



BARGE "KIRBY 28196"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-7/8	- 01-7/8
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-7/8	- 01-7/8
2 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-1/2	- 02-1/2
2 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-1/2	- 02-1/2
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	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	01-1/4	- 01-1/4	01-5/8	- 01-5/8	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"

January 26, 2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28196"

1 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	4,957.65	0	4,625.15	0	4,286.03	0	3,930.41	0	3,558.82	0	3,182.42	0	2,804.46
1/4		1/4		1/4		1/4	4,952.28	1/4	4,618.26	1/4	4,278.79	1/4	3,922.82	1/4	3,550.99	1/4	3,174.55	1/4	2,796.59
1/2		1/2		1/2		1/2	4,946.90	1/2	4,611.37	1/2	4,271.55	1/2	3,915.24	1/2	3,543.15	1/2	3,166.67	1/2	2,788.72
3/4		3/4		3/4		3/4	4,940.22	3/4	4,604.45	3/4	4,264.29	3/4	3,907.63	3/4	3,535.31	3/4	3,158.80	3/4	2,780.84
1		1		1		1	4,933.54	1	4,597.53	1	4,257.02	1	3,900.02	1	3,527.47	1	3,150.92	1	2,772.97
1/4		1/4		1/4		1/4	4,926.87	1/4	4,590.61	1/4	4,249.76	1/4	3,892.40	1/4	3,519.63	1/4	3,143.05	1/4	2,765.09
1/2		1/2		1/2		1/2	4,920.19	1/2	4,583.69	1/2	4,242.49	1/2	3,884.79	1/2	3,511.79	1/2	3,135.18	1/2	2,757.22
3/4		3/4		3/4		3/4	4,912.58	3/4	4,576.74	3/4	4,235.20	3/4	3,877.15	3/4	3,503.95	3/4	3,127.30	3/4	2,749.35
2		2		2		2	4,904.97	2	4,569.79	2	4,227.91	2	3,869.52	2	3,496.11	2	3,119.43	2	2,741.47
1/4		1/4		1/4		1/4	4,897.36	1/4	4,562.84	1/4	4,220.62	1/4	3,861.88	1/4	3,488.27	1/4	3,111.55	1/4	2,733.60
1/2		1/2		1/2		1/2	4,889.75	1/2	4,555.89	1/2	4,213.32	1/2	3,854.24	1/2	3,480.43	1/2	3,103.68	1/2	2,725.72
3/4		3/4		3/4		3/4	4,881.91	3/4	4,548.92	3/4	4,206.00	3/4	3,846.58	3/4	3,472.59	3/4	3,095.81	3/4	2,717.85
3		3		3		3	4,874.07	3	4,541.94	3	4,198.68	3	3,838.91	3	3,464.75	3	3,087.93	3	2,709.97
1/4		1/4		1/4		1/4	4,866.24	1/4	4,534.96	1/4	4,191.36	1/4	3,831.25	1/4	3,456.91	1/4	3,080.06	1/4	2,702.10
1/2		1/2		1/2		1/2	4,858.40	1/2	4,527.98	1/2	4,184.04	1/2	3,823.58	1/2	3,449.08	1/2	3,072.18	1/2	2,694.23
3/4		3/4		3/4		3/4	4,850.99	3/4	4,520.98	3/4	4,176.69	3/4	3,815.89	3/4	3,441.24	3/4	3,064.31	3/4	2,686.35
4		4		4		4	4,843.58	4	4,513.97	4	4,169.33	4	3,808.19	4	3,433.40	4	3,056.44	4	2,678.48
1/4		1/4		1/4		1/4	4,836.18	1/4	4,506.96	1/4	4,161.98	1/4	3,800.50	1/4	3,425.56	1/4	3,048.56	1/4	2,670.60
1/2		1/2		1/2		1/2	4,828.77	1/2	4,499.95	1/2	4,154.63	1/2	3,792.81	1/2	3,417.72	1/2	3,040.69	1/2	2,662.73
3/4		3/4		3/4		3/4	4,822.08	3/4	4,492.92	3/4	4,147.25	3/4	3,785.08	3/4	3,409.88	3/4	3,032.81	3/4	2,654.86
5		5		5		5	4,815.39	5	4,485.88	5	4,139.87	5	3,777.36	5	3,402.04	5	3,024.94	5	2,646.98
1/4		1/4		1/4		1/4	4,808.69	1/4	4,478.85	1/4	4,132.50	1/4	3,769.64	1/4	3,394.20	1/4	3,017.06	1/4	2,639.11
1/2		1/2		1/2		1/2	4,802.00	1/2	4,471.81	1/2	4,125.12	1/2	3,761.91	1/2	3,386.36	1/2	3,009.19	1/2	2,631.23
3/4		3/4		3/4		3/4	4,795.28	3/4	4,464.75	3/4	4,117.71	3/4	3,754.16	3/4	3,378.52	3/4	3,001.32	3/4	2,623.36
6		6		6		6	4,788.56	6	4,457.68	6	4,110.30	6	3,746.41	6	3,370.68	6	2,993.44	6	2,615.49
1/4		1/4		1/4		1/4	4,781.84	1/4	4,450.62	1/4	4,102.89	1/4	3,738.66	1/4	3,362.84	1/4	2,985.57	1/4	2,607.61
1/2		1/2		1/2		1/2	4,775.12	1/2	4,443.55	1/2	4,095.48	1/2	3,730.90	1/2	3,355.01	1/2	2,977.69	1/2	2,599.74
3/4		3/4		3/4		3/4	4,768.37	3/4	4,436.46	3/4	4,088.05	3/4	3,723.12	3/4	3,347.17	3/4	2,969.82	3/4	2,591.86
7		7		7		7	4,761.62	7	4,429.37	7	4,080.61	7	3,715.34	7	3,339.33	7	2,961.95	7	2,583.99
1/4		1/4		1/4		1/4	4,754.86	1/4	4,422.27	1/4	4,073.17	1/4	3,707.56	1/4	3,331.49	1/4	2,954.07	1/4	2,576.11
1/2		1/2		1/2		1/2	4,748.11	1/2	4,415.18	1/2	4,065.73	1/2	3,699.78	1/2	3,323.65	1/2	2,946.20	1/2	2,568.24
3/4		3/4		3/4		3/4	4,741.33	3/4	4,408.05	3/4	4,058.27	3/4	3,691.97	3/4	3,315.81	3/4	2,938.32	3/4	2,560.37
8		8		8		8	4,734.55	8	4,400.93	8	4,050.80	8	3,684.16	8	3,307.97	8	2,930.45	8	2,552.49
1/4		1/4		1/4		1/4	4,727.78	1/4	4,393.81	1/4	4,043.34	1/4	3,676.35	1/4	3,300.13	1/4	2,922.58	1/4	2,544.62
1/2		1/2		1/2		1/2	4,721.00	1/2	4,386.68	1/2	4,035.87	1/2	3,668.54	1/2	3,292.29	1/2	2,914.70	1/2	2,536.74
3/4		3/4		3/4		3/4	4,714.19	3/4	4,379.53	3/4	4,028.37	3/4	3,660.71	3/4	3,284.45	3/4	2,906.83	3/4	2,528.87
9		9		9		9	4,707.38	9	4,372.38	9	4,020.88	9	3,652.88	9	3,276.61	9	2,898.95	9	2,521.00
1/4		1/4		1/4		1/4	4,700.57	1/4	4,365.23	1/4	4,013.38	1/4	3,645.05	1/4	3,268.77	1/4	2,891.08	1/4	2,513.12
1/2		1/2		1/2		1/2	4,693.76	1/2	4,358.08	1/2	4,005.89	1/2	3,637.22	1/2	3,260.93	1/2	2,883.20	1/2	2,505.25
3/4		3/4		3/4		3/4	4,686.92	3/4	4,350.90	3/4	3,998.36	3/4	3,629.38	3/4	3,253.10	3/4	2,875.33	3/4	2,497.37
10		10		10		10	4,680.08	10	4,343.71	10	3,990.84	10	3,621.54	10	3,245.26	10	2,867.46	10	2,489.50
1/4		1/4		1/4		1/4	4,673.25	1/4	4,336.53	1/4	3,983.31	1/4	3,613.70	1/4	3,237.42	1/4	2,859.58	1/4	2,481.63
1/2		1/2		1/2		1/2	4,666.41	1/2	4,329.35	1/2	3,975.79	1/2	3,605.86	1/2	3,229.58	1/2	2,851.71	1/2	2,473.75
3/4		3/4		3/4		3/4	4,659.54	3/4	4,322.14	3/4	3,968.23	3/4	3,598.02	3/4	3,221.73	3/4	2,843.83	3/4	2,465.88
11		11		11		11	4,652.67	11	4,314.93	11	3,960.68	11	3,590.18	11	3,213.87	11	2,835.96	11	2,458.00
1/4		1/4		1/4		1/4	4,645.80	1/4	4,307.72	1/4	3,953.13	1/4	3,582.34	1/4	3,206.02	1/4	2,828.09	1/4	2,450.13
1/2		1/2		1/2		1/2	4,638.94	1/2	4,300.51	1/2	3,945.57	1/2	3,574.50	1/2	3,198.17	1/2	2,820.21	1/2	2,442.26
3/4		3/4		3/4		3/4	4,632.05	3/4	4,293.27	3/4	3,937.99	3/4	3,566.66	3/4	3,190.29	3/4	2,812.34	3/4	2,434.38

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'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 28196"

