



BARGE "KIRBY 29133"

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	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	01-7/8	- 01-7/8
1 STBD	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 261'-00"

December 2, 2019

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



BARGE "KIRBY 29133"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

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	4,948.28	0	4,614.54	0	4,275.34	0	3,919.66	0	3,548.12	0	3,171.98	0	2,794.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,942.91	1/4	4,607.65	1/4	4,268.10	1/4	3,912.08	1/4	3,540.29	1/4	3,164.11	1/4	2,786.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,936.24	1/2	4,600.74	1/2	4,260.85	1/2	3,904.48	1/2	3,532.46	1/2	3,156.24	1/2	2,778.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,929.57	3/4	4,593.82	3/4	4,253.59	3/4	3,896.87	3/4	3,524.62	3/4	3,148.37	3/4	2,770.72
1	1	1	1	1	1	1	4,922.89	1	4,586.91	1	4,246.33	1	3,889.26	1	3,516.79	1	3,140.51	1	2,762.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,916.22	1/4	4,580.00	1/4	4,239.07	1/4	3,881.66	1/4	3,508.96	1/4	3,132.64	1/4	2,754.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,908.62	1/2	4,573.05	1/2	4,231.78	1/2	3,874.03	1/2	3,501.12	1/2	3,124.77	1/2	2,747.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,901.02	3/4	4,566.11	3/4	4,224.50	3/4	3,866.40	3/4	3,493.29	3/4	3,116.90	3/4	2,739.25
2	2	2	2	2	2	2	4,893.41	2	4,559.16	2	4,217.21	2	3,858.77	2	3,485.46	2	3,109.03	2	2,731.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,885.81	1/4	4,552.22	1/4	4,209.93	1/4	3,851.14	1/4	3,477.63	1/4	3,101.17	1/4	2,723.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,877.98	1/2	4,545.25	1/2	4,202.61	1/2	3,843.48	1/2	3,469.79	1/2	3,093.30	1/2	2,715.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,870.14	3/4	4,538.28	3/4	4,195.29	3/4	3,835.82	3/4	3,461.96	3/4	3,085.43	3/4	2,707.78
3	3	3	3	3	3	3	4,862.31	3	4,531.30	3	4,187.98	3	3,828.16	3	3,454.13	3	3,077.56	3	2,699.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,854.48	1/4	4,524.33	1/4	4,180.66	1/4	3,820.50	1/4	3,446.29	1/4	3,069.70	1/4	2,692.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,847.08	1/2	4,517.33	1/2	4,173.32	1/2	3,812.81	1/2	3,438.46	1/2	3,061.83	1/2	2,684.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,839.68	3/4	4,510.33	3/4	4,165.97	3/4	3,805.12	3/4	3,430.63	3/4	3,053.96	3/4	2,676.31
4	4	4	4	4	4	4	4,832.28	4	4,503.33	4	4,158.63	4	3,797.44	4	3,422.80	4	3,046.09	4	2,668.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,824.88	1/4	4,496.33	1/4	4,151.28	1/4	3,789.75	1/4	3,414.96	1/4	3,038.23	1/4	2,660.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,818.19	1/2	4,489.30	1/2	4,143.91	1/2	3,782.03	1/2	3,407.13	1/2	3,030.36	1/2	2,652.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,811.50	3/4	4,482.27	3/4	4,136.54	3/4	3,774.31	3/4	3,399.30	3/4	3,022.49	3/4	2,644.84
5	5	5	5	5	5	5	4,804.82	5	4,475.24	5	4,129.16	5	3,766.60	5	3,391.46	5	3,014.62	5	2,636.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,798.13	1/4	4,468.21	1/4	4,121.79	1/4	3,758.88	1/4	3,383.63	1/4	3,006.75	1/4	2,629.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,791.41	1/2	4,461.15	1/2	4,114.39	1/2	3,751.13	1/2	3,375.80	1/2	2,998.89	1/2	2,621.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,784.70	3/4	4,454.09	3/4	4,106.98	3/4	3,743.39	3/4	3,367.97	3/4	2,991.02	3/4	2,613.37
6	6	6	6	6	6	6	4,777.98	6	4,447.03	6	4,099.58	6	3,735.64	6	3,360.13	6	2,983.15	6	2,605.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,771.27	1/4	4,439.97	1/4	4,092.18	1/4	3,727.90	1/4	3,352.30	1/4	2,975.28	1/4	2,597.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,764.52	1/2	4,432.88	1/2	4,084.75	1/2	3,720.12	1/2	3,344.47	1/2	2,967.42	1/2	2,589.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,757.78	3/4	4,425.79	3/4	4,077.32	3/4	3,712.35	3/4	3,336.63	3/4	2,959.55	3/4	2,581.90
7	7	7	7	7	7	7	4,751.03	7	4,418.71	7	4,069.89	7	3,704.57	7	3,328.80	7	2,951.68	7	2,574.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,744.28	1/4	4,411.62	1/4	4,062.45	1/4	3,696.80	1/4	3,320.97	1/4	2,943.81	1/4	2,566.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,737.51	1/2	4,404.50	1/2	4,054.99	1/2	3,689.00	1/2	3,313.14	1/2	2,935.95	1/2	2,558.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,730.74	3/4	4,397.38	3/4	4,047.53	3/4	3,681.19	3/4	3,305.30	3/4	2,928.08	3/4	2,550.43
8	8	8	8	8	8	8	4,723.96	8	4,390.27	8	4,040.07	8	3,673.39	8	3,297.47	8	2,920.21	8	2,542.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.19	1/4	4,383.15	1/4	4,032.61	1/4	3,665.58	1/4	3,289.64	1/4	2,912.34	1/4	2,534.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,710.39	1/2	4,376.00	1/2	4,025.12	1/2	3,657.76	1/2	3,281.80	1/2	2,904.47	1/2	2,526.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,703.58	3/4	4,368.86	3/4	4,017.63	3/4	3,649.93	3/4	3,273.97	3/4	2,896.61	3/4	2,518.96
9	9	9	9	9	9	9	4,696.78	9	4,361.71	9	4,010.14	9	3,642.11	9	3,266.14	9	2,888.74	9	2,511.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,689.97	1/4	4,354.56	1/4	4,002.66	1/4	3,634.28	1/4	3,258.31	1/4	2,880.87	1/4	2,503.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,683.14	1/2	4,347.39	1/2	3,995.14	1/2	3,626.45	1/2	3,250.47	1/2	2,873.00	1/2	2,495.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,676.31	3/4	4,340.21	3/4	3,987.62	3/4	3,618.62	3/4	3,242.64	3/4	2,865.14	3/4	2,487.49
10	10	10	10	10	10	10	4,669.48	10	4,333.04	10	3,980.10	10	3,610.79	10	3,234.81	10	2,857.27	10	2,479.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,662.65	1/4	4,325.86	1/4	3,972.58	1/4	3,602.95	1/4	3,226.97	1/4	2,849.40	1/4	2,471.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,655.78	1/2	4,318.65	1/2	3,965.03	1/2	3,595.12	1/2	3,219.12	1/2	2,841.53	1/2	2,463.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,648.92	3/4	4,311.45	3/4	3,957.49	3/4	3,587.29	3/4	3,211.28	3/4	2,833.67	3/4	2,456.02
11	11	11	11	11	11	11	4,642.06	11	4,304.25	11	3,949.94	11	3,579.45	11	3,203.43	11	2,825.80	11	2,448.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,635.20	1/4	4,297.04	1/4	3,942.39	1/4	3,571.62	1/4	3,195.58	1/4	2,817.93	1/4	2,440.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,628.31	1/2	4,289.81	1/2	3,934.81	1/2	3,563.79	1/2	3,187.71	1/2	2,810.06	1/2	2,432.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.66	3/4	4,621.42	3/4	4,282.57	3/4	3,927.24	3/4	3,555.96	3/4	3,179.84	3/4	2,424.54

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 52'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 29133"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

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	2,416.68	0	2,039.03	0	1,661.38	0	1,285.12	0	908.24	0	530.63	0	182.65	0		0			
1/4	2,408.81	1/4	2,031.16	1/4	1,653.51	1/4	1,277.30	1/4	900.37	1/4	522.77	1/4	176.02	1/4		1/4			
1/2	2,400.94	1/2	2,023.29	1/2	1,645.64	1/2	1,269.48	1/2	892.50	1/2	514.96	1/2	169.51	1/2		1/2			
3/4	2,393.07	3/4	2,015.42	3/4	1,637.77	3/4	1,261.66	3/4	884.63	3/4	507.15	3/4	163.00	3/4		3/4			
1	2,385.21	1	2,007.56	1	1,629.91	1	1,253.84	1	876.77	1	499.34	1	156.48	1		1			
1/4	2,377.34	1/4	1,999.69	1/4	1,622.04	1/4	1,246.02	1/4	868.90	1/4	491.53	1/4	149.97	1/4		1/4			
1/2	2,369.47	1/2	1,991.82	1/2	1,614.17	1/2	1,238.21	1/2	861.03	1/2	483.81	1/2	143.57	1/2		1/2			
3/4	2,361.60	3/4	1,983.95	3/4	1,606.30	3/4	1,230.39	3/4	853.16	3/4	476.10	3/4	137.18	3/4		3/4			
2	2,353.74	2	1,976.09	2	1,598.44	2	1,222.57	2	845.30	2	468.38	2	130.78	2		2			
1/4	2,345.87	1/4	1,968.22	1/4	1,590.57	1/4	1,214.75	1/4	837.43	1/4	460.66	1/4	124.38	1/4		1/4			
1/2	2,338.00	1/2	1,960.35	1/2	1,582.70	1/2	1,206.93	1/2	829.56	1/2	453.05	1/2	118.11	1/2		1/2			
3/4	2,330.13	3/4	1,952.48	3/4	1,574.83	3/4	1,199.11	3/4	821.69	3/4	445.45	3/4	111.83	3/4		3/4			
3	2,322.26	3	1,944.62	3	1,566.97	3	1,191.30	3	813.83	3	437.84	3	105.56	3		3			
1/4	2,314.40	1/4	1,936.75	1/4	1,559.10	1/4	1,183.48	1/4	805.96	1/4	430.23	1/4	99.28	1/4		1/4			
1/2	2,306.53	1/2	1,928.88	1/2	1,551.24	1/2	1,175.64	1/2	798.09	1/2	422.73	1/2	93.13	1/2		1/2			
3/4	2,298.66	3/4	1,921.01	3/4	1,543.38	3/4	1,167.80	3/4	790.22	3/4	415.23	3/4	86.99	3/4		3/4			
4	2,290.79	4	1,913.14	4	1,535.53	4	1,159.97	4	782.36	4	407.73	4	80.84	4		4			
1/4	2,282.93	1/4	1,905.28	1/4	1,527.67	1/4	1,152.13	1/4	774.49	1/4	400.24	1/4	74.69	1/4		1/4			
1/2	2,275.06	1/2	1,897.41	1/2	1,519.83	1/2	1,144.26	1/2	766.62	1/2	392.85	1/2	68.69	1/2		1/2			
3/4	2,267.19	3/4	1,889.54	3/4	1,511.99	3/4	1,136.39	3/4	758.75	3/4	385.46	3/4	62.68	3/4		3/4			
5	2,259.32	5	1,881.67	5	1,504.16	5	1,128.53	5	750.89	5	378.07	5	56.68	5		5			
1/4	2,251.46	1/4	1,873.81	1/4	1,496.32	1/4	1,120.66	1/4	743.02	1/4	370.68	1/4	50.67	1/4		1/4			
1/2	2,243.59	1/2	1,865.94	1/2	1,488.48	1/2	1,112.79	1/2	735.15	1/2	363.40	1/2	45.26	1/2		1/2			
3/4	2,235.72	3/4	1,858.07	3/4	1,480.65	3/4	1,104.92	3/4	727.28	3/4	356.12	3/4	39.85	3/4		3/4			
6	2,227.85	6	1,850.20	6	1,472.82	6	1,097.06	6	719.42	6	348.84	6	34.43	6		6			
1/4	2,219.98	1/4	1,842.34	1/4	1,464.98	1/4	1,089.19	1/4	711.55	1/4	341.56	1/4	29.02	1/4		1/4			
1/2	2,212.12	1/2	1,834.47	1/2	1,457.16	1/2	1,081.32	1/2	703.68	1/2	334.39	1/2	25.06	1/2		1/2			
3/4	2,204.25	3/4	1,826.60	3/4	1,449.33	3/4	1,073.45	3/4	695.81	3/4	327.22	3/4	21.10	3/4		3/4			
7	2,196.38	7	1,818.73	7	1,441.51	7	1,065.59	7	687.95	7	320.05	7	17.14	7		7			
1/4	2,188.51	1/4	1,810.86	1/4	1,433.68	1/4	1,057.72	1/4	680.08	1/4	312.88	1/4	13.18	1/4		1/4			
1/2	2,180.65	1/2	1,803.00	1/2	1,425.86	1/2	1,049.85	1/2	672.21	1/2	305.81	1/2		1/2		1/2			
3/4	2,172.78	3/4	1,795.13	3/4	1,418.04	3/4	1,041.98	3/4	664.34	3/4	298.75	3/4		3/4		3/4			
8	2,164.91	8	1,787.26	8	1,410.21	8	1,034.12	8	656.48	8	291.69	8		8		8			
1/4	2,157.04	1/4	1,779.39	1/4	1,402.39	1/4	1,026.25	1/4	648.61	1/4	284.63	1/4		1/4		1/4			
1/2	2,149.18	1/2	1,771.53	1/2	1,394.57	1/2	1,018.38	1/2	640.74	1/2	277.68	1/2		1/2		1/2			
3/4	2,141.31	3/4	1,763.66	3/4	1,386.76	3/4	1,010.51	3/4	632.87	3/4	270.73	3/4		3/4		3/4			
9	2,133.44	9	1,755.79	9	1,378.94	9	1,002.65	9	625.01	9	263.77	9		9		9			
1/4	2,125.57	1/4	1,747.92	1/4	1,371.12	1/4	994.78	1/4	617.14	1/4	256.82	1/4		1/4		1/4			
1/2	2,117.70	1/2	1,740.05	1/2	1,363.30	1/2	986.91	1/2	609.27	1/2	249.98	1/2		1/2		1/2			
3/4	2,109.84	3/4	1,732.19	3/4	1,355.48	3/4	979.04	3/4	601.40	3/4	243.14	3/4		3/4		3/4			
10	2,101.97	10	1,724.32	10	1,347.66	10	971.18	10	593.54	10	236.29	10		10		10			
1/4	2,094.10	1/4	1,716.45	1/4	1,339.84	1/4	963.31	1/4	585.67	1/4	229.45	1/4		1/4		1/4			
1/2	2,086.23	1/2	1,708.58	1/2	1,332.03	1/2	955.44	1/2	577.80	1/2	222.72	1/2		1/2		1/2			
3/4	2,078.37	3/4	1,700.72	3/4	1,324.21	3/4	947.57	3/4	569.93	3/4	215.98	3/4		3/4		3/4			
11	2,070.50	11	1,692.85	11	1,316.39	11	939.71	11	562.07	11	209.25	11		11		11			
1/4	2,062.63	1/4	1,684.98	1/4	1,308.57	1/4	931.84	1/4	554.20	1/4	202.52	1/4		1/4		1/4			
1/2	2,054.76	1/2	1,677.11	1/2	1,300.75	1/2	923.97	1/2	546.34	1/2	195.89	1/2		1/2		1/2			
3/4	2,046.90	3/4	1,669.25	3/4	1,292.93	3/4	916.10	3/4	538.48	3/4	189.27	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2014 CL
CALCULATED: 11/20/2014 CL
PRINTED: 11/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2014

