/4		1/4	4,667.96	1/4	4,358.00	1/4	4,027.60	1/4	3,683.55	1/4	3,339.06	1/4	2,994.56	1/4	2,649.95		
1/2		1/2		1/2		1/2	4,661.72	1/2	4,351.33	1/2	4,020.51	1/2	3,676.38	1/2	3,331.88	1/2	2,987.39	1/2	2,642.77		
3/4		3/4		3/4		3/4	4,655.46	3/4	4,344.63	3/4	4,013.39	3/4	3,669.20	3/4	3,324.70	3/4	2,980.21	3/4	2,635.59		
2	2	2	2	2	2	2	4,649.19	2	4,337.93	2	4,006.27	2	3,662.02	2	3,317.53	2	2,973.03	2	2,628.41		
1/4		1/4		1/4		1/4	4,642.92	1/4	4,331.23	1/4	3,999.16	1/4	3,654.85	1/4	3,310.35	1/4	2,965.85	1/4	2,621.23		
1/2		1/2		1/2		1/2	4,636.66	1/2	4,324.53	1/2	3,992.04	1/2	3,647.67	1/2	3,303.17	1/2	2,958.68	1/2	2,614.05		
3/4		3/4		3/4		3/4	4,630.36	3/4	4,317.80	3/4	3,984.89	3/4	3,640.49	3/4	3,296.00	3/4	2,951.50	3/4	2,606.87		
3	3	3	3	3	3	3	4,624.05	3	4,311.07	3	3,977.74	3	3,633.32	3	3,288.82	3	2,944.32	3	2,599.69		
1/4		1/4		1/4		1/4	4,617.75	1/4	4,304.34	1/4	3,970.59	1/4	3,626.14	1/4	3,281.64	1/4	2,937.15	1/4	2,592.50		
1/2		1/2		1/2		1/2	4,611.45	1/2	4,297.60	1/2	3,963.44	1/2	3,618.96	1/2	3,274.47	1/2	2,929.97	1/2	2,585.32		
3/4		3/4		3/4		3/4	4,605.12	3/4	4,290.84	3/4	3,956.27	3/4	3,611.78	3/4	3,267.29	3/4	2,922.79	3/4	2,578.14		
4	4	4	4	4	4	4	4,598.78	4	4,284.08	4	3,949.10	4	3,604.61	4	3,260.11	4	2,915.62	4	2,570.96		
1/4		1/4		1/4		1/4	4,592.45	1/4	4,277.31	1/4	3,941.92	1/4	3,597.43	1/4	3,252.93	1/4	2,908.44	1/4	2,563.78		
1/2		1/2		1/2		1/2	4,586.11	1/2	4,270.55	1/2	3,934.75	1/2	3,590.25	1/2	3,245.76	1/2	2,901.26	1/2	2,556.60		
3/4		3/4		3/4		3/4	4,579.74	3/4	4,263.76	3/4	3,927.57	3/4	3,583.08	3/4	3,238.58	3/4	2,894.08	3/4	2,549.42		
5	5	5	5	5	5	5	4,573.38	5	4,256.96	5	3,920.40	5	3,575.90	5	3,231.40	5	2,886.91	5	2,542.24		
1/4		1/4		1/4		1/4	4,567.01	1/4	4,250.16	1/4	3,913.22	1/4	3,568.72	1/4	3,224.23	1/4	2,879.73	1/4	2,535.06		
1/2		1/2		1/2		1/2	4,560.64	1/2	4,243.37	1/2	3,906.04	1/2	3,561.55	1/2	3,217.05	1/2	2,872.55	1/2	2,527.87		
3/4		3/4		3/4		3/4	4,554.24	3/4	4,236.54	3/4	3,898.86	3/4	3,554.37	3/4	3,209.87	3/4	2,865.38	3/4	2,520.69		
6	6	6	6	6	6	6	4,547.84	6	4,229.71	6	3,891.69	6	3,547.19	6	3,202.70	6	2,858.20	6	2,513.51		
1/4		1/4		1/4		1/4	4,541.44	1/4	4,222.88	1/4	3,884.51	1/4	3,540.01	1/4	3,195.52	1/4	2,851.02	1/4	2,506.33		
1/2		1/2		1/2		1/2	4,535.04	1/2	4,216.04	1/2	3,877.33	1/2	3,532.84	1/2	3,188.34	1/2	2,843.84	1/2	2,499.15		
3/4		3/4		3/4		3/4	4,528.61	3/4	4,209.17	3/4	3,870.16	3/4	3,525.66	3/4	3,181.16	3/4	2,836.66	3/4	2,491.97		
7	7	7	7	7	7	7	4,837.20	7	4,522.18	7	4,202.29	7	3,862.98	7	3,518.48	7	3,173.99	7	2,829.48	7	2,484.79
1/4		1/4		1/4		1/4	4,831.51	1/4	4,515.75	1/4	4,195.41	1/4	3,855.80	1/4	3,511.31	1/4	3,166.81	1/4	2,822.30	1/4	2,477.61
1/2		1/2		1/2		1/2	4,825.83	1/2	4,509.32	1/2	4,188.54	1/2	3,848.63	1/2	3,504.13	1/2	3,159.63	1/2	2,815.12	1/2	2,470.43
3/4		3/4		3/4		3/4	4,819.07	3/4	4,502.84	3/4	4,181.62	3/4	3,841.45	3/4	3,496.95	3/4	3,152.46	3/4	2,807.94	3/4	2,463.24
8	8	8	8	8	8	8	4,812.31	8	4,496.36	8	4,174.70	8	3,834.27	8	3,489.78	8	3,145.28	8	2,800.76	8	2,456.06
1/4		1/4		1/4		1/4	4,805.55	1/4	4,489.87	1/4	4,167.78	1/4	3,827.09	1/4	3,482.60	1/4	3,138.10	1/4	2,793.58	1/4	2,448.88
1/2		1/2		1/2		1/2	4,798.79	1/2	4,483.39	1/2	4,160.86	1/2	3,819.92	1/2	3,475.42	1/2	3,130.93	1/2	2,786.39	1/2	2,441.70
3/4		3/4		3/4		3/4	4,791.67	3/4	4,476.86	3/4	4,153.90	3/4	3,812.74	3/4	3,468.24	3/4	3,123.75	3/4	2,779.21	3/4	2,434.52
9	9	9	9	9	9	9	4,784.55	9	4,470.32	9	4,146.95	9	3,805.56	9	3,461.07	9	3,116.57	9	2,772.03	9	2,427.34
1/4		1/4		1/4		1/4	4,777.43	1/4	4,463.79	1/4	4,140.00	1/4	3,798.39	1/4	3,453.89	1/4	3,109.39	1/4	2,764.85	1/4	2,420.16
1/2		1/2		1/2		1/2	4,770.31	1/2	4,457.25	1/2	4,133.05	1/2	3,791.21	1/2	3,446.71	1/2	3,102.22	1/2	2,757.67	1/2	2,412.98
3/4		3/4		3/4		3/4	4,763.19	3/4	4,450.68	3/4	4,126.07	3/4	3,784.03	3/4	3,439.54	3/4	3,095.04	3/4	2,750.49	3/4	2,405.80
10	10	10	10	10	10	10	4,756.07	10	4,444.12	10	4,119.08	10	3,776.86	10	3,432.36	10	3,087.86	10	2,743.31	10	2,398.61
1/4		1/4		1/4		1/4	4,748.95	1/4	4,437.55	1/4	4,112.10	1/4	3,769.68	1/4	3,425.18	1/4	3,080.69	1/4	2,736.13	1/4	2,391.43
1/2		1/2		1/2		1/2	4,741.83	1/2	4,430.98	1/2	4,105.12	1/2	3,762.50	1/2	3,418.01	1/2	3,073.51	1/2	2,728.95	1/2	2,384.25
3/4		3/4		3/4		3/4	4,734.71	3/4	4,424.37	3/4	4,098.10	3/4	3,755.32	3/4	3,410.83	3/4	3,066.33	3/4	2,721.76	3/4	2,377.07
11	11	11	11	11	11	11	4,727.59	11	4,417.77	11	4,091.09	11	3,748.15	11	3,403.65	11	3,059.16	11	2,714.58	11	2,369.89
1/4		1/4		1/4		1/4	4,720.47	1/4	4,411.16	1/4	4,084.07	1/4	3,740.97	1/4	3,396.47	1/4	3,051.98	1/4	2,707.40	1/4	2,362.71
1/2		1/2		1/2		1/2	4,713.35	1/2	4,404.56	1/2	4,077.06	1/2	3,733.79	1/2	3,389.30	1/2	3,044.80	1/2	2,700.22	1/2	2,355.53
3/4		3/4		3/4		3/4	4,706.68	3/4	4,397.92	3/4	4,070.01	3/4	3,726.62	3/4	3,382.12	3/4	3,037.62	3/4	2,693.04	3/4	2,348.35

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" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29099"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,341.17	0	1,996.47	0	1,651.78	0	1,307.09	0	969.47	0	632.09	0	287.41	0		0		0	
