



BARGE "KIRBY 29047"

ULLAGE TRIM TABLE
FORMERLY "CTCO 345"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-09"

August 30, 2021

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29047"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01 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	4,490.31	0	4,183.72	0	3,867.67	0	3,539.46	0	3,207.61	0	2,875.76	0	2,543.87
1/4		1/4		1/4		1/4	4,483.45	1/4	4,177.25	1/4	3,860.95	1/4	3,532.54	1/4	3,200.69	1/4	2,868.85	1/4	2,536.96
1/2		1/2		1/2		1/2	4,476.60	1/2	4,170.79	1/2	3,854.22	1/2	3,525.63	1/2	3,193.78	1/2	2,861.93	1/2	2,530.04
3/4		3/4		3/4		3/4	4,469.74	3/4	4,164.31	3/4	3,847.48	3/4	3,518.72	3/4	3,186.87	3/4	2,855.02	3/4	2,523.12
1		1		1		1	4,462.88	1	4,157.83	1	3,840.74	1	3,511.80	1	3,179.95	1	2,848.11	1	2,516.20
1/4		1/4		1/4		1/4	4,456.03	1/4	4,151.35	1/4	3,833.99	1/4	3,504.89	1/4	3,173.04	1/4	2,841.19	1/4	2,509.29
1/2		1/2		1/2		1/2	4,449.17	1/2	4,144.87	1/2	3,827.25	1/2	3,497.97	1/2	3,166.13	1/2	2,834.28	1/2	2,502.37
3/4		3/4		3/4		3/4	4,442.95	3/4	4,138.37	3/4	3,820.49	3/4	3,491.06	3/4	3,159.21	3/4	2,827.37	3/4	2,495.45
2		2		2		2	4,436.72	2	4,131.86	2	3,813.72	2	3,484.15	2	3,152.30	2	2,820.45	2	2,488.53
1/4		1/4		1/4		1/4	4,430.50	1/4	4,125.36	1/4	3,806.96	1/4	3,477.23	1/4	3,145.39	1/4	2,813.54	1/4	2,481.62
1/2		1/2		1/2		1/2	4,424.27	1/2	4,118.86	1/2	3,800.20	1/2	3,470.32	1/2	3,138.47	1/2	2,806.62	1/2	2,474.70
3/4		3/4		3/4		3/4	4,418.02	3/4	4,112.34	3/4	3,793.41	3/4	3,463.41	3/4	3,131.56	3/4	2,799.71	3/4	2,467.78
3		3		3		3	4,411.78	3	4,105.82	3	3,786.63	3	3,456.49	3	3,124.65	3	2,792.80	3	2,460.86
1/4		1/4		1/4		1/4	4,405.53	1/4	4,099.30	1/4	3,779.85	1/4	3,449.58	1/4	3,117.73	1/4	2,785.88	1/4	2,453.95
1/2		1/2		1/2		1/2	4,399.29	1/2	4,092.77	1/2	3,773.06	1/2	3,442.67	1/2	3,110.82	1/2	2,778.97	1/2	2,447.03
3/4		3/4		3/4		3/4	4,393.02	3/4	4,086.23	3/4	3,766.26	3/4	3,435.75	3/4	3,103.91	3/4	2,772.06	3/4	2,440.11
4		4		4		4	4,386.76	4	4,079.69	4	3,759.46	4	3,428.84	4	3,096.99	4	2,765.14	4	2,433.19
1/4		1/4		1/4		1/4	4,380.49	1/4	4,073.15	1/4	3,752.65	1/4	3,421.93	1/4	3,090.08	1/4	2,758.23	1/4	2,426.28
1/2		1/2		1/2		1/2	4,374.22	1/2	4,066.61	1/2	3,745.85	1/2	3,415.01	1/2	3,083.16	1/2	2,751.32	1/2	2,419.36
3/4		3/4		3/4		3/4	4,367.94	3/4	4,060.05	3/4	3,739.03	3/4	3,408.10	3/4	3,076.25	3/4	2,744.40	3/4	2,412.44
5		5		5		5	4,361.65	5	4,053.48	5	3,732.20	5	3,401.19	5	3,069.34	5	2,737.49	5	2,405.52
1/4		1/4		1/4		1/4	4,355.37	1/4	4,046.92	1/4	3,725.38	1/4	3,394.27	1/4	3,062.42	1/4	2,730.58	1/4	2,398.61
1/2		1/2		1/2		1/2	4,349.08	1/2	4,040.36	1/2	3,718.55	1/2	3,387.36	1/2	3,055.51	1/2	2,723.66	1/2	2,391.69
3/4		3/4		3/4		3/4	4,342.78	3/4	4,033.78	3/4	3,711.71	3/4	3,380.45	3/4	3,048.60	3/4	2,716.75	3/4	2,384.77
6		6		6		6	4,336.48	6	4,027.20	6	3,704.87	6	3,373.53	6	3,041.68	6	2,709.84	6	2,377.86
1/4		1/4		1/4		1/4	4,330.18	1/4	4,020.62	1/4	3,698.02	1/4	3,366.62	1/4	3,034.77	1/4	2,702.92	1/4	2,370.94
1/2		1/2		1/2		1/2	4,323.87	1/2	4,014.03	1/2	3,691.18	1/2	3,359.70	1/2	3,027.86	1/2	2,696.01	1/2	2,364.02
3/4		3/4		3/4		3/4	4,317.55	3/4	4,007.43	3/4	3,684.32	3/4	3,352.79	3/4	3,020.94	3/4	2,689.10	3/4	2,357.10
7		7		7		7	4,311.23	7	4,000.83	7	3,677.45	7	3,345.88	7	3,014.03	7	2,682.18	7	2,350.19
1/4		1/4		1/4		1/4	4,304.91	1/4	3,994.23	1/4	3,670.59	1/4	3,338.96	1/4	3,007.12	1/4	2,675.27	1/4	2,343.27
1/2		1/2		1/2		1/2	4,601.42	1/2	4,298.59	1/2	3,987.63	1/2	3,663.73	1/2	3,332.05	1/2	3,000.20	1/2	2,668.35
3/4		3/4		3/4		3/4	4,596.87	3/4	4,292.25	3/4	3,981.01	3/4	3,656.84	3/4	3,325.14	3/4	2,993.29	3/4	2,661.44
8		8		8		8	4,592.32	8	4,285.90	8	3,974.39	8	3,649.96	8	3,318.22	8	2,986.38	8	2,654.53
1/4		1/4		1/4		1/4	4,587.77	1/4	4,279.56	1/4	3,967.76	1/4	3,643.08	1/4	3,311.31	1/4	2,979.46	1/4	2,647.61
1/2		1/2		1/2		1/2	4,583.22	1/2	4,273.22	1/2	3,961.14	1/2	3,636.19	1/2	3,304.40	1/2	2,972.55	1/2	2,640.70
3/4		3/4		3/4		3/4	4,577.13	3/4	4,266.86	3/4	3,954.50	3/4	3,629.29	3/4	3,297.48	3/4	2,965.64	3/4	2,633.79
9		9		9		9	4,571.04	9	4,260.50	9	3,947.86	9	3,622.39	9	3,290.57	9	2,958.72	9	2,626.87