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



BARGE "KIRBY 29133"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

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	4,948.92	0	4,615.26	0	4,276.14	0	3,920.54	0	3,549.09	0	3,173.02	0	2,795.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,943.55	1/4	4,608.37	1/4	4,268.90	1/4	3,912.96	1/4	3,541.25	1/4	3,165.16	1/4	2,787.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,936.88	1/2	4,601.46	1/2	4,261.65	1/2	3,905.36	1/2	3,533.42	1/2	3,157.29	1/2	2,779.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,930.21	3/4	4,594.55	3/4	4,254.39	3/4	3,897.75	3/4	3,525.59	3/4	3,149.42	3/4	2,771.86
1	1	1	1	1	1	1	4,923.54	1	4,587.63	1	4,247.13	1	3,890.15	1	3,517.76	1	3,141.56	1	2,764.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,916.87	1/4	4,580.72	1/4	4,239.88	1/4	3,882.54	1/4	3,509.93	1/4	3,133.69	1/4	2,756.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,909.27	1/2	4,573.78	1/2	4,232.59	1/2	3,874.92	1/2	3,502.10	1/2	3,125.83	1/2	2,748.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,901.67	3/4	4,566.84	3/4	4,225.31	3/4	3,867.29	3/4	3,494.27	3/4	3,117.96	3/4	2,740.40
2	2	2	2	2	2	2	4,894.07	2	4,559.90	2	4,218.02	2	3,859.66	2	3,486.44	2	3,110.10	2	2,732.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,886.47	1/4	4,552.95	1/4	4,210.74	1/4	3,852.03	1/4	3,478.61	1/4	3,102.23	1/4	2,724.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,878.64	1/2	4,545.98	1/2	4,203.42	1/2	3,844.37	1/2	3,470.77	1/2	3,094.36	1/2	2,716.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,870.80	3/4	4,539.01	3/4	4,196.11	3/4	3,836.72	3/4	3,462.94	3/4	3,086.50	3/4	2,708.93
3	3	3	3	3	3	3	4,862.97	3	4,532.04	3	4,188.79	3	3,829.06	3	3,455.11	3	3,078.63	3	2,701.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,855.14	1/4	4,525.07	1/4	4,181.48	1/4	3,821.40	1/4	3,447.28	1/4	3,070.77	1/4	2,693.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,847.74	1/2	4,518.07	1/2	4,174.14	1/2	3,813.71	1/2	3,439.45	1/2	3,062.90	1/2	2,685.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,840.35	3/4	4,511.07	3/4	4,166.79	3/4	3,806.03	3/4	3,431.62	3/4	3,055.03	3/4	2,677.47
4	4	4	4	4	4	4	4,832.95	4	4,504.07	4	4,159.45	4	3,798.34	4	3,423.79	4	3,047.17	4	2,669.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,825.55	1/4	4,497.07	1/4	4,152.11	1/4	3,790.65	1/4	3,415.96	1/4	3,039.30	1/4	2,661.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,818.86	1/2	4,490.04	1/2	4,144.74	1/2	3,782.94	1/2	3,408.13	1/2	3,031.44	1/2	2,653.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,812.18	3/4	4,483.02	3/4	4,137.36	3/4	3,775.23	3/4	3,400.29	3/4	3,023.57	3/4	2,646.01
5	5	5	5	5	5	5	4,805.49	5	4,475.99	5	4,129.99	5	3,767.51	5	3,392.46	5	3,015.70	5	2,638.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,798.81	1/4	4,468.96	1/4	4,122.62	1/4	3,759.80	1/4	3,384.63	1/4	3,007.84	1/4	2,630.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,792.09	1/2	4,461.90	1/2	4,115.22	1/2	3,752.05	1/2	3,376.80	1/2	2,999.97	1/2	2,622.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,785.38	3/4	4,454.84	3/4	4,107.82	3/4	3,744.31	3/4	3,368.97	3/4	2,992.11	3/4	2,614.54
6	6	6	6	6	6	6	4,778.66	6	4,447.79	6	4,100.42	6	3,736.56	6	3,361.14	6	2,984.24	6	2,606.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,771.95	1/4	4,440.73	1/4	4,093.02	1/4	3,728.82	1/4	3,353.31	1/4	2,976.37	1/4	2,598.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,765.21	1/2	4,433.64	1/2	4,085.59	1/2	3,721.05	1/2	3,345.48	1/2	2,968.51	1/2	2,590.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,758.46	3/4	4,426.56	3/4	4,078.16	3/4	3,713.27	3/4	3,337.65	3/4	2,960.64	3/4	2,583.08
7	7	7	7	7	7	7	4,751.72	7	4,419.47	7	4,070.73	7	3,705.50	7	3,329.81	7	2,952.78	7	2,575.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,744.97	1/4	4,412.38	1/4	4,063.30	1/4	3,697.73	1/4	3,321.98	1/4	2,944.91	1/4	2,567.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,738.20	1/2	4,405.27	1/2	4,055.84	1/2	3,689.93	1/2	3,314.15	1/2	2,937.05	1/2	2,559.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,731.43	3/4	4,398.15	3/4	4,048.38	3/4	3,682.12	3/4	3,306.32	3/4	2,929.18	3/4	2,551.62
8	8	8	8	8	8	8	4,724.66	8	4,391.04	8	4,040.93	8	3,674.32	8	3,298.49	8	2,921.31	8	2,543.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.88	1/4	4,383.92	1/4	4,033.47	1/4	3,666.52	1/4	3,290.66	1/4	2,913.45	1/4	2,535.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,711.08	1/2	4,376.77	1/2	4,025.98	1/2	3,658.70	1/2	3,282.83	1/2	2,905.58	1/2	2,528.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,704.28	3/4	4,369.63	3/4	4,018.49	3/4	3,650.87	3/4	3,275.00	3/4	2,897.72	3/4	2,520.15
9	9	9	9	9	9	9	4,697.48	9	4,362.49	9	4,011.00	9	3,643.05	9	3,267.17	9	2,889.85	9	2,512.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,690.67	1/4	4,355.34	1/4	4,003.51	1/4	3,635.23	1/4	3,259.33	1/4	2,881.98	1/4	2,504.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,683.84	1/2	4,348.17	1/2	3,996.00	1/2	3,627.40	1/2	3,251.50	1/2	2,874.12	1/2	2,496.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,677.01	3/4	4,340.99	3/4	3,988.48	3/4	3,619.57	3/4	3,243.67	3/4	2,866.25	3/4	2,488.69
10	10	10	10	10	10	10	4,670.18	10	4,333.82	10	3,980.96	10	3,611.73	10	3,235.84	10	2,858.39	10	2,480.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,663.35	1/4	4,326.64	1/4	3,973.45	1/4	3,603.90	1/4	3,228.01	1/4	2,850.52	1/4	2,472.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,656.49	1/2	4,319.44	1/2	3,965.90	1/2	3,596.07	1/2	3,220.16	1/2	2,842.65	1/2	2,465.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,649.63	3/4	4,312.24	3/4	3,958.36	3/4	3,588.24	3/4	3,212.32	3/4	2,834.79	3/4	2,457.23
11	11	11	11	11	11	11	4,642.77	11	4,305.04	11	3,950.81	11	3,580.41	11	3,204.47	11	2,826.92	11	2,449.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,635.91	1/4	4,297.83	1/4	3,943.26	1/4	3,572.58	1/4	3,196.62	1/4	2,819.06	1/4	2,441.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,629.03	1/2	4,290.60	1/2	3,935.69	1/2	3,564.75	1/2	3,188.75	1/2	2,811.19	1/2	2,433.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,954.30	3/4	4,622.14	3/4	4,283.37	3/4	3,928.11	3/4	3,556.92	3/4	3,180.89	3/4	2,425.76

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 52'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29133"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