1 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	2,426.51	0	2,048.55	0	1,670.59	0	1,293.98	0	916.84	0	538.92	0	189.42	0		0		0	
1/4	2,418.63	1/4	2,040.68	1/4	1,662.72	1/4	1,286.15	1/4	908.97	1/4	531.05	1/4	182.79	1/4		1/4		1/4	
1/2	2,410.76	1/2	2,032.80	1/2	1,654.85	1/2	1,278.33	1/2	901.10	1/2	523.19	1/2	176.16	1/2		1/2		1/2	
3/4	2,402.88	3/4	2,024.93	3/4	1,646.97	3/4	1,270.50	3/4	893.22	3/4	515.37	3/4	169.65	3/4		3/4		3/4	
1	2,395.01	1	2,017.05	1	1,639.10	1	1,262.68	1	885.35	1	507.56	1	163.13	1		1		1	
1/4	2,387.14	1/4	2,009.18	1/4	1,631.22	1/4	1,254.85	1/4	877.47	1/4	499.74	1/4	156.61	1/4		1/4		1/4	
1/2	2,379.26	1/2	2,001.31	1/2	1,623.35	1/2	1,247.03	1/2	869.60	1/2	491.93	1/2	150.09	1/2		1/2		1/2	
3/4	2,371.39	3/4	1,993.43	3/4	1,615.47	3/4	1,239.20	3/4	861.73	3/4	484.20	3/4	143.69	3/4		3/4		3/4	
2	2,363.51	2	1,985.56	2	1,607.60	2	1,231.38	2	853.85	2	476.48	2	137.29	2		2		2	
1/4	2,355.64	1/4	1,977.68	1/4	1,599.73	1/4	1,223.56	1/4	845.98	1/4	468.76	1/4	130.89	1/4		1/4		1/4	
1/2	2,347.77	1/2	1,969.81	1/2	1,591.85	1/2	1,215.73	1/2	838.11	1/2	461.03	1/2	124.48	1/2		1/2		1/2	
3/4	2,339.89	3/4	1,961.94	3/4	1,583.98	3/4	1,207.91	3/4	830.23	3/4	453.42	3/4	118.20	3/4		3/4		3/4	
3	2,332.02	3	1,954.06	3	1,576.10	3	1,200.08	3	822.36	3	445.81	3	111.92	3		3		3	
1/4	2,324.14	1/4	1,946.19	1/4	1,568.23	1/4	1,192.26	1/4	814.48	1/4	438.19	1/4	105.64	1/4		1/4		1/4	
1/2	2,316.27	1/2	1,938.31	1/2	1,560.36	1/2	1,184.43	1/2	806.61	1/2	430.58	1/2	99.36	1/2		1/2		1/2	
3/4	2,308.40	3/4	1,930.44	3/4	1,552.49	3/4	1,176.59	3/4	798.74	3/4	423.07	3/4	93.21	3/4		3/4		3/4	
4	2,300.52	4	1,922.56	4	1,544.63	4	1,168.75	4	790.86	4	415.57	4	87.06	4		4		4	
1/4	2,292.65	1/4	1,914.69	1/4	1,536.77	1/4	1,160.90	1/4	782.99	1/4	408.06	1/4	80.91	1/4		1/4		1/4	
1/2	2,284.77	1/2	1,906.82	1/2	1,528.90	1/2	1,153.06	1/2	775.11	1/2	400.56	1/2	74.75	1/2		1/2		1/2	
3/4	2,276.90	3/4	1,898.94	3/4	1,521.06	3/4	1,145.19	3/4	767.24	3/4	393.16	3/4	68.74	3/4		3/4		3/4	
5	2,269.03	5	1,891.07	5	1,513.21	5	1,137.31	5	759.37	5	385.77	5	62.73	5		5		5	
1/4	2,261.15	1/4	1,883.19	1/4	1,505.37	1/4	1,129.44	1/4	751.49	1/4	378.37	1/4	56.72	1/4		1/4		1/4	
1/2	2,253.28	1/2	1,875.32	1/2	1,497.53	1/2	1,121.57	1/2	743.62	1/2	370.98	1/2	50.71	1/2		1/2		1/2	
3/4	2,245.40	3/4	1,867.45	3/4	1,489.69	3/4	1,113.69	3/4	735.74	3/4	363.69	3/4	45.30	3/4		3/4		3/4	
6	2,237.53	6	1,859.57	6	1,481.85	6	1,105.82	6	727.87	6	356.41	6	39.88	6		6		6	
1/4	2,229.65	1/4	1,851.70	1/4	1,474.01	1/4	1,097.94	1/4	720.00	1/4	349.12	1/4	34.46	1/4		1/4		1/4	
1/2	2,221.78	1/2	1,843.82	1/2	1,466.17	1/2	1,090.07	1/2	712.12	1/2	341.83	1/2	29.04	1/2		1/2		1/2	
3/4	2,213.91	3/4	1,835.95	3/4	1,458.33	3/4	1,082.20	3/4	704.25	3/4	334.66	3/4	25.08	3/4		3/4		3/4	
7	2,206.03	7	1,828.08	7	1,450.50	7	1,074.32	7	696.38	7	327.48	7	21.12	7		7		7	
1/4	2,198.16	1/4	1,820.20	1/4	1,442.67	1/4	1,066.45	1/4	688.50	1/4	320.30	1/4	17.15	1/4		1/4		1/4	
1/2	2,190.28	1/2	1,812.33	1/2	1,434.84	1/2	1,058.57	1/2	680.63	1/2	313.13	1/2	13.19	1/2		1/2		1/2	
3/4	2,182.41	3/4	1,804.45	3/4	1,427.01	3/4	1,050.70	3/4	672.75	3/4	306.06	3/4		3/4		3/4		3/4	
8	2,174.54	8	1,796.58	8	1,419.18	8	1,042.83	8	664.88	8	298.99	8		8		8		8	
1/4	2,166.66	1/4	1,788.70	1/4	1,411.35	1/4	1,034.95	1/4	657.01	1/4	291.93	1/4		1/4		1/4		1/4	
1/2	2,158.79	1/2	1,780.83	1/2	1,403.52	1/2	1,027.08	1/2	649.13	1/2	284.86	1/2		1/2		1/2		1/2	
3/4	2,150.91	3/4	1,772.96	3/4	1,395.70	3/4	1,019.20	3/4	641.26	3/4	277.90	3/4		3/4		3/4		3/4	
9	2,143.04	9	1,765.08	9	1,387.87	9	1,011.33	9	633.38	9	270.94	9		9		9		9	
1/4	2,135.17	1/4	1,757.21	1/4	1,380.05	1/4	1,003.46	1/4	625.51	1/4	263.99	1/4		1/4		1/4		1/4	
1/2	2,127.29	1/2	1,749.33	1/2	1,372.22	1/2	995.58	1/2	617.64	1/2	257.03	1/2		1/2		1/2		1/2	
3/4	2,119.42	3/4	1,741.46	3/4	1,364.40	3/4	987.71	3/4	609.76	3/4	250.18	3/4		3/4		3/4		3/4	
10	2,111.54	10	1,733.59	10	1,356.58	10	979.84	10	601.89	10	243.33	10		10		10		10	
1/4	2,103.67	1/4	1,725.71	1/4	1,348.75	1/4	971.96	1/4	594.01	1/4	236.48	1/4		1/4		1/4		1/4	
1/2	2,095.79	1/2	1,717.84	1/2	1,340.93	1/2	964.09	1/2	586.14	1/2	229.64	1/2		1/2		1/2		1/2	
3/4	2,087.92	3/4	1,709.96	3/4	1,333.10	3/4	956.21	3/4	578.27	3/4	222.90	3/4		3/4		3/4		3/4	
11	2,080.05	11	1,702.09	11	1,325.28	11	948.34	11	570.39	11	216.16	11		11		11		11	
1/4	2,072.17	1/4	1,694.22	1/4	1,317.45	1/4	940.47	1/4	562.52	1/4	209.42	1/4		1/4		1/4		1/4	
1/2	2,064.30	1/2	1,686.34	1/2	1,309.63	1/2	932.59	1/2	554.64	1/2	202.68	1/2		1/2		1/2		1/2	
3/4	2,056.42	3/4	1,678.47	3/4	1,301.80	3/4	924.72	3/4	546.78	3/4	196.05	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 SW
CALCULATED: 11/20/2013 CL
VERIFIED: 01/26/2024 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2024



BARGE "KIRBY 28196"

1 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	4,959.43	0	4,626.93	0	4,287.81	0	3,932.18	0	3,560.60	0	3,184.20	0	2,806.24
1/4		1/4		1/4		1/4	4,954.05	1/4	4,620.04	1/4	4,280.57	1/4	3,924.60	1/4	3,552.76	1/4	3,176.32	1/4	2,798.37
1/2		1/2		1/2		1/2	4,948.67	1/2	4,613.15	1/2	4,273.33	1/2	3,917.02	1/2	3,544.92	1/2	3,168.45	1/2	2,790.49
3/4		3/4		3/4		3/4	4,942.00	3/4	4,606.23	3/4	4,266.06	3/4	3,909.41	3/4	3,537.08	3/4	3,160.57	3/4	2,782.62
1		1		1		1	4,935.32	1	4,599.31	1	4,258.80	1	3,901.79	1	3,529.24	1	3,152.70	1	2,774.74
1/4		1/4		1/4		1/4	4,928.64	1/4	4,592.39	1/4	4,251.53	1/4	3,894.18	1/4	3,521.41	1/4	3,144.83	1/4	2,766.87
1/2		1/2		1/2		1/2	4,921.97	1/2	4,585.47	1/2	4,244.27	1/2	3,886.57	1/2	3,513.57	1/2	3,136.95	1/2	2,759.00
3/4		3/4		3/4		3/4	4,914.36	3/4	4,578.52	3/4	4,236.98	3/4	3,878.93	3/4	3,505.73	3/4	3,129.08	3/4	2,751.12
2		2		2		2	4,906.75	2	4,571.57	2	4,229.68	2	3,871.29	2	3,497.89	2	3,121.20	2	2,743.25
1/4		1/4		1/4		1/4	4,899.14	1/4	4,564.62	1/4	4,222.39	1/4	3,863.66	1/4	3,490.05	1/4	3,113.33	1/4	2,735.37
1/2		1/2		1/2		1/2	4,891.53	1/2	4,557.67	1/2	4,215.10	1/2	3,856.02	1/2	3,482.21	1/2	3,105.46	1/2	2,727.50
3/4		3/4		3/4		3/4	4,883.69	3/4	4,550.69	3/4	4,207.78	3/4	3,848.36	3/4	3,474.37	3/4	3,097.58	3/4	2,719.63
3		3		3		3	4,875.85	3	4,543.72	3	4,200.46	3	3,840.69	3	3,466.53	3	3,089.71	3	2,711.75
1/4		1/4		1/4		1/4	4,868.01	1/4	4,536.74	1/4	4,193.13	1/4	3,833.03	1/4	3,458.69	1/4	3,081.83	1/4	2,703.88
1/2		1/2		1/2		1/2	4,860.17	1/2	4,529.76	1/2	4,185.81	1/2	3,825.36	1/2	3,450.85	1/2	3,073.96	1/2	2,696.00
3/4		3/4		3/4		3/4	4,852.77	3/4	4,522.75	3/4	4,178.46	3/4	3,817.67	3/4	3,443.01	3/4	3,066.09	3/4	2,688.13
4		4		4		4	4,845.36	4	4,515.75	4	4,171.11	4	3,809.97	4	3,435.17	4	3,058.21	4	2,680.25
1/4		1/4		1/4		1/4	4,837.96	1/4	4,508.74	1/4	4,163.76	1/4	3,802.28	1/4	3,427.33	1/4	3,050.34	1/4	2,672.38
1/2		1/2		1/2		1/2	4,830.55	1/2	4,501.73	1/2	4,156.41	1/2	3,794.58	1/2	3,419.50	1/2	3,042.46	1/2	2,664.51
3/4		3/4		3/4		3/4	4,823.86	3/4	4,494.70	3/4	4,149.03	3/4	3,786.86	3/4	3,411.66	3/4	3,034.59	3/4	2,656.63
5		5		5		5	4,817.16	5	4,487.66	5	4,141.65	5	3,779.14	5	3,403.82	5	3,026.72	5	2,648.76
1/4		1/4		1/4		1/4	4,810.47	1/4	4,480.63	1/4	4,134.27	1/4	3,771.41	1/4	3,395.98	1/4	3,018.84	1/4	2,640.88
1/2		1/2		1/2		1/2	4,803.78	1/2	4,473.59	1/2	4,126.89	1/2	3,763.69	1/2	3,388.14	1/2	3,010.97	1/2	2,633.01
3/4		3/4		3/4		3/4	4,797.06	3/4	4,466.52	3/4	4,119.48	3/4	3,755.94	3/4	3,380.30	3/4	3,003.09	3/4	2,625.14
6		6		6		6	4,790.34	6	4,459.46	6	4,112.08	6	3,748.19	6	3,372.46	6	2,995.22	6	2,617.26
1/4		1/4		1/4		1/4	4,783.62	1/4	4,452.39	1/4	4,104.67	1/4	3,740.43	1/4	3,364.62	1/4	2,987.34	1/4	2,609.39
1/2		1/2		1/2		1/2	4,776.89	1/2	4,445.33	1/2	4,097.26	1/2	3,732.68	1/2	3,356.78	1/2	2,979.47	1/2	2,601.51
3/4		3/4		3/4		3/4	4,770.14	3/4	4,438.24	3/4	4,089.82	3/4	3,724.90	3/4	3,348.94	3/4	2,971.60	3/4	2,593.64
7		7		7		7	4,763.39	7	4,431.14	7	4,082.38	7	3,717.12	7	3,341.10	7	2,963.72	7	2,585.77
1/4		1/4		1/4		1/4	4,756.64	1/4	4,424.05	1/4	4,074.95	1/4	3,709.34	1/4	3,333.26	1/4	2,955.85	1/4	2,577.89
1/2		1/2		1/2		1/2	4,749.89	1/2	4,416.96	1/2	4,067.51	1/2	3,701.56	1/2	3,325.43	1/2	2,947.97	1/2	2,570.02
3/4		3/4		3/4		3/4	4,743.11	3/4	4,409.83	3/4	4,060.04	3/4	3,693.75	3/4	3,317.59	3/4	2,940.10	3/4	2,562.14
8		8		8		8	4,736.33	8	4,402.71	8	4,052.58	8	3,685.94	8	3,309.75	8	2,932.23	8	2,554.27
1/4		1/4		1/4		1/4	4,729.55	1/4	4,395.58	1/4	4,045.11	1/4	3,678.13	1/4	3,301.91	1/4	2,924.35	1/4	2,546.39
1/2		1/2		1/2		1/2	4,722.77	1/2	4,388.46	1/2	4,037.65	1/2	3,670.32	1/2	3,294.07	1/2	2,916.48	1/2	2,538.52
3/4		3/4		3/4		3/4	4,715.96	3/4	4,381.31	3/4	4,030.15	3/4	3,662.49	3/4	3,286.23	3/4	2,908.60	3/4	2,530.65
9		9		9		9	4,709.15	9	4,374.16	9	4,022.65	9	3,654.66	9	3,278.39	9	2,900.73	9	2,522.77
1/4		1/4		1/4		1/4	4,702.34	1/4	4,367.01	1/4	4,015.16	1/4	3,646.82	1/4	3,270.55	1/4	2,892.86	1/4	2,514.90
1/2		1/2		1/2		1/2	4,695.54	1/2	4,359.85	1/2	4,007.66	1/2	3,638.99	1/2	3,262.71	1/2	2,884.98	1/2	2,507.02
3/4		3/4		3/4		3/4	4,688.70	3/4	4,352.67	3/4	4,000.14	3/4	3,631.15	3/4	3,254.87	3/4	2,877.11	3/4	2,499.15
10		10		10		10	4,681.86	10	4,345.49	10	3,992.61	10	3,623.31	10	3,247.03	10	2,869.23	10	2,491.28
1/4		1/4		1/4		1/4	4,675.02	1/4	4,338.31	1/4	3,985.09	1/4	3,615.48	1/4	3,239.19	1/4	2,861.36	1/4	2,483.40
1/2		1/2		1/2		1/2	4,668.19	1/2	4,331.13	1/2	3,977.57	1/2	3,607.64	1/2	3,231.35	1/2	2,853.48	1/2	2,475.53
3/4		3/4		3/4		3/4	4,661.32	3/4	4,323.92	3/4	3,970.01	3/4	3,599.80	3/4	3,223.50	3/4	2,845.61	3/4	2,467.65
11		11		11		11	4,654.45	11	4,316.71	11	3,962.46	11	3,591.96	11	3,215.65	11	2,837.74	11	2,459.78
1/4		1/4		1/4		1/4	4,647.58	1/4	4,309.50	1/4	3,954.90	1/4	3,584.12	1/4	3,207.80	1/4	2,829.86	1/4	2,451.91
1/2		1/2		1/2		1/2	4,640.71	1/2	4,302.29	1/2	3,947.35	1/2	3,576.28	1/2	3,199.95	1/2	2,821.99	1/2	2,444.03
3/4		3/4		3/4		3/4	4,633.82	3/4	4,295.05	3/4	3,939.77	3/4	3,568.44	3/4	3,192.07	3/4	2,814.11	3/4	2,436.16