1/4		1/4		1/4		1/4	4,564.95	1/4	4,254.13	1/4	3,941.22	1/4	3,615.49	1/4	3,283.66	1/4	2,951.81	1/4	2,619.96
1/2		1/2		1/2		1/2	4,558.87	1/2	4,247.77	1/2	3,934.58	1/2	3,608.59	1/2	3,276.74	1/2	2,944.89	1/2	2,613.05
3/4		3/4		3/4		3/4	4,552.01	3/4	4,241.39	3/4	3,927.91	3/4	3,601.68	3/4	3,269.83	3/4	2,937.98	3/4	2,606.13
10		10		10		10	4,545.15	10	4,235.01	10	3,921.25	10	3,594.76	10	3,262.92	10	2,931.07	10	2,599.21
1/4		1/4		1/4		1/4	4,538.30	1/4	4,228.63	1/4	3,914.59	1/4	3,587.85	1/4	3,256.00	1/4	2,924.15	1/4	2,592.29
1/2		1/2		1/2		1/2	4,531.44	1/2	4,222.25	1/2	3,907.93	1/2	3,580.94	1/2	3,249.09	1/2	2,917.24	1/2	2,585.38
3/4		3/4		3/4		3/4	4,524.59	3/4	4,215.84	3/4	3,901.23	3/4	3,574.02	3/4	3,242.18	3/4	2,910.33	3/4	2,578.46
11		11		11		11	4,517.73	11	4,209.44	11	3,894.52	11	3,567.11	11	3,235.26	11	2,903.41	11	2,571.54
1/4		1/4		1/4		1/4	4,510.87	1/4	4,203.04	1/4	3,887.82	1/4	3,560.20	1/4	3,228.35	1/4	2,896.50	1/4	2,564.62
1/2		1/2		1/2		1/2	4,504.02	1/2	4,196.64	1/2	3,881.12	1/2	3,553.28	1/2	3,221.43	1/2	2,889.59	1/2	2,557.71
3/4		3/4		3/4		3/4	4,497.16	3/4	4,190.18	3/4	3,874.39	3/4	3,546.37	3/4	3,214.52	3/4	2,882.67	3/4	2,550.79

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 29047"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01 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	2,211.84	0	1,879.80	0	1,547.77	0	1,215.73	0	885.71	0	576.30	0	288.70	0	28.63	0		0	
1/4	2,204.92	1/4	1,872.88	1/4	1,540.85	1/4	1,208.81	1/4	879.02	1/4	570.06	1/4	282.95	1/4	24.92	1/4		1/4	
1/2	2,198.00	1/2	1,865.97	1/2	1,533.93	1/2	1,201.90	1/2	872.33	1/2	563.82	1/2	277.21	1/2	21.20	1/2		1/2	
3/4	2,191.09	3/4	1,859.05	3/4	1,527.01	3/4	1,194.98	3/4	865.68	3/4	557.63	3/4	271.50	3/4	19.07	3/4		3/4	
1	2,184.17	1	1,852.13	1	1,520.10	1	1,188.06	1	859.04	1	551.43	1	265.80	1	16.93	1		1	
1/4	2,177.25	1/4	1,845.22	1/4	1,513.18	1/4	1,181.14	1/4	852.39	1/4	545.23	1/4	260.10	1/4	14.80	1/4		1/4	
1/2	2,170.33	1/2	1,838.30	1/2	1,506.26	1/2	1,174.23	1/2	845.74	1/2	539.03	1/2	254.39	1/2	12.66	1/2		1/2	
3/4	2,163.42	3/4	1,831.38	3/4	1,499.35	3/4	1,167.31	3/4	839.14	3/4	532.88	3/4	248.73	3/4		3/4		3/4	
2	2,156.50	2	1,824.46	2	1,492.43	2	1,160.39	2	832.54	2	526.72	2	243.07	2		2		2	
1/4	2,149.58	1/4	1,817.55	1/4	1,485.51	1/4	1,153.48	1/4	825.94	1/4	520.57	1/4	237.41	1/4		1/4		1/4	
1/2	2,142.66	1/2	1,810.63	1/2	1,478.59	1/2	1,146.56	1/2	819.34	1/2	514.41	1/2	231.74	1/2		1/2		1/2	
3/4	2,135.75	3/4	1,803.71	3/4	1,471.68	3/4	1,139.64	3/4	812.79	3/4	508.29	3/4	226.12	3/4		3/4		3/4	
3	2,128.83	3	1,796.79	3	1,464.76	3	1,132.72	3	806.23	3	502.18	3	220.50	3		3		3	
1/4	2,121.91	1/4	1,789.88	1/4	1,457.84	1/4	1,125.81	1/4	799.67	1/4	496.06	1/4	214.88	1/4		1/4		1/4	
1/2	2,114.99	1/2	1,782.96	1/2	1,450.92	1/2	1,118.89	1/2	793.11	1/2	489.95	1/2	209.26	1/2		1/2		1/2	
3/4	2,108.08	3/4	1,776.04	3/4	1,444.01	3/4	1,111.97	3/4	786.60	3/4	483.88	3/4	203.68	3/4		3/4		3/4	
4	2,101.16	4	1,769.12	4	1,437.09	4	1,105.05	4	780.08	4	477.80	4	198.10	4		4		4	
1/4	2,094.24	1/4	1,762.21	1/4	1,430.17	1/4	1,098.14	1/4	773.56	1/4	471.73	1/4	192.52	1/4		1/4		1/4	
1/2	2,087.32	1/2	1,755.29	1/2	1,423.25	1/2	1,091.22	1/2	767.05	1/2	465.65	1/2	186.93	1/2		1/2		1/2	
3/4	2,080.41	3/4	1,748.37	3/4	1,416.34	3/4	1,084.30	3/4	760.57	3/4	459.62	3/4	181.40	3/4		3/4		3/4	
5	2,073.49	5	1,741.45	5	1,409.42	5	1,077.38	5	754.10	5	453.59	5	175.86	5		5		5	
1/4	2,066.57	1/4	1,734.54	1/4	1,402.50	1/4	1,070.47	1/4	747.62	1/4	447.55	1/4	170.32	1/4		1/4		1/4	
1/2	2,059.65	1/2	1,727.62	1/2	1,395.58	1/2	1,063.55	1/2	741.14	1/2	441.52	1/2	164.78	1/2		1/2		1/2	
3/4	2,052.74	3/4	1,720.70	3/4	1,388.67	3/4	1,056.63	3/4	734.71	3/4	435.53	3/4	159.28	3/4		3/4		3/4	
6	2,045.82	6	1,713.78	6	1,381.75	6	1,049.71	6	728.27	6	429.54	6	153.78	6		6		6	
1/4	2,038.90	1/4	1,706.87	1/4	1,374.83	1/4	1,042.80	1/4	721.84	1/4	423.55	1/4	148.28	1/4		1/4		1/4	
1/2	2,031.99	1/2	1,699.95	1/2	1,367.91	1/2	1,035.88	1/2	715.41	1/2	417.55	1/2	142.79	1/2		1/2		1/2	
3/4	2,025.07	3/4	1,693.03	3/4	1,361.00	3/4	1,028.96	3/4	709.01	3/4	411.60	3/4	137.33	3/4		3/4		3/4	