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	2,417.90	0	2,040.33	0	1,662.77	0	1,285.21	0	907.94	0	530.50	0	182.60	0		0			
1/4	2,410.03	1/4	2,032.47	1/4	1,654.90	1/4	1,277.34	1/4	900.09	1/4	522.65	1/4	175.98	1/4		1/4			
1/2	2,402.16	1/2	2,024.60	1/2	1,647.04	1/2	1,269.47	1/2	892.23	1/2	514.84	1/2	169.47	1/2		1/2			
3/4	2,394.30	3/4	2,016.74	3/4	1,639.17	3/4	1,261.61	3/4	884.38	3/4	507.03	3/4	162.96	3/4		3/4			
1	2,386.43	1	2,008.87	1	1,631.31	1	1,253.74	1	876.52	1	499.23	1	156.45	1		1			
1/4	2,378.57	1/4	2,001.00	1/4	1,623.44	1/4	1,245.88	1/4	868.67	1/4	491.42	1/4	149.94	1/4		1/4			
1/2	2,370.70	1/2	1,993.14	1/2	1,615.57	1/2	1,238.01	1/2	860.81	1/2	483.70	1/2	143.54	1/2		1/2			
3/4	2,362.83	3/4	1,985.27	3/4	1,607.71	3/4	1,230.15	3/4	852.95	3/4	475.99	3/4	137.15	3/4		3/4			
2	2,354.97	2	1,977.41	2	1,599.84	2	1,222.28	2	845.09	2	468.27	2	130.75	2		2			
1/4	2,347.10	1/4	1,969.54	1/4	1,591.98	1/4	1,214.41	1/4	837.24	1/4	460.56	1/4	124.36	1/4		1/4			
1/2	2,339.24	1/2	1,961.67	1/2	1,584.11	1/2	1,206.55	1/2	829.37	1/2	452.95	1/2	118.08	1/2		1/2			
3/4	2,331.37	3/4	1,953.81	3/4	1,576.24	3/4	1,198.68	3/4	821.50	3/4	445.34	3/4	111.81	3/4		3/4			
3	2,323.51	3	1,945.94	3	1,568.38	3	1,190.82	3	813.64	3	437.74	3	105.53	3		3			
1/4	2,315.64	1/4	1,938.08	1/4	1,560.51	1/4	1,182.95	1/4	805.77	1/4	430.13	1/4	99.26	1/4		1/4			
1/2	2,307.77	1/2	1,930.21	1/2	1,552.65	1/2	1,175.08	1/2	797.91	1/2	422.63	1/2	93.11	1/2		1/2			
3/4	2,299.91	3/4	1,922.34	3/4	1,544.78	3/4	1,167.22	3/4	790.04	3/4	415.14	3/4	86.97	3/4		3/4			
4	2,292.04	4	1,914.48	4	1,536.92	4	1,159.35	4	782.18	4	407.64	4	80.82	4		4			
1/4	2,284.18	1/4	1,906.61	1/4	1,529.05	1/4	1,151.49	1/4	774.31	1/4	400.14	1/4	74.68	1/4		1/4			
1/2	2,276.31	1/2	1,898.75	1/2	1,521.18	1/2	1,143.62	1/2	766.44	1/2	392.76	1/2	68.67	1/2		1/2			
3/4	2,268.44	3/4	1,890.88	3/4	1,513.32	3/4	1,135.75	3/4	758.58	3/4	385.37	3/4	62.67	3/4		3/4			
5	2,260.58	5	1,883.01	5	1,505.45	5	1,127.89	5	750.71	5	377.98	5	56.66	5		5			
1/4	2,252.71	1/4	1,875.15	1/4	1,497.59	1/4	1,120.02	1/4	742.85	1/4	370.59	1/4	50.66	1/4		1/4			
1/2	2,244.85	1/2	1,867.28	1/2	1,489.72	1/2	1,112.16	1/2	734.98	1/2	363.32	1/2	45.25	1/2		1/2			
3/4	2,236.98	3/4	1,859.42	3/4	1,481.85	3/4	1,104.30	3/4	727.12	3/4	356.04	3/4	39.84	3/4		3/4			
6	2,229.11	6	1,851.55	6	1,473.99	6	1,096.44	6	719.25	6	348.76	6	34.43	6		6			
1/4	2,221.25	1/4	1,843.69	1/4	1,466.12	1/4	1,088.58	1/4	711.38	1/4	341.48	1/4	29.01	1/4		1/4			
1/2	2,213.38	1/2	1,835.82	1/2	1,458.26	1/2	1,080.72	1/2	703.52	1/2	334.31	1/2	25.05	1/2		1/2			
3/4	2,205.52	3/4	1,827.95	3/4	1,450.39	3/4	1,072.87	3/4	695.65	3/4	327.14	3/4	21.09	3/4		3/4			
7	2,197.65	7	1,820.09	7	1,442.52	7	1,065.02	7	687.79	7	319.97	7	17.13	7		7			
1/4	2,189.78	1/4	1,812.22	1/4	1,434.66	1/4	1,057.16	1/4	679.92	1/4	312.80	1/4	13.17	1/4		1/4			
1/2	2,181.92	1/2	1,804.36	1/2	1,426.79	1/2	1,049.31	1/2	672.06	1/2	305.74	1/2		1/2		1/2			
3/4	2,174.05	3/4	1,796.49	3/4	1,418.93	3/4	1,041.45	3/4	664.19	3/4	298.68	3/4		3/4		3/4			
8	2,166.19	8	1,788.62	8	1,411.06	8	1,033.60	8	656.32	8	291.62	8		8		8			
1/4	2,158.32	1/4	1,780.76	1/4	1,403.19	1/4	1,025.75	1/4	648.46	1/4	284.57	1/4		1/4		1/4			
1/2	2,150.46	1/2	1,772.89	1/2	1,395.33	1/2	1,017.89	1/2	640.59	1/2	277.61	1/2		1/2		1/2			
3/4	2,142.59	3/4	1,765.03	3/4	1,387.46	3/4	1,010.04	3/4	632.73	3/4	270.66	3/4		3/4		3/4			
9	2,134.72	9	1,757.16	9	1,379.60	9	1,002.18	9	624.86	9	263.71	9		9		9			
1/4	2,126.86	1/4	1,749.29	1/4	1,371.73	1/4	994.33	1/4	617.00	1/4	256.76	1/4		1/4		1/4			
1/2	2,118.99	1/2	1,741.43	1/2	1,363.87	1/2	986.48	1/2	609.13	1/2	249.92	1/2		1/2		1/2			
3/4	2,111.13	3/4	1,733.56	3/4	1,356.00	3/4	978.62	3/4	601.27	3/4	243.08	3/4		3/4		3/4			
10	2,103.26	10	1,725.70	10	1,348.13	10	970.77	10	593.40	10	236.24	10		10		10			
1/4	2,095.39	1/4	1,717.83	1/4	1,340.27	1/4	962.92	1/4	585.53	1/4	229.40	1/4		1/4		1/4			
1/2	2,087.53	1/2	1,709.96	1/2	1,332.40	1/2	955.06	1/2	577.67	1/2	222.67	1/2		1/2		1/2			
3/4	2,079.66	3/4	1,702.10	3/4	1,324.54	3/4	947.21	3/4	569.80	3/4	215.93	3/4		3/4		3/4			
11	2,071.80	11	1,694.23	11	1,316.67	11	939.35	11	561.94	11	209.20	11		11		11			
1/4	2,063.93	1/4	1,686.37	1/4	1,308.80	1/4	931.50	1/4	554.07	1/4	202.47	1/4		1/4		1/4			
1/2	2,056.06	1/2	1,678.50	1/2	1,300.94	1/2	923.65	1/2	546.22	1/2	195.85	1/2		1/2		1/2			
3/4	2,048.20	3/4	1,670.64	3/4	1,293.07	3/4	915.79	3/4	538.36	3/4	189.23	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2014 CL
CALCULATED: 11/20/2014 CL
PRINTED: 11/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2014

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



BARGE "KIRBY 29133"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,767.27	0	4,450.16	0	4,126.62	0	3,787.94	0	3,434.63	0	3,076.88	0	2,717.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,762.16	1/4	4,443.58	1/4	4,119.72	1/4	3,780.72	1/4	3,427.18	1/4	3,069.39	1/4	2,710.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,757.05	1/2	4,437.00	1/2	4,112.81	1/2	3,773.51	1/2	3,419.73	1/2	3,061.91	1/2	2,702.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,750.70	3/4	4,430.39	3/4	4,105.89	3/4	3,766.27	3/4	3,412.27	3/4	3,054.43	3/4	2,695.26
1		1		1		1	4,744.36	1	4,423.79	1	4,098.97	1	3,759.02	1	3,404.82	1	3,046.94	1	2,687.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,738.02	1/4	4,417.18	1/4	4,092.04	1/4	3,751.78	1/4	3,397.37	1/4	3,039.36	1/4	2,680.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,731.67	1/2	4,410.57	1/2	4,085.12	1/2	3,744.54	1/2	3,389.92	1/2	3,031.98	1/2	2,672.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,724.44	3/4	4,403.94	3/4	4,078.17	3/4	3,737.27	3/4	3,382.47	3/4	3,024.50	3/4	2,665.33
2		2		2		2	4,717.21	2	4,397.30	2	4,071.22	2	3,730.01	2	3,375.02	2	3,017.01	2	2,657.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,709.98	1/4	4,390.67	1/4	4,064.27	1/4	3,722.74	1/4	3,367.57	1/4	3,009.53	1/4	2,650.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,702.75	1/2	4,384.03	1/2	4,057.33	1/2	3,715.48	1/2	3,360.12	1/2	3,002.05	1/2	2,642.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,695.30	3/4	4,377.37	3/4	4,050.35	3/4	3,708.19	3/4	3,352.67	3/4	2,994.57	3/4	2,635.40
3		3		3		3	4,687.85	3	4,370.71	3	4,043.37	3	3,700.90	3	3,345.22	3	2,987.08	3	2,627.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,680.40	1/4	4,364.05	1/4	4,036.40	1/4	3,693.61	1/4	3,337.77	1/4	2,979.60	1/4	2,620.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,672.95	1/2	4,357.39	1/2	4,029.42	1/2	3,686.31	1/2	3,330.32	1/2	2,972.12	1/2	2,612.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,665.90	3/4	4,350.71	3/4	4,022.42	3/4	3,679.00	3/4	3,322.87	3/4	2,964.63	3/4	2,605.47
4		4		4		4	4,658.84	4	4,344.02	4	4,015.42	4	3,671.68	4	3,315.42	4	2,957.15	4	2,597.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,651.79	1/4	4,337.33	1/4	4,008.41	1/4	3,664.36	1/4	3,307.97	1/4	2,949.67	1/4	2,590.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,644.74	1/2	4,330.64	1/2	4,001.41	1/2	3,657.04	1/2	3,300.52	1/2	2,942.19	1/2	2,583.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,638.34	3/4	4,323.93	3/4	3,994.38	3/4	3,649.70	3/4	3,293.07	3/4	2,934.70	3/4	2,575.53
5		5		5		5	4,631.94	5	4,317.22	5	3,987.35	5	3,642.36	5	3,285.61	5	2,927.22	5	2,568.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,625.54	1/4	4,310.50	1/4	3,980.33	1/4	3,635.01	1/4	3,278.16	1/4	2,919.74	1/4	2,560.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,619.14	1/2	4,303.79	1/2	3,973.30	1/2	3,627.67	1/2	3,270.71	1/2	2,912.26	1/2	2,553.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,612.72	3/4	4,297.05	3/4	3,966.24	3/4	3,620.30	3/4	3,263.26	3/4	2,904.77	3/4	2,545.60
6		6		6		6	4,606.29	6	4,290.31	6	3,959.19	6	3,612.93	6	3,255.81	6	2,897.29	6	2,538.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.87	1/4	4,283.57	1/4	3,952.13	1/4	3,605.56	1/4	3,248.36	1/4	2,889.81	1/4	2,530.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,593.44	1/2	4,276.83	1/2	3,945.08	1/2	3,598.18	1/2	3,240.91	1/2	2,882.32	1/2	2,523.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,586.99	3/4	4,270.06	3/4	3,937.99	3/4	3,590.79	3/4	3,233.46	3/4	2,874.84	3/4	2,515.67
7		7		7		7	4,580.54	7	4,263.29	7	3,930.91	7	3,583.39	7	3,226.01	7	2,867.36	7	2,508.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,574.08	1/4	4,256.53	1/4	3,923.83	1/4	3,575.99	1/4	3,218.56	1/4	2,859.88	1/4	2,500.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,567.63	1/2	4,249.76	1/2	3,916.75	1/2	3,568.60	1/2	3,211.11	1/2	2,852.39	1/2	2,493.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,561.15	3/4	4,242.97	3/4	3,909.64	3/4	3,561.17	3/4	3,203.66	3/4	2,844.91	3/4	2,485.74
8		8		8		8	4,554.67	8	4,236.17	8	3,902.53	8	3,553.75	8	3,196.21	8	2,837.43	8	2,478.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,548.20	1/4	4,229.38	1/4	3,895.42	1/4	3,546.33	1/4	3,188.76	1/4	2,829.95	1/4	2,470.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,541.72	1/2	4,222.58	1/2	3,888.31	1/2	3,538.90	1/2	3,181.31	1/2	2,822.46	1/2	2,463.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,535.21	3/4	4,215.76	3/4	3,881.18	3/4	3,531.46	3/4	3,173.86	3/4	2,814.98	3/4	2,455.81
9		9		9		9	4,528.70	9	4,208.94	9	3,874.04	9	3,524.02	9	3,166.40	9	2,807.50	9	2,448.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,522.20	1/4	4,202.12	1/4	3,866.91	1/4	3,516.57	1/4	3,158.95	1/4	2,800.02	1/4	2,440.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,515.69	1/2	4,195.30	1/2	3,859.77	1/2	3,509.13	1/2	3,151.50	1/2	2,792.53	1/2	2,433.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,509.16	3/4	4,188.46	3/4	3,852.61	3/4	3,501.68	3/4	3,144.05	3/4	2,785.05	3/4	2,425.88
10		10		10		10	4,502.63	10	4,181.61	10	3,845.45	10	3,494.23	10	3,136.60	10	2,777.57	10	2,418.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,496.10	1/4	4,174.76	1/4	3,838.29	1/4	3,486.78	1/4	3,129.15	1/4	2,770.08	1/4	2,410.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,489.57	1/2	4,167.91	1/2	3,831.13	1/2	3,479.33	1/2	3,121.70	1/2	2,762.60	1/2	2,403.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,483.01	3/4	4,161.04	3/4	3,823.94	3/4	3,471.88	3/4	3,114.24	3/4	2,755.12	3/4	2,395.95
11		11		11		11	4,476.45	11	4,154.17	11	3,816.75	11	3,464.43	11	3,106.77	11	2,747.64	11	2,388.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,469.89	1/4	4,147.29	1/4	3,809.56	1/4	3,456.98	1/4	3,099.31	1/4	2,740.15	1/4	2,380.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,463.33	1/2	4,140.42	1/2	3,802.37	1/2	3,449.53	1/2	3,091.84	1/2	2,732.67	1/2	2,373.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,456.74	3/4	4,133.52	3/4	3,795.15	3/4	3,442.08	3/4	3,084.36	3/4	2,725.19	3/4	2,366.02