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'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28196"

1 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	2,428.28	0	2,050.33	0	1,672.37	0	1,294.41	0	916.74	0	538.92	0	189.42	0		0		0	
1/4	2,420.41	1/4	2,042.45	1/4	1,664.50	1/4	1,286.54	1/4	908.88	1/4	531.05	1/4	182.79	1/4		1/4		1/4	
1/2	2,412.54	1/2	2,034.58	1/2	1,656.62	1/2	1,278.66	1/2	901.02	1/2	523.19	1/2	176.16	1/2		1/2		1/2	
3/4	2,404.66	3/4	2,026.70	3/4	1,648.75	3/4	1,270.79	3/4	893.16	3/4	515.37	3/4	169.65	3/4		3/4		3/4	
1	2,396.79	1	2,018.83	1	1,640.87	1	1,262.92	1	885.29	1	507.56	1	163.13	1		1		1	
1/4	2,388.91	1/4	2,010.96	1/4	1,633.00	1/4	1,255.04	1/4	877.43	1/4	499.74	1/4	156.61	1/4		1/4		1/4	
1/2	2,381.04	1/2	2,003.08	1/2	1,625.13	1/2	1,247.17	1/2	869.57	1/2	491.93	1/2	150.09	1/2		1/2		1/2	
3/4	2,373.16	3/4	1,995.21	3/4	1,617.25	3/4	1,239.29	3/4	861.70	3/4	484.20	3/4	143.69	3/4		3/4		3/4	
2	2,365.29	2	1,987.33	2	1,609.38	2	1,231.42	2	853.84	2	476.48	2	137.29	2		2		2	
1/4	2,357.42	1/4	1,979.46	1/4	1,601.50	1/4	1,223.55	1/4	845.97	1/4	468.76	1/4	130.89	1/4		1/4		1/4	
1/2	2,349.54	1/2	1,971.59	1/2	1,593.63	1/2	1,215.67	1/2	838.11	1/2	461.03	1/2	124.48	1/2		1/2		1/2	
3/4	2,341.67	3/4	1,963.71	3/4	1,585.75	3/4	1,207.80	3/4	830.23	3/4	453.42	3/4	118.20	3/4		3/4		3/4	
3	2,333.79	3	1,955.84	3	1,577.88	3	1,199.92	3	822.36	3	445.81	3	111.92	3		3		3	
1/4	2,325.92	1/4	1,947.96	1/4	1,570.01	1/4	1,192.05	1/4	814.48	1/4	438.19	1/4	105.64	1/4		1/4		1/4	
1/2	2,318.05	1/2	1,940.09	1/2	1,562.13	1/2	1,184.18	1/2	806.61	1/2	430.58	1/2	99.36	1/2		1/2		1/2	
3/4	2,310.17	3/4	1,932.22	3/4	1,554.26	3/4	1,176.30	3/4	798.74	3/4	423.07	3/4	93.21	3/4		3/4		3/4	
4	2,302.30	4	1,924.34	4	1,546.38	4	1,168.43	4	790.86	4	415.57	4	87.06	4		4		4	
1/4	2,294.42	1/4	1,916.47	1/4	1,538.51	1/4	1,160.55	1/4	782.99	1/4	408.06	1/4	80.91	1/4		1/4		1/4	
1/2	2,286.55	1/2	1,908.59	1/2	1,530.64	1/2	1,152.68	1/2	775.11	1/2	400.56	1/2	74.75	1/2		1/2		1/2	
3/4	2,278.68	3/4	1,900.72	3/4	1,522.76	3/4	1,144.81	3/4	767.24	3/4	393.16	3/4	68.74	3/4		3/4		3/4	
5	2,270.80	5	1,892.84	5	1,514.89	5	1,136.93	5	759.37	5	385.77	5	62.73	5		5		5	
1/4	2,262.93	1/4	1,884.97	1/4	1,507.01	1/4	1,129.06	1/4	751.49	1/4	378.37	1/4	56.72	1/4		1/4		1/4	
1/2	2,255.05	1/2	1,877.10	1/2	1,499.14	1/2	1,121.18	1/2	743.62	1/2	370.98	1/2	50.71	1/2		1/2		1/2	
3/4	2,247.18	3/4	1,869.22	3/4	1,491.27	3/4	1,113.31	3/4	735.74	3/4	363.69	3/4	45.30	3/4		3/4		3/4	
6	2,239.31	6	1,861.35	6	1,483.39	6	1,105.44	6	727.87	6	356.41	6	39.88	6		6		6	
1/4	2,231.43	1/4	1,853.47	1/4	1,475.52	1/4	1,097.58	1/4	720.00	1/4	349.12	1/4	34.46	1/4		1/4		1/4	
1/2	2,223.56	1/2	1,845.60	1/2	1,467.64	1/2	1,089.71	1/2	712.12	1/2	341.83	1/2	29.04	1/2		1/2		1/2	
3/4	2,215.68	3/4	1,837.73	3/4	1,459.77	3/4	1,081.84	3/4	704.25	3/4	334.66	3/4	25.08	3/4		3/4		3/4	
7	2,207.81	7	1,829.85	7	1,451.90	7	1,073.98	7	696.38	7	327.48	7	21.12	7		7		7	
1/4	2,199.93	1/4	1,821.98	1/4	1,444.02	1/4	1,066.12	1/4	688.50	1/4	320.30	1/4	17.15	1/4		1/4		1/4	
1/2	2,192.06	1/2	1,814.10	1/2	1,436.15	1/2	1,058.26	1/2	680.63	1/2	313.13	1/2	13.19	1/2		1/2		1/2	
3/4	2,184.19	3/4	1,806.23	3/4	1,428.27	3/4	1,050.40	3/4	672.75	3/4	306.06	3/4		3/4		3/4		3/4	
8	2,176.31	8	1,798.36	8	1,420.40	8	1,042.53	8	664.88	8	298.99	8		8		8		8	
1/4	2,168.44	1/4	1,790.48	1/4	1,412.52	1/4	1,034.67	1/4	657.01	1/4	291.93	1/4		1/4		1/4		1/4	
1/2	2,160.56	1/2	1,782.61	1/2	1,404.65	1/2	1,026.81	1/2	649.13	1/2	284.86	1/2		1/2		1/2		1/2	
3/4	2,152.69	3/4	1,774.73	3/4	1,396.78	3/4	1,018.95	3/4	641.26	3/4	277.90	3/4		3/4		3/4		3/4	
9	2,144.82	9	1,766.86	9	1,388.90	9	1,011.09	9	633.38	9	270.94	9		9		9		9	
1/4	2,136.94	1/4	1,758.98	1/4	1,381.03	1/4	1,003.22	1/4	625.51	1/4	263.99	1/4		1/4		1/4		1/4	
1/2	2,129.07	1/2	1,751.11	1/2	1,373.15	1/2	995.36	1/2	617.64	1/2	257.03	1/2		1/2		1/2		1/2	
3/4	2,121.19	3/4	1,743.24	3/4	1,365.28	3/4	987.50	3/4	609.76	3/4	250.18	3/4		3/4		3/4		3/4	
10	2,113.32	10	1,735.36	10	1,357.41	10	979.64	10	601.89	10	243.33	10		10		10		10	
1/4	2,105.45	1/4	1,727.49	1/4	1,349.53	1/4	971.78	1/4	594.01	1/4	236.48	1/4		1/4		1/4		1/4	
1/2	2,097.57	1/2	1,719.61	1/2	1,341.66	1/2	963.91	1/2	586.14	1/2	229.64	1/2		1/2		1/2		1/2	
3/4	2,089.70	3/4	1,711.74	3/4	1,333.78	3/4	956.05	3/4	578.27	3/4	222.90	3/4		3/4		3/4		3/4	
11	2,081.82	11	1,703.87	11	1,325.91	11	948.19	11	570.39	11	216.16	11		11		11		11	
1/4	2,073.95	1/4	1,695.99	1/4	1,318.04	1/4	940.33	1/4	562.52	1/4	209.42	1/4		1/4		1/4		1/4	
1/2	2,066.07	1/2	1,688.12	1/2	1,310.16	1/2	932.47	1/2	554.64	1/2	202.68	1/2		1/2		1/2		1/2	
3/4	2,058.20	3/4	1,680.24	3/4	1,302.29	3/4	924.60	3/4	546.78	3/4	196.05	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 SW
CALCULATED: 11/20/2013 CL
VERIFIED: 01/26/2024 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2024