7	2,018.15	7	1,686.12	7	1,354.08	7	1,022.04	7	702.62	7	405.65	7	131.87	7		7		7	
1/4	2,011.23	1/4	1,679.20	1/4	1,347.16	1/4	1,015.13	1/4	696.23	1/4	399.70	1/4	126.41	1/4		1/4		1/4	
1/2	2,004.32	1/2	1,672.28	1/2	1,340.25	1/2	1,008.21	1/2	689.83	1/2	393.75	1/2	120.96	1/2		1/2		1/2	
3/4	1,997.40	3/4	1,665.36	3/4	1,333.33	3/4	1,001.31	3/4	683.48	3/4	387.84	3/4	115.54	3/4		3/4		3/4	
8	1,990.48	8	1,658.45	8	1,326.41	8	994.42	8	677.13	8	381.93	8	110.13	8		8		8	
1/4	1,983.56	1/4	1,651.53	1/4	1,319.49	1/4	987.52	1/4	670.78	1/4	376.02	1/4	104.71	1/4		1/4		1/4	
1/2	1,976.65	1/2	1,644.61	1/2	1,312.58	1/2	980.62	1/2	664.42	1/2	370.11	1/2	99.29	1/2		1/2		1/2	
3/4	1,969.73	3/4	1,637.69	3/4	1,305.66	3/4	973.77	3/4	658.11	3/4	364.25	3/4	93.92	3/4		3/4		3/4	
9	1,962.81	9	1,630.78	9	1,298.74	9	966.91	9	651.80	9	358.38	9	88.54	9		9		9	
1/4	1,955.89	1/4	1,623.86	1/4	1,291.82	1/4	960.06	1/4	645.49	1/4	352.51	1/4	83.17	1/4		1/4		1/4	
1/2	1,948.98	1/2	1,616.94	1/2	1,284.91	1/2	953.20	1/2	639.18	1/2	346.64	1/2	77.79	1/2		1/2		1/2	
3/4	1,942.06	3/4	1,610.02	3/4	1,277.99	3/4	946.41	3/4	632.86	3/4	340.81	3/4	72.46	3/4		3/4		3/4	
10	1,935.14	10	1,603.11	10	1,271.07	10	939.63	10	626.54	10	334.99	10	67.13	10		10		10	
1/4	1,928.22	1/4	1,596.19	1/4	1,264.15	1/4	932.84	1/4	620.22	1/4	329.16	1/4	61.79	1/4		1/4		1/4	
1/2	1,921.31	1/2	1,589.27	1/2	1,257.24	1/2	926.06	1/2	613.90	1/2	323.33	1/2	56.46	1/2		1/2		1/2	
3/4	1,914.39	3/4	1,582.35	3/4	1,250.32	3/4	919.32	3/4	607.62	3/4	317.55	3/4	51.36	3/4		3/4		3/4	
11	1,907.47	11	1,575.44	11	1,243.40	11	912.57	11	601.34	11	311.76	11	46.26	11		11		11	
1/4	1,900.55	1/4	1,568.52	1/4	1,236.48	1/4	905.83	1/4	595.06	1/4	305.97	1/4	41.16	1/4		1/4		1/4	
1/2	1,893.64	1/2	1,561.60	1/2	1,229.57	1/2	899.08	1/2	588.78	1/2	300.19	1/2	36.06	1/2		1/2		1/2	
3/4	1,886.72	3/4	1,554.68	3/4	1,222.65	3/4	892.40	3/4	582.54	3/4	294.44	3/4	32.34	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 PMA
RECALCULATED: 08/30/2021 PMA
NAME CHANGE: 08/30/2021 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2021

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



BARGE "KIRBY 29047"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,491.90	0	4,185.31	0	3,869.27	0	3,541.06	0	3,209.22	0	2,877.39	0	2,545.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,485.04	1/4	4,178.85	1/4	3,862.55	1/4	3,534.15	1/4	3,202.31	1/4	2,870.47	1/4	2,538.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,478.19	1/2	4,172.39	1/2	3,855.83	1/2	3,527.24	1/2	3,195.40	1/2	2,863.56	1/2	2,531.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,471.33	3/4	4,165.91	3/4	3,849.08	3/4	3,520.32	3/4	3,188.48	3/4	2,856.65	3/4	2,524.76		
1		1		1		1	4,464.48	1	4,159.43	1	3,842.34	1	3,513.41	1	3,181.57	1	2,849.73	1	2,517.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,457.62	1/4	4,152.95	1/4	3,835.60	1/4	3,506.50	1/4	3,174.66	1/4	2,842.82	1/4	2,510.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,450.77	1/2	4,146.47	1/2	3,828.85	1/2	3,499.58	1/2	3,167.74	1/2	2,835.91	1/2	2,504.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,444.54	3/4	4,139.96	3/4	3,822.09	3/4	3,492.67	3/4	3,160.83	3/4	2,828.99	3/4	2,497.09		
2		2		2		2	4,438.31	2	4,133.46	2	3,815.33	2	3,485.76	2	3,153.92	2	2,822.08	2	2,490.17		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,432.09	1/4	4,126.96	1/4	3,808.56	1/4	3,478.84	1/4	3,147.00	1/4	2,815.17	1/4	2,483.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,425.86	1/2	4,120.46	1/2	3,801.80	1/2	3,471.93	1/2	3,140.09	1/2	2,808.25	1/2	2,476.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,419.62	3/4	4,113.94	3/4	3,795.02	3/4	3,465.02	3/4	3,133.18	3/4	2,801.34	3/4	2,469.42		
3		3		3		3	4,413.37	3	4,107.42	3	3,788.23	3	3,458.10	3	3,126.26	3	2,794.43	3	2,462.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,407.13	1/4	4,100.90	1/4	3,781.45	1/4	3,451.19	1/4	3,119.35	1/4	2,787.51	1/4	2,455.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,400.88	1/2	4,094.37	1/2	3,774.67	1/2	3,444.28	1/2	3,112.44	1/2	2,780.60	1/2	2,448.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,394.61	3/4	4,087.83	3/4	3,767.86	3/4	3,437.36	3/4	3,105.52	3/4	2,773.69	3/4	2,441.75		