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 51'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29133"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,358.54	0	1,999.37	0	1,640.20	0	1,289.94	0	945.00	0	587.20	0	228.04	0		0			
1/4	2,351.05	1/4	1,991.88	1/4	1,632.71	1/4	1,282.74	1/4	937.82	1/4	579.72	1/4	220.56	1/4		1/4			
1/2	2,343.57	1/2	1,984.40	1/2	1,625.23	1/2	1,275.54	1/2	930.64	1/2	572.24	1/2	213.08	1/2		1/2			
3/4	2,336.09	3/4	1,976.92	3/4	1,617.75	3/4	1,268.34	3/4	923.35	3/4	564.75	3/4	205.60	3/4		3/4			
1	2,328.61	1	1,969.44	1	1,610.27	1	1,261.14	1	916.05	1	557.27	1	198.12	1		1			
1/4	2,321.12	1/4	1,961.95	1/4	1,602.78	1/4	1,253.94	1/4	908.76	1/4	549.79	1/4	190.64	1/4		1/4			
1/2	2,313.64	1/2	1,954.47	1/2	1,595.30	1/2	1,246.74	1/2	901.47	1/2	542.31	1/2	183.15	1/2		1/2			
3/4	2,306.16	3/4	1,946.99	3/4	1,587.82	3/4	1,239.54	3/4	893.98	3/4	534.82	3/4	175.68	3/4		3/4			
2	2,298.67	2	1,939.50	2	1,580.34	2	1,232.34	2	886.50	2	527.34	2	168.21	2		2			
1/4	2,291.19	1/4	1,932.02	1/4	1,572.85	1/4	1,225.14	1/4	879.02	1/4	519.86	1/4	160.73	1/4		1/4			
1/2	2,283.71	1/2	1,924.54	1/2	1,565.37	1/2	1,217.94	1/2	871.54	1/2	512.38	1/2	153.26	1/2		1/2			
3/4	2,276.23	3/4	1,917.06	3/4	1,557.89	3/4	1,210.75	3/4	864.05	3/4	504.89	3/4	145.80	3/4		3/4			
3	2,268.74	3	1,909.57	3	1,550.40	3	1,203.55	3	856.57	3	497.41	3	138.33	3		3			
1/4	2,261.26	1/4	1,902.09	1/4	1,542.92	1/4	1,196.36	1/4	849.09	1/4	489.93	1/4	130.87	1/4		1/4			
1/2	2,253.78	1/2	1,894.61	1/2	1,535.44	1/2	1,189.16	1/2	841.61	1/2	482.45	1/2	123.41	1/2		1/2			
3/4	2,246.30	3/4	1,887.13	3/4	1,528.06	3/4	1,181.98	3/4	834.12	3/4	474.96	3/4	115.96	3/4		3/4			
4	2,238.81	4	1,879.64	4	1,520.68	4	1,174.79	4	826.64	4	467.48	4	108.52	4		4			
1/4	2,231.33	1/4	1,872.16	1/4	1,513.31	1/4	1,167.60	1/4	819.16	1/4	460.00	1/4	101.07	1/4		1/4			
1/2	2,223.85	1/2	1,864.68	1/2	1,505.93	1/2	1,160.41	1/2	811.68	1/2	452.52	1/2	93.63	1/2		1/2			
3/4	2,216.36	3/4	1,857.20	3/4	1,498.73	3/4	1,153.23	3/4	804.19	3/4	445.03	3/4	86.21	3/4		3/4			
5	2,208.88	5	1,849.71	5	1,491.53	5	1,146.05	5	796.71	5	437.55	5	78.80	5		5			
1/4	2,201.40	1/4	1,842.23	1/4	1,484.33	1/4	1,138.86	1/4	789.23	1/4	430.07	1/4	71.39	1/4		1/4			
1/2	2,193.92	1/2	1,834.75	1/2	1,477.13	1/2	1,131.68	1/2	781.75	1/2	422.59	1/2	63.97	1/2		1/2			
3/4	2,186.43	3/4	1,827.26	3/4	1,469.93	3/4	1,124.50	3/4	774.26	3/4	415.10	3/4	57.02	3/4		3/4			
6	2,178.95	6	1,819.78	6	1,462.73	6	1,117.32	6	766.78	6	407.62	6	50.07	6		6			
1/4	2,171.47	1/4	1,812.30	1/4	1,455.53	1/4	1,110.14	1/4	759.30	1/4	400.14	1/4	43.11	1/4		1/4			
1/2	2,163.99	1/2	1,804.82	1/2	1,448.33	1/2	1,102.96	1/2	751.82	1/2	392.66	1/2	36.16	1/2		1/2			
3/4	2,156.50	3/4	1,797.33	3/4	1,441.13	3/4	1,095.78	3/4	744.33	3/4	385.17	3/4	30.86	3/4		3/4			
7	2,149.02	7	1,789.85	7	1,433.93	7	1,088.60	7	736.85	7	377.69	7	25.56	7		7			
1/4	2,141.54	1/4	1,782.37	1/4	1,426.73	1/4	1,081.42	1/4	729.37	1/4	370.21	1/4	20.26	1/4		1/4			
1/2	2,134.05	1/2	1,774.89	1/2	1,419.53	1/2	1,074.24	1/2	721.89	1/2	362.73	1/2	14.97	1/2		1/2			
3/4	2,126.57	3/4	1,767.40	3/4	1,412.33	3/4	1,067.06	3/4	714.40	3/4	355.24	3/4		3/4		3/4			
8	2,119.09	8	1,759.92	8	1,405.14	8	1,059.88	8	706.92	8	347.76	8		8		8			
1/4	2,111.61	1/4	1,752.44	1/4	1,397.94	1/4	1,052.70	1/4	699.44	1/4	340.28	1/4		1/4		1/4			
1/2	2,104.12	1/2	1,744.95	1/2	1,390.74	1/2	1,045.52	1/2	691.96	1/2	332.80	1/2		1/2		1/2			
3/4	2,096.64	3/4	1,737.47	3/4	1,383.54	3/4	1,038.34	3/4	684.47	3/4	325.31	3/4		3/4		3/4			
9	2,089.16	9	1,729.99	9	1,376.34	9	1,031.16	9	676.99	9	317.83	9		9		9			
1/4	2,081.68	1/4	1,722.51	1/4	1,369.14	1/4	1,023.98	1/4	669.51	1/4	310.35	1/4		1/4		1/4			
1/2	2,074.19	1/2	1,715.02	1/2	1,361.94	1/2	1,016.80	1/2	662.03	1/2	302.87	1/2		1/2		1/2			
3/4	2,066.71	3/4	1,707.54	3/4	1,354.74	3/4	1,009.62	3/4	654.54	3/4	295.38	3/4		3/4		3/4			
10	2,059.23	10	1,700.06	10	1,347.54	10	1,002.44	10	647.06	10	287.90	10		10		10			
1/4	2,051.75	1/4	1,692.58	1/4	1,340.34	1/4	995.26	1/4	639.58	1/4	280.42	1/4		1/4		1/4			
1/2	2,044.26	1/2	1,685.09	1/2	1,333.14	1/2	988.08	1/2	632.10	1/2	272.94	1/2		1/2		1/2			
3/4	2,036.78	3/4	1,677.61	3/4	1,325.94	3/4	980.90	3/4	624.61	3/4	265.45	3/4		3/4		3/4			
11	2,029.30	11	1,670.13	11	1,318.74	11	973.72	11	617.13	11	257.97	11		11		11			
1/4	2,021.81	1/4	1,662.64	1/4	1,311.54	1/4	966.54	1/4	609.65	1/4	250.49	1/4		1/4		1/4			
1/2	2,014.33	1/2	1,655.16	1/2	1,304.34	1/2	959.36	1/2	602.17	1/2	243.01	1/2		1/2		1/2			
3/4	2,006.85	3/4	1,647.68	3/4	1,297.14	3/4	952.18	3/4	594.68	3/4	235.52	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2014 CL
CALCULATED: 11/20/2014 CL
PRINTED: 11/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2014