BARGE "KIRBY 28196"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,456.74	0	4,133.52	0	3,795.15	0	3,442.08	0	3,084.36	0	2,725.19
1/4		1/4		1/4		1/4	4,767.27	1/4	4,450.16	1/4	4,126.62	1/4	3,787.94	1/4	3,434.63	1/4	3,076.88	1/4	2,717.71
1/2		1/2		1/2		1/2	4,762.16	1/2	4,443.58	1/2	4,119.72	1/2	3,780.72	1/2	3,427.18	1/2	3,069.39	1/2	2,710.22
3/4		3/4		3/4		3/4	4,757.05	3/4	4,437.00	3/4	4,112.81	3/4	3,773.51	3/4	3,419.73	3/4	3,061.91	3/4	2,702.74
1		1		1		1	4,750.70	1	4,430.39	1	4,105.89	1	3,766.27	1	3,412.27	1	3,054.43	1	2,695.26
1/4		1/4		1/4		1/4	4,744.36	1/4	4,423.79	1/4	4,098.97	1/4	3,759.02	1/4	3,404.82	1/4	3,046.94	1/4	2,687.77
1/2		1/2		1/2		1/2	4,738.02	1/2	4,417.18	1/2	4,092.04	1/2	3,751.78	1/2	3,397.37	1/2	3,039.46	1/2	2,680.29
3/4		3/4		3/4		3/4	4,731.67	3/4	4,410.57	3/4	4,085.12	3/4	3,744.54	3/4	3,389.92	3/4	3,031.98	3/4	2,672.81
2		2		2		2	4,724.44	2	4,403.94	2	4,078.17	2	3,737.27	2	3,382.47	2	3,024.50	2	2,665.33
1/4		1/4		1/4		1/4	4,717.21	1/4	4,397.30	1/4	4,071.22	1/4	3,730.01	1/4	3,375.02	1/4	3,017.01	1/4	2,657.84
1/2		1/2		1/2		1/2	4,709.98	1/2	4,390.67	1/2	4,064.27	1/2	3,722.74	1/2	3,367.57	1/2	3,009.53	1/2	2,650.36
3/4		3/4		3/4		3/4	4,702.75	3/4	4,384.03	3/4	4,057.33	3/4	3,715.48	3/4	3,360.12	3/4	3,002.05	3/4	2,642.88
3		3		3		3	4,695.30	3	4,377.37	3	4,050.35	3	3,708.19	3	3,352.67	3	2,994.57	3	2,635.40
1/4		1/4		1/4		1/4	4,687.85	1/4	4,370.71	1/4	4,043.37	1/4	3,700.90	1/4	3,345.22	1/4	2,987.08	1/4	2,627.91
1/2		1/2		1/2		1/2	4,680.40	1/2	4,364.05	1/2	4,036.40	1/2	3,693.61	1/2	3,337.77	1/2	2,979.60	1/2	2,620.43
3/4		3/4		3/4		3/4	4,672.95	3/4	4,357.39	3/4	4,029.42	3/4	3,686.31	3/4	3,330.32	3/4	2,972.12	3/4	2,612.95
4		4		4		4	4,665.90	4	4,350.71	4	4,022.42	4	3,679.00	4	3,322.87	4	2,964.63	4	2,605.47
1/4		1/4		1/4		1/4	4,658.84	1/4	4,344.02	1/4	4,015.42	1/4	3,671.68	1/4	3,315.42	1/4	2,957.15	1/4	2,597.98
1/2		1/2		1/2		1/2	4,651.79	1/2	4,337.33	1/2	4,008.41	1/2	3,664.36	1/2	3,307.97	1/2	2,949.67	1/2	2,590.50
3/4		3/4		3/4		3/4	4,644.74	3/4	4,330.64	3/4	4,001.41	3/4	3,657.04	3/4	3,300.52	3/4	2,942.19	3/4	2,583.02
5		5		5		5	4,638.34	5	4,323.93	5	3,994.38	5	3,649.70	5	3,293.07	5	2,934.70	5	2,575.53
1/4		1/4		1/4		1/4	4,631.94	1/4	4,317.22	1/4	3,987.35	1/4	3,642.36	1/4	3,285.61	1/4	2,927.22	1/4	2,568.05
1/2		1/2		1/2		1/2	4,625.54	1/2	4,310.50	1/2	3,980.33	1/2	3,635.01	1/2	3,278.16	1/2	2,919.74	1/2	2,560.57
3/4		3/4		3/4		3/4	4,619.14	3/4	4,303.79	3/4	3,973.30	3/4	3,627.67	3/4	3,270.71	3/4	2,912.26	3/4	2,553.09
6		6		6		6	4,612.72	6	4,297.05	6	3,966.24	6	3,620.30	6	3,263.26	6	2,904.77	6	2,545.60
1/4		1/4		1/4		1/4	4,606.29	1/4	4,290.31	1/4	3,959.19	1/4	3,612.93	1/4	3,255.81	1/4	2,897.29	1/4	2,538.12
1/2		1/2		1/2		1/2	4,599.87	1/2	4,283.57	1/2	3,952.13	1/2	3,605.56	1/2	3,248.36	1/2	2,889.81	1/2	2,530.64
3/4		3/4		3/4		3/4	4,593.44	3/4	4,276.83	3/4	3,945.08	3/4	3,598.18	3/4	3,240.91	3/4	2,882.32	3/4	2,523.16
7		7		7		7	4,586.99	7	4,270.06	7	3,937.99	7	3,590.79	7	3,233.46	7	2,874.84	7	2,515.67
1/4		1/4		1/4		1/4	4,580.54	1/4	4,263.29	1/4	3,930.91	1/4	3,583.39	1/4	3,226.01	1/4	2,867.36	1/4	2,508.19
1/2		1/2		1/2		1/2	4,574.08	1/2	4,256.53	1/2	3,923.83	1/2	3,575.99	1/2	3,218.56	1/2	2,859.88	1/2	2,500.71
3/4		3/4		3/4		3/4	4,567.63	3/4	4,249.76	3/4	3,916.75	3/4	3,568.60	3/4	3,211.11	3/4	2,852.39	3/4	2,493.22
8		8		8		8	4,561.15	8	4,242.97	8	3,909.64	8	3,561.17	8	3,203.66	8	2,844.91	8	2,485.74
1/4		1/4		1/4		1/4	4,554.67	1/4	4,236.17	1/4	3,902.53	1/4	3,553.75	1/4	3,196.21	1/4	2,837.43	1/4	2,478.26
1/2		1/2		1/2		1/2	4,548.20	1/2	4,229.38	1/2	3,895.42	1/2	3,546.33	1/2	3,188.76	1/2	2,829.95	1/2	2,470.78
3/4		3/4		3/4		3/4	4,541.72	3/4	4,222.58	3/4	3,888.31	3/4	3,538.90	3/4	3,181.31	3/4	2,822.46	3/4	2,463.29
9		9		9		9	4,535.21	9	4,215.76	9	3,881.18	9	3,531.46	9	3,173.86	9	2,814.98	9	2,455.81
1/4		1/4		1/4		1/4	4,528.70	1/4	4,208.94	1/4	3,874.04	1/4	3,524.02	1/4	3,166.40	1/4	2,807.50	1/4	2,448.33
1/2		1/2		1/2		1/2	4,522.20	1/2	4,202.12	1/2	3,866.91	1/2	3,516.57	1/2	3,158.95	1/2	2,800.02	1/2	2,440.85
3/4		3/4		3/4		3/4	4,515.69	3/4	4,195.30	3/4	3,859.77	3/4	3,509.13	3/4	3,151.50	3/4	2,792.53	3/4	2,433.36
10		10		10		10	4,509.16	10	4,188.46	10	3,852.61	10	3,501.68	10	3,144.05	10	2,785.05	10	2,425.88
1/4		1/4		1/4		1/4	4,502.63	1/4	4,181.61	1/4	3,845.45	1/4	3,494.23	1/4	3,136.60	1/4	2,777.57	1/4	2,418.40
1/2		1/2		1/2		1/2	4,496.10	1/2	4,174.76	1/2	3,838.29	1/2	3,486.78	1/2	3,129.15	1/2	2,770.08	1/2	2,410.91
3/4		3/4		3/4		3/4	4,489.57	3/4	4,167.91	3/4	3,831.13	3/4	3,479.33	3/4	3,121.70	3/4	2,762.60	3/4	2,403.43
11		11		11		11	4,483.01	11	4,161.04	11	3,823.94	11	3,471.88	11	3,114.24	11	2,755.12	11	2,395.95
1/4		1/4		1/4		1/4	4,476.45	1/4	4,154.17	1/4	3,816.75	1/4	3,464.43	1/4	3,106.77	1/4	2,747.64	1/4	2,388.47
1/2		1/2		1/2		1/2	4,469.89	1/2	4,147.29	1/2	3,809.56	1/2	3,456.98	1/2	3,099.31	1/2	2,740.15	1/2	2,380.98
3/4		3/4		3/4		3/4	4,463.33	3/4	4,140.42	3/4	3,802.37	3/4	3,449.53	3/4	3,091.84	3/4	2,732.67	3/4	2,373.50