1/4	2,333.98	1/4	1,989.29	1/4	1,644.60	1/4	1,299.91	1/4	962.59	1/4	624.91	1/4	280.23	1/4		1/4		1/4	
1/2	2,326.80	1/2	1,982.11	1/2	1,637.42	1/2	1,292.73	1/2	955.72	1/2	617.72	1/2	273.05	1/2		1/2		1/2	
3/4	2,319.62	3/4	1,974.93	3/4	1,630.24	3/4	1,285.54	3/4	948.84	3/4	610.54	3/4	265.87	3/4		3/4		3/4	
1	2,312.44	1	1,967.75	1	1,623.06	1	1,278.36	1	941.96	1	603.36	1	258.68	1		1		1	
1/4	2,305.26	1/4	1,960.57	1/4	1,615.87	1/4	1,271.18	1/4	935.09	1/4	596.18	1/4	251.50	1/4		1/4		1/4	
1/2	2,298.08	1/2	1,953.39	1/2	1,608.69	1/2	1,264.00	1/2	928.21	1/2	589.00	1/2	244.32	1/2		1/2		1/2	
3/4	2,290.90	3/4	1,946.21	3/4	1,601.51	3/4	1,256.82	3/4	921.33	3/4	581.82	3/4	237.14	3/4		3/4		3/4	
2	2,283.72	2	1,939.02	2	1,594.33	2	1,249.64	2	914.46	2	574.64	2	229.96	2		2		2	
1/4	2,276.54	1/4	1,931.84	1/4	1,587.15	1/4	1,242.46	1/4	907.58	1/4	567.46	1/4	222.78	1/4		1/4		1/4	
1/2	2,269.35	1/2	1,924.66	1/2	1,579.97	1/2	1,235.28	1/2	900.70	1/2	560.28	1/2	215.60	1/2		1/2		1/2	
3/4	2,262.17	3/4	1,917.48	3/4	1,572.79	3/4	1,228.10	3/4	893.83	3/4	553.10	3/4	208.42	3/4		3/4		3/4	
3	2,254.99	3	1,910.30	3	1,565.61	3	1,220.91	3	886.95	3	545.92	3	201.24	3		3		3	
1/4	2,247.81	1/4	1,903.12	1/4	1,558.43	1/4	1,213.73	1/4	880.07	1/4	538.74	1/4	194.06	1/4		1/4		1/4	
1/2	2,240.63	1/2	1,895.94	1/2	1,551.24	1/2	1,206.55	1/2	873.20	1/2	531.56	1/2	186.88	1/2		1/2		1/2	
3/4	2,233.45	3/4	1,888.76	3/4	1,544.06	3/4	1,199.37	3/4	866.32	3/4	524.37	3/4	179.70	3/4		3/4		3/4	
4	2,226.27	4	1,881.58	4	1,536.88	4	1,192.19	4	859.44	4	517.19	4	172.52	4		4		4	
1/4	2,219.09	1/4	1,874.39	1/4	1,529.70	1/4	1,185.01	1/4	852.57	1/4	510.01	1/4	165.33	1/4		1/4		1/4	
1/2	2,211.91	1/2	1,867.21	1/2	1,522.52	1/2	1,177.83	1/2	845.69	1/2	502.83	1/2	158.15	1/2		1/2		1/2	
3/4	2,204.72	3/4	1,860.03	3/4	1,515.34	3/4	1,170.65	3/4	838.81	3/4	495.65	3/4	150.97	3/4		3/4		3/4	
5	2,197.54	5	1,852.85	5	1,508.16	5	1,163.47	5	831.94	5	488.47	5	143.79	5		5		5	
1/4	2,190.36	1/4	1,845.67	1/4	1,500.98	1/4	1,156.28	1/4	825.06	1/4	481.29	1/4	136.61	1/4		1/4		1/4	
1/2	2,183.18	1/2	1,838.49	1/2	1,493.80	1/2	1,149.10	1/2	818.18	1/2	474.11	1/2	129.43	1/2		1/2		1/2	
3/4	2,176.00	3/4	1,831.31	3/4	1,486.61	3/4	1,142.06	3/4	811.15	3/4	466.93	3/4	122.26	3/4		3/4		3/4	
6	2,168.82	6	1,824.13	6	1,479.43	6	1,135.02	6	804.12	6	459.75	6	115.08	6		6		6	
1/4	2,161.64	1/4	1,816.95	1/4	1,472.25	1/4	1,127.98	1/4	797.09	1/4	452.57	1/4	107.91	1/4		1/4		1/4	
1/2	2,154.46	1/2	1,809.76	1/2	1,465.07	1/2	1,120.95	1/2	790.06	1/2	445.39	1/2	100.73	1/2		1/2		1/2	
3/4	2,147.28	3/4	1,802.58	3/4	1,457.89	3/4	1,114.05	3/4	782.88	3/4	438.20	3/4	93.57	3/4		3/4		3/4	
7	2,140.10	7	1,795.40	7	1,450.71	7	1,107.15	7	775.70	7	431.02	7	86.42	7		7		7	
1/4	2,132.91	1/4	1,788.22	1/4	1,443.53	1/4	1,100.25	1/4	768.52	1/4	423.84	1/4	79.26	1/4		1/4		1/4	
1/2	2,125.73	1/2	1,781.04	1/2	1,436.35	1/2	1,093.35	1/2	761.34	1/2	416.66	1/2	72.10	1/2		1/2		1/2	
3/4	2,118.55	3/4	1,773.86	3/4	1,429.17	3/4	1,086.46	3/4	754.16	3/4	409.48	3/4	65.39	3/4		3/4		3/4	
8	2,111.37	8	1,766.68	8	1,421.99	8	1,079.57	8	746.98	8	402.30	8	58.67	8		8		8	
1/4	2,104.19	1/4	1,759.50	1/4	1,414.80	1/4	1,072.68	1/4	739.80	1/4	395.12	1/4	51.96	1/4		1/4		1/4	
1/2	2,097.01	1/2	1,752.32	1/2	1,407.62	1/2	1,065.79	1/2	732.62	1/2	387.94	1/2	45.24	1/2		1/2		1/2	
3/4	2,089.83	3/4	1,745.13	3/4	1,400.44	3/4	1,058.90	3/4	725.44	3/4	380.76	3/4	39.86	3/4		3/4		3/4	
9	2,082.65	9	1,737.95	9	1,393.26	9	1,052.02	9	718.26	9	373.58	9	34.47	9		9		9	
1/4	2,075.47	1/4	1,730.77	1/4	1,386.08	1/4	1,045.14	1/4	711.08	1/4	366.40	1/4	29.09	1/4		1/4		1/4	
1/2	2,068.28	1/2	1,723.59	1/2	1,378.90	1/2	1,038.25	1/2	703.89	1/2	359.22	1/2	23.70	1/2		1/2		1/2	
3/4	2,061.10	3/4	1,716.41	3/4	1,371.72	3/4	1,031.37	3/4	696.71	3/4	352.04	3/4		3/4		3/4		3/4	
10	2,053.92	10	1,709.23	10	1,364.54	10	1,024.49	10	689.53	10	344.85	10		10		10		10	
1/4	2,046.74	1/4	1,702.05	1/4	1,357.36	1/4	1,017.61	1/4	682.35	1/4	337.67	1/4		1/4		1/4		1/4	
1/2	2,039.56	1/2	1,694.87	1/2	1,350.17	1/2	1,010.73	1/2	675.17	1/2	330.49	1/2		1/2		1/2		1/2	
3/4	2,032.38	3/4	1,687.69	3/4	1,342.99	3/4	1,003.85	3/4	667.99	3/4	323.31	3/4		3/4		3/4		3/4	
11	2,025.20	11	1,680.50	11	1,335.81	11	996.98	11	660.81	11	316.13	11		11		11		11	
1/4	2,018.02	1/4	1,673.32	1/4	1,328.63	1/4	990.10	1/4	653.63	1/4	308.95	1/4		1/4		1/4		1/4	
1/2	2,010.84	1/2	1,666.14	1/2	1,321.45	1/2	983.22	1/2	646.45	1/2	301.77	1/2		1/2		1/2		1/2	
3/4	2,003.65	3/4	1,658.96	3/4	1,314.27	3/4	976.35	3/4	639.27	3/4	294.59	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2014 CL
CALCULATED: 05/20/2014 CL
PRINTED: 05/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "KIRBY 29099"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,724.89	0	4,416.25	0	4,088.91	0	3,745.83	0	3,401.50	0	3,057.18	0	2,712.78
1/4		1/4		1/4		1/4	4,718.22	1/4	4,409.61	1/4	4,081.87	1/4	3,738.65	1/4	3,394.33	1/4	3,050.01	1/4	2,705.60