4		4		4		4	4,388.35	4	4,081.29	4	3,761.06	4	3,430.45	4	3,098.61	4	2,766.77	4	2,434.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,382.08	1/4	4,074.75	1/4	3,754.26	1/4	3,423.54	1/4	3,091.70	1/4	2,759.86	1/4	2,427.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,375.82	1/2	4,068.21	1/2	3,747.46	1/2	3,416.62	1/2	3,084.78	1/2	2,752.95	1/2	2,421.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,369.53	3/4	4,061.65	3/4	3,740.63	3/4	3,409.71	3/4	3,077.87	3/4	2,746.03	3/4	2,414.08		
5		5		5		5	4,363.25	5	4,055.09	5	3,733.81	5	3,402.80	5	3,070.96	5	2,739.12	5	2,407.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,356.96	1/4	4,048.52	1/4	3,726.99	1/4	3,395.88	1/4	3,064.04	1/4	2,732.21	1/4	2,400.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,350.68	1/2	4,041.96	1/2	3,720.16	1/2	3,388.97	1/2	3,057.13	1/2	2,725.29	1/2	2,393.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,344.37	3/4	4,035.38	3/4	3,713.32	3/4	3,382.06	3/4	3,050.22	3/4	2,718.38	3/4	2,386.41		
6		6		6		6	4,338.07	6	4,028.80	6	3,706.48	6	3,375.14	6	3,043.30	6	2,711.47	6	2,379.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,331.77	1/4	4,022.22	1/4	3,699.63	1/4	3,368.23	1/4	3,036.39	1/4	2,704.55	1/4	2,372.57		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,325.47	1/2	4,015.64	1/2	3,692.79	1/2	3,361.32	1/2	3,029.48	1/2	2,697.64	1/2	2,365.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,319.15	3/4	4,009.03	3/4	3,685.93	3/4	3,354.40	3/4	3,022.56	3/4	2,690.73	3/4	2,358.74		
7		7		7		7	4,312.83	7	4,002.43	7	3,679.06	7	3,347.49	7	3,015.65	7	2,683.81	7	2,351.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,306.50	1/4	3,995.83	1/4	3,672.20	1/4	3,340.58	1/4	3,008.74	1/4	2,676.90	1/4	2,344.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,603.01	1/2	4,300.18	1/2	3,989.23	1/2	3,665.34	1/2	3,333.66	1/2	3,001.82	1/2	2,669.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,598.46	3/4	4,293.84	3/4	3,982.61	3/4	3,658.45	3/4	3,326.75	3/4	2,994.91	3/4	2,663.07		
8		8		8		8	4,593.91	8	4,287.50	8	3,975.99	8	3,651.57	8	3,319.84	8	2,988.00	8	2,656.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,589.36	1/4	4,281.16	1/4	3,969.37	1/4	3,644.69	1/4	3,312.92	1/4	2,981.08	1/4	2,649.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,584.81	1/2	4,274.82	1/2	3,962.74	1/2	3,637.80	1/2	3,306.01	1/2	2,974.17	1/2	2,642.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,578.72	3/4	4,268.45	3/4	3,956.10	3/4	3,630.90	3/4	3,299.10	3/4	2,967.26	3/4	2,635.42		
9		9		9		9	4,572.63	9	4,262.09	9	3,949.46	9	3,624.00	9	3,292.18	9	2,960.34	9	2,628.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,566.55	1/4	4,255.73	1/4	3,942.82	1/4	3,617.10	1/4	3,285.27	1/4	2,953.43	1/4	2,621.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,560.46	1/2	4,249.37	1/2	3,936.18	1/2	3,610.20	1/2	3,278.36	1/2	2,946.52	1/2	2,614.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,553.60	3/4	4,242.99	3/4	3,929.52	3/4	3,603.28	3/4	3,271.44	3/4	2,939.61	3/4	2,607.76		
10		10		10		10	4,546.75	10	4,236.61	10	3,922.86	10	3,596.37	10	3,264.53	10	2,932.69	10	2,600.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,539.89	1/4	4,230.23	1/4	3,916.19	1/4	3,589.46	1/4	3,257.62	1/4	2,925.78	1/4	2,593.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,533.03	1/2	4,223.84	1/2	3,909.53	1/2	3,582.54	1/2	3,250.70	1/2	2,918.87	1/2	2,587.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,526.18	3/4	4,217.44	3/4	3,902.83	3/4	3,575.63	3/4	3,243.79	3/4	2,911.95	3/4	2,580.09		
11		11		11		11	4,519.32	11	4,211.04	11	3,896.13	11	3,568.72	11	3,236.88	11	2,905.04	11	2,573.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,512.47	1/4	4,204.64	1/4	3,889.42	1/4	3,561.80	1/4	3,229.96	1/4	2,898.13	1/4	2,566.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,505.61	1/2	4,198.24	1/2	3,882.72	1/2	3,554.89	1/2	3,223.05	1/2	2,891.21	1/2	2,559.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,498.76	3/4	4,191.78	3/4	3,876.00	3/4	3,547.98	3/4	3,216.14	3/4	2,884.30	3/4	2,552.42		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29047"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01 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	2,213.48	0	1,881.45	0	1,549.42	0	1,217.39	0	887.05	0	576.24	0	288.70	0	28.63	0		0	