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



BARGE "KIRBY 29133"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,792.56	0	4,475.38	0	4,151.75	0	3,812.99	0	3,459.59	0	3,101.77	0	2,742.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,787.45	1/4	4,468.79	1/4	4,144.85	1/4	3,805.77	1/4	3,452.14	1/4	3,094.29	1/4	2,735.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,782.34	1/2	4,462.21	1/2	4,137.95	1/2	3,798.56	1/2	3,444.69	1/2	3,086.80	1/2	2,727.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,775.99	3/4	4,455.60	3/4	4,131.02	3/4	3,791.31	3/4	3,437.23	3/4	3,079.32	3/4	2,720.06
1		1		1		1	4,769.65	1	4,448.99	1	4,124.10	1	3,784.07	1	3,429.78	1	3,071.83	1	2,712.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,763.30	1/4	4,442.38	1/4	4,117.17	1/4	3,776.82	1/4	3,422.33	1/4	3,064.35	1/4	2,705.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.96	1/2	4,435.78	1/2	4,110.25	1/2	3,769.58	1/2	3,414.88	1/2	3,056.86	1/2	2,697.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,749.72	3/4	4,429.14	3/4	4,103.30	3/4	3,762.31	3/4	3,407.43	3/4	3,049.38	3/4	2,690.12
2		2		2		2	4,742.49	2	4,422.50	2	4,096.35	2	3,755.05	2	3,399.97	2	3,041.89	2	2,682.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,735.26	1/4	4,415.87	1/4	4,089.39	1/4	3,747.78	1/4	3,392.52	1/4	3,034.41	1/4	2,675.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,728.03	1/2	4,409.23	1/2	4,082.44	1/2	3,740.51	1/2	3,385.07	1/2	3,026.92	1/2	2,667.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,720.57	3/4	4,402.57	3/4	4,075.47	3/4	3,733.22	3/4	3,377.62	3/4	3,019.44	3/4	2,660.18
3		3		3		3	4,713.12	3	4,395.91	3	4,068.49	3	3,725.93	3	3,370.16	3	3,011.96	3	2,652.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,705.67	1/4	4,389.25	1/4	4,061.51	1/4	3,718.63	1/4	3,362.71	1/4	3,004.47	1/4	2,645.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,698.22	1/2	4,382.58	1/2	4,054.53	1/2	3,711.34	1/2	3,355.26	1/2	2,996.99	1/2	2,637.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,691.16	3/4	4,375.89	3/4	4,047.53	3/4	3,704.02	3/4	3,347.81	3/4	2,989.50	3/4	2,630.24
4		4		4		4	4,684.11	4	4,369.21	4	4,040.52	4	3,696.70	4	3,340.35	4	2,982.02	4	2,622.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,677.05	1/4	4,362.52	1/4	4,033.52	1/4	3,689.38	1/4	3,332.90	1/4	2,974.53	1/4	2,615.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,670.00	1/2	4,355.83	1/2	4,026.52	1/2	3,682.06	1/2	3,325.45	1/2	2,967.05	1/2	2,607.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,663.60	3/4	4,349.11	3/4	4,019.49	3/4	3,674.72	3/4	3,318.00	3/4	2,959.56	3/4	2,600.30
5		5		5		5	4,657.20	5	4,342.40	5	4,012.46	5	3,667.37	5	3,310.54	5	2,952.08	5	2,592.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,650.80	1/4	4,335.68	1/4	4,005.42	1/4	3,660.03	1/4	3,303.09	1/4	2,944.59	1/4	2,585.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,644.40	1/2	4,328.97	1/2	3,998.39	1/2	3,652.68	1/2	3,295.64	1/2	2,937.11	1/2	2,577.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,637.97	3/4	4,322.22	3/4	3,991.34	3/4	3,645.31	3/4	3,288.19	3/4	2,929.62	3/4	2,570.36
6		6		6		6	4,631.54	6	4,315.48	6	3,984.28	6	3,637.94	6	3,280.73	6	2,922.14	6	2,562.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,625.12	1/4	4,308.74	1/4	3,977.22	1/4	3,630.56	1/4	3,273.28	1/4	2,914.66	1/4	2,555.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,618.69	1/2	4,302.00	1/2	3,970.17	1/2	3,623.19	1/2	3,265.83	1/2	2,907.17	1/2	2,547.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,612.24	3/4	4,295.23	3/4	3,963.08	3/4	3,615.79	3/4	3,258.38	3/4	2,899.69	3/4	2,540.43
7		7		7		7	4,605.78	7	4,288.46	7	3,956.00	7	3,608.39	7	3,250.92	7	2,892.20	7	2,532.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.33	1/4	4,281.69	1/4	3,948.92	1/4	3,601.00	1/4	3,243.47	1/4	2,884.72	1/4	2,525.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,592.87	1/2	4,274.93	1/2	3,941.83	1/2	3,593.60	1/2	3,236.02	1/2	2,877.23	1/2	2,517.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,586.39	3/4	4,268.13	3/4	3,934.72	3/4	3,586.17	3/4	3,228.57	3/4	2,869.75	3/4	2,510.49
8		8		8		8	4,579.91	8	4,261.33	8	3,927.61	8	3,578.75	8	3,221.12	8	2,862.26	8	2,503.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,573.43	1/4	4,254.54	1/4	3,920.50	1/4	3,571.32	1/4	3,213.66	1/4	2,854.78	1/4	2,495.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,566.95	1/2	4,247.74	1/2	3,913.39	1/2	3,563.89	1/2	3,206.21	1/2	2,847.29	1/2	2,488.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,560.45	3/4	4,240.92	3/4	3,906.25	3/4	3,556.45	3/4	3,198.76	3/4	2,839.81	3/4	2,480.55
9		9		9		9	4,553.94	9	4,234.10	9	3,899.12	9	3,549.00	9	3,191.31	9	2,832.33	9	2,473.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,547.43	1/4	4,227.28	1/4	3,891.98	1/4	3,541.56	1/4	3,183.85	1/4	2,824.84	1/4	2,465.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,540.92	1/2	4,220.46	1/2	3,884.84	1/2	3,534.12	1/2	3,176.40	1/2	2,817.36	1/2	2,458.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,534.39	3/4	4,213.61	3/4	3,877.68	3/4	3,526.66	3/4	3,168.95	3/4	2,809.87	3/4	2,450.61
10		10		10		10	4,527.85	10	4,206.76	10	3,870.51	10	3,519.21	10	3,161.50	10	2,802.39	10	2,443.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,521.32	1/4	4,199.91	1/4	3,863.35	1/4	3,511.76	1/4	3,154.04	1/4	2,794.90	1/4	2,435.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,514.79	1/2	4,193.06	1/2	3,856.19	1/2	3,504.31	1/2	3,146.59	1/2	2,787.42	1/2	2,428.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,508.23	3/4	4,186.18	3/4	3,849.00	3/4	3,496.85	3/4	3,139.13	3/4	2,779.93	3/4	2,420.67
11		11		11		11	4,501.67	11	4,179.31	11	3,841.81	11	3,489.40	11	3,131.67	11	2,772.45	11	2,413.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,495.10	1/4	4,172.43	1/4	3,834.61	1/4	3,481.95	1/4	3,124.20	1/4	2,764.96	1/4	2,405.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,488.54	1/2	4,165.56	1/2	3,827.42	1/2	3,474.50	1/2	3,116.74	1/2	2,757.48	1/2	2,398.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,481.96	3/4	4,158.65	3/4	3,820.21	3/4	3,467.04	3/4	3,109.26	3/4	2,749.99	3/4	2,390.73

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" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29133"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,383.25	0	2,023.99	0	1,664.73	0	1,305.47	0	946.49	0	587.34	0	228.10	0		0			
1/4	2,375.76	1/4	2,016.50	1/4	1,657.24	1/4	1,297.98	1/4	939.02	1/4	579.86	1/4	220.61	1/4		1/4			
1/2	2,368.28	1/2	2,009.02	1/2	1,649.76	1/2	1,290.50	1/2	931.55	1/2	572.37	1/2	213.13	1/2		1/2			
3/4	2,360.80	3/4	2,001.53	3/4	1,642.27	3/4	1,283.01	3/4	924.08	3/4	564.89	3/4	205.65	3/4		3/4			
1	2,353.31	1	1,994.05	1	1,634.79	1	1,275.53	1	916.60	1	557.41	1	198.16	1		1			
1/4	2,345.83	1/4	1,986.57	1/4	1,627.30	1/4	1,268.04	1/4	909.13	1/4	549.92	1/4	190.68	1/4		1/4			
1/2	2,338.34	1/2	1,979.08	1/2	1,619.82	1/2	1,260.56	1/2	901.66	1/2	542.44	1/2	183.20	1/2		1/2			
3/4	2,330.86	3/4	1,971.60	3/4	1,612.34	3/4	1,253.07	3/4	894.18	3/4	534.95	3/4	175.72	3/4		3/4			
2	2,323.37	2	1,964.11	2	1,604.85	2	1,245.59	2	886.70	2	527.47	2	168.25	2		2			
1/4	2,315.89	1/4	1,956.63	1/4	1,597.37	1/4	1,238.11	1/4	879.22	1/4	519.98	1/4	160.77	1/4		1/4			
1/2	2,308.40	1/2	1,949.14	1/2	1,589.88	1/2	1,230.62	1/2	871.75	1/2	512.50	1/2	153.30	1/2		1/2			
3/4	2,300.92	3/4	1,941.66	3/4	1,582.40	3/4	1,223.14	3/4	864.26	3/4	505.02	3/4	145.83	3/4		3/4			
3	2,293.43	3	1,934.17	3	1,574.91	3	1,215.65	3	856.78	3	497.53	3	138.37	3		3			
1/4	2,285.95	1/4	1,926.69	1/4	1,567.43	1/4	1,208.17	1/4	849.29	1/4	490.05	1/4	130.90	1/4		1/4			
1/2	2,278.46	1/2	1,919.20	1/2	1,559.94	1/2	1,200.68	1/2	841.81	1/2	482.56	1/2	123.44	1/2		1/2			
3/4	2,270.98	3/4	1,911.72	3/4	1,552.46	3/4	1,193.20	3/4	834.32	3/4	475.08	3/4	115.99	3/4		3/4			
4	2,263.50	4	1,904.23	4	1,544.97	4	1,185.71	4	826.84	4	467.59	4	108.54	4		4			
1/4	2,256.01	1/4	1,896.75	1/4	1,537.49	1/4	1,178.23	1/4	819.36	1/4	460.11	1/4	101.10	1/4		1/4			
1/2	2,248.53	1/2	1,889.27	1/2	1,530.00	1/2	1,170.74	1/2	811.87	1/2	452.63	1/2	93.65	1/2		1/2			
3/4	2,241.04	3/4	1,881.78	3/4	1,522.52	3/4	1,163.26	3/4	804.39	3/4	445.14	3/4	86.24	3/4		3/4			
5	2,233.56	5	1,874.30	5	1,515.04	5	1,155.77	5	796.90	5	437.66	5	78.82	5		5			
1/4	2,226.07	1/4	1,866.81	1/4	1,507.55	1/4	1,148.29	1/4	789.42	1/4	430.17	1/4	71.40	1/4		1/4			
1/2	2,218.59	1/2	1,859.33	1/2	1,500.07	1/2	1,140.81	1/2	781.93	1/2	422.69	1/2	63.99	1/2		1/2			
3/4	2,211.10	3/4	1,851.84	3/4	1,492.58	3/4	1,133.33	3/4	774.45	3/4	415.20	3/4	57.03	3/4		3/4			
6	2,203.62	6	1,844.36	6	1,485.10	6	1,125.85	6	766.97	6	407.72	6	50.08	6		6			
1/4	2,196.13	1/4	1,836.87	1/4	1,477.61	1/4	1,118.37	1/4	759.48	1/4	400.23	1/4	43.12	1/4		1/4			
1/2	2,188.65	1/2	1,829.39	1/2	1,470.13	1/2	1,110.89	1/2	752.00	1/2	392.75	1/2	36.17	1/2		1/2			
3/4	2,181.16	3/4	1,821.90	3/4	1,462.64	3/4	1,103.41	3/4	744.51	3/4	385.27	3/4	30.87	3/4		3/4			
7	2,173.68	7	1,814.42	7	1,455.16	7	1,095.94	7	737.03	7	377.78	7	25.57	7		7			
1/4	2,166.20	1/4	1,806.93	1/4	1,447.67	1/4	1,088.47	1/4	729.54	1/4	370.30	1/4	20.27	1/4		1/4			
1/2	2,158.71	1/2	1,799.45	1/2	1,440.19	1/2	1,081.00	1/2	722.06	1/2	362.81	1/2	14.97	1/2		1/2			
3/4	2,151.23	3/4	1,791.97	3/4	1,432.70	3/4	1,073.52	3/4	714.58	3/4	355.33	3/4		3/4		3/4			
8	2,143.74	8	1,784.48	8	1,425.22	8	1,066.05	8	707.09	8	347.84	8		8		8			
1/4	2,136.26	1/4	1,777.00	1/4	1,417.74	1/4	1,058.58	1/4	699.61	1/4	340.36	1/4		1/4		1/4			
1/2	2,128.77	1/2	1,769.51	1/2	1,410.25	1/2	1,051.11	1/2	692.12	1/2	332.88	1/2		1/2		1/2			
3/4	2,121.29	3/4	1,762.03	3/4	1,402.77	3/4	1,043.63	3/4	684.64	3/4	325.39	3/4		3/4		3/4			
9	2,113.80	9	1,754.54	9	1,395.28	9	1,036.16	9	677.15	9	317.91	9		9		9			
1/4	2,106.32	1/4	1,747.06	1/4	1,387.80	1/4	1,028.69	1/4	669.67	1/4	310.42	1/4		1/4		1/4			
1/2	2,098.83	1/2	1,739.57	1/2	1,380.31	1/2	1,021.22	1/2	662.19	1/2	302.94	1/2		1/2		1/2			
3/4	2,091.35	3/4	1,732.09	3/4	1,372.83	3/4	1,013.74	3/4	654.70	3/4	295.45	3/4		3/4		3/4			
10	2,083.87	10	1,724.60	10	1,365.34	10	1,006.27	10	647.22	10	287.97	10		10		10			
1/4	2,076.38	1/4	1,717.12	1/4	1,357.86	1/4	998.80	1/4	639.73	1/4	280.49	1/4		1/4		1/4			
1/2	2,068.90	1/2	1,709.64	1/2	1,350.37	1/2	991.33	1/2	632.25	1/2	273.00	1/2		1/2		1/2			
3/4	2,061.41	3/4	1,702.15	3/4	1,342.89	3/4	983.85	3/4	624.76	3/4	265.52	3/4		3/4		3/4			
11	2,053.93	11	1,694.67	11	1,335.41	11	976.38	11	617.28	11	258.03	11		11		11			
1/4	2,046.44	1/4	1,687.18	1/4	1,327.92	1/4	968.91	1/4	609.80	1/4	250.55	1/4		1/4		1/4			
1/2	2,038.96	1/2	1,679.70	1/2	1,320.44	1/2	961.44	1/2	602.31	1/2	243.06	1/2		1/2		1/2			
3/4	2,031.47	3/4	1,672.21	3/4	1,312.95	3/4	953.96	3/4	594.83	3/4	235.58	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2014 CL
CALCULATED: 11/20/2014 CL
PRINTED: 11/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2014