1/2		1/2		1/2		1/2	4,711.55	1/2	4,402.98	1/2	4,074.82	1/2	3,731.48	1/2	3,387.16	1/2	3,042.83	1/2	2,698.42
3/4		3/4		3/4		3/4	4,704.88	3/4	4,396.34	3/4	4,067.77	3/4	3,724.31	3/4	3,379.98	3/4	3,035.66	3/4	2,691.25
1	1	1	1	1	1	1	4,698.22	1	4,389.71	1	4,060.73	1	3,717.13	1	3,372.81	1	3,028.49	1	2,684.07
1/4		1/4		1/4		1/4	4,691.98	1/4	4,383.05	1/4	4,053.64	1/4	3,709.96	1/4	3,365.64	1/4	3,021.31	1/4	2,676.89
1/2		1/2		1/2		1/2	4,685.75	1/2	4,376.38	1/2	4,046.56	1/2	3,702.78	1/2	3,358.46	1/2	3,014.14	1/2	2,669.71
3/4		3/4		3/4		3/4	4,679.52	3/4	4,369.72	3/4	4,039.48	3/4	3,695.61	3/4	3,351.29	3/4	3,006.97	3/4	2,662.54
2	2	2	2	2	2	2	4,673.28	2	4,363.05	2	4,032.39	2	3,688.44	2	3,344.11	2	2,999.79	2	2,655.36
1/4		1/4		1/4		1/4	4,667.02	1/4	4,356.35	1/4	4,025.28	1/4	3,681.26	1/4	3,336.94	1/4	2,992.62	1/4	2,648.18
1/2		1/2		1/2		1/2	4,660.76	1/2	4,349.66	1/2	4,018.17	1/2	3,674.09	1/2	3,329.77	1/2	2,985.44	1/2	2,641.00
3/4		3/4		3/4		3/4	4,654.49	3/4	4,342.96	3/4	4,011.05	3/4	3,666.92	3/4	3,322.59	3/4	2,978.27	3/4	2,633.83
3	3	3	3	3	3	3	4,648.23	3	4,336.26	3	4,003.94	3	3,659.74	3	3,315.42	3	2,971.10	3	2,626.65
1/4		1/4		1/4		1/4	4,641.93	1/4	4,329.53	1/4	3,996.79	1/4	3,652.57	1/4	3,308.25	1/4	2,963.92	1/4	2,619.47
1/2		1/2		1/2		1/2	4,635.63	1/2	4,322.81	1/2	3,989.65	1/2	3,645.40	1/2	3,301.07	1/2	2,956.75	1/2	2,612.29
3/4		3/4		3/4		3/4	4,629.34	3/4	4,316.08	3/4	3,982.50	3/4	3,638.22	3/4	3,293.90	3/4	2,949.58	3/4	2,605.12
4	4	4	4	4	4	4	4,623.04	4	4,309.35	4	3,975.35	4	3,631.05	4	3,286.73	4	2,942.40	4	2,597.94
1/4		1/4		1/4		1/4	4,616.71	1/4	4,302.59	1/4	3,968.19	1/4	3,623.88	1/4	3,279.55	1/4	2,935.23	1/4	2,590.76
1/2		1/2		1/2		1/2	4,610.38	1/2	4,295.83	1/2	3,961.02	1/2	3,616.70	1/2	3,272.38	1/2	2,928.06	1/2	2,583.58
3/4		3/4		3/4		3/4	4,604.04	3/4	4,289.07	3/4	3,953.85	3/4	3,609.53	3/4	3,265.21	3/4	2,920.88	3/4	2,576.41
5	5	5	5	5	5	5	4,597.71	5	4,282.31	5	3,946.68	5	3,602.36	5	3,258.03	5	2,913.71	5	2,569.23
1/4		1/4		1/4		1/4	4,591.35	1/4	4,275.52	1/4	3,939.51	1/4	3,595.18	1/4	3,250.86	1/4	2,906.54	1/4	2,562.05
1/2		1/2		1/2		1/2	4,584.98	1/2	4,268.73	1/2	3,932.33	1/2	3,588.01	1/2	3,243.69	1/2	2,899.36	1/2	2,554.87
3/4		3/4		3/4		3/4	4,578.62	3/4	4,261.93	3/4	3,925.16	3/4	3,580.84	3/4	3,236.51	3/4	2,892.19	3/4	2,547.70
6	6	6	6	6	6	6	4,572.25	6	4,255.14	6	3,917.99	6	3,573.66	6	3,229.34	6	2,885.02	6	2,540.52
1/4		1/4		1/4		1/4	4,565.86	1/4	4,248.31	1/4	3,910.81	1/4	3,566.49	1/4	3,222.17	1/4	2,877.84	1/4	2,533.34
1/2		1/2		1/2		1/2	4,559.46	1/2	4,241.49	1/2	3,903.64	1/2	3,559.32	1/2	3,214.99	1/2	2,870.67	1/2	2,526.16
3/4		3/4		3/4		3/4	4,553.06	3/4	4,234.66	3/4	3,896.47	3/4	3,552.14	3/4	3,207.82	3/4	2,863.50	3/4	2,518.99
7	7	7	7	7	7	7	4,546.67	7	4,227.83	7	3,889.29	7	3,544.97	7	3,200.65	7	2,856.33	7	2,511.81
1/4		1/4		1/4		1/4	4,540.24	1/4	4,220.96	1/4	3,882.12	1/4	3,537.80	1/4	3,193.47	1/4	2,849.15	1/4	2,504.63
1/2		1/2		1/2		1/2	4,848.67	1/2	4,533.81	1/2	4,214.08	1/2	3,874.95	1/2	3,530.62	1/2	3,186.30	1/2	2,841.97
3/4		3/4		3/4		3/4	4,842.99	3/4	4,527.39	3/4	4,207.21	3/4	3,867.77	3/4	3,523.45	3/4	3,179.13	3/4	2,834.80
8	8	8	8	8	8	8	4,837.31	8	4,520.96	8	4,200.33	8	3,860.60	8	3,516.28	8	3,171.95	8	2,827.62
1/4		1/4		1/4		1/4	4,830.55	1/4	4,514.48	1/4	4,193.42	1/4	3,853.43	1/4	3,509.10	1/4	3,164.78	1/4	2,820.44
1/2		1/2		1/2		1/2	4,823.79	1/2	4,508.00	1/2	4,186.50	1/2	3,846.25	1/2	3,501.93	1/2	3,157.61	1/2	2,813.26
3/4		3/4		3/4		3/4	4,817.04	3/4	4,501.52	3/4	4,179.59	3/4	3,839.08	3/4	3,494.76	3/4	3,150.43	3/4	2,806.09
9	9	9	9	9	9	9	4,810.28	9	4,495.04	9	4,172.67	9	3,831.91	9	3,487.58	9	3,143.26	9	2,798.91
1/4		1/4		1/4		1/4	4,803.16	1/4	4,488.51	1/4	4,165.72	1/4	3,824.73	1/4	3,480.41	1/4	3,136.09	1/4	2,791.73
1/2		1/2		1/2		1/2	4,796.05	1/2	4,481.98	1/2	4,158.77	1/2	3,817.56	1/2	3,473.24	1/2	3,128.91	1/2	2,784.55
3/4		3/4		3/4		3/4	4,788.93	3/4	4,475.45	3/4	4,151.83	3/4	3,810.39	3/4	3,466.06	3/4	3,121.74	3/4	2,777.38
10	10	10	10	10	10	10	4,781.81	10	4,468.92	10	4,144.88	10	3,803.21	10	3,458.89	10	3,114.57	10	2,770.20
1/4		1/4		1/4		1/4	4,774.70	1/4	4,462.35	1/4	4,137.90	1/4	3,796.04	1/4	3,451.72	1/4	3,107.39	1/4	2,763.02
1/2		1/2		1/2		1/2	4,767.58	1/2	4,455.79	1/2	4,130.92	1/2	3,788.87	1/2	3,444.54	1/2	3,100.22	1/2	2,755.84
3/4		3/4		3/4		3/4	4,760.47	3/4	4,449.22	3/4	4,123.94	3/4	3,781.69	3/4	3,437.37	3/4	3,093.05	3/4	2,748.67
11	11	11	11	11	11	11	4,753.35	11	4,442.65	11	4,116.96	11	3,774.52	11	3,430.20	11	3,085.87	11	2,741.49
1/4		1/4		1/4		1/4	4,746.23	1/4	4,436.05	1/4	4,109.95	1/4	3,767.35	1/4	3,423.02	1/4	3,078.70	1/4	2,734.31
1/2		1/2		1/2		1/2	4,739.12	1/2	4,429.45	1/2	4,102.94	1/2	3,760.17	1/2	3,415.85	1/2	3,071.53	1/2	2,727.13
3/4		3/4		3/4		3/4	4,732.00	3/4	4,422.85	3/4	4,095.92	3/4	3,753.00	3/4	3,408.68	3/4	3,064.35	3/4	2,719.96

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29099"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,368.26	0	2,023.74	0	1,679.22	0	1,334.70	0	990.30	0	646.12	0	301.62	0		0		0	