1/4	2,206.56	1/4	1,874.53	1/4	1,542.50	1/4	1,210.47	1/4	880.33	1/4	570.00	1/4	282.96	1/4	24.92	1/4		1/4	
1/2	2,199.64	1/2	1,867.61	1/2	1,535.58	1/2	1,203.55	1/2	873.60	1/2	563.76	1/2	277.21	1/2	21.21	1/2		1/2	
3/4	2,192.72	3/4	1,860.69	3/4	1,528.66	3/4	1,196.63	3/4	866.92	3/4	557.57	3/4	271.51	3/4	19.07	3/4		3/4	
1	2,185.81	1	1,853.78	1	1,521.75	1	1,189.72	1	860.23	1	551.37	1	265.80	1	16.93	1		1	
1/4	2,178.89	1/4	1,846.86	1/4	1,514.83	1/4	1,182.80	1/4	853.55	1/4	545.17	1/4	260.10	1/4	14.80	1/4		1/4	
1/2	2,171.97	1/2	1,839.94	1/2	1,507.91	1/2	1,175.88	1/2	846.87	1/2	538.98	1/2	254.40	1/2	12.66	1/2		1/2	
3/4	2,165.06	3/4	1,833.03	3/4	1,500.99	3/4	1,168.96	3/4	840.23	3/4	532.82	3/4	248.73	3/4		3/4		3/4	
2	2,158.14	2	1,826.11	2	1,494.08	2	1,162.05	2	833.59	2	526.66	2	243.07	2		2		2	
1/4	2,151.22	1/4	1,819.19	1/4	1,487.16	1/4	1,155.13	1/4	826.96	1/4	520.51	1/4	237.41	1/4		1/4		1/4	
1/2	2,144.30	1/2	1,812.27	1/2	1,480.24	1/2	1,148.21	1/2	820.32	1/2	514.35	1/2	231.75	1/2		1/2		1/2	
3/4	2,137.39	3/4	1,805.36	3/4	1,473.33	3/4	1,141.30	3/4	813.73	3/4	508.24	3/4	226.13	3/4		3/4		3/4	
3	2,130.47	3	1,798.44	3	1,466.41	3	1,134.38	3	807.13	3	502.12	3	220.50	3		3		3	
1/4	2,123.55	1/4	1,791.52	1/4	1,459.49	1/4	1,127.46	1/4	800.54	1/4	496.01	1/4	214.88	1/4		1/4		1/4	
1/2	2,116.63	1/2	1,784.60	1/2	1,452.57	1/2	1,120.54	1/2	793.94	1/2	489.89	1/2	209.26	1/2		1/2		1/2	
3/4	2,109.72	3/4	1,777.69	3/4	1,445.66	3/4	1,113.63	3/4	787.39	3/4	483.82	3/4	203.68	3/4		3/4		3/4	
4	2,102.80	4	1,770.77	4	1,438.74	4	1,106.71	4	780.83	4	477.74	4	198.10	4		4		4	
1/4	2,095.88	1/4	1,763.85	1/4	1,431.82	1/4	1,099.79	1/4	774.28	1/4	471.67	1/4	192.52	1/4		1/4		1/4	
1/2	2,088.97	1/2	1,756.93	1/2	1,424.90	1/2	1,092.87	1/2	767.73	1/2	465.60	1/2	186.94	1/2		1/2		1/2	
3/4	2,082.05	3/4	1,750.02	3/4	1,417.99	3/4	1,085.96	3/4	761.21	3/4	459.57	3/4	181.40	3/4		3/4		3/4	
5	2,075.13	5	1,743.10	5	1,411.07	5	1,079.04	5	754.70	5	453.55	5	175.86	5		5		5	
1/4	2,068.21	1/4	1,736.18	1/4	1,404.15	1/4	1,072.12	1/4	748.19	1/4	447.52	1/4	170.32	1/4		1/4		1/4	
1/2	2,061.30	1/2	1,729.27	1/2	1,397.24	1/2	1,065.20	1/2	741.68	1/2	441.49	1/2	164.78	1/2		1/2		1/2	
3/4	2,054.38	3/4	1,722.35	3/4	1,390.32	3/4	1,058.29	3/4	735.20	3/4	435.51	3/4	159.28	3/4		3/4		3/4	
6	2,047.46	6	1,715.43	6	1,383.40	6	1,051.37	6	728.73	6	429.53	6	153.79	6		6		6	
1/4	2,040.54	1/4	1,708.51	1/4	1,376.48	1/4	1,044.45	1/4	722.26	1/4	423.54	1/4	148.29	1/4		1/4		1/4	
1/2	2,033.63	1/2	1,701.60	1/2	1,369.57	1/2	1,037.54	1/2	715.79	1/2	417.56	1/2	142.79	1/2		1/2		1/2	
3/4	2,026.71	3/4	1,694.68	3/4	1,362.65	3/4	1,030.62	3/4	709.36	3/4	411.61	3/4	137.33	3/4		3/4		3/4	
7	2,019.79	7	1,687.76	7	1,355.73	7	1,023.70	7	702.93	7	405.66	7	131.88	7		7		7	
1/4	2,012.87	1/4	1,680.84	1/4	1,348.81	1/4	1,016.78	1/4	696.50	1/4	399.71	1/4	126.42	1/4		1/4		1/4	
1/2	2,005.96	1/2	1,673.93	1/2	1,341.90	1/2	1,009.87	1/2	690.07	1/2	393.76	1/2	120.96	1/2		1/2		1/2	
3/4	1,999.04	3/4	1,667.01	3/4	1,334.98	3/4	1,002.97	3/4	683.68	3/4	387.85	3/4	115.55	3/4		3/4		3/4	
8	1,992.12	8	1,660.09	8	1,328.06	8	996.07	8	677.29	8	381.94	8	110.13	8		8		8	
1/4	1,985.21	1/4	1,653.18	1/4	1,321.14	1/4	989.18	1/4	670.90	1/4	376.03	1/4	104.71	1/4		1/4		1/4	
1/2	1,978.29	1/2	1,646.26	1/2	1,314.23	1/2	982.28	1/2	664.51	1/2	370.12	1/2	99.30	1/2		1/2		1/2	
3/4	1,971.37	3/4	1,639.34	3/4	1,307.31	3/4	975.42	3/4	658.16	3/4	364.25	3/4	93.92	3/4		3/4		3/4	
9	1,964.45	9	1,632.42	9	1,300.39	9	968.57	9	651.82	9	358.38	9	88.55	9		9		9	
1/4	1,957.54	1/4	1,625.51	1/4	1,293.48	1/4	961.71	1/4	645.47	1/4	352.51	1/4	83.17	1/4		1/4		1/4	
1/2	1,950.62	1/2	1,618.59	1/2	1,286.56	1/2	954.86	1/2	639.12	1/2	346.65	1/2	77.80	1/2		1/2		1/2	