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'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28196"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,366.02	0	2,006.85	0	1,647.68	0	1,297.14	0	952.18	0	594.68	0	235.52	0		0		0	
1/4	2,358.54	1/4	1,999.37	1/4	1,640.20	1/4	1,289.94	1/4	945.00	1/4	587.20	1/4	228.04	1/4		1/4		1/4	
1/2	2,351.05	1/2	1,991.88	1/2	1,632.71	1/2	1,282.74	1/2	937.82	1/2	579.72	1/2	220.56	1/2		1/2		1/2	
3/4	2,343.57	3/4	1,984.40	3/4	1,625.23	3/4	1,275.54	3/4	930.64	3/4	572.24	3/4	213.08	3/4		3/4		3/4	
1	2,336.09	1	1,976.92	1	1,617.75	1	1,268.34	1	923.35	1	564.75	1	205.60	1		1		1	
1/4	2,328.61	1/4	1,969.44	1/4	1,610.27	1/4	1,261.14	1/4	916.05	1/4	557.27	1/4	198.12	1/4		1/4		1/4	
1/2	2,321.12	1/2	1,961.95	1/2	1,602.78	1/2	1,253.94	1/2	908.76	1/2	549.79	1/2	190.64	1/2		1/2		1/2	
3/4	2,313.64	3/4	1,954.47	3/4	1,595.30	3/4	1,246.74	3/4	901.47	3/4	542.31	3/4	183.15	3/4		3/4		3/4	
2	2,306.16	2	1,946.99	2	1,587.82	2	1,239.54	2	893.98	2	534.82	2	175.68	2		2		2	
1/4	2,298.67	1/4	1,939.50	1/4	1,580.34	1/4	1,232.34	1/4	886.50	1/4	527.34	1/4	168.21	1/4		1/4		1/4	
1/2	2,291.19	1/2	1,932.02	1/2	1,572.85	1/2	1,225.14	1/2	879.02	1/2	519.86	1/2	160.73	1/2		1/2		1/2	
3/4	2,283.71	3/4	1,924.54	3/4	1,565.37	3/4	1,217.94	3/4	871.54	3/4	512.38	3/4	153.26	3/4		3/4		3/4	
3	2,276.23	3	1,917.06	3	1,557.89	3	1,210.75	3	864.05	3	504.89	3	145.80	3		3		3	
1/4	2,268.74	1/4	1,909.57	1/4	1,550.40	1/4	1,203.55	1/4	856.57	1/4	497.41	1/4	138.33	1/4		1/4		1/4	
1/2	2,261.26	1/2	1,902.09	1/2	1,542.92	1/2	1,196.36	1/2	849.09	1/2	489.93	1/2	130.87	1/2		1/2		1/2	
3/4	2,253.78	3/4	1,894.61	3/4	1,535.44	3/4	1,189.16	3/4	841.61	3/4	482.45	3/4	123.41	3/4		3/4		3/4	
4	2,246.30	4	1,887.13	4	1,528.06	4	1,181.98	4	834.12	4	474.96	4	115.96	4		4		4	
1/4	2,238.81	1/4	1,879.64	1/4	1,520.68	1/4	1,174.79	1/4	826.64	1/4	467.48	1/4	108.52	1/4		1/4		1/4	
1/2	2,231.33	1/2	1,872.16	1/2	1,513.31	1/2	1,167.60	1/2	819.16	1/2	460.00	1/2	101.07	1/2		1/2		1/2	
3/4	2,223.85	3/4	1,864.68	3/4	1,505.93	3/4	1,160.41	3/4	811.68	3/4	452.52	3/4	93.63	3/4		3/4		3/4	
5	2,216.36	5	1,857.20	5	1,498.73	5	1,153.23	5	804.19	5	445.03	5	86.21	5		5		5	
1/4	2,208.88	1/4	1,849.71	1/4	1,491.53	1/4	1,146.05	1/4	796.71	1/4	437.55	1/4	78.80	1/4		1/4		1/4	
1/2	2,201.40	1/2	1,842.23	1/2	1,484.33	1/2	1,138.86	1/2	789.23	1/2	430.07	1/2	71.39	1/2		1/2		1/2	
3/4	2,193.92	3/4	1,834.75	3/4	1,477.13	3/4	1,131.68	3/4	781.75	3/4	422.59	3/4	63.97	3/4		3/4		3/4	
6	2,186.43	6	1,827.26	6	1,469.93	6	1,124.50	6	774.26	6	415.10	6	57.02	6		6		6	
1/4	2,178.95	1/4	1,819.78	1/4	1,462.73	1/4	1,117.32	1/4	766.78	1/4	407.62	1/4	50.07	1/4		1/4		1/4	
1/2	2,171.47	1/2	1,812.30	1/2	1,455.53	1/2	1,110.14	1/2	759.30	1/2	400.14	1/2	43.11	1/2		1/2		1/2	
3/4	2,163.99	3/4	1,804.82	3/4	1,448.33	3/4	1,102.96	3/4	751.82	3/4	392.66	3/4	36.16	3/4		3/4		3/4	
7	2,156.50	7	1,797.33	7	1,441.13	7	1,095.78	7	744.33	7	385.17	7	30.86	7		7		7	
1/4	2,149.02	1/4	1,789.85	1/4	1,433.93	1/4	1,088.60	1/4	736.85	1/4	377.69	1/4	25.56	1/4		1/4		1/4	
1/2	2,141.54	1/2	1,782.37	1/2	1,426.73	1/2	1,081.42	1/2	729.37	1/2	370.21	1/2	20.26	1/2		1/2		1/2	
3/4	2,134.05	3/4	1,774.89	3/4	1,419.53	3/4	1,074.24	3/4	721.89	3/4	362.73	3/4	14.97	3/4		3/4		3/4	
8	2,126.57	8	1,767.40	8	1,412.33	8	1,067.06	8	714.40	8	355.24	8		8		8		8	
1/4	2,119.09	1/4	1,759.92	1/4	1,405.14	1/4	1,059.88	1/4	706.92	1/4	347.76	1/4		1/4		1/4		1/4	
1/2	2,111.61	1/2	1,752.44	1/2	1,397.94	1/2	1,052.70	1/2	699.44	1/2	340.28	1/2		1/2		1/2		1/2	
3/4	2,104.12	3/4	1,744.95	3/4	1,390.74	3/4	1,045.52	3/4	691.96	3/4	332.80	3/4		3/4		3/4		3/4	
9	2,096.64	9	1,737.47	9	1,383.54	9	1,038.34	9	684.47	9	325.31	9		9		9		9	
1/4	2,089.16	1/4	1,729.99	1/4	1,376.34	1/4	1,031.16	1/4	676.99	1/4	317.83	1/4		1/4		1/4		1/4	
1/2	2,081.68	1/2	1,722.51	1/2	1,369.14	1/2	1,023.98	1/2	669.51	1/2	310.35	1/2		1/2		1/2		1/2	
3/4	2,074.19	3/4	1,715.02	3/4	1,361.94	3/4	1,016.80	3/4	662.03	3/4	302.87	3/4		3/4		3/4		3/4	
10	2,066.71	10	1,707.54	10	1,354.74	10	1,009.62	10	654.54	10	295.38	10		10		10		10	
1/4	2,059.23	1/4	1,700.06	1/4	1,347.54	1/4	1,002.44	1/4	647.06	1/4	287.90	1/4		1/4		1/4		1/4	
1/2	2,051.75	1/2	1,692.58	1/2	1,340.34	1/2	995.26	1/2	639.58	1/2	280.42	1/2		1/2		1/2		1/2	
3/4	2,044.26	3/4	1,685.09	3/4	1,333.14	3/4	988.08	3/4	632.10	3/4	272.94	3/4		3/4		3/4		3/4	
11	2,036.78	11	1,677.61	11	1,325.94	11	980.90	11	624.61	11	265.45	11		11		11		11	
1/4	2,029.30	1/4	1,670.13	1/4	1,318.74	1/4	973.72	1/4	617.13	1/4	257.97	1/4		1/4		1/4		1/4	
1/2	2,021.81	1/2	1,662.64	1/2	1,311.54	1/2	966.54	1/2	609.65	1/2	250.49	1/2		1/2		1/2		1/2	
3/4	2,014.33	3/4	1,655.16	3/4	1,304.34	3/4	959.36	3/4	602.17	3/4	243.01	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 SW
CALCULATED: 11/20/2013 CL
VERIFIED: 01/26/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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BARGE "KIRBY 28196"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,480.87	0	4,157.64	0	3,819.28	0	3,466.20	0	3,108.50	0	2,749.33
1/4		1/4		1/4		1/4	4,791.40	1/4	4,474.29	1/4	4,150.74	1/4	3,812.06	1/4	3,458.75	1/4	3,101.02	1/4	2,741.85
1/2		1/2		1/2		1/2	4,786.28	1/2	4,467.70	1/2	4,143.84	1/2	3,804.85	1/2	3,451.30	1/2	3,093.54	1/2	2,734.36
3/4		3/4		3/4		3/4	4,781.17	3/4	4,461.12	3/4	4,136.94	3/4	3,797.63	3/4	3,443.85	3/4	3,086.06	3/4	2,726.88
1		1		1		1	4,774.83	1	4,454.52	1	4,130.01	1	3,790.39	1	3,436.40	1	3,078.57	1	2,719.40
1/4		1/4		1/4		1/4	4,768.48	1/4	4,447.91	1/4	4,123.09	1/4	3,783.15	1/4	3,428.95	1/4	3,071.09	1/4	2,711.92
1/2		1/2		1/2		1/2	4,762.14	1/2	4,441.30	1/2	4,116.17	1/2	3,775.90	1/2	3,421.50	1/2	3,063.61	1/2	2,704.43
3/4		3/4		3/4		3/4	4,755.80	3/4	4,434.69	3/4	4,109.24	3/4	3,768.66	3/4	3,414.05	3/4	3,056.12	3/4	2,696.95
2		2		2		2	4,748.57	2	4,428.06	2	4,102.30	2	3,761.40	2	3,406.59	2	3,048.64	2	2,689.47
1/4		1/4		1/4		1/4	4,741.33	1/4	4,421.43	1/4	4,095.35	1/4	3,754.13	1/4	3,399.14	1/4	3,041.16	1/4	2,681.98
1/2		1/2		1/2		1/2	4,734.10	1/2	4,414.79	1/2	4,088.40	1/2	3,746.87	1/2	3,391.69	1/2	3,033.68	1/2	2,674.50
3/4		3/4		3/4		3/4	4,726.87	3/4	4,408.16	3/4	4,081.45	3/4	3,739.60	3/4	3,384.24	3/4	3,026.19	3/4	2,667.02
3		3		3		3	4,719.42	3	4,401.50	3	4,074.47	3	3,732.31	3	3,376.79	3	3,018.71	3	2,659.54
1/4		1/4		1/4		1/4	4,711.97	1/4	4,394.84	1/4	4,067.50	1/4	3,725.02	1/4	3,369.34	1/4	3,011.23	1/4	2,652.05
1/2		1/2		1/2		1/2	4,704.52	1/2	4,388.18	1/2	4,060.52	1/2	3,717.73	1/2	3,361.89	1/2	3,003.74	1/2	2,644.57
3/4		3/4		3/4		3/4	4,697.07	3/4	4,381.52	3/4	4,053.54	3/4	3,710.44	3/4	3,354.44	3/4	2,996.26	3/4	2,637.09
4		4		4		4	4,690.02	4	4,374.83	4	4,046.54	4	3,703.12	4	3,346.99	4	2,988.78	4	2,629.60
1/4		1/4		1/4		1/4	4,682.97	1/4	4,368.14	1/4	4,039.54	1/4	3,695.80	1/4	3,339.54	1/4	2,981.30	1/4	2,622.12
1/2		1/2		1/2		1/2	4,675.91	1/2	4,361.45	1/2	4,032.54	1/2	3,688.48	1/2	3,332.09	1/2	2,973.81	1/2	2,614.64
3/4		3/4		3/4		3/4	4,668.86	3/4	4,354.77	3/4	4,025.54	3/4	3,681.17	3/4	3,324.64	3/4	2,966.33	3/4	2,607.16
5		5		5		5	4,662.46	5	4,348.05	5	4,018.51	5	3,673.82	5	3,317.19	5	2,958.85	5	2,599.67
1/4		1/4		1/4		1/4	4,656.06	1/4	4,341.34	1/4	4,011.48	1/4	3,666.48	1/4	3,309.74	1/4	2,951.36	1/4	2,592.19
1/2		1/2		1/2		1/2	4,649.66	1/2	4,334.63	1/2	4,004.45	1/2	3,659.14	1/2	3,302.29	1/2	2,943.88	1/2	2,584.71
3/4		3/4		3/4		3/4	4,643.26	3/4	4,327.91	3/4	3,997.42	3/4	3,651.79	3/4	3,294.84	3/4	2,936.40	3/4	2,577.22
6		6		6		6	4,636.84	6	4,321.17	6	3,990.36	6	3,644.42	6	3,287.39	6	2,928.92	6	2,569.74
1/4		1/4		1/4		1/4	4,630.41	1/4	4,314.43	1/4	3,983.31	1/4	3,637.05	1/4	3,279.93	1/4	2,921.43	1/4	2,562.26
1/2		1/2		1/2		1/2	4,623.99	1/2	4,307.69	1/2	3,976.25	1/2	3,629.68	1/2	3,272.48	1/2	2,913.95	1/2	2,554.78
3/4		3/4		3/4		3/4	4,617.56	3/4	4,300.95	3/4	3,969.20	3/4	3,622.31	3/4	3,265.03	3/4	2,906.47	3/4	2,547.29
7		7		7		7	4,611.11	7	4,294.18	7	3,962.12	7	3,614.91	7	3,257.58	7	2,898.99	7	2,539.81
1/4		1/4		1/4		1/4	4,604.66	1/4	4,287.42	1/4	3,955.03	1/4	3,607.51	1/4	3,250.13	1/4	2,891.50	1/4	2,532.33
1/2		1/2		1/2		1/2	4,598.21	1/2	4,280.65	1/2	3,947.95	1/2	3,600.12	1/2	3,242.68	1/2	2,884.02	1/2	2,524.85
3/4		3/4		3/4		3/4	4,591.75	3/4	4,273.88	3/4	3,940.87	3/4	3,592.72	3/4	3,235.23	3/4	2,876.54	3/4	2,517.36
8		8		8		8	4,585.27	8	4,267.09	8	3,933.76	8	3,585.30	8	3,227.78	8	2,869.05	8	2,509.88
1/4		1/4		1/4		1/4	4,578.80	1/4	4,260.29	1/4	3,926.65	1/4	3,577.87	1/4	3,220.33	1/4	2,861.57	1/4	2,502.40
1/2		1/2		1/2		1/2	4,572.32	1/2	4,253.50	1/2	3,919.55	1/2	3,570.45	1/2	3,212.88	1/2	2,854.09	1/2	2,494.91
3/4		3/4		3/4		3/4	4,565.84	3/4	4,246.71	3/4	3,912.44	3/4	3,563.03	3/4	3,205.43	3/4	2,846.61	3/4	2,487.43
9		9		9		9	4,559.33	9	4,239.89	9	3,905.30	9	3,555.58	9	3,197.98	9	2,839.12	9	2,479.95
1/4		1/4		1/4		1/4	4,552.83	1/4	4,233.07	1/4	3,898.17	1/4	3,548.14	1/4	3,190.53	1/4	2,831.64	1/4	2,472.47
1/2		1/2		1/2		1/2	4,546.32	1/2	4,226.25	1/2	3,891.03	1/2	3,540.70	1/2	3,183.08	1/2	2,824.16	1/2	2,464.98
3/4		3/4		3/4		3/4	4,539.81	3/4	4,219.43	3/4	3,883.89	3/4	3,533.26	3/4	3,175.63	3/4	2,816.67	3/4	2,457.50
10		10		10		10	4,533.28	10	4,212.58	10	3,876.73	10	3,525.80	10	3,168.18	10	2,809.19	10	2,450.02
1/4		1/4		1/4		1/4	4,526.75	1/4	4,205.73	1/4	3,869.57	1/4	3,518.35	1/4	3,160.72	1/4	2,801.71	1/4	2,442.53
1/2		1/2		1/2		1/2	4,520.22	1/2	4,198.88	1/2	3,862.41	1/2	3,510.90	1/2	3,153.27	1/2	2,794.23	1/2	2,435.05
3/4		3/4		3/4		3/4	4,513.69	3/4	4,192.04	3/4	3,855.25	3/4	3,503.45	3/4	3,145.82	3/4	2,786.74	3/4	2,427.57
11		11		11		11	4,507.13	11	4,185.16	11	3,848.06	11	3,496.00	11	3,138.36	11	2,779.26	11	2,420.09
1/4		1/4		1/4		1/4	4,500.57	1/4	4,178.29	1/4	3,840.87	1/4	3,488.55	1/4	3,130.91	1/4	2,771.78	1/4	2,412.60
1/2		1/2		1/2		1/2	4,494.01	1/2	4,171.42	1/2	3,833.68	1/2	3,481.10	1/2	3,123.45	1/2	2,764.29	1/2	2,405.12
3/4		3/4		3/4		3/4	4,487.45	3/4	4,164.54	3/4	3,826.49	3/4	3,473.65	3/4	3,115.99	3/4	2,756.81	3/4	2,397.64