1/4	2,361.08	1/4	2,016.56	1/4	1,672.04	1/4	1,327.52	1/4	983.14	1/4	638.95	1/4	294.44	1/4		1/4		1/4	
1/2	2,353.90	1/2	2,009.38	1/2	1,664.86	1/2	1,320.34	1/2	975.97	1/2	631.77	1/2	287.26	1/2		1/2		1/2	
3/4	2,346.73	3/4	2,002.21	3/4	1,657.69	3/4	1,313.17	3/4	968.81	3/4	624.59	3/4	280.09	3/4		3/4		3/4	
1	2,339.55	1	1,995.03	1	1,650.51	1	1,305.99	1	961.64	1	617.41	1	272.91	1		1		1	
1/4	2,332.37	1/4	1,987.85	1/4	1,643.33	1/4	1,298.81	1/4	954.48	1/4	610.24	1/4	265.73	1/4		1/4		1/4	
1/2	2,325.19	1/2	1,980.67	1/2	1,636.15	1/2	1,291.63	1/2	947.31	1/2	603.06	1/2	258.55	1/2		1/2		1/2	
3/4	2,318.02	3/4	1,973.50	3/4	1,628.98	3/4	1,284.46	3/4	940.15	3/4	595.88	3/4	251.38	3/4		3/4		3/4	
2	2,310.84	2	1,966.32	2	1,621.80	2	1,277.28	2	932.99	2	588.71	2	244.20	2		2		2	
1/4	2,303.66	1/4	1,959.14	1/4	1,614.62	1/4	1,270.10	1/4	925.82	1/4	581.53	1/4	237.02	1/4		1/4		1/4	
1/2	2,296.48	1/2	1,951.96	1/2	1,607.44	1/2	1,262.92	1/2	918.66	1/2	574.35	1/2	229.85	1/2		1/2		1/2	
3/4	2,289.31	3/4	1,944.79	3/4	1,600.27	3/4	1,255.75	3/4	911.49	3/4	567.17	3/4	222.67	3/4		3/4		3/4	
3	2,282.13	3	1,937.61	3	1,593.09	3	1,248.57	3	904.33	3	560.00	3	215.49	3		3		3	
1/4	2,274.95	1/4	1,930.43	1/4	1,585.91	1/4	1,241.39	1/4	897.16	1/4	552.82	1/4	208.31	1/4		1/4		1/4	
1/2	2,267.77	1/2	1,923.25	1/2	1,578.73	1/2	1,234.21	1/2	890.00	1/2	545.64	1/2	201.14	1/2		1/2		1/2	
3/4	2,260.60	3/4	1,916.08	3/4	1,571.56	3/4	1,227.04	3/4	882.83	3/4	538.47	3/4	193.96	3/4		3/4		3/4	
4	2,253.42	4	1,908.90	4	1,564.38	4	1,219.86	4	875.67	4	531.29	4	186.78	4		4		4	
1/4	2,246.24	1/4	1,901.72	1/4	1,557.20	1/4	1,212.68	1/4	868.50	1/4	524.11	1/4	179.61	1/4		1/4		1/4	
1/2	2,239.06	1/2	1,894.54	1/2	1,550.02	1/2	1,205.50	1/2	861.34	1/2	516.93	1/2	172.43	1/2		1/2		1/2	
3/4	2,231.89	3/4	1,887.37	3/4	1,542.85	3/4	1,198.33	3/4	854.18	3/4	509.76	3/4	165.25	3/4		3/4		3/4	
5	2,224.71	5	1,880.19	5	1,535.67	5	1,191.15	5	847.01	5	502.58	5	158.07	5		5		5	
1/4	2,217.53	1/4	1,873.01	1/4	1,528.49	1/4	1,183.97	1/4	839.85	1/4	495.40	1/4	150.90	1/4		1/4		1/4	
1/2	2,210.35	1/2	1,865.83	1/2	1,521.31	1/2	1,176.79	1/2	832.68	1/2	488.23	1/2	143.72	1/2		1/2		1/2	
3/4	2,203.18	3/4	1,858.66	3/4	1,514.14	3/4	1,169.62	3/4	825.52	3/4	481.05	3/4	136.54	3/4		3/4		3/4	
6	2,196.00	6	1,851.48	6	1,506.96	6	1,162.44	6	818.35	6	473.87	6	129.37	6		6		6	
1/4	2,188.82	1/4	1,844.30	1/4	1,499.78	1/4	1,155.26	1/4	811.18	1/4	466.69	1/4	122.20	1/4		1/4		1/4	
1/2	2,181.64	1/2	1,837.12	1/2	1,492.60	1/2	1,148.08	1/2	804.01	1/2	459.52	1/2	115.02	1/2		1/2		1/2	
3/4	2,174.47	3/4	1,829.95	3/4	1,485.43	3/4	1,140.91	3/4	796.84	3/4	452.34	3/4	107.85	3/4		3/4		3/4	
7	2,167.29	7	1,822.77	7	1,478.25	7	1,133.73	7	789.67	7	445.16	7	100.68	7		7		7	
1/4	2,160.11	1/4	1,815.59	1/4	1,471.07	1/4	1,126.55	1/4	782.49	1/4	437.98	1/4	93.53	1/4		1/4		1/4	
1/2	2,152.93	1/2	1,808.41	1/2	1,463.89	1/2	1,119.37	1/2	775.31	1/2	430.81	1/2	86.37	1/2		1/2		1/2	
3/4	2,145.76	3/4	1,801.24	3/4	1,456.72	3/4	1,112.20	3/4	768.14	3/4	423.63	3/4	79.22	3/4		3/4		3/4	
8	2,138.58	8	1,794.06	8	1,449.54	8	1,105.02	8	760.96	8	416.45	8	72.06	8		8		8	
1/4	2,131.40	1/4	1,786.88	1/4	1,442.36	1/4	1,097.84	1/4	753.78	1/4	409.28	1/4	65.35	1/4		1/4		1/4	
1/2	2,124.22	1/2	1,779.70	1/2	1,435.18	1/2	1,090.67	1/2	746.60	1/2	402.10	1/2	58.64	1/2		1/2		1/2	
3/4	2,117.05	3/4	1,772.53	3/4	1,428.01	3/4	1,083.49	3/4	739.43	3/4	394.92	3/4	51.93	3/4		3/4		3/4	
9	2,109.87	9	1,765.35	9	1,420.83	9	1,076.32	9	732.25	9	387.74	9	45.22	9		9		9	
1/4	2,102.69	1/4	1,758.17	1/4	1,413.65	1/4	1,069.15	1/4	725.07	1/4	380.57	1/4	39.84	1/4		1/4		1/4	
1/2	2,095.51	1/2	1,750.99	1/2	1,406.47	1/2	1,061.98	1/2	717.90	1/2	373.39	1/2	34.46	1/2		1/2		1/2	
3/4	2,088.34	3/4	1,743.82	3/4	1,399.30	3/4	1,054.80	3/4	710.72	3/4	366.21	3/4	29.07	3/4		3/4		3/4	
10	2,081.16	10	1,736.64	10	1,392.12	10	1,047.63	10	703.54	10	359.04	10	23.69	10		10		10	
1/4	2,073.98	1/4	1,729.46	1/4	1,384.94	1/4	1,040.46	1/4	696.36	1/4	351.86	1/4		1/4		1/4		1/4	
1/2	2,066.80	1/2	1,722.28	1/2	1,377.76	1/2	1,033.30	1/2	689.19	1/2	344.68	1/2		1/2		1/2		1/2	
3/4	2,059.63	3/4	1,715.11	3/4	1,370.59	3/4	1,026.13	3/4	682.01	3/4	337.50	3/4		3/4		3/4		3/4	
11	2,052.45	11	1,707.93	11	1,363.41	11	1,018.96	11	674.83	11	330.33	11		11		11		11	
1/4	2,045.27	1/4	1,700.75	1/4	1,356.23	1/4	1,011.79	1/4	667.66	1/4	323.15	1/4		1/4		1/4		1/4	
1/2	2,038.09	1/2	1,693.57	1/2	1,349.05	1/2	1,004.63	1/2	660.48	1/2	315.97	1/2		1/2		1/2		1/2	
3/4	2,030.92	3/4	1,686.40	3/4	1,341.88	3/4	997.47	3/4	653.30	3/4	308.80	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2014 CL
CALCULATED: 05/20/2014 CL
PRINTED: 05/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

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



BARGE "KIRBY 29099"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,567.63	0	4,341.42	0	4,101.26	0	3,849.83	0	3,576.63	0	3,213.19	0	2,849.02
1/4		1/4		1/4		1/4	4,562.74	1/4	4,336.55	1/4	4,096.10	1/4	3,844.57	1/4	3,569.06	1/4	3,205.60	1/4	2,841.44