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



BARGE "KIRBY 29133"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	4,352.34	0	4,111.74	0	3,865.63	0	3,607.54	0	3,337.77	0	2,985.82	0	2,629.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,347.71	1/4	4,106.74	1/4	3,860.38	1/4	3,602.04	1/4	3,332.07	1/4	2,978.40	1/4	2,622.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,343.08	1/2	4,101.74	1/2	3,855.12	1/2	3,596.54	1/2	3,326.37	1/2	2,970.98	1/2	2,614.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,338.94	3/4	4,096.72	3/4	3,849.85	3/4	3,591.01	3/4	3,318.95	3/4	2,963.57	3/4	2,607.55
1	1	1	1	1	1	1	4,334.79	1	4,091.70	1	3,844.57	1	3,585.49	1	3,311.53	1	2,956.15	1	2,600.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,330.64	1/4	4,086.68	1/4	3,839.30	1/4	3,579.96	1/4	3,304.11	1/4	2,948.73	1/4	2,592.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,326.50	1/2	4,081.66	1/2	3,834.03	1/2	3,574.43	1/2	3,296.69	1/2	2,941.31	1/2	2,585.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,321.15	3/4	4,076.61	3/4	3,828.74	3/4	3,568.89	3/4	3,289.27	3/4	2,933.90	3/4	2,577.88
2	2	2	2	2	2	2	4,315.80	2	4,071.57	2	3,823.45	2	3,563.35	2	3,281.85	2	2,926.48	2	2,570.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,310.45	1/4	4,066.52	1/4	3,818.15	1/4	3,557.81	1/4	3,274.43	1/4	2,919.06	1/4	2,563.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,305.10	1/2	4,061.48	1/2	3,812.86	1/2	3,552.26	1/2	3,267.01	1/2	2,911.65	1/2	2,555.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,299.40	3/4	4,056.42	3/4	3,807.55	3/4	3,546.70	3/4	3,259.59	3/4	2,904.23	3/4	2,548.21
3	3	3	3	3	3	3	4,293.70	3	4,051.35	3	3,802.23	3	3,541.14	3	3,252.17	3	2,896.81	3	2,540.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,288.00	1/4	4,046.29	1/4	3,796.92	1/4	3,535.58	1/4	3,244.75	1/4	2,889.40	1/4	2,533.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,282.31	1/2	4,041.23	1/2	3,791.60	1/2	3,530.01	1/2	3,237.33	1/2	2,881.98	1/2	2,525.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,276.61	3/4	4,036.14	3/4	3,786.27	3/4	3,524.43	3/4	3,229.91	3/4	2,874.56	3/4	2,518.55
4	4	4	4	4	4	4	4,270.91	4	4,031.06	4	3,780.94	4	3,518.84	4	3,222.49	4	2,867.14	4	2,511.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,265.21	1/4	4,025.97	1/4	3,775.60	1/4	3,513.26	1/4	3,215.07	1/4	2,859.73	1/4	2,503.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,259.52	1/2	4,020.88	1/2	3,770.27	1/2	3,507.67	1/2	3,207.65	1/2	2,852.31	1/2	2,496.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,254.66	3/4	4,015.78	3/4	3,764.91	3/4	3,502.07	3/4	3,200.26	3/4	2,844.89	3/4	2,488.88
5	5	5	5	5	5	5	4,249.80	5	4,010.67	5	3,759.56	5	3,496.47	5	3,192.87	5	2,837.48	5	2,481.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,244.94	1/4	4,005.57	1/4	3,754.20	1/4	3,490.86	1/4	3,185.47	1/4	2,830.06	1/4	2,474.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,240.08	1/2	4,000.46	1/2	3,748.84	1/2	3,485.26	1/2	3,178.08	1/2	2,822.64	1/2	2,466.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,235.21	3/4	3,995.34	3/4	3,743.47	3/4	3,479.63	3/4	3,170.69	3/4	2,815.23	3/4	2,459.21
6	6	6	6	6	6	6	4,230.33	6	3,990.21	6	3,738.09	6	3,474.01	6	3,163.29	6	2,807.81	6	2,451.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,225.46	1/4	3,985.08	1/4	3,732.72	1/4	3,468.38	1/4	3,155.90	1/4	2,800.39	1/4	2,444.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,220.58	1/2	3,979.95	1/2	3,727.34	1/2	3,462.75	1/2	3,148.51	1/2	2,792.97	1/2	2,436.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,215.68	3/4	3,974.80	3/4	3,721.94	3/4	3,457.11	3/4	3,141.12	3/4	2,785.56	3/4	2,429.54
7	7	7	7	7	7	7	4,210.78	7	3,969.66	7	3,716.54	7	3,451.46	7	3,133.72	7	2,778.14	7	2,422.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,205.88	1/4	3,964.51	1/4	3,711.15	1/4	3,445.81	1/4	3,126.33	1/4	2,770.72	1/4	2,414.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,200.98	1/2	3,959.36	1/2	3,705.75	1/2	3,440.17	1/2	3,118.94	1/2	2,763.31	1/2	2,407.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,196.06	3/4	3,954.19	3/4	3,700.33	3/4	3,434.50	3/4	3,111.54	3/4	2,755.89	3/4	2,399.87
8	8	8	8	8	8	8	4,191.14	8	3,949.02	8	3,694.91	8	3,428.83	8	3,104.15	8	2,748.47	8	2,392.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,186.22	1/4	3,943.85	1/4	3,689.50	1/4	3,423.16	1/4	3,096.76	1/4	2,741.06	1/4	2,385.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,181.31	1/2	3,938.68	1/2	3,684.08	1/2	3,417.49	1/2	3,089.37	1/2	2,733.64	1/2	2,377.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,176.36	3/4	3,933.49	3/4	3,678.64	3/4	3,411.80	3/4	3,081.97	3/4	2,726.22	3/4	2,370.20
9	9	9	9	9	9	9	4,171.42	9	3,928.30	9	3,673.20	9	3,406.12	9	3,074.58	9	2,718.80	9	2,362.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,166.48	1/4	3,923.11	1/4	3,667.76	1/4	3,400.43	1/4	3,067.19	1/4	2,711.39	1/4	2,355.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,161.53	1/2	3,917.92	1/2	3,662.32	1/2	3,394.74	1/2	3,059.79	1/2	2,703.97	1/2	2,347.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,156.57	3/4	3,912.71	3/4	3,656.86	3/4	3,389.04	3/4	3,052.40	3/4	2,696.55	3/4	2,340.53
10	10	10	10	10	10	10	4,151.61	10	3,907.50	10	3,651.40	10	3,383.35	10	3,045.01	10	2,689.14	10	2,333.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,146.65	1/4	3,902.28	1/4	3,645.94	1/4	3,377.65	1/4	3,037.61	1/4	2,681.72	1/4	2,325.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,141.69	1/2	3,897.07	1/2	3,640.48	1/2	3,371.95	1/2	3,030.22	1/2	2,674.30	1/2	2,318.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,136.71	3/4	3,891.84	3/4	3,635.00	3/4	3,366.25	3/4	3,022.83	3/4	2,666.89	3/4	2,310.86
11	11	11	11	11	11	11	4,131.72	11	3,886.61	11	3,629.51	11	3,360.56	11	3,015.44	11	2,659.47	11	2,303.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,126.73	1/4	3,881.38	1/4	3,624.03	1/4	3,354.86	1/4	3,008.04	1/4	2,652.05	1/4	2,296.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,361.60	1/2	4,121.75	1/2	3,876.15	1/2	3,618.54	1/2	3,349.16	1/2	3,000.65	1/2	2,288.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,356.97	3/4	4,116.75	3/4	3,870.89	3/4	3,613.04	3/4	3,343.47	3/4	2,993.23	3/4	2,281.19