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'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28196"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,390.15	0	2,030.98	0	1,671.81	0	1,312.63	0	953.73	0	594.68	0	235.52	0		0		0	
1/4	2,382.67	1/4	2,023.50	1/4	1,664.32	1/4	1,305.15	1/4	946.26	1/4	587.20	1/4	228.04	1/4		1/4		1/4	
1/2	2,375.19	1/2	2,016.01	1/2	1,656.84	1/2	1,297.67	1/2	938.79	1/2	579.72	1/2	220.56	1/2		1/2		1/2	
3/4	2,367.71	3/4	2,008.53	3/4	1,649.36	3/4	1,290.18	3/4	931.32	3/4	572.24	3/4	213.08	3/4		3/4		3/4	
1	2,360.22	1	2,001.05	1	1,641.87	1	1,282.70	1	923.85	1	564.75	1	205.60	1		1		1	
1/4	2,352.74	1/4	1,993.57	1/4	1,634.39	1/4	1,275.22	1/4	916.38	1/4	557.27	1/4	198.12	1/4		1/4		1/4	
1/2	2,345.26	1/2	1,986.08	1/2	1,626.91	1/2	1,267.73	1/2	908.91	1/2	549.79	1/2	190.64	1/2		1/2		1/2	
3/4	2,337.78	3/4	1,978.60	3/4	1,619.43	3/4	1,260.25	3/4	901.44	3/4	542.31	3/4	183.15	3/4		3/4		3/4	
2	2,330.29	2	1,971.12	2	1,611.94	2	1,252.77	2	893.96	2	534.82	2	175.68	2		2		2	
1/4	2,322.81	1/4	1,963.64	1/4	1,604.46	1/4	1,245.29	1/4	886.49	1/4	527.34	1/4	168.21	1/4		1/4		1/4	
1/2	2,315.33	1/2	1,956.15	1/2	1,596.98	1/2	1,237.80	1/2	879.01	1/2	519.86	1/2	160.73	1/2		1/2		1/2	
3/4	2,307.84	3/4	1,948.67	3/4	1,589.50	3/4	1,230.32	3/4	871.54	3/4	512.38	3/4	153.26	3/4		3/4		3/4	
3	2,300.36	3	1,941.19	3	1,582.01	3	1,222.84	3	864.05	3	504.89	3	145.80	3		3		3	
1/4	2,292.88	1/4	1,933.70	1/4	1,574.53	1/4	1,215.36	1/4	856.57	1/4	497.41	1/4	138.33	1/4		1/4		1/4	
1/2	2,285.40	1/2	1,926.22	1/2	1,567.05	1/2	1,207.87	1/2	849.09	1/2	489.93	1/2	130.87	1/2		1/2		1/2	
3/4	2,277.91	3/4	1,918.74	3/4	1,559.56	3/4	1,200.39	3/4	841.61	3/4	482.45	3/4	123.41	3/4		3/4		3/4	
4	2,270.43	4	1,911.26	4	1,552.08	4	1,192.91	4	834.12	4	474.96	4	115.96	4		4		4	
1/4	2,262.95	1/4	1,903.77	1/4	1,544.60	1/4	1,185.42	1/4	826.64	1/4	467.48	1/4	108.52	1/4		1/4		1/4	
1/2	2,255.46	1/2	1,896.29	1/2	1,537.12	1/2	1,177.94	1/2	819.16	1/2	460.00	1/2	101.07	1/2		1/2		1/2	
3/4	2,247.98	3/4	1,888.81	3/4	1,529.63	3/4	1,170.46	3/4	811.68	3/4	452.52	3/4	93.63	3/4		3/4		3/4	
5	2,240.50	5	1,881.32	5	1,522.15	5	1,162.98	5	804.19	5	445.03	5	86.21	5		5		5	
1/4	2,233.02	1/4	1,873.84	1/4	1,514.67	1/4	1,155.49	1/4	796.71	1/4	437.55	1/4	78.80	1/4		1/4		1/4	
1/2	2,225.53	1/2	1,866.36	1/2	1,507.18	1/2	1,148.01	1/2	789.23	1/2	430.07	1/2	71.39	1/2		1/2		1/2	
3/4	2,218.05	3/4	1,858.88	3/4	1,499.70	3/4	1,140.53	3/4	781.75	3/4	422.59	3/4	63.97	3/4		3/4		3/4	
6	2,210.57	6	1,851.39	6	1,492.22	6	1,133.05	6	774.26	6	415.10	6	57.02	6		6		6	
1/4	2,203.08	1/4	1,843.91	1/4	1,484.74	1/4	1,125.57	1/4	766.78	1/4	407.62	1/4	50.07	1/4		1/4		1/4	
1/2	2,195.60	1/2	1,836.43	1/2	1,477.25	1/2	1,118.09	1/2	759.30	1/2	400.14	1/2	43.11	1/2		1/2		1/2	
3/4	2,188.12	3/4	1,828.94	3/4	1,469.77	3/4	1,110.61	3/4	751.82	3/4	392.66	3/4	36.16	3/4		3/4		3/4	
7	2,180.64	7	1,821.46	7	1,462.29	7	1,103.14	7	744.33	7	385.17	7	30.86	7		7		7	
1/4	2,173.15	1/4	1,813.98	1/4	1,454.80	1/4	1,095.67	1/4	736.85	1/4	377.69	1/4	25.56	1/4		1/4		1/4	
1/2	2,165.67	1/2	1,806.50	1/2	1,447.32	1/2	1,088.20	1/2	729.37	1/2	370.21	1/2	20.26	1/2		1/2		1/2	
3/4	2,158.19	3/4	1,799.01	3/4	1,439.84	3/4	1,080.73	3/4	721.89	3/4	362.73	3/4	14.97	3/4		3/4		3/4	
8	2,150.71	8	1,791.53	8	1,432.36	8	1,073.26	8	714.40	8	355.24	8		8		8		8	
1/4	2,143.22	1/4	1,784.05	1/4	1,424.87	1/4	1,065.79	1/4	706.92	1/4	347.76	1/4		1/4		1/4		1/4	
1/2	2,135.74	1/2	1,776.57	1/2	1,417.39	1/2	1,058.32	1/2	699.44	1/2	340.28	1/2		1/2		1/2		1/2	
3/4	2,128.26	3/4	1,769.08	3/4	1,409.91	3/4	1,050.85	3/4	691.96	3/4	332.80	3/4		3/4		3/4		3/4	
9	2,120.77	9	1,761.60	9	1,402.43	9	1,043.38	9	684.47	9	325.31	9		9		9		9	
1/4	2,113.29	1/4	1,754.12	1/4	1,394.94	1/4	1,035.91	1/4	676.99	1/4	317.83	1/4		1/4		1/4		1/4	
1/2	2,105.81	1/2	1,746.63	1/2	1,387.46	1/2	1,028.44	1/2	669.51	1/2	310.35	1/2		1/2		1/2		1/2	
3/4	2,098.33	3/4	1,739.15	3/4	1,379.98	3/4	1,020.97	3/4	662.03	3/4	302.87	3/4		3/4		3/4		3/4	
10	2,090.84	10	1,731.67	10	1,372.49	10	1,013.50	10	654.54	10	295.38	10		10		10		10	
1/4	2,083.36	1/4	1,724.19	1/4	1,365.01	1/4	1,006.03	1/4	647.06	1/4	287.90	1/4		1/4		1/4		1/4	
1/2	2,075.88	1/2	1,716.70	1/2	1,357.53	1/2	998.56	1/2	639.58	1/2	280.42	1/2		1/2		1/2		1/2	
3/4	2,068.39	3/4	1,709.22	3/4	1,350.05	3/4	991.08	3/4	632.10	3/4	272.94	3/4		3/4		3/4		3/4	
11	2,060.91	11	1,701.74	11	1,342.56	11	983.61	11	624.61	11	265.45	11		11		11		11	
1/4	2,053.43	1/4	1,694.25	1/4	1,335.08	1/4	976.14	1/4	617.13	1/4	257.97	1/4		1/4		1/4		1/4	
1/2	2,045.95	1/2	1,686.77	1/2	1,327.60	1/2	968.67	1/2	609.65	1/2	250.49	1/2		1/2		1/2		1/2	
3/4	2,038.46	3/4	1,679.29	3/4	1,320.11	3/4	961.20	3/4	602.17	3/4	243.01	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 SW
CALCULATED: 11/20/2013 CL
VERIFIED: 01/26/2024 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2024



BARGE "KIRBY 28196"

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	4,357.64	0	4,116.76	0	3,870.34	0	3,611.94	0	3,341.84	0	2,989.45	0	2,633.00
1/4		1/4		1/4		1/4	4,353.01	1/4	4,111.75	1/4	3,865.08	1/4	3,606.43	1/4	3,336.13	1/4	2,982.03	1/4	2,625.58
1/2		1/2		1/2		1/2	4,348.38	1/2	4,106.74	1/2	3,859.82	1/2	3,600.92	1/2	3,330.43	1/2	2,974.60	1/2	2,618.15
3/4		3/4		3/4		3/4	4,344.22	3/4	4,101.71	3/4	3,854.54	3/4	3,595.39	3/4	3,323.00	3/4	2,967.17	3/4	2,610.73
1		1		1		1	4,340.07	1	4,096.68	1	3,849.26	1	3,589.86	1	3,315.57	1	2,959.75	1	2,603.30
1/4		1/4		1/4		1/4	4,335.92	1/4	4,091.66	1/4	3,843.98	1/4	3,584.32	1/4	3,308.14	1/4	2,952.32	1/4	2,595.87
1/2		1/2		1/2		1/2	4,331.77	1/2	4,086.63	1/2	3,838.70	1/2	3,578.79	1/2	3,300.71	1/2	2,944.90	1/2	2,588.45
3/4		3/4		3/4		3/4	4,326.41	3/4	4,081.58	3/4	3,833.40	3/4	3,573.24	3/4	3,293.28	3/4	2,937.47	3/4	2,581.02
2		2		2		2	4,321.06	2	4,076.53	2	3,828.11	2	3,567.69	2	3,285.85	2	2,930.04	2	2,573.60
1/4		1/4		1/4		1/4	4,315.70	1/4	4,071.48	1/4	3,822.81	1/4	3,562.14	1/4	3,278.42	1/4	2,922.62	1/4	2,566.17
1/2		1/2		1/2		1/2	4,310.34	1/2	4,066.43	1/2	3,817.51	1/2	3,556.59	1/2	3,271.00	1/2	2,915.19	1/2	2,558.74
3/4		3/4		3/4		3/4	4,304.64	3/4	4,061.36	3/4	3,812.19	3/4	3,551.02	3/4	3,263.57	3/4	2,907.77	3/4	2,551.32
3		3		3		3	4,298.93	3	4,056.29	3	3,806.87	3	3,545.45	3	3,256.14	3	2,900.34	3	2,543.89
1/4		1/4		1/4		1/4	4,293.23	1/4	4,051.22	1/4	3,801.55	1/4	3,539.89	1/4	3,248.71	1/4	2,892.91	1/4	2,536.47
1/2		1/2		1/2		1/2	4,287.53	1/2	4,046.15	1/2	3,796.22	1/2	3,534.32	1/2	3,241.28	1/2	2,885.49	1/2	2,529.04
3/4		3/4		3/4		3/4	4,281.82	3/4	4,041.06	3/4	3,790.88	3/4	3,528.73	3/4	3,233.85	3/4	2,878.06	3/4	2,521.61
4		4		4		4	4,276.12	4	4,035.97	4	3,785.54	4	3,523.13	4	3,226.42	4	2,870.64	4	2,514.19
1/4		1/4		1/4		1/4	4,270.41	1/4	4,030.88	1/4	3,780.20	1/4	3,517.54	1/4	3,218.99	1/4	2,863.21	1/4	2,506.76
1/2		1/2		1/2		1/2	4,264.71	1/2	4,025.78	1/2	3,774.86	1/2	3,511.95	1/2	3,211.56	1/2	2,855.78	1/2	2,499.34
3/4		3/4		3/4		3/4	4,259.84	3/4	4,020.67	3/4	3,769.50	3/4	3,506.34	3/4	3,204.16	3/4	2,848.36	3/4	2,491.91
5		5		5		5	4,254.98	5	4,015.56	5	3,764.14	5	3,500.73	5	3,196.76	5	2,840.93	5	2,484.48
1/4		1/4		1/4		1/4	4,250.12	1/4	4,010.45	1/4	3,758.77	1/4	3,495.12	1/4	3,189.36	1/4	2,833.51	1/4	2,477.06
1/2		1/2		1/2		1/2	4,245.25	1/2	4,005.34	1/2	3,753.41	1/2	3,489.51	1/2	3,181.95	1/2	2,826.08	1/2	2,469.63
3/4		3/4		3/4		3/4	4,240.37	3/4	4,000.20	3/4	3,748.03	3/4	3,483.87	3/4	3,174.55	3/4	2,818.65	3/4	2,462.21
6		6		6		6	4,235.49	6	3,995.07	6	3,742.65	6	3,478.24	6	3,167.15	6	2,811.23	6	2,454.78
1/4		1/4		1/4		1/4	4,230.61	1/4	3,989.94	1/4	3,737.27	1/4	3,472.61	1/4	3,159.75	1/4	2,803.80	1/4	2,447.35
1/2		1/2		1/2		1/2	4,225.72	1/2	3,984.80	1/2	3,731.88	1/2	3,466.97	1/2	3,152.35	1/2	2,796.38	1/2	2,439.93
3/4		3/4		3/4		3/4	4,220.82	3/4	3,979.65	3/4	3,726.48	3/4	3,461.32	3/4	3,144.94	3/4	2,788.95	3/4	2,432.50
7		7		7		7	4,215.91	7	3,974.50	7	3,721.07	7	3,455.67	7	3,137.54	7	2,781.52	7	2,425.08
1/4		1/4		1/4		1/4	4,211.00	1/4	3,969.34	1/4	3,715.67	1/4	3,450.01	1/4	3,130.14	1/4	2,774.10	1/4	2,417.65
1/2		1/2		1/2		1/2	4,206.10	1/2	3,964.19	1/2	3,710.26	1/2	3,444.36	1/2	3,122.74	1/2	2,766.67	1/2	2,410.22
3/4		3/4		3/4		3/4	4,201.17	3/4	3,959.01	3/4	3,704.84	3/4	3,438.69	3/4	3,115.34	3/4	2,759.25	3/4	2,402.80
8		8		8		8	4,196.25	8	3,953.83	8	3,699.42	8	3,433.01	8	3,107.93	8	2,751.82	8	2,395.37
1/4		1/4		1/4		1/4	4,191.33	1/4	3,948.66	1/4	3,693.99	1/4	3,427.33	1/4	3,100.53	1/4	2,744.39	1/4	2,387.95
1/2		1/2		1/2		1/2	4,186.40	1/2	3,943.48	1/2	3,688.57	1/2	3,421.66	1/2	3,093.13	1/2	2,736.97	1/2	2,380.52
3/4		3/4		3/4		3/4	4,181.45	3/4	3,938.28	3/4	3,683.12	3/4	3,415.96	3/4	3,085.73	3/4	2,729.54	3/4	2,373.09
9		9		9		9	4,176.50	9	3,933.09	9	3,677.67	9	3,410.27	9	3,078.33	9	2,722.12	9	2,365.67
1/4		1/4		1/4		1/4	4,171.55	1/4	3,927.89	1/4	3,672.23	1/4	3,404.57	1/4	3,070.92	1/4	2,714.69	1/4	2,358.24
1/2		1/2		1/2		1/2	4,166.60	1/2	3,922.70	1/2	3,666.78	1/2	3,398.88	1/2	3,063.52	1/2	2,707.26	1/2	2,350.81
3/4		3/4		3/4		3/4	4,161.64	3/4	3,917.48	3/4	3,661.31	3/4	3,393.17	3/4	3,056.12	3/4	2,699.84	3/4	2,343.39
10		10		10		10	4,156.67	10	3,912.26	10	3,655.85	10	3,387.47	10	3,048.72	10	2,692.41	10	2,335.96
1/4		1/4		1/4		1/4	4,151.71	1/4	3,907.04	1/4	3,650.38	1/4	3,381.77	1/4	3,041.31	1/4	2,684.99	1/4	2,328.53
1/2		1/2		1/2		1/2	4,146.74	1/2	3,901.82	1/2	3,644.92	1/2	3,376.06	1/2	3,033.91	1/2	2,677.56	1/2	2,321.11
3/4		3/4		3/4		3/4	4,141.75	3/4	3,896.58	3/4	3,639.43	3/4	3,370.36	3/4	3,026.51	3/4	2,670.13	3/4	2,313.68
11		11		11		11	4,136.76	11	3,891.34	11	3,633.94	11	3,364.65	11	3,019.11	11	2,662.71	11	2,306.26
1/4		1/4		1/4		1/4	4,131.76	1/4	3,886.11	1/4	3,628.45	1/4	3,358.95	1/4	3,011.71	1/4	2,655.28	1/4	2,298.83
1/2		1/2		1/2		1/2	4,366.91	1/2	4,126.77	1/2	3,880.87	1/2	3,622.96	1/2	3,004.30	1/2	2,647.86	1/2	2,291.40
3/4		3/4		3/4		3/4	4,362.28	3/4	4,121.76	3/4	3,875.61	3/4	3,617.45	3/4	2,996.88	3/4	2,640.43	3/4	2,283.98