1/2		1/2		1/2		1/2	4,557.85	1/2	4,331.69	1/2	4,090.94	1/2	3,839.32	1/2	3,561.49	1/2	3,198.02	1/2	2,833.85
3/4		3/4		3/4		3/4	4,552.96	3/4	4,326.83	3/4	4,085.78	3/4	3,834.06	3/4	3,553.92	3/4	3,190.43	3/4	2,826.26
1	1	1	1	1	1	1	4,548.39	1	4,321.95	1	4,080.59	1	3,828.81	1	3,546.35	1	3,182.85	1	2,818.67
1/4		1/4		1/4		1/4	4,543.82	1/4	4,317.06	1/4	4,075.40	1/4	3,823.55	1/4	3,538.79	1/4	3,175.26	1/4	2,811.08
1/2		1/2		1/2		1/2	4,539.25	1/2	4,312.18	1/2	4,070.21	1/2	3,818.30	1/2	3,531.22	1/2	3,167.68	1/2	2,803.49
3/4		3/4		3/4		3/4	4,534.69	3/4	4,307.29	3/4	4,065.02	3/4	3,813.04	3/4	3,523.66	3/4	3,160.09	3/4	2,795.91
2	2	2	2	2	2	2	4,530.09	2	4,302.39	2	4,059.81	2	3,807.79	2	3,516.09	2	3,152.51	2	2,788.32
1/4		1/4		1/4		1/4	4,525.50	1/4	4,297.48	1/4	4,054.60	1/4	3,802.53	1/4	3,508.53	1/4	3,144.92	1/4	2,780.73
1/2		1/2		1/2		1/2	4,520.91	1/2	4,292.57	1/2	4,049.39	1/2	3,797.27	1/2	3,500.96	1/2	3,137.33	1/2	2,773.14
3/4		3/4		3/4		3/4	4,516.32	3/4	4,287.66	3/4	4,044.17	3/4	3,792.02	3/4	3,493.40	3/4	3,129.75	3/4	2,765.55
3	3	3	3	3	3	3	4,511.70	3	4,282.73	3	4,038.94	3	3,786.76	3	3,485.83	3	3,122.16	3	2,757.97
1/4		1/4		1/4		1/4	4,507.09	1/4	4,277.80	1/4	4,033.70	1/4	3,781.51	1/4	3,478.27	1/4	3,114.58	1/4	2,750.38
1/2		1/2		1/2		1/2	4,502.47	1/2	4,272.87	1/2	4,028.47	1/2	3,776.25	1/2	3,470.70	1/2	3,106.99	1/2	2,742.79
3/4		3/4		3/4		3/4	4,497.85	3/4	4,267.94	3/4	4,023.23	3/4	3,771.00	3/4	3,463.14	3/4	3,099.41	3/4	2,735.20
4	4	4	4	4	4	4	4,493.21	4	4,262.99	4	4,017.98	4	3,765.74	4	3,455.57	4	3,091.82	4	2,727.61
1/4		1/4		1/4		1/4	4,488.57	1/4	4,258.03	1/4	4,012.73	1/4	3,760.49	1/4	3,448.01	1/4	3,084.24	1/4	2,720.02
1/2		1/2		1/2		1/2	4,483.92	1/2	4,253.08	1/2	4,007.48	1/2	3,755.23	1/2	3,440.44	1/2	3,076.65	1/2	2,712.44
3/4		3/4		3/4		3/4	4,479.28	3/4	4,248.12	3/4	4,002.24	3/4	3,749.98	3/4	3,432.88	3/4	3,069.07	3/4	2,704.85
5	5	5	5	5	5	5	4,474.62	5	4,243.15	5	3,996.98	5	3,744.72	5	3,425.32	5	3,061.48	5	2,697.26
1/4		1/4		1/4		1/4	4,469.95	1/4	4,238.17	1/4	3,991.72	1/4	3,739.47	1/4	3,417.75	1/4	3,053.89	1/4	2,689.67
1/2		1/2		1/2		1/2	4,465.29	1/2	4,233.19	1/2	3,986.47	1/2	3,734.21	1/2	3,410.19	1/2	3,046.31	1/2	2,682.08
3/4		3/4		3/4		3/4	4,460.62	3/4	4,228.22	3/4	3,981.21	3/4	3,728.95	3/4	3,402.62	3/4	3,038.72	3/4	2,674.50
6	6	6	6	6	6	6	4,455.93	6	4,223.21	6	3,975.96	6	3,723.70	6	3,395.06	6	3,031.14	6	2,666.90
1/4		1/4		1/4		1/4	4,451.24	1/4	4,218.21	1/4	3,970.70	1/4	3,718.44	1/4	3,387.49	1/4	3,023.55	1/4	2,659.31
1/2		1/2		1/2		1/2	4,446.55	1/2	4,213.21	1/2	3,965.45	1/2	3,713.19	1/2	3,379.93	1/2	3,015.96	1/2	2,651.72
3/4		3/4		3/4		3/4	4,441.86	3/4	4,208.20	3/4	3,960.19	3/4	3,707.93	3/4	3,372.36	3/4	3,008.38	3/4	2,644.13
7	7	7	7	7	7	7	4,437.15	7	4,203.17	7	3,954.94	7	3,702.68	7	3,364.80	7	3,000.79	7	2,636.53
1/4		1/4		1/4	4,661.83	1/4	4,432.44	1/4	4,198.13	1/4	3,949.68	1/4	3,697.42	1/4	3,357.23	1/4	2,993.20	1/4	2,628.94
1/2		1/2		1/2	4,658.14	1/2	4,427.73	1/2	4,193.09	1/2	3,944.43	1/2	3,692.17	1/2	3,349.67	1/2	2,985.61	1/2	2,621.34
3/4		3/4		3/4	4,654.45	3/4	4,423.02	3/4	4,188.06	3/4	3,939.17	3/4	3,686.91	3/4	3,342.10	3/4	2,978.02	3/4	2,613.75
8	8	8	8	8	8	8	4,649.61	8	4,418.27	8	3,933.91	8	3,681.66	8	3,334.53	8	2,970.43	8	2,606.15
1/4		1/4		1/4	4,644.78	1/4	4,413.52	1/4	4,177.92	1/4	3,928.66	1/4	3,676.40	1/4	3,326.95	1/4	2,962.85	1/4	2,598.55
1/2		1/2		1/2	4,639.94	1/2	4,408.77	1/2	4,172.85	1/2	3,923.40	1/2	3,671.14	1/2	3,319.38	1/2	2,955.26	1/2	2,590.96
3/4		3/4		3/4	4,635.11	3/4	4,404.02	3/4	4,167.79	3/4	3,918.15	3/4	3,665.89	3/4	3,311.80	3/4	2,947.67	3/4	2,583.36
9	9	9	9	9	9	9	4,629.89	9	4,399.23	9	3,912.89	9	3,660.05	9	3,304.22	9	2,940.08	9	2,575.77
1/4		1/4		1/4	4,624.67	1/4	4,394.45	1/4	4,157.61	1/4	3,907.64	1/4	3,654.20	1/4	3,296.63	1/4	2,932.49	1/4	2,568.17
1/2		1/2		1/2	4,619.46	1/2	4,389.66	1/2	4,152.52	1/2	3,902.38	1/2	3,648.36	1/2	3,289.04	1/2	2,924.91	1/2	2,560.58
3/4		3/4		3/4	4,614.24	3/4	4,384.88	3/4	4,147.43	3/4	3,897.13	3/4	3,642.52	3/4	3,281.46	3/4	2,917.32	3/4	2,552.98
10	10	10	10	10	10	10	4,609.03	10	4,380.06	10	3,891.87	10	3,635.51	10	3,273.87	10	2,909.73	10	2,545.41
1/4		1/4		1/4	4,603.81	1/4	4,375.25	1/4	4,137.20	1/4	3,886.62	1/4	3,628.51	1/4	3,266.29	1/4	2,902.14	1/4	2,537.83
1/2		1/2		1/2	4,598.59	1/2	4,370.44	1/2	4,132.09	1/2	3,881.36	1/2	3,621.51	1/2	3,258.70	1/2	2,894.55	1/2	2,530.25
3/4		3/4		3/4	4,593.38	3/4	4,365.63	3/4	4,126.97	3/4	3,876.11	3/4	3,614.50	3/4	3,251.12	3/4	2,886.96	3/4	2,522.68
11	11	11	11	11	11	11	4,588.16	11	4,360.79	11	3,870.85	11	3,606.93	11	3,243.53	11	2,879.38	11	2,515.12
1/4		1/4		1/4	4,582.94	1/4	4,355.95	1/4	4,116.70	1/4	3,865.59	1/4	3,599.35	1/4	3,235.95	1/4	2,871.79	1/4	2,507.56
1/2		1/2		1/2	4,577.73	1/2	4,351.11	1/2	4,111.56	1/2	3,860.34	1/2	3,591.77	1/2	3,228.36	1/2	2,864.20	1/2	2,500.01
3/4		3/4		3/4	4,572.51	3/4	4,346.28	3/4	4,106.43	3/4	3,855.08	3/4	3,584.20	3/4	3,220.78	3/4	2,856.61	3/4	2,492.45

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

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