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 51'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29133"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,273.78	0	1,917.31	0	1,561.81	0	1,205.68	0	861.85	0	505.28	0	148.50	0		0			
1/4	2,266.36	1/4	1,909.88	1/4	1,554.40	1/4	1,198.52	1/4	854.43	1/4	497.85	1/4	141.07	1/4		1/4		1/4	
1/2	2,258.94	1/2	1,902.45	1/2	1,547.00	1/2	1,191.36	1/2	847.02	1/2	490.42	1/2	133.64	1/2		1/2		1/2	
3/4	2,251.52	3/4	1,895.05	3/4	1,539.57	3/4	1,184.19	3/4	839.61	3/4	482.98	3/4	126.20	3/4		3/4		3/4	
1	2,244.11	1	1,887.64	1	1,532.13	1	1,177.03	1	832.20	1	475.55	1	118.77	1		1		1	
1/4	2,236.69	1/4	1,880.24	1/4	1,524.70	1/4	1,169.86	1/4	824.79	1/4	468.12	1/4	111.34	1/4		1/4		1/4	
1/2	2,229.27	1/2	1,872.83	1/2	1,517.27	1/2	1,162.70	1/2	817.38	1/2	460.68	1/2	103.91	1/2		1/2		1/2	
3/4	2,221.85	3/4	1,865.42	3/4	1,509.84	3/4	1,155.54	3/4	809.97	3/4	453.25	3/4	96.79	3/4		3/4		3/4	
2	2,214.44	2	1,858.02	2	1,502.41	2	1,148.37	2	802.55	2	445.82	2	89.67	2		2		2	
1/4	2,207.02	1/4	1,850.61	1/4	1,494.98	1/4	1,141.21	1/4	795.14	1/4	438.39	1/4	82.55	1/4		1/4		1/4	
1/2	2,199.60	1/2	1,843.21	1/2	1,487.54	1/2	1,134.04	1/2	787.73	1/2	430.95	1/2	75.44	1/2		1/2		1/2	
3/4	2,192.18	3/4	1,835.80	3/4	1,480.11	3/4	1,126.88	3/4	780.30	3/4	423.52	3/4	69.26	3/4		3/4		3/4	
3	2,184.77	3	1,828.40	3	1,472.68	3	1,119.72	3	772.87	3	416.09	3	63.08	3		3		3	
1/4	2,177.35	1/4	1,820.99	1/4	1,465.25	1/4	1,112.55	1/4	765.43	1/4	408.65	1/4	56.90	1/4		1/4		1/4	
1/2	2,169.93	1/2	1,813.59	1/2	1,457.82	1/2	1,105.39	1/2	758.00	1/2	401.22	1/2	50.72	1/2		1/2		1/2	
3/4	2,162.51	3/4	1,806.18	3/4	1,450.39	3/4	1,098.22	3/4	750.57	3/4	393.79	3/4	45.80	3/4		3/4		3/4	
4	2,155.10	4	1,798.78	4	1,442.96	4	1,091.06	4	743.13	4	386.36	4	40.88	4		4		4	
1/4	2,147.68	1/4	1,791.37	1/4	1,435.52	1/4	1,083.90	1/4	735.70	1/4	378.92	1/4	35.95	1/4		1/4		1/4	
1/2	2,140.26	1/2	1,783.97	1/2	1,428.09	1/2	1,076.73	1/2	728.27	1/2	371.49	1/2	31.03	1/2		1/2		1/2	
3/4	2,132.83	3/4	1,776.56	3/4	1,420.66	3/4	1,069.58	3/4	720.84	3/4	364.06	3/4	27.37	3/4		3/4		3/4	
5	2,125.40	5	1,769.16	5	1,413.23	5	1,062.43	5	713.40	5	356.62	5	23.70	5		5		5	
1/4	2,117.97	1/4	1,761.75	1/4	1,405.80	1/4	1,055.28	1/4	705.97	1/4	349.19	1/4	20.04	1/4		1/4		1/4	
1/2	2,110.54	1/2	1,754.35	1/2	1,398.37	1/2	1,048.13	1/2	698.54	1/2	341.76	1/2	16.38	1/2		1/2		1/2	
3/4	2,103.10	3/4	1,746.94	3/4	1,390.94	3/4	1,040.98	3/4	691.10	3/4	334.33	3/4		3/4		3/4		3/4	
6	2,095.67	6	1,739.53	6	1,383.50	6	1,033.83	6	683.67	6	326.89	6		6		6		6	
1/4	2,088.24	1/4	1,732.13	1/4	1,376.07	1/4	1,026.68	1/4	676.24	1/4	319.46	1/4		1/4		1/4		1/4	
1/2	2,080.81	1/2	1,724.72	1/2	1,368.64	1/2	1,019.53	1/2	668.81	1/2	312.03	1/2		1/2		1/2		1/2	
3/4	2,073.38	3/4	1,717.32	3/4	1,361.21	3/4	1,012.39	3/4	661.37	3/4	304.59	3/4		3/4		3/4		3/4	
7	2,065.95	7	1,709.91	7	1,353.78	7	1,005.24	7	653.94	7	297.16	7		7		7		7	
1/4	2,058.51	1/4	1,702.51	1/4	1,346.35	1/4	998.10	1/4	646.51	1/4	289.73	1/4		1/4		1/4		1/4	
1/2	2,051.08	1/2	1,695.10	1/2	1,338.91	1/2	990.95	1/2	639.07	1/2	282.29	1/2		1/2		1/2		1/2	
3/4	2,043.65	3/4	1,687.70	3/4	1,331.48	3/4	983.81	3/4	631.64	3/4	274.86	3/4		3/4		3/4		3/4	
8	2,036.22	8	1,680.29	8	1,324.05	8	976.66	8	624.21	8	267.43	8		8		8		8	
1/4	2,028.79	1/4	1,672.89	1/4	1,316.62	1/4	969.52	1/4	616.78	1/4	260.00	1/4		1/4		1/4		1/4	
1/2	2,021.36	1/2	1,665.48	1/2	1,309.19	1/2	962.38	1/2	609.34	1/2	252.56	1/2		1/2		1/2		1/2	
3/4	2,013.93	3/4	1,658.08	3/4	1,301.76	3/4	955.24	3/4	601.91	3/4	245.13	3/4		3/4		3/4		3/4	
9	2,006.49	9	1,650.67	9	1,294.33	9	948.09	9	594.48	9	237.70	9		9		9		9	
1/4	1,999.06	1/4	1,643.27	1/4	1,286.89	1/4	940.95	1/4	587.04	1/4	230.26	1/4		1/4		1/4		1/4	
1/2	1,991.63	1/2	1,635.86	1/2	1,279.46	1/2	933.81	1/2	579.61	1/2	222.83	1/2		1/2		1/2		1/2	
3/4	1,984.20	3/4	1,628.46	3/4	1,272.03	3/4	926.67	3/4	572.18	3/4	215.40	3/4		3/4		3/4		3/4	
10	1,976.77	10	1,621.05	10	1,264.60	10	919.52	10	564.75	10	207.97	10		10		10		10	
1/4	1,969.34	1/4	1,613.64	1/4	1,257.17	1/4	912.38	1/4	557.31	1/4	200.53	1/4		1/4		1/4		1/4	
1/2	1,961.90	1/2	1,606.24	1/2	1,249.74	1/2	905.24	1/2	549.88	1/2	193.10	1/2		1/2		1/2		1/2	
3/4	1,954.47	3/4	1,598.83	3/4	1,242.31	3/4	898.10	3/4	542.45	3/4	185.67	3/4		3/4		3/4		3/4	
11	1,947.04	11	1,591.43	11	1,234.87	11	890.95	11	535.01	11	178.23	11		11		11		11	
1/4	1,939.61	1/4	1,584.02	1/4	1,227.44	1/4	883.81	1/4	527.58	1/4	170.80	1/4		1/4		1/4		1/4	
1/2	1,932.18	1/2	1,576.62	1/2	1,220.01	1/2	876.67	1/2	520.15	1/2	163.37	1/2		1/2		1/2		1/2	
3/4	1,924.75	3/4	1,569.21	3/4	1,212.85	3/4	869.26	3/4	512.71	3/4	155.94	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2014 CL
CALCULATED: 11/20/2014 CL
PRINTED: 11/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2014

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



BARGE "KIRBY 29133"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	4,380.24	0	4,138.48	0	3,891.22	0	3,631.96	0	3,361.00	0	3,007.10	0	2,649.76
1/4		1/4		1/4		1/4	4,375.59	1/4	4,133.46	1/4	3,885.94	1/4	3,626.43	1/4	3,355.28	1/4	2,999.66	1/4	2,642.31
1/2		1/2		1/2		1/2	4,370.93	1/2	4,128.43	1/2	3,880.66	1/2	3,620.90	1/2	3,349.56	1/2	2,992.21	1/2	2,634.87
3/4		3/4		3/4		3/4	4,366.76	3/4	4,123.39	3/4	3,875.36	3/4	3,615.35	3/4	3,342.12	3/4	2,984.77	3/4	2,627.42
1		1		1		1	4,362.59	1	4,118.34	1	3,870.06	1	3,609.80	1	3,334.67	1	2,977.32	1	2,619.98
1/4		1/4		1/4		1/4	4,358.42	1/4	4,113.30	1/4	3,864.76	1/4	3,604.25	1/4	3,327.23	1/4	2,969.88	1/4	2,612.53
1/2		1/2		1/2		1/2	4,354.25	1/2	4,108.25	1/2	3,859.47	1/2	3,598.70	1/2	3,319.78	1/2	2,962.44	1/2	2,605.09
3/4		3/4		3/4		3/4	4,348.88	3/4	4,103.18	3/4	3,854.15	3/4	3,593.13	3/4	3,312.34	3/4	2,954.99	3/4	2,597.65
2		2		2		2	4,343.50	2	4,098.12	2	3,848.84	2	3,587.57	2	3,304.89	2	2,947.55	2	2,590.20
1/4		1/4		1/4		1/4	4,338.13	1/4	4,093.05	1/4	3,843.52	1/4	3,582.00	1/4	3,297.45	1/4	2,940.10	1/4	2,582.76
1/2		1/2		1/2		1/2	4,332.75	1/2	4,087.98	1/2	3,838.20	1/2	3,576.43	1/2	3,290.00	1/2	2,932.66	1/2	2,575.31
3/4		3/4		3/4		3/4	4,327.03	3/4	4,082.89	3/4	3,832.87	3/4	3,570.84	3/4	3,282.56	3/4	2,925.21	3/4	2,567.87
3		3		3		3	4,321.31	3	4,077.81	3	3,827.53	3	3,565.26	3	3,275.11	3	2,917.77	3	2,560.42
1/4		1/4		1/4		1/4	4,315.59	1/4	4,072.72	1/4	3,822.19	1/4	3,559.67	1/4	3,267.67	1/4	2,910.32	1/4	2,552.98
1/2		1/2		1/2		1/2	4,309.87	1/2	4,067.63	1/2	3,816.85	1/2	3,554.08	1/2	3,260.22	1/2	2,902.88	1/2	2,545.53
3/4		3/4		3/4		3/4	4,304.15	3/4	4,062.52	3/4	3,811.49	3/4	3,548.47	3/4	3,252.78	3/4	2,895.43	3/4	2,538.09
4		4		4		4	4,298.42	4	4,057.41	4	3,806.13	4	3,542.87	4	3,245.33	4	2,887.99	4	2,530.64
1/4		1/4		1/4		1/4	4,292.70	1/4	4,052.30	1/4	3,800.78	1/4	3,537.26	1/4	3,237.89	1/4	2,880.54	1/4	2,523.20
1/2		1/2		1/2		1/2	4,286.98	1/2	4,047.19	1/2	3,795.42	1/2	3,531.65	1/2	3,230.44	1/2	2,873.10	1/2	2,515.75
3/4		3/4		3/4		3/4	4,282.10	3/4	4,042.06	3/4	3,790.04	3/4	3,526.02	3/4	3,223.00	3/4	2,865.65	3/4	2,508.31
5		5		5		5	4,277.22	5	4,036.93	5	3,784.66	5	3,520.39	5	3,215.56	5	2,858.21	5	2,500.86
1/4		1/4		1/4		1/4	4,272.34	1/4	4,031.80	1/4	3,779.28	1/4	3,514.76	1/4	3,208.11	1/4	2,850.76	1/4	2,493.42
1/2		1/2		1/2		1/2	4,267.45	1/2	4,026.67	1/2	3,773.89	1/2	3,509.13	1/2	3,200.67	1/2	2,843.32	1/2	2,485.97
3/4		3/4		3/4		3/4	4,262.55	3/4	4,021.52	3/4	3,768.49	3/4	3,503.48	3/4	3,193.22	3/4	2,835.88	3/4	2,478.53
6		6		6		6	4,257.65	6	4,016.37	6	3,763.09	6	3,497.83	6	3,185.78	6	2,828.43	6	2,471.09
1/4		1/4		1/4		1/4	4,252.75	1/4	4,011.22	1/4	3,757.70	1/4	3,492.18	1/4	3,178.33	1/4	2,820.99	1/4	2,463.64
1/2		1/2		1/2		1/2	4,247.85	1/2	4,006.06	1/2	3,752.30	1/2	3,486.53	1/2	3,170.89	1/2	2,813.54	1/2	2,456.20
3/4		3/4		3/4		3/4	4,242.93	3/4	4,000.89	3/4	3,746.87	3/4	3,480.86	3/4	3,163.44	3/4	2,806.10	3/4	2,448.75
7		7		7		7	4,238.00	7	3,995.72	7	3,741.45	7	3,475.19	7	3,156.00	7	2,798.65	7	2,441.31
1/4		1/4		1/4		1/4	4,233.08	1/4	3,990.55	1/4	3,736.03	1/4	3,469.51	1/4	3,148.55	1/4	2,791.21	1/4	2,433.86
1/2		1/2		1/2		1/2	4,228.15	1/2	3,985.38	1/2	3,730.60	1/2	3,463.84	1/2	3,141.11	1/2	2,783.76	1/2	2,426.42
3/4		3/4		3/4		3/4	4,223.21	3/4	3,980.19	3/4	3,725.16	3/4	3,458.15	3/4	3,133.66	3/4	2,776.32	3/4	2,418.97
8		8		8		8	4,218.27	8	3,974.99	8	3,719.72	8	3,452.46	8	3,126.22	8	2,768.87	8	2,411.53
1/4		1/4		1/4		1/4	4,213.33	1/4	3,969.80	1/4	3,714.28	1/4	3,446.76	1/4	3,118.77	1/4	2,761.43	1/4	2,404.08
1/2		1/2		1/2		1/2	4,208.38	1/2	3,964.60	1/2	3,708.84	1/2	3,441.07	1/2	3,111.33	1/2	2,753.98	1/2	2,396.64
3/4		3/4		3/4		3/4	4,203.42	3/4	3,959.39	3/4	3,703.37	3/4	3,435.36	3/4	3,103.88	3/4	2,746.54	3/4	2,389.19
9		9		9		9	4,198.45	9	3,954.17	9	3,697.91	9	3,429.65	9	3,096.44	9	2,739.09	9	2,381.75
1/4		1/4		1/4		1/4	4,193.48	1/4	3,948.96	1/4	3,692.44	1/4	3,423.93	1/4	3,089.00	1/4	2,731.65	1/4	2,374.30
1/2		1/2		1/2		1/2	4,188.51	1/2	3,943.75	1/2	3,686.97	1/2	3,418.22	1/2	3,081.55	1/2	2,724.21	1/2	2,366.86
3/4		3/4		3/4		3/4	4,183.53	3/4	3,938.51	3/4	3,681.49	3/4	3,412.50	3/4	3,074.11	3/4	2,716.76	3/4	2,359.41
10		10		10		10	4,178.55	10	3,933.27	10	3,676.01	10	3,406.78	10	3,066.66	10	2,709.32	10	2,351.97
1/4		1/4		1/4		1/4	4,173.56	1/4	3,928.03	1/4	3,670.52	1/4	3,401.06	1/4	3,059.22	1/4	2,701.87	1/4	2,344.53
1/2		1/2		1/2		1/2	4,168.58	1/2	3,922.80	1/2	3,665.04	1/2	3,395.33	1/2	3,051.77	1/2	2,694.43	1/2	2,337.08
3/4		3/4		3/4		3/4	4,163.57	3/4	3,917.54	3/4	3,659.53	3/4	3,389.61	3/4	3,044.33	3/4	2,686.98	3/4	2,329.64
11		11		11		11	4,158.56	11	3,912.29	11	3,654.02	11	3,383.89	11	3,036.88	11	2,679.54	11	2,322.19
1/4		1/4		1/4		1/4	4,153.55	1/4	3,907.03	1/4	3,648.52	1/4	3,378.17	1/4	3,029.44	1/4	2,672.09	1/4	2,314.75
1/2		1/2		1/2		1/2	4,389.54	1/2	4,148.54	1/2	3,901.78	1/2	3,643.01	1/2	3,372.45	1/2	3,021.99	1/2	2,664.65
3/4		3/4		3/4		3/4	4,384.89	3/4	4,143.51	3/4	3,896.50	3/4	3,637.48	3/4	3,366.72	3/4	3,014.55	3/4	2,299.86