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 28196"

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	2,276.55	0	1,919.65	0	1,563.71	0	1,207.15	0	862.89	0	505.89	0	148.68	0		0		0	
1/4	2,269.12	1/4	1,912.21	1/4	1,556.30	1/4	1,199.98	1/4	855.47	1/4	498.45	1/4	141.24	1/4		1/4		1/4	
1/2	2,261.70	1/2	1,904.77	1/2	1,548.88	1/2	1,192.81	1/2	848.05	1/2	491.01	1/2	133.80	1/2		1/2		1/2	
3/4	2,254.27	3/4	1,897.36	3/4	1,541.44	3/4	1,185.63	3/4	840.63	3/4	483.57	3/4	126.36	3/4		3/4		3/4	
1	2,246.84	1	1,889.94	1	1,534.00	1	1,178.46	1	833.21	1	476.13	1	118.92	1		1		1	
1/4	2,239.42	1/4	1,882.53	1/4	1,526.56	1/4	1,171.29	1/4	825.79	1/4	468.68	1/4	111.48	1/4		1/4		1/4	
1/2	2,231.99	1/2	1,875.11	1/2	1,519.12	1/2	1,164.12	1/2	818.37	1/2	461.24	1/2	104.03	1/2		1/2		1/2	
3/4	2,224.56	3/4	1,867.70	3/4	1,511.68	3/4	1,156.94	3/4	810.95	3/4	453.80	3/4	96.91	3/4		3/4		3/4	
2	2,217.14	2	1,860.28	2	1,504.24	2	1,149.77	2	803.53	2	446.36	2	89.78	2		2		2	
1/4	2,209.71	1/4	1,852.87	1/4	1,496.80	1/4	1,142.60	1/4	796.11	1/4	438.92	1/4	82.65	1/4		1/4		1/4	
1/2	2,202.28	1/2	1,845.46	1/2	1,489.36	1/2	1,135.43	1/2	788.69	1/2	431.48	1/2	75.53	1/2		1/2		1/2	
3/4	2,194.86	3/4	1,838.04	3/4	1,481.92	3/4	1,128.25	3/4	781.24	3/4	424.03	3/4	69.34	3/4		3/4		3/4	
3	2,187.43	3	1,830.63	3	1,474.48	3	1,121.08	3	773.80	3	416.59	3	63.16	3		3		3	
1/4	2,180.00	1/4	1,823.21	1/4	1,467.04	1/4	1,113.91	1/4	766.36	1/4	409.15	1/4	56.97	1/4		1/4		1/4	
1/2	2,172.58	1/2	1,815.80	1/2	1,459.60	1/2	1,106.74	1/2	758.92	1/2	401.71	1/2	50.78	1/2		1/2		1/2	
3/4	2,165.15	3/4	1,808.38	3/4	1,452.16	3/4	1,099.56	3/4	751.48	3/4	394.27	3/4	45.85	3/4		3/4		3/4	
4	2,157.73	4	1,800.97	4	1,444.72	4	1,092.39	4	744.04	4	386.82	4	40.93	4		4		4	
1/4	2,150.30	1/4	1,793.56	1/4	1,437.27	1/4	1,085.22	1/4	736.59	1/4	379.38	1/4	36.00	1/4		1/4		1/4	
1/2	2,142.87	1/2	1,786.14	1/2	1,429.83	1/2	1,078.05	1/2	729.15	1/2	371.94	1/2	31.07	1/2		1/2		1/2	
3/4	2,135.43	3/4	1,778.73	3/4	1,422.39	3/4	1,070.89	3/4	721.71	3/4	364.50	3/4	27.40	3/4		3/4		3/4	
5	2,127.99	5	1,771.31	5	1,414.95	5	1,063.73	5	714.27	5	357.06	5	23.73	5		5		5	
1/4	2,120.55	1/4	1,763.90	1/4	1,407.51	1/4	1,056.57	1/4	706.83	1/4	349.61	1/4	20.07	1/4		1/4		1/4	
1/2	2,113.11	1/2	1,756.48	1/2	1,400.07	1/2	1,049.41	1/2	699.38	1/2	342.17	1/2	16.40	1/2		1/2		1/2	
3/4	2,105.67	3/4	1,749.07	3/4	1,392.63	3/4	1,042.25	3/4	691.94	3/4	334.73	3/4		3/4		3/4		3/4	
6	2,098.23	6	1,741.66	6	1,385.19	6	1,035.09	6	684.50	6	327.29	6		6		6		6	
1/4	2,090.79	1/4	1,734.24	1/4	1,377.75	1/4	1,027.93	1/4	677.06	1/4	319.85	1/4		1/4		1/4		1/4	
1/2	2,083.35	1/2	1,726.83	1/2	1,370.31	1/2	1,020.78	1/2	669.62	1/2	312.41	1/2		1/2		1/2		1/2	
3/4	2,075.91	3/4	1,719.41	3/4	1,362.87	3/4	1,013.62	3/4	662.17	3/4	304.96	3/4		3/4		3/4		3/4	
7	2,068.47	7	1,712.00	7	1,355.43	7	1,006.47	7	654.73	7	297.52	7		7		7		7	
1/4	2,061.02	1/4	1,704.58	1/4	1,347.99	1/4	999.31	1/4	647.29	1/4	290.08	1/4		1/4		1/4		1/4	
1/2	2,053.58	1/2	1,697.17	1/2	1,340.55	1/2	992.16	1/2	639.85	1/2	282.64	1/2		1/2		1/2		1/2	
3/4	2,046.14	3/4	1,689.76	3/4	1,333.11	3/4	985.01	3/4	632.41	3/4	275.20	3/4		3/4		3/4		3/4	
8	2,038.70	8	1,682.34	8	1,325.67	8	977.85	8	624.96	8	267.75	8		8		8		8	
1/4	2,031.26	1/4	1,674.93	1/4	1,318.22	1/4	970.70	1/4	617.52	1/4	260.31	1/4		1/4		1/4		1/4	
1/2	2,023.82	1/2	1,667.51	1/2	1,310.78	1/2	963.55	1/2	610.08	1/2	252.87	1/2		1/2		1/2		1/2	
3/4	2,016.38	3/4	1,660.10	3/4	1,303.34	3/4	956.40	3/4	602.64	3/4	245.43	3/4		3/4		3/4		3/4	
9	2,008.94	9	1,652.68	9	1,295.90	9	949.25	9	595.20	9	237.99	9		9		9		9	
1/4	2,001.50	1/4	1,645.27	1/4	1,288.46	1/4	942.10	1/4	587.76	1/4	230.54	1/4		1/4		1/4		1/4	
1/2	1,994.06	1/2	1,637.86	1/2	1,281.02	1/2	934.95	1/2	580.31	1/2	223.10	1/2		1/2		1/2		1/2	
3/4	1,986.62	3/4	1,630.44	3/4	1,273.58	3/4	927.80	3/4	572.87	3/4	215.66	3/4		3/4		3/4		3/4	
10	1,979.18	10	1,623.03	10	1,266.14	10	920.64	10	565.43	10	208.22	10		10		10		10	
1/4	1,971.74	1/4	1,615.61	1/4	1,258.70	1/4	913.49	1/4	557.99	1/4	200.78	1/4		1/4		1/4		1/4	
1/2	1,964.30	1/2	1,608.20	1/2	1,251.26	1/2	906.34	1/2	550.55	1/2	193.33	1/2		1/2		1/2		1/2	
3/4	1,956.85	3/4	1,600.78	3/4	1,243.82	3/4	899.19	3/4	543.10	3/4	185.89	3/4		3/4		3/4		3/4	
11	1,949.41	11	1,593.37	11	1,236.38	11	892.04	11	535.66	11	178.45	11		11		11		11	
1/4	1,941.97	1/4	1,585.95	1/4	1,228.94	1/4	884.89	1/4	528.22	1/4	171.01	1/4		1/4		1/4		1/4	
1/2	1,934.53	1/2	1,578.54	1/2	1,221.50	1/2	877.74	1/2	520.78	1/2	163.57	1/2		1/2		1/2		1/2	
3/4	1,927.09	3/4	1,571.13	3/4	1,214.32	3/4	870.32	3/4	513.34	3/4	156.13	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 SW
CALCULATED: 11/20/2013 CL
VERIFIED: 01/26/2024 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2024

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



BARGE "KIRBY 28196"