BARGE "KIRBY 29099"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,484.89	0	2,122.72	0	1,759.70	0	1,395.12	0	1,035.61	0	676.68	0	311.92	0		0		0	
1/4	2,477.34	1/4	2,115.19	1/4	1,752.11	1/4	1,387.52	1/4	1,028.24	1/4	669.08	1/4	304.32	1/4		1/4		1/4	
1/2	2,469.78	1/2	2,107.65	1/2	1,744.51	1/2	1,379.93	1/2	1,020.88	1/2	661.48	1/2	296.72	1/2		1/2		1/2	
3/4	2,462.22	3/4	2,100.12	3/4	1,736.91	3/4	1,372.33	3/4	1,013.51	3/4	653.88	3/4	289.12	3/4		3/4		3/4	
1	2,454.66	1	2,092.59	1	1,729.32	1	1,364.74	1	1,006.15	1	646.28	1	281.53	1		1		1	
1/4	2,447.11	1/4	2,085.06	1/4	1,721.72	1/4	1,357.14	1/4	998.78	1/4	638.68	1/4	273.93	1/4		1/4		1/4	
1/2	2,439.55	1/2	2,077.52	1/2	1,714.13	1/2	1,349.54	1/2	991.42	1/2	631.08	1/2	266.33	1/2		1/2		1/2	
3/4	2,431.99	3/4	2,069.99	3/4	1,706.53	3/4	1,341.95	3/4	984.05	3/4	623.48	3/4	258.73	3/4		3/4		3/4	
2	2,424.44	2	2,062.46	2	1,698.94	2	1,334.35	2	976.68	2	615.88	2	251.13	2		2		2	
1/4	2,416.88	1/4	2,054.92	1/4	1,691.34	1/4	1,326.76	1/4	969.32	1/4	608.28	1/4	243.53	1/4		1/4		1/4	
1/2	2,409.32	1/2	2,047.39	1/2	1,683.75	1/2	1,319.16	1/2	961.95	1/2	600.68	1/2	235.93	1/2		1/2		1/2	
3/4	2,401.77	3/4	2,039.86	3/4	1,676.15	3/4	1,311.57	3/4	954.59	3/4	593.08	3/4	228.33	3/4		3/4		3/4	
3	2,394.21	3	2,032.33	3	1,668.56	3	1,303.97	3	947.22	3	585.48	3	220.74	3		3		3	
1/4	2,386.65	1/4	2,024.79	1/4	1,660.96	1/4	1,296.38	1/4	939.86	1/4	577.88	1/4	213.14	1/4		1/4		1/4	
1/2	2,379.09	1/2	2,017.26	1/2	1,653.36	1/2	1,288.78	1/2	932.49	1/2	570.28	1/2	205.54	1/2		1/2		1/2	
3/4	2,371.54	3/4	2,009.73	3/4	1,645.77	3/4	1,281.18	3/4	925.13	3/4	562.68	3/4	197.94	3/4		3/4		3/4	
4	2,363.98	4	2,002.20	4	1,638.17	4	1,273.59	4	917.76	4	555.08	4	190.34	4		4		4	
1/4	2,356.42	1/4	1,994.66	1/4	1,630.58	1/4	1,265.99	1/4	910.39	1/4	547.48	1/4	182.74	1/4		1/4		1/4	
1/2	2,348.87	1/2	1,987.13	1/2	1,622.98	1/2	1,258.40	1/2	903.03	1/2	539.88	1/2	175.14	1/2		1/2		1/2	
3/4	2,341.31	3/4	1,979.60	3/4	1,615.39	3/4	1,250.80	3/4	895.66	3/4	532.28	3/4	167.53	3/4		3/4		3/4	
5	2,333.75	5	1,972.07	5	1,607.79	5	1,243.21	5	888.30	5	524.68	5	159.93	5		5		5	
1/4	2,326.20	1/4	1,964.53	1/4	1,600.20	1/4	1,235.61	1/4	880.93	1/4	517.08	1/4	152.33	1/4		1/4		1/4	
1/2	2,318.64	1/2	1,957.00	1/2	1,592.60	1/2	1,228.02	1/2	873.57	1/2	509.48	1/2	144.73	1/2		1/2		1/2	
3/4	2,311.08	3/4	1,949.47	3/4	1,585.00	3/4	1,220.42	3/4	866.20	3/4	501.88	3/4	137.13	3/4		3/4		3/4	
6	2,303.54	6	1,941.90	6	1,577.41	6	1,212.93	6	858.72	6	494.28	6	129.54	6		6		6	
1/4	2,295.99	1/4	1,934.34	1/4	1,569.81	1/4	1,205.44	1/4	851.24	1/4	486.68	1/4	121.94	1/4		1/4		1/4	
1/2	2,288.45	1/2	1,926.77	1/2	1,562.22	1/2	1,197.95	1/2	843.75	1/2	479.09	1/2	114.34	1/2		1/2		1/2	
3/4	2,280.90	3/4	1,919.21	3/4	1,554.62	3/4	1,190.46	3/4	836.27	3/4	471.49	3/4	106.74	3/4		3/4		3/4	
7	2,273.37	7	1,911.61	7	1,547.03	7	1,183.07	7	828.67	7	463.89	7	99.16	7		7		7	
1/4	2,265.84	1/4	1,904.02	1/4	1,539.43	1/4	1,175.69	1/4	821.07	1/4	456.29	1/4	91.57	1/4		1/4		1/4	
1/2	2,258.30	1/2	1,896.42	1/2	1,531.84	1/2	1,168.30	1/2	813.47	1/2	448.69	1/2	83.99	1/2		1/2		1/2	
3/4	2,250.77	3/4	1,888.82	3/4	1,524.24	3/4	1,160.92	3/4	805.87	3/4	441.09	3/4	76.40	3/4		3/4		3/4	
8	2,243.24	8	1,881.23	8	1,516.65	8	1,153.54	8	798.27	8	433.49	8	69.29	8		8		8	
1/4	2,235.71	1/4	1,873.63	1/4	1,509.05	1/4	1,146.16	1/4	790.67	1/4	425.90	1/4	62.17	1/4		1/4		1/4	
1/2	2,228.17	1/2	1,866.04	1/2	1,501.45	1/2	1,138.78	1/2	783.07	1/2	418.30	1/2	55.05	1/2		1/2		1/2	
3/4	2,220.64	3/4	1,858.44	3/4	1,493.86	3/4	1,131.40	3/4	775.47	3/4	410.70	3/4	47.94	3/4		3/4		3/4	
9	2,213.11	9	1,850.85	9	1,486.26	9	1,124.03	9	767.87	9	403.10	9	42.23	9		9		9	
1/4	2,205.58	1/4	1,843.25	1/4	1,478.67	1/4	1,116.66	1/4	760.27	1/4	395.50	1/4	36.52	1/4		1/4		1/4	
1/2	2,198.04	1/2	1,835.66	1/2	1,471.07	1/2	1,109.29	1/2	752.67	1/2	387.90	1/2	30.81	1/2		1/2		1/2	
3/4	2,190.51	3/4	1,828.06	3/4	1,463.48	3/4	1,101.91	3/4	745.07	3/4	380.31	3/4	25.10	3/4		3/4		3/4	
10	2,182.98	10	1,820.47	10	1,455.88	10	1,094.54	10	737.47	10	372.71	10		10		10		10	
1/4	2,175.45	1/4	1,812.87	1/4	1,448.29	1/4	1,087.17	1/4	729.87	1/4	365.11	1/4		1/4		1/4		1/4	
1/2	2,167.91	1/2	1,805.27	1/2	1,440.69	1/2	1,079.80	1/2	722.27	1/2	357.51	1/2		1/2		1/2		1/2	
3/4	2,160.38	3/4	1,797.68	3/4	1,433.09	3/4	1,072.44	3/4	714.67	3/4	349.91	3/4		3/4		3/4		3/4	
11	2,152.85	11	1,790.08	11	1,425.50	11	1,065.07	11	707.07	11	342.31	11		11		11		11	
1/4	2,145.32	1/4	1,782.49	1/4	1,417.90	1/4	1,057.70	1/4	699.47	1/4	334.72	1/4		1/4		1/4		1/4	
1/2	2,137.78	1/2	1,774.89	1/2	1,410.31	1/2	1,050.34	1/2	691.88	1/2	327.12	1/2		1/2		1/2		1/2	
3/4	2,130.25	3/4	1,767.30	3/4	1,402.71	3/4	1,042.97	3/4	684.28	3/4	319.52	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2014 CL
CALCULATED: 05/20/2014 CL
PRINTED: 05/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

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



BARGE "KIRBY 29099"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,596.24	0	4,369.91	0	4,129.96	0	3,878.51	0	3,607.48	0	3,243.13	0	2,878.01