3/4	1,943.70	3/4	1,611.67	3/4	1,279.64	3/4	948.04	3/4	632.80	3/4	340.82	3/4	72.47	3/4		3/4		3/4	
10	1,936.78	10	1,604.75	10	1,272.72	10	941.23	10	626.48	10	334.99	10	67.13	10		10		10	
1/4	1,929.87	1/4	1,597.84	1/4	1,265.81	1/4	934.41	1/4	620.16	1/4	329.16	1/4	61.80	1/4		1/4		1/4	
1/2	1,922.95	1/2	1,590.92	1/2	1,258.89	1/2	927.60	1/2	613.84	1/2	323.34	1/2	56.46	1/2		1/2		1/2	
3/4	1,916.03	3/4	1,584.00	3/4	1,251.97	3/4	920.83	3/4	607.56	3/4	317.55	3/4	51.36	3/4		3/4		3/4	
11	1,909.12	11	1,577.08	11	1,245.05	11	914.05	11	601.28	11	311.76	11	46.26	11		11		11	
1/4	1,902.20	1/4	1,570.17	1/4	1,238.14	1/4	907.28	1/4	595.00	1/4	305.98	1/4	41.16	1/4		1/4		1/4	
1/2	1,895.28	1/2	1,563.25	1/2	1,231.22	1/2	900.51	1/2	588.72	1/2	300.19	1/2	36.06	1/2		1/2		1/2	
3/4	1,888.36	3/4	1,556.33	3/4	1,224.30	3/4	893.78	3/4	582.48	3/4	294.45	3/4	32.35	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 PMA
RECALCULATED: 08/30/2021 PMA
NAME CHANGE: 08/30/2021 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2021

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 29047"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,397.53	0	5,039.15	0	4,668.50	0	4,283.92	0	3,895.55	0	3,507.18	0	3,118.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,389.49	1/4	5,031.56	1/4	4,660.61	1/4	4,275.83	1/4	3,887.46	1/4	3,499.09	1/4	3,110.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,381.46	1/2	5,023.97	1/2	4,652.72	1/2	4,267.74	1/2	3,879.37	1/2	3,491.00	1/2	3,102.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,373.43	3/4	5,016.38	3/4	4,644.82	3/4	4,259.65	3/4	3,871.28	3/4	3,482.91	3/4	3,094.47
1		1		1		1	5,365.39	1	5,008.80	1	4,636.93	1	4,251.56	1	3,863.19	1	3,474.81	1	3,086.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,358.10	1/4	5,001.18	1/4	4,629.02	1/4	4,243.47	1/4	3,855.10	1/4	3,466.72	1/4	3,078.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,350.80	1/2	4,993.57	1/2	4,621.10	1/2	4,235.38	1/2	3,847.01	1/2	3,458.63	1/2	3,070.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,343.50	3/4	4,985.96	3/4	4,613.19	3/4	4,227.29	3/4	3,838.91	3/4	3,450.54	3/4	3,062.09
2		2		2		2	5,336.21	2	4,978.34	2	4,605.27	2	4,219.20	2	3,830.82	2	3,442.45	2	3,054.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,328.89	1/4	4,970.71	1/4	4,597.33	1/4	4,211.10	1/4	3,822.73	1/4	3,434.36	1/4	3,045.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,321.57	1/2	4,963.07	1/2	4,589.39	1/2	4,203.01	1/2	3,814.64	1/2	3,426.27	1/2	3,037.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,314.25	3/4	4,955.43	3/4	4,581.45	3/4	4,194.92	3/4	3,806.55	3/4	3,418.18	3/4	3,029.71
3		3		3		3	5,306.93	3	4,947.80	3	4,573.51	3	4,186.83	3	3,798.46	3	3,410.09	3	3,021.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,299.58	1/4	4,940.14	1/4	4,565.55	1/4	4,178.74	1/4	3,790.37	1/4	3,401.99	1/4	3,013.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,292.24	1/2	4,932.48	1/2	4,557.59	1/2	4,170.65	1/2	3,782.28	1/2	3,393.90	1/2	3,005.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,284.90	3/4	4,924.82	3/4	4,549.63	3/4	4,162.56	3/4	3,774.19	3/4	3,385.81	3/4	2,997.33
4		4		4		4	5,277.55	4	4,917.16	4	4,541.66	4	4,154.47	4	3,766.09	4	3,377.72	4	2,989.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,270.19	1/4	4,909.48	1/4	4,533.68	1/4	4,146.38	1/4	3,758.00	1/4	3,369.63	1/4	2,981.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,262.82	1/2	4,901.79	1/2	4,525.69	1/2	4,138.29	1/2	3,749.91	1/2	3,361.54	1/2	2,973.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,255.45	3/4	4,894.11	3/4	4,517.71	3/4	4,130.19	3/4	3,741.82	3/4	3,353.45	3/4	2,964.95
5		5		5		5	5,248.09	5	4,886.43	5	4,509.72	5	4,122.10	5	3,733.73	5	3,345.36	5	2,956.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,240.70	1/4	4,878.72	1/4	4,501.71	1/4	4,114.01	1/4	3,725.64	1/4	3,337.27	1/4	2,948.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,233.32	1/2	4,871.01	1/2	4,493.70	1/2	4,105.92	1/2	3,717.55	1/2	3,329.18	1/2	2,940.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,225.93	3/4	4,863.31	3/4	4,485.69	3/4	4,097.83	3/4	3,709.46	3/4	3,321.08	3/4	2,932.57