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 51'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29133"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,292.41	0	1,935.07	0	1,577.72	0	1,220.38	0	863.30	0	506.08	0	148.75	0		0			
1/4	2,284.97	1/4	1,927.62	1/4	1,570.28	1/4	1,212.93	1/4	855.87	1/4	498.64	1/4	141.30	1/4		1/4			
1/2	2,277.52	1/2	1,920.18	1/2	1,562.83	1/2	1,205.49	1/2	848.43	1/2	491.19	1/2	133.86	1/2		1/2			
3/4	2,270.08	3/4	1,912.73	3/4	1,555.39	3/4	1,198.04	3/4	841.00	3/4	483.75	3/4	126.41	3/4		3/4			
1	2,262.63	1	1,905.29	1	1,547.94	1	1,190.60	1	833.57	1	476.30	1	118.97	1		1			
1/4	2,255.19	1/4	1,897.84	1/4	1,540.50	1/4	1,183.15	1/4	826.14	1/4	468.86	1/4	111.53	1/4		1/4			
1/2	2,247.74	1/2	1,890.40	1/2	1,533.05	1/2	1,175.71	1/2	818.70	1/2	461.42	1/2	104.08	1/2		1/2			
3/4	2,240.30	3/4	1,882.95	3/4	1,525.61	3/4	1,168.26	3/4	811.27	3/4	453.97	3/4	96.95	3/4		3/4			
2	2,232.85	2	1,875.51	2	1,518.16	2	1,160.82	2	803.84	2	446.53	2	89.82	2		2			
1/4	2,225.41	1/4	1,868.06	1/4	1,510.72	1/4	1,153.37	1/4	796.41	1/4	439.08	1/4	82.69	1/4		1/4			
1/2	2,217.97	1/2	1,860.62	1/2	1,503.27	1/2	1,145.93	1/2	788.97	1/2	431.64	1/2	75.56	1/2		1/2			
3/4	2,210.52	3/4	1,853.18	3/4	1,495.83	3/4	1,138.48	3/4	781.53	3/4	424.19	3/4	69.37	3/4		3/4			
3	2,203.08	3	1,845.73	3	1,488.38	3	1,131.04	3	774.08	3	416.75	3	63.18	3		3			
1/4	2,195.63	1/4	1,838.29	1/4	1,480.94	1/4	1,123.59	1/4	766.64	1/4	409.30	1/4	56.99	1/4		1/4			
1/2	2,188.19	1/2	1,830.84	1/2	1,473.50	1/2	1,116.15	1/2	759.20	1/2	401.86	1/2	50.80	1/2		1/2			
3/4	2,180.74	3/4	1,823.40	3/4	1,466.05	3/4	1,108.71	3/4	751.75	3/4	394.41	3/4	45.87	3/4		3/4			
4	2,173.30	4	1,815.95	4	1,458.61	4	1,101.26	4	744.31	4	386.97	4	40.93	4		4			
1/4	2,165.85	1/4	1,808.51	1/4	1,451.16	1/4	1,093.82	1/4	736.86	1/4	379.53	1/4	36.00	1/4		1/4			
1/2	2,158.41	1/2	1,801.06	1/2	1,443.72	1/2	1,086.37	1/2	729.42	1/2	372.08	1/2	31.06	1/2		1/2			
3/4	2,150.96	3/4	1,793.62	3/4	1,436.27	3/4	1,078.93	3/4	721.97	3/4	364.64	3/4	27.39	3/4		3/4			
5	2,143.52	5	1,786.17	5	1,428.83	5	1,071.48	5	714.53	5	357.19	5	23.72	5		5			
1/4	2,136.07	1/4	1,778.73	1/4	1,421.38	1/4	1,064.04	1/4	707.08	1/4	349.75	1/4	20.05	1/4		1/4			
1/2	2,128.63	1/2	1,771.28	1/2	1,413.94	1/2	1,056.59	1/2	699.64	1/2	342.30	1/2	16.38	1/2		1/2			
3/4	2,121.18	3/4	1,763.84	3/4	1,406.49	3/4	1,049.15	3/4	692.19	3/4	334.86	3/4		3/4		3/4			
6	2,113.74	6	1,756.39	6	1,399.05	6	1,041.70	6	684.75	6	327.41	6		6		6			
1/4	2,106.29	1/4	1,748.95	1/4	1,391.60	1/4	1,034.26	1/4	677.31	1/4	319.97	1/4		1/4		1/4			
1/2	2,098.85	1/2	1,741.50	1/2	1,384.16	1/2	1,026.81	1/2	669.86	1/2	312.53	1/2		1/2		1/2			
3/4	2,091.41	3/4	1,734.06	3/4	1,376.71	3/4	1,019.38	3/4	662.42	3/4	305.08	3/4		3/4		3/4			
7	2,083.96	7	1,726.62	7	1,369.27	7	1,011.95	7	654.97	7	297.64	7		7		7			
1/4	2,076.52	1/4	1,719.17	1/4	1,361.82	1/4	1,004.52	1/4	647.53	1/4	290.19	1/4		1/4		1/4			
1/2	2,069.07	1/2	1,711.73	1/2	1,354.38	1/2	997.08	1/2	640.08	1/2	282.75	1/2		1/2		1/2			
3/4	2,061.63	3/4	1,704.28	3/4	1,346.94	3/4	989.65	3/4	632.64	3/4	275.30	3/4		3/4		3/4			
8	2,054.18	8	1,696.84	8	1,339.49	8	982.22	8	625.19	8	267.86	8		8		8			
1/4	2,046.74	1/4	1,689.39	1/4	1,332.05	1/4	974.79	1/4	617.75	1/4	260.41	1/4		1/4		1/4			
1/2	2,039.29	1/2	1,681.95	1/2	1,324.60	1/2	967.35	1/2	610.31	1/2	252.97	1/2		1/2		1/2			
3/4	2,031.85	3/4	1,674.50	3/4	1,317.16	3/4	959.92	3/4	602.86	3/4	245.52	3/4		3/4		3/4			
9	2,024.40	9	1,667.06	9	1,309.71	9	952.49	9	595.42	9	238.08	9		9		9			
1/4	2,016.96	1/4	1,659.61	1/4	1,302.27	1/4	945.06	1/4	587.97	1/4	230.64	1/4		1/4		1/4			
1/2	2,009.51	1/2	1,652.17	1/2	1,294.82	1/2	937.62	1/2	580.53	1/2	223.19	1/2		1/2		1/2			
3/4	2,002.07	3/4	1,644.72	3/4	1,287.38	3/4	930.19	3/4	573.08	3/4	215.75	3/4		3/4		3/4			
10	1,994.62	10	1,637.28	10	1,279.93	10	922.76	10	565.64	10	208.30	10		10		10			
1/4	1,987.18	1/4	1,629.83	1/4	1,272.49	1/4	915.33	1/4	558.19	1/4	200.86	1/4		1/4		1/4			
1/2	1,979.74	1/2	1,622.39	1/2	1,265.04	1/2	907.89	1/2	550.75	1/2	193.41	1/2		1/2		1/2			
3/4	1,972.29	3/4	1,614.94	3/4	1,257.60	3/4	900.46	3/4	543.30	3/4	185.97	3/4		3/4		3/4			
11	1,964.85	11	1,607.50	11	1,250.15	11	893.03	11	535.86	11	178.52	11		11		11			
1/4	1,957.40	1/4	1,600.06	1/4	1,242.71	1/4	885.60	1/4	528.42	1/4	171.08	1/4		1/4		1/4			
1/2	1,949.96	1/2	1,592.61	1/2	1,235.27	1/2	878.16	1/2	520.97	1/2	163.64	1/2		1/2		1/2			
3/4	1,942.51	3/4	1,585.17	3/4	1,227.82	3/4	870.73	3/4	513.53	3/4	156.19	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2014 CL
CALCULATED: 11/20/2014 CL
PRINTED: 11/20/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2014

PRECISION MEASUREMENT
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