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	4,385.58	0	4,143.53	0	3,895.96	0	3,636.38	0	3,365.08	0	3,010.75	0	2,652.97
1/4		1/4		1/4		1/4	4,380.92	1/4	4,138.50	1/4	3,890.67	1/4	3,630.85	1/4	3,359.35	1/4	3,003.30	1/4	2,645.52
1/2		1/2		1/2		1/2	4,376.26	1/2	4,133.46	1/2	3,885.39	1/2	3,625.32	1/2	3,353.62	1/2	2,995.84	1/2	2,638.07
3/4		3/4		3/4		3/4	4,372.08	3/4	4,128.41	3/4	3,880.08	3/4	3,619.76	3/4	3,346.17	3/4	2,988.39	3/4	2,630.61
1		1		1		1	4,367.91	1	4,123.36	1	3,874.78	1	3,614.20	1	3,338.71	1	2,980.94	1	2,623.16
1/4		1/4		1/4		1/4	4,363.73	1/4	4,118.31	1/4	3,869.47	1/4	3,608.65	1/4	3,331.26	1/4	2,973.48	1/4	2,615.70
1/2		1/2		1/2		1/2	4,359.56	1/2	4,113.26	1/2	3,864.17	1/2	3,603.09	1/2	3,323.81	1/2	2,966.03	1/2	2,608.25
3/4		3/4		3/4		3/4	4,354.18	3/4	4,108.19	3/4	3,858.85	3/4	3,597.51	3/4	3,316.35	3/4	2,958.57	3/4	2,600.80
2		2		2		2	4,348.80	2	4,103.11	2	3,853.53	2	3,591.94	2	3,308.90	2	2,951.12	2	2,593.34
1/4		1/4		1/4		1/4	4,343.42	1/4	4,098.04	1/4	3,848.21	1/4	3,586.36	1/4	3,301.45	1/4	2,943.67	1/4	2,585.89
1/2		1/2		1/2		1/2	4,338.04	1/2	4,092.96	1/2	3,842.88	1/2	3,580.79	1/2	3,293.99	1/2	2,936.21	1/2	2,578.44
3/4		3/4		3/4		3/4	4,332.31	3/4	4,087.87	3/4	3,837.54	3/4	3,575.20	3/4	3,286.54	3/4	2,928.76	3/4	2,570.98
3		3		3		3	4,326.58	3	4,082.78	3	3,832.19	3	3,569.60	3	3,279.08	3	2,921.31	3	2,563.53
1/4		1/4		1/4		1/4	4,320.85	1/4	4,077.68	1/4	3,826.85	1/4	3,564.01	1/4	3,271.63	1/4	2,913.85	1/4	2,556.08
1/2		1/2		1/2		1/2	4,315.12	1/2	4,072.59	1/2	3,821.50	1/2	3,558.42	1/2	3,264.18	1/2	2,906.40	1/2	2,548.62
3/4		3/4		3/4		3/4	4,309.39	3/4	4,067.47	3/4	3,816.14	3/4	3,552.80	3/4	3,256.72	3/4	2,898.95	3/4	2,541.17
4		4		4		4	4,303.66	4	4,062.36	4	3,810.77	4	3,547.18	4	3,249.27	4	2,891.49	4	2,533.71
1/4		1/4		1/4		1/4	4,297.93	1/4	4,057.24	1/4	3,805.41	1/4	3,541.57	1/4	3,241.82	1/4	2,884.04	1/4	2,526.26
1/2		1/2		1/2		1/2	4,292.21	1/2	4,052.12	1/2	3,800.04	1/2	3,535.95	1/2	3,234.36	1/2	2,876.58	1/2	2,518.81
3/4		3/4		3/4		3/4	4,287.32	3/4	4,046.99	3/4	3,794.66	3/4	3,530.32	3/4	3,226.91	3/4	2,869.13	3/4	2,511.35
5		5		5		5	4,282.43	5	4,041.85	5	3,789.27	5	3,524.68	5	3,219.45	5	2,861.68	5	2,503.90
1/4		1/4		1/4		1/4	4,277.54	1/4	4,036.72	1/4	3,783.88	1/4	3,519.05	1/4	3,212.00	1/4	2,854.22	1/4	2,496.45
1/2		1/2		1/2		1/2	4,272.65	1/2	4,031.58	1/2	3,778.49	1/2	3,513.41	1/2	3,204.55	1/2	2,846.77	1/2	2,488.99
3/4		3/4		3/4		3/4	4,267.75	3/4	4,026.42	3/4	3,773.09	3/4	3,507.75	3/4	3,197.09	3/4	2,839.32	3/4	2,481.54
6		6		6		6	4,262.84	6	4,021.26	6	3,767.68	6	3,502.09	6	3,189.64	6	2,831.86	6	2,474.08
1/4		1/4		1/4		1/4	4,257.94	1/4	4,016.11	1/4	3,762.28	1/4	3,496.43	1/4	3,182.19	1/4	2,824.41	1/4	2,466.63
1/2		1/2		1/2		1/2	4,253.03	1/2	4,010.95	1/2	3,756.87	1/2	3,490.78	1/2	3,174.73	1/2	2,816.95	1/2	2,459.18
3/4		3/4		3/4		3/4	4,248.10	3/4	4,005.77	3/4	3,751.44	3/4	3,485.10	3/4	3,167.28	3/4	2,809.50	3/4	2,451.72
7		7		7		7	4,243.17	7	4,000.59	7	3,746.01	7	3,479.42	7	3,159.82	7	2,802.05	7	2,444.27
1/4		1/4		1/4		1/4	4,238.24	1/4	3,995.42	1/4	3,740.58	1/4	3,473.74	1/4	3,152.37	1/4	2,794.59	1/4	2,436.82
1/2		1/2		1/2		1/2	4,233.31	1/2	3,990.24	1/2	3,735.15	1/2	3,468.07	1/2	3,144.92	1/2	2,787.14	1/2	2,429.36
3/4		3/4		3/4		3/4	4,228.36	3/4	3,985.04	3/4	3,729.70	3/4	3,462.37	3/4	3,137.46	3/4	2,779.69	3/4	2,421.91
8		8		8		8	4,223.41	8	3,979.84	8	3,724.25	8	3,456.67	8	3,130.01	8	2,772.23	8	2,414.45
1/4		1/4		1/4		1/4	4,218.46	1/4	3,974.63	1/4	3,718.81	1/4	3,450.97	1/4	3,122.56	1/4	2,764.78	1/4	2,407.00
1/2		1/2		1/2		1/2	4,213.51	1/2	3,969.43	1/2	3,713.36	1/2	3,445.26	1/2	3,115.10	1/2	2,757.33	1/2	2,399.55
3/4		3/4		3/4		3/4	4,208.54	3/4	3,964.21	3/4	3,707.89	3/4	3,439.55	3/4	3,107.65	3/4	2,749.87	3/4	2,392.09
9		9		9		9	4,203.57	9	3,958.99	9	3,702.41	9	3,433.83	9	3,100.20	9	2,742.42	9	2,384.64
1/4		1/4		1/4		1/4	4,198.59	1/4	3,953.77	1/4	3,696.94	1/4	3,428.11	1/4	3,092.74	1/4	2,734.96	1/4	2,377.19
1/2		1/2		1/2		1/2	4,193.62	1/2	3,948.56	1/2	3,691.47	1/2	3,422.39	1/2	3,085.29	1/2	2,727.51	1/2	2,369.73
3/4		3/4		3/4		3/4	4,188.63	3/4	3,943.31	3/4	3,685.98	3/4	3,416.66	3/4	3,077.83	3/4	2,720.06	3/4	2,362.28
10		10		10		10	4,183.64	10	3,938.07	10	3,680.49	10	3,410.93	10	3,070.38	10	2,712.60	10	2,354.83
1/4		1/4		1/4		1/4	4,178.65	1/4	3,932.82	1/4	3,675.00	1/4	3,405.20	1/4	3,062.93	1/4	2,705.15	1/4	2,347.37
1/2		1/2		1/2		1/2	4,173.66	1/2	3,927.58	1/2	3,669.51	1/2	3,399.47	1/2	3,055.47	1/2	2,697.70	1/2	2,339.92
3/4		3/4		3/4		3/4	4,168.64	3/4	3,922.32	3/4	3,663.99	3/4	3,393.73	3/4	3,048.02	3/4	2,690.24	3/4	2,332.46
11		11		11		11	4,163.63	11	3,917.06	11	3,658.48	11	3,388.00	11	3,040.57	11	2,682.79	11	2,325.01
1/4		1/4		1/4		1/4	4,158.61	1/4	3,911.79	1/4	3,652.96	1/4	3,382.27	1/4	3,033.11	1/4	2,675.33	1/4	2,317.56
1/2		1/2		1/2		1/2	4,394.90	1/2	4,153.59	1/2	3,906.53	1/2	3,647.45	1/2	3,025.66	1/2	2,667.88	1/2	2,310.10
3/4		3/4		3/4		3/4	4,390.24	3/4	4,148.56	3/4	3,901.25	3/4	3,641.92	3/4	3,018.20	3/4	2,660.43	3/4	2,302.65

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 28196"

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	2,295.20	0	1,937.42	0	1,579.64	0	1,221.86	0	864.35	0	506.70	0	148.93	0		0		0	
1/4	2,287.74	1/4	1,929.96	1/4	1,572.19	1/4	1,214.41	1/4	856.91	1/4	499.24	1/4	141.47	1/4		1/4		1/4	
1/2	2,280.29	1/2	1,922.51	1/2	1,564.73	1/2	1,206.96	1/2	849.46	1/2	491.79	1/2	134.02	1/2		1/2		1/2	
3/4	2,272.83	3/4	1,915.06	3/4	1,557.28	3/4	1,199.50	3/4	842.02	3/4	484.34	3/4	126.57	3/4		3/4		3/4	
1	2,265.38	1	1,907.60	1	1,549.83	1	1,192.05	1	834.58	1	476.88	1	119.12	1		1		1	
1/4	2,257.93	1/4	1,900.15	1/4	1,542.37	1/4	1,184.59	1/4	827.14	1/4	469.43	1/4	111.66	1/4		1/4		1/4	
1/2	2,250.47	1/2	1,892.70	1/2	1,534.92	1/2	1,177.14	1/2	819.70	1/2	461.98	1/2	104.21	1/2		1/2		1/2	
3/4	2,243.02	3/4	1,885.24	3/4	1,527.46	3/4	1,169.69	3/4	812.25	3/4	454.52	3/4	97.07	3/4		3/4		3/4	
2	2,235.57	2	1,877.79	2	1,520.01	2	1,162.23	2	804.81	2	447.07	2	89.93	2		2		2	
1/4	2,228.11	1/4	1,870.33	1/4	1,512.56	1/4	1,154.78	1/4	797.37	1/4	439.61	1/4	82.79	1/4		1/4		1/4	
1/2	2,220.66	1/2	1,862.88	1/2	1,505.10	1/2	1,147.33	1/2	789.93	1/2	432.16	1/2	75.66	1/2		1/2		1/2	
3/4	2,213.20	3/4	1,855.43	3/4	1,497.65	3/4	1,139.87	3/4	782.48	3/4	424.71	3/4	69.46	3/4		3/4		3/4	
3	2,205.75	3	1,847.97	3	1,490.20	3	1,132.42	3	775.02	3	417.25	3	63.26	3		3		3	
1/4	2,198.30	1/4	1,840.52	1/4	1,482.74	1/4	1,124.96	1/4	767.57	1/4	409.80	1/4	57.06	1/4		1/4		1/4	
1/2	2,190.84	1/2	1,833.07	1/2	1,475.29	1/2	1,117.51	1/2	760.12	1/2	402.35	1/2	50.87	1/2		1/2		1/2	
3/4	2,183.39	3/4	1,825.61	3/4	1,467.83	3/4	1,110.06	3/4	752.66	3/4	394.89	3/4	45.92	3/4		3/4		3/4	
4	2,175.94	4	1,818.16	4	1,460.38	4	1,102.60	4	745.21	4	387.44	4	40.98	4		4		4	
1/4	2,168.48	1/4	1,810.71	1/4	1,452.93	1/4	1,095.15	1/4	737.75	1/4	379.99	1/4	36.04	1/4		1/4		1/4	
1/2	2,161.03	1/2	1,803.25	1/2	1,445.47	1/2	1,087.70	1/2	730.30	1/2	372.53	1/2	31.10	1/2		1/2		1/2	
3/4	2,153.58	3/4	1,795.80	3/4	1,438.02	3/4	1,080.24	3/4	722.85	3/4	365.08	3/4	27.43	3/4		3/4		3/4	
5	2,146.12	5	1,788.34	5	1,430.57	5	1,072.79	5	715.39	5	357.63	5	23.75	5		5		5	
1/4	2,138.67	1/4	1,780.89	1/4	1,423.11	1/4	1,065.34	1/4	707.94	1/4	350.17	1/4	20.07	1/4		1/4		1/4	
1/2	2,131.21	1/2	1,773.44	1/2	1,415.66	1/2	1,057.88	1/2	700.49	1/2	342.72	1/2	16.40	1/2		1/2		1/2	
3/4	2,123.76	3/4	1,765.98	3/4	1,408.21	3/4	1,050.43	3/4	693.03	3/4	335.27	3/4		3/4		3/4		3/4	
6	2,116.31	6	1,758.53	6	1,400.75	6	1,042.97	6	685.58	6	327.81	6		6		6		6	
1/4	2,108.85	1/4	1,751.08	1/4	1,393.30	1/4	1,035.52	1/4	678.13	1/4	320.36	1/4		1/4		1/4		1/4	
1/2	2,101.40	1/2	1,743.62	1/2	1,385.84	1/2	1,028.07	1/2	670.67	1/2	312.91	1/2		1/2		1/2		1/2	
3/4	2,093.95	3/4	1,736.17	3/4	1,378.39	3/4	1,020.62	3/4	663.22	3/4	305.45	3/4		3/4		3/4		3/4	
7	2,086.49	7	1,728.71	7	1,370.94	7	1,013.18	7	655.77	7	298.00	7		7		7		7	
1/4	2,079.04	1/4	1,721.26	1/4	1,363.48	1/4	1,005.74	1/4	648.31	1/4	290.54	1/4		1/4		1/4		1/4	
1/2	2,071.58	1/2	1,713.81	1/2	1,356.03	1/2	998.30	1/2	640.86	1/2	283.09	1/2		1/2		1/2		1/2	
3/4	2,064.13	3/4	1,706.35	3/4	1,348.58	3/4	990.86	3/4	633.41	3/4	275.64	3/4		3/4		3/4		3/4	
8	2,056.68	8	1,698.90	8	1,341.12	8	983.42	8	625.95	8	268.18	8		8		8		8	
1/4	2,049.22	1/4	1,691.45	1/4	1,333.67	1/4	975.97	1/4	618.50	1/4	260.73	1/4		1/4		1/4		1/4	
1/2	2,041.77	1/2	1,683.99	1/2	1,326.21	1/2	968.53	1/2	611.05	1/2	253.28	1/2		1/2		1/2		1/2	
3/4	2,034.32	3/4	1,676.54	3/4	1,318.76	3/4	961.09	3/4	603.59	3/4	245.82	3/4		3/4		3/4		3/4	
9	2,026.86	9	1,669.08	9	1,311.31	9	953.65	9	596.14	9	238.37	9		9		9		9	
1/4	2,019.41	1/4	1,661.63	1/4	1,303.85	1/4	946.21	1/4	588.68	1/4	230.92	1/4		1/4		1/4		1/4	
1/2	2,011.96	1/2	1,654.18	1/2	1,296.40	1/2	938.77	1/2	581.23	1/2	223.46	1/2		1/2		1/2		1/2	
3/4	2,004.50	3/4	1,646.72	3/4	1,288.95	3/4	931.32	3/4	573.78	3/4	216.01	3/4		3/4		3/4		3/4	
10	1,997.05	10	1,639.27	10	1,281.49	10	923.88	10	566.32	10	208.56	10		10		10		10	
1/4	1,989.59	1/4	1,631.82	1/4	1,274.04	1/4	916.44	1/4	558.87	1/4	201.10	1/4		1/4		1/4		1/4	
1/2	1,982.14	1/2	1,624.36	1/2	1,266.59	1/2	909.00	1/2	551.42	1/2	193.65	1/2		1/2		1/2		1/2	
3/4	1,974.69	3/4	1,616.91	3/4	1,259.13	3/4	901.56	3/4	543.96	3/4	186.20	3/4		3/4		3/4		3/4	
11	1,967.23	11	1,609.46	11	1,251.68	11	894.11	11	536.51	11	178.74	11		11		11		11	
1/4	1,959.78	1/4	1,602.00	1/4	1,244.22	1/4	886.67	1/4	529.06	1/4	171.29	1/4		1/4		1/4		1/4	
1/2	1,952.33	1/2	1,594.55	1/2	1,236.77	1/2	879.23	1/2	521.60	1/2	163.84	1/2		1/2		1/2		1/2	
3/4	1,944.87	3/4	1,587.09	3/4	1,229.32	3/4	871.79	3/4	514.15	3/4	156.38	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/19/2013 SW
CALCULATED: 11/20/2013 CL
VERIFIED: 01/26/2024 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2024