6		6		6		6	5,218.54	6	4,855.60	6	4,477.69	6	4,089.74	6	3,701.37	6	3,312.99	6	2,924.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,211.13	1/4	4,847.87	1/4	4,469.65	1/4	4,081.65	1/4	3,693.27	1/4	3,304.90	1/4	2,916.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,203.72	1/2	4,840.14	1/2	4,461.62	1/2	4,073.56	1/2	3,685.18	1/2	3,296.81	1/2	2,908.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,196.32	3/4	4,832.41	3/4	4,453.59	3/4	4,065.47	3/4	3,677.09	3/4	3,288.72	3/4	2,900.19
7		7	5,543.81	7	5,188.91	7	4,824.68	7	4,445.55	7	4,057.37	7	3,669.00	7	3,280.63	7	2,892.10		
1/4	1/4	1/4	5,538.47	1/4	5,181.47	1/4	4,816.93	1/4	4,437.50	1/4	4,049.28	1/4	3,660.91	1/4	3,272.54	1/4	2,884.00		
1/2	1/2	1/2	5,533.14	1/2	5,174.04	1/2	4,809.17	1/2	4,429.44	1/2	4,041.19	1/2	3,652.82	1/2	3,264.45	1/2	2,875.91		
3/4	3/4	3/4	5,527.80	3/4	5,166.61	3/4	4,801.42	3/4	4,421.39	3/4	4,033.10	3/4	3,644.73	3/4	3,256.36	3/4	2,867.81		
8		8	5,522.47	8	5,159.17	8	4,793.67	8	4,413.33	8	4,025.01	8	3,636.64	8	3,248.26	8	2,859.72		
1/4	1/4	1/4	5,515.33	1/4	5,151.72	1/4	4,785.89	1/4	4,405.25	1/4	4,016.92	1/4	3,628.55	1/4	3,240.17	1/4	2,851.62		
1/2	1/2	1/2	5,508.20	1/2	5,144.26	1/2	4,778.11	1/2	4,397.17	1/2	4,008.83	1/2	3,620.45	1/2	3,232.08	1/2	2,843.53		
3/4	3/4	3/4	5,501.06	3/4	5,136.81	3/4	4,770.34	3/4	4,389.10	3/4	4,000.74	3/4	3,612.36	3/4	3,223.99	3/4	2,835.43		
9		9	5,493.93	9	5,129.35	9	4,762.56	9	4,381.02	9	3,992.65	9	3,604.27	9	3,215.90	9	2,827.33		
1/4	1/4	1/4	5,485.90	1/4	5,121.87	1/4	4,754.76	1/4	4,372.93	1/4	3,984.55	1/4	3,596.18	1/4	3,207.80	1/4	2,819.24		
1/2	1/2	1/2	5,477.86	1/2	5,114.39	1/2	4,746.96	1/2	4,364.84	1/2	3,976.46	1/2	3,588.09	1/2	3,199.71	1/2	2,811.14		
3/4	3/4	3/4	5,469.83	3/4	5,106.91	3/4	4,739.16	3/4	4,356.74	3/4	3,968.37	3/4	3,580.00	3/4	3,191.61	3/4	2,803.05		
10		10	5,461.79	10	5,099.43	10	4,731.36	10	4,348.65	10	3,960.28	10	3,571.91	10	3,183.52	10	2,794.95		
1/4	1/4	1/4	5,453.76	1/4	5,091.93	1/4	4,723.51	1/4	4,340.56	1/4	3,952.19	1/4	3,563.82	1/4	3,175.42	1/4	2,786.86		
1/2	1/2	1/2	5,445.73	1/2	5,084.42	1/2	4,715.67	1/2	4,332.47	1/2	3,944.10	1/2	3,555.73	1/2	3,167.33	1/2	2,778.76		
3/4	3/4	3/4	5,437.69	3/4	5,076.92	3/4	4,707.82	3/4	4,324.38	3/4	3,936.01	3/4	3,547.63	3/4	3,159.23	3/4	2,770.67		
11		11	5,429.66	11	5,069.42	11	4,699.98	11	4,316.29	11	3,927.92	11	3,539.54	11	3,151.14	11	2,762.57		
1/4	1/4	1/4	5,421.63	1/4	5,061.85	1/4	4,692.11	1/4	4,308.20	1/4	3,919.83	1/4	3,531.45	1/4	3,143.04	1/4	2,754.48		
1/2	1/2	1/2	5,413.59	1/2	5,054.29	1/2	4,684.24	1/2	4,300.11	1/2	3,911.73	1/2	3,523.36	1/2	3,134.95	1/2	2,746.38		
3/4	3/4	3/4	5,405.56	3/4	5,046.72	3/4	4,676.37	3/4	4,292.02	3/4	3,903.64	3/4	3,515.27	3/4	3,126.85	3/4	2,738.29		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29047"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01"

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	2,730.19	0	2,341.63	0	1,953.06	0	1,564.50	0	1,179.39	0	801.76	0	413.21	0	32.75	0		0	
1/4	2,722.10	1/4	2,333.53	1/4	1,944.97	1/4	1,556.40	1/4	1,171.59	1/4	793.67	1/4	405.11	1/4	28.25	1/4		1/4	
1/2	2,714.00	1/2	2,325.44	1/2	1,936.87	1/2	1,548.31	1/2	1,163.79	1/2	785.57	1/2	397.02	1/2	23.75	1/2		1/2	
3/4	2,705.91	3/4	2,317.34	3/4	1,928.78	3/4	1,540.21	3/4	1,155.99	3/4	777.48	3/4	388.92	3/4	19.25	3/4		3/4	
1	2,697.81	1	2,309.25	1	1,920.68	1	1,532.12	1	1,148.20	1	769.38	1	380.83	1	14.76	1		1	
1/4	2,689.72	1/4	2,301.15	1/4	1,912.59	1/4	1,524.02	1/4	1,140.41	1/4	761.29	1/4	372.73	1/4		1/4		1/4	
1/2	2,681.62	1/2	2,293.06	1/2	1,904.49	1/2	1,515.93	1/2	1,132.61	1/2	753.19	1/2	364.64	1/2		1/2		1/2	
3/4	2,673.53	3/4	2,284.96	3/4	1,896.40	3/4	1,507.83	3/4	1,124.82	3/4	745.10	3/4	356.54	3/4		3/4		3/4	
2	2,665.43	2	2,276.87	2	1,888.30	2	1,499.74	2	1,117.03	2	737.00	2	348.45	2		2		2	
1/4	2,657.34	1/4	2,268.77	1/4	1,880.21	1/4	1,491.64	1/4	1,109.24	1/4	728.91	1/4	340.35	1/4		1/4		1/4	
1/2	2,649.24	1/2	2,260.68	1/2	1,872.11	1/2	1,483.55	1/2	1,101.45	1/2	720.81	1/2	332.26	1/2		1/2		1/2	