1/4		1/4		1/4		1/4	4,591.35	1/4	4,365.05	1/4	4,124.80	1/4	3,873.25	1/4	3,599.90	1/4	3,235.52	1/4	2,870.40
1/2		1/2		1/2		1/2	4,586.46	1/2	4,360.18	1/2	4,119.63	1/2	3,868.00	1/2	3,592.31	1/2	3,227.92	1/2	2,862.79
3/4		3/4		3/4		3/4	4,581.57	3/4	4,355.32	3/4	4,114.47	3/4	3,862.74	3/4	3,584.73	3/4	3,220.31	3/4	2,855.18
1		1		1		1	4,576.68	1	4,350.46	1	4,109.30	1	3,857.48	1	3,577.14	1	3,212.71	1	2,847.58
1/4		1/4		1/4		1/4	4,572.11	1/4	4,345.57	1/4	4,104.11	1/4	3,852.22	1/4	3,569.56	1/4	3,205.10	1/4	2,839.97
1/2		1/2		1/2		1/2	4,567.54	1/2	4,340.68	1/2	4,098.92	1/2	3,846.97	1/2	3,561.97	1/2	3,197.49	1/2	2,832.36
3/4		3/4		3/4		3/4	4,562.97	3/4	4,335.80	3/4	4,093.73	3/4	3,841.71	3/4	3,554.39	3/4	3,189.89	3/4	2,824.75
2		2		2		2	4,558.40	2	4,330.91	2	4,088.54	2	3,836.45	2	3,546.80	2	3,182.28	2	2,817.14
1/4		1/4		1/4		1/4	4,553.80	1/4	4,326.00	1/4	4,083.33	1/4	3,831.19	1/4	3,539.22	1/4	3,174.68	1/4	2,809.54
1/2		1/2		1/2		1/2	4,549.21	1/2	4,321.09	1/2	4,078.11	1/2	3,825.94	1/2	3,531.63	1/2	3,167.07	1/2	2,801.93
3/4		3/4		3/4		3/4	4,544.61	3/4	4,316.18	3/4	4,072.90	3/4	3,820.68	3/4	3,524.05	3/4	3,159.47	3/4	2,794.32
3		3		3		3	4,540.02	3	4,311.27	3	4,067.68	3	3,815.42	3	3,516.47	3	3,151.86	3	2,786.71
1/4		1/4		1/4		1/4	4,535.40	1/4	4,306.34	1/4	4,062.45	1/4	3,810.16	1/4	3,508.88	1/4	3,144.26	1/4	2,779.10
1/2		1/2		1/2		1/2	4,530.78	1/2	4,301.41	1/2	4,057.21	1/2	3,804.91	1/2	3,501.30	1/2	3,136.65	1/2	2,771.49
3/4		3/4		3/4		3/4	4,526.17	3/4	4,296.48	3/4	4,051.97	3/4	3,799.65	3/4	3,493.71	3/4	3,129.05	3/4	2,763.89
4		4		4		4	4,521.55	4	4,291.54	4	4,046.73	4	3,794.39	4	3,486.13	4	3,121.44	4	2,756.28
1/4		1/4		1/4		1/4	4,516.90	1/4	4,286.59	1/4	4,041.48	1/4	3,789.13	1/4	3,478.54	1/4	3,113.84	1/4	2,748.67
1/2		1/2		1/2		1/2	4,512.26	1/2	4,281.63	1/2	4,036.23	1/2	3,783.88	1/2	3,470.96	1/2	3,106.23	1/2	2,741.06
3/4		3/4		3/4		3/4	4,507.61	3/4	4,276.67	3/4	4,030.97	3/4	3,778.62	3/4	3,463.37	3/4	3,098.62	3/4	2,733.45
5		5		5		5	4,502.97	5	4,271.72	5	4,025.72	5	3,773.36	5	3,455.79	5	3,091.02	5	2,725.85
1/4		1/4		1/4		1/4	4,498.30	1/4	4,266.74	1/4	4,020.46	1/4	3,768.10	1/4	3,448.20	1/4	3,083.41	1/4	2,718.24
1/2		1/2		1/2		1/2	4,493.64	1/2	4,261.76	1/2	4,015.21	1/2	3,762.85	1/2	3,440.62	1/2	3,075.81	1/2	2,710.63
3/4		3/4		3/4		3/4	4,488.97	3/4	4,256.78	3/4	4,009.95	3/4	3,757.59	3/4	3,433.03	3/4	3,068.20	3/4	2,703.02
6		6		6		6	4,484.30	6	4,251.80	6	4,004.69	6	3,752.33	6	3,425.45	6	3,060.60	6	2,695.41
1/4		1/4		1/4		1/4	4,479.61	1/4	4,246.80	1/4	3,999.43	1/4	3,747.07	1/4	3,417.87	1/4	3,052.99	1/4	2,687.80
1/2		1/2		1/2		1/2	4,474.92	1/2	4,241.79	1/2	3,994.18	1/2	3,741.82	1/2	3,410.28	1/2	3,045.38	1/2	2,680.19
3/4		3/4		3/4		3/4	4,470.23	3/4	4,236.79	3/4	3,988.92	3/4	3,736.56	3/4	3,402.70	3/4	3,037.78	3/4	2,672.58
7		7		7		7	4,465.54	7	4,231.78	7	3,983.66	7	3,731.30	7	3,395.11	7	3,030.17	7	2,664.97
1/4		1/4		1/4		1/4	4,460.82	1/4	4,226.74	1/4	3,978.40	1/4	3,726.04	1/4	3,387.53	1/4	3,022.56	1/4	2,657.36
1/2		1/2		1/2		1/2	4,685.60	1/2	4,456.11	1/2	4,221.70	1/2	3,973.15	1/2	3,720.79	1/2	3,379.94	1/2	3,014.95
3/4		3/4		3/4		3/4	4,681.91	3/4	4,451.39	3/4	4,216.66	3/4	3,967.89	3/4	3,715.53	3/4	3,372.36	3/4	3,007.35
8		8		8		8	4,678.21	8	4,446.68	8	4,211.62	8	3,962.63	8	3,710.27	8	3,364.77	8	2,999.74
1/4		1/4		1/4		1/4	4,673.37	1/4	4,441.93	1/4	4,206.56	1/4	3,957.37	1/4	3,705.01	1/4	3,357.18	1/4	2,992.13
1/2		1/2		1/2		1/2	4,668.53	1/2	4,437.18	1/2	4,201.49	1/2	3,952.12	1/2	3,699.76	1/2	3,349.58	1/2	2,984.52
3/4		3/4		3/4		3/4	4,663.70	3/4	4,432.43	3/4	4,196.42	3/4	3,946.86	3/4	3,694.50	3/4	3,341.99	3/4	2,976.91
9		9		9		9	4,658.86	9	4,427.68	9	4,191.35	9	3,941.60	9	3,689.24	9	3,334.39	9	2,969.31
1/4		1/4		1/4		1/4	4,653.64	1/4	4,422.89	1/4	4,186.26	1/4	3,936.34	1/4	3,683.39	1/4	3,326.79	1/4	2,961.70
1/2		1/2		1/2		1/2	4,648.42	1/2	4,418.10	1/2	4,181.16	1/2	3,931.09	1/2	3,677.55	1/2	3,319.18	1/2	2,954.09
3/4		3/4		3/4		3/4	4,643.20	3/4	4,413.31	3/4	4,176.07	3/4	3,925.83	3/4	3,671.70	3/4	3,311.58	3/4	2,946.48
10		10		10		10	4,638.98	10	4,408.53	10	4,170.98	10	3,920.57	10	3,665.86	10	3,303.97	10	2,938.87
1/4		1/4		1/4		1/4	4,632.77	1/4	4,403.71	1/4	4,165.86	1/4	3,915.31	1/4	3,658.85	1/4	3,296.37	1/4	2,931.26
1/2		1/2		1/2		1/2	4,627.55	1/2	4,398.90	1/2	4,160.75	1/2	3,910.06	1/2	3,651.84	1/2	3,288.76	1/2	2,923.66
3/4		3/4		3/4		3/4	4,622.33	3/4	4,394.08	3/4	4,155.63	3/4	3,904.80	3/4	3,644.83	3/4	3,281.15	3/4	2,916.05
11		11		11		11	4,617.11	11	4,389.27	11	4,150.52	11	3,899.54	11	3,637.82	11	3,273.55	11	2,908.44
1/4		1/4		1/4		1/4	4,611.89	1/4	4,384.43	1/4	4,145.38	1/4	3,894.28	1/4	3,630.23	1/4	3,265.94	1/4	2,900.83
1/2		1/2		1/2		1/2	4,606.67	1/2	4,379.59	1/2	4,140.24	1/2	3,889.03	1/2	3,622.65	1/2	3,258.34	1/2	2,893.22
3/4		3/4		3/4		3/4	4,601.46	3/4	4,374.75	3/4	4,135.10	3/4	3,883.77	3/4	3,615.07	3/4	3,250.73	3/4	2,885.62

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

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



BARGE "KIRBY 29099"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,512.66	0	2,147.12	0	1,781.59	0	1,416.05	0	1,050.66	0	685.52	0	320.00	0		0		0	
1/4	2,505.05	1/4	2,139.51	1/4	1,773.97	1/4	1,408.43	1/4	1,043.06	1/4	677.91	1/4	312.38	1/4		1/4		1/4	
1/2	2,497.43	1/2	2,131.89	1/2	1,766.35	1/2	1,400.82	1/2	1,035.46	1/2	670.29	1/2	304.77	1/2		1/2		1/2	
3/4	2,489.82	3/4	2,124.28	3/4	1,758.74	3/4	1,393.20	3/4	1,027.86	3/4	662.68	3/4	297.15	3/4		3/4		3/4	
1	2,482.20	1	2,116.66	1	1,751.12	1	1,385.58	1	1,020.26	1	655.06	1	289.54	1		1		1	
1/4	2,474.59	1/4	2,109.05	1/4	1,743.51	1/4	1,377.97	1/4	1,012.66	1/4	647.45	1/4	281.92	1/4		1/4		1/4	
1/2	2,466.97	1/2	2,101.43	1/2	1,735.89	1/2	1,370.35	1/2	1,005.06	1/2	639.83	1/2	274.31	1/2		1/2		1/2	
3/4	2,459.36	3/4	2,093.82	3/4	1,728.28	3/4	1,362.74	3/4	997.46	3/4	632.22	3/4	266.69	3/4		3/4		3/4	
2	2,451.74	2	2,086.20	2	1,720.66	2	1,355.12	2	989.86	2	624.60	2	259.08	2		2		2	
1/4	2,444.13	1/4	2,078.59	1/4	1,713.05	1/4	1,347.51	1/4	982.26	1/4	616.99	1/4	251.46	1/4		1/4		1/4	
1/2	2,436.51	1/2	2,070.97	1/2	1,705.43	1/2	1,339.89	1/2	974.66	1/2	609.37	1/2	243.85	1/2		1/2		1/2	
3/4	2,428.89	3/4	2,063.36	3/4	1,697.82	3/4	1,332.28	3/4	967.06	3/4	601.76	3/4	236.23	3/4		3/4		3/4	
3	2,421.28	3	2,055.74	3	1,690.20	3	1,324.66	3	959.46	3	594.14	3	228.62	3		3		3	
1/4	2,413.66	1/4	2,048.12	1/4	1,682.59	1/4	1,317.05	1/4	951.86	1/4	586.53	1/4	221.00	1/4		1/4		1/4	
1/2	2,406.05	1/2	2,040.51	1/2	1,674.97	1/2	1,309.43	1/2	944.26	1/2	578.91	1/2	213.39	1/2		1/2		1/2	
3/4	2,398.43	3/4	2,032.89	3/4	1,667.35	3/4	1,301.82	3/4	936.66	3/4	571.30	3/4	205.77	3/4		3/4		3/4	
4	2,390.82	4	2,025.28	4	1,659.74	4	1,294.20	4	929.06	4	563.68	4	198.16	4		4		4	
1/4	2,383.20	1/4	2,017.66	1/4	1,652.12	1/4	1,286.58	1/4	921.46	1/4	556.07	1/4	190.54	1/4		1/4		1/4	
1/2	2,375.59	1/2	2,010.05	1/2	1,644.51	1/2	1,278.97	1/2	913.86	1/2	548.45	1/2	182.93	1/2		1/2		1/2	
3/4	2,367.97	3/4	2,002.43	3/4	1,636.89	3/4	1,271.35	3/4	906.26	3/4	540.84	3/4	175.31	3/4		3/4		3/4	
5	2,360.36	5	1,994.82	5	1,629.28	5	1,263.74	5	898.66	5	533.22	5	167.70	5		5		5	
1/4	2,352.74	1/4	1,987.20	1/4	1,621.66	1/4	1,256.12	1/4	891.06	1/4	525.61	1/4	160.08	1/4		1/4		1/4	
1/2	2,345.12	1/2	1,979.59	1/2	1,614.05	1/2	1,248.51	1/2	883.46	1/2	517.99	1/2	152.47	1/2		1/2		1/2	
3/4	2,337.51	3/4	1,971.97	3/4	1,606.43	3/4	1,240.89	3/4	875.86	3/4	510.38	3/4	144.85	3/4		3/4		3/4	
6	2,329.89	6	1,964.35	6	1,598.82	6	1,233.28	6	868.26	6	502.76	6	137.24	6		6		6	
1/4	2,322.28	1/4	1,956.74	1/4	1,591.20	1/4	1,225.66	1/4	860.65	1/4	495.15	1/4	129.63	1/4		1/4		1/4	
1/2	2,314.66	1/2	1,949.12	1/2	1,583.58	1/2	1,218.05	1/2	853.04	1/2	487.53	1/2	122.02	1/2		1/2		1/2	
3/4	2,307.05	3/4	1,941.51	3/4	1,575.97	3/4	1,210.43	3/4	845.43	3/4	479.92	3/4	114.41	3/4		3/4		3/4	
7	2,299.43	7	1,933.89	7	1,568.35	7	1,202.81	7	837.83	7	472.30	7	106.80	7		7		7	
1/4	2,291.82	1/4	1,926.28	1/4	1,560.74	1/4	1,195.20	1/4	830.21	1/4	464.69	1/4	99.21	1/4		1/4		1/4	
1/2	2,284.20	1/2	1,918.66	1/2	1,553.12	1/2	1,187.58	1/2	822.60	1/2	457.07	1/2	91.62	1/2		1/2		1/2	
3/4	2,276.59	3/4	1,911.05	3/4	1,545.51	3/4	1,179.97	3/4	814.98	3/4	449.46	3/4	84.03	3/4		3/4		3/4	
8	2,268.97	8	1,903.43	8	1,537.89	8	1,172.35	8	807.37	8	441.84	8	76.44	8		8		8	
1/4	2,261.36	1/4	1,895.82	1/4	1,530.28	1/4	1,164.74	1/4	799.75	1/4	434.23	1/4	69.32	1/4		1/4		1/4	
1/2	2,253.74	1/2	1,888.20	1/2	1,522.66	1/2	1,157.13	1/2	792.14	1/2	426.61	1/2	62.20	1/2		1/2		1/2	
3/4	2,246.12	3/4	1,880.59	3/4	1,515.05	3/4	1,149.52	3/4	784.52	3/4	419.00	3/4	55.08	3/4		3/4		3/4	
9	2,238.51	9	1,872.97	9	1,507.43	9	1,141.91	9	776.91	9	411.38	9	47.96	9		9		9	
1/4	2,230.89	1/4	1,865.35	1/4	1,499.82	1/4	1,134.30	1/4	769.29	1/4	403.77	1/4	42.25	1/4		1/4		1/4	
1/2	2,223.28	1/2	1,857.74	1/2	1,492.20	1/2	1,126.69	1/2	761.68	1/2	396.15	1/2	36.54	1/2		1/2		1/2	
3/4	2,215.66	3/4	1,850.12	3/4	1,484.58	3/4	1,119.09	3/4	754.06	3/4	388.54	3/4	30.83	3/4		3/4		3/4	
10	2,208.05	10	1,842.51	10	1,476.97	10	1,111.48	10	746.44	10	380.92	10	25.12	10		10		10	
1/4	2,200.43	1/4	1,834.89	1/4	1,469.35	1/4	1,103.87	1/4	738.83	1/4	373.30	1/4		1/4		1/4		1/4	
1/2	2,192.82	1/2	1,827.28	1/2	1,461.74	1/2	1,096.27	1/2	731.21	1/2	365.69	1/2		1/2		1/2		1/2	
3/4	2,185.20	3/4	1,819.66	3/4	1,454.12	3/4	1,088.67	3/4	723.60	3/4	358.07	3/4		3/4		3/4		3/4	
11	2,177.59	11	1,812.05	11	1,446.51	11	1,081.06	11	715.98	11	350.46	11		11		11		11	
1/4	2,169.97	1/4	1,804.43	1/4	1,438.89	1/4	1,073.46	1/4	708.37	1/4	342.84	1/4		1/4		1/4		1/4	
1/2	2,162.36	1/2	1,796.82	1/2	1,431.28	1/2	1,065.86	1/2	700.75	1/2	335.23	1/2		1/2		1/2		1/2	
3/4	2,154.74	3/4	1,789.20	3/4	1,423.66	3/4	1,058.26	3/4	693.14	3/4	327.61	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2014 CL
CALCULATED: 05/20/2014 CL
PRINTED: 05/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

PRECISION MEASUREMENT
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