3/4	2,641.15	3/4	2,252.58	3/4	1,864.02	3/4	1,475.45	3/4	1,093.66	3/4	712.72	3/4	324.16	3/4		3/4		3/4	
3	2,633.05	3	2,244.49	3	1,855.92	3	1,467.36	3	1,085.87	3	704.62	3	316.07	3		3		3	
1/4	2,624.96	1/4	2,236.39	1/4	1,847.83	1/4	1,459.26	1/4	1,078.08	1/4	696.53	1/4	307.97	1/4		1/4		1/4	
1/2	2,616.86	1/2	2,228.30	1/2	1,839.73	1/2	1,451.17	1/2	1,070.29	1/2	688.43	1/2	299.88	1/2		1/2		1/2	
3/4	2,608.77	3/4	2,220.20	3/4	1,831.64	3/4	1,443.07	3/4	1,062.50	3/4	680.34	3/4	291.78	3/4		3/4		3/4	
4	2,600.67	4	2,212.11	4	1,823.54	4	1,434.98	4	1,054.71	4	672.24	4	283.69	4		4		4	
1/4	2,592.58	1/4	2,204.01	1/4	1,815.45	1/4	1,426.88	1/4	1,046.92	1/4	664.15	1/4	275.59	1/4		1/4		1/4	
1/2	2,584.48	1/2	2,195.92	1/2	1,807.35	1/2	1,418.79	1/2	1,039.13	1/2	656.05	1/2	267.50	1/2		1/2		1/2	
3/4	2,576.39	3/4	2,187.82	3/4	1,799.26	3/4	1,410.69	3/4	1,031.34	3/4	647.96	3/4	259.40	3/4		3/4		3/4	
5	2,568.29	5	2,179.73	5	1,791.16	5	1,402.60	5	1,023.55	5	639.86	5	251.31	5		5		5	
1/4	2,560.20	1/4	2,171.63	1/4	1,783.07	1/4	1,394.50	1/4	1,015.76	1/4	631.77	1/4	243.21	1/4		1/4		1/4	
1/2	2,552.10	1/2	2,163.54	1/2	1,774.97	1/2	1,386.41	1/2	1,007.97	1/2	623.67	1/2	235.12	1/2		1/2		1/2	
3/4	2,544.01	3/4	2,155.44	3/4	1,766.88	3/4	1,378.31	3/4	1,000.18	3/4	615.58	3/4	227.02	3/4		3/4		3/4	
6	2,535.91	6	2,147.35	6	1,758.78	6	1,370.22	6	992.39	6	607.48	6	218.93	6		6		6	
1/4	2,527.82	1/4	2,139.25	1/4	1,750.69	1/4	1,362.12	1/4	984.60	1/4	599.39	1/4	210.83	1/4		1/4		1/4	
1/2	2,519.72	1/2	2,131.16	1/2	1,742.59	1/2	1,354.03	1/2	976.80	1/2	591.29	1/2	202.74	1/2		1/2		1/2	
3/4	2,511.63	3/4	2,123.06	3/4	1,734.50	3/4	1,345.93	3/4	969.01	3/4	583.20	3/4	194.64	3/4		3/4		3/4	
7	2,503.53	7	2,114.97	7	1,726.40	7	1,337.84	7	961.22	7	575.10	7	186.55	7		7		7	
1/4	2,495.44	1/4	2,106.87	1/4	1,718.31	1/4	1,329.74	1/4	953.43	1/4	567.01	1/4	178.45	1/4		1/4		1/4	
1/2	2,487.34	1/2	2,098.78	1/2	1,710.21	1/2	1,321.65	1/2	945.64	1/2	558.91	1/2	170.36	1/2		1/2		1/2	
3/4	2,479.25	3/4	2,090.68	3/4	1,702.12	3/4	1,313.55	3/4	937.85	3/4	550.82	3/4	162.26	3/4		3/4		3/4	
8	2,471.15	8	2,082.59	8	1,694.02	8	1,305.46	8	930.06	8	542.72	8	154.17	8		8		8	
1/4	2,463.06	1/4	2,074.49	1/4	1,685.93	1/4	1,297.36	1/4	922.27	1/4	534.63	1/4	146.07	1/4		1/4		1/4	
1/2	2,454.96	1/2	2,066.40	1/2	1,677.83	1/2	1,289.27	1/2	914.48	1/2	526.53	1/2	137.98	1/2		1/2		1/2	
3/4	2,446.87	3/4	2,058.30	3/4	1,669.74	3/4	1,281.17	3/4	906.69	3/4	518.44	3/4	129.88	3/4		3/4		3/4	
9	2,438.77	9	2,050.21	9	1,661.64	9	1,273.08	9	898.90	9	510.34	9	121.79	9		9		9	
1/4	2,430.67	1/4	2,042.11	1/4	1,653.55	1/4	1,265.26	1/4	890.80	1/4	502.25	1/4	113.69	1/4		1/4		1/4	
1/2	2,422.58	1/2	2,034.02	1/2	1,645.45	1/2	1,257.45	1/2	882.71	1/2	494.15	1/2	105.60	1/2		1/2		1/2	
3/4	2,414.48	3/4	2,025.92	3/4	1,637.36	3/4	1,249.64	3/4	874.61	3/4	486.06	3/4	97.50	3/4		3/4		3/4	
10	2,406.39	10	2,017.82	10	1,629.26	10	1,241.83	10	866.52	10	477.96	10	89.41	10		10		10	
1/4	2,398.29	1/4	2,009.73	1/4	1,621.16	1/4	1,234.02	1/4	858.43	1/4	469.87	1/4	81.54	1/4		1/4		1/4	
1/2	2,390.20	1/2	2,001.63	1/2	1,613.07	1/2	1,226.20	1/2	850.33	1/2	461.78	1/2	73.67	1/2		1/2		1/2	
3/4	2,382.10	3/4	1,993.54	3/4	1,604.97	3/4	1,218.39	3/4	842.24	3/4	453.68	3/4	65.80	3/4		3/4		3/4	
11	2,374.01	11	1,985.44	11	1,596.88	11	1,210.58	11	834.14	11	445.59	11	57.93	11		11		11	
1/4	2,365.91	1/4	1,977.35	1/4	1,588.78	1/4	1,202.78	1/4	826.05	1/4	437.49	1/4	51.63	1/4		1/4		1/4	
1/2	2,357.82	1/2	1,969.25	1/2	1,580.69	1/2	1,194.98	1/2	817.95	1/2	429.40	1/2	45.34	1/2		1/2		1/2	
3/4	2,349.72	3/4	1,961.16	3/4	1,572.59	3/4	1,187.19	3/4	809.86	3/4	421.30	3/4	39.04	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 PMA
RECALCULATED: 08/30/2021 PMA
NAME CHANGE: 08/30/2021 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2021

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



BARGE "KIRBY 29047"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,419.48	0	5,060.65	0	4,690.30	0	4,305.94	0	3,917.57	0	3,529.20	0	3,140.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,411.45	1/4	5,053.08	1/4	4,682.43	1/4	4,297.85	1/4	3,909.48	1/4	3,521.11	1/4	3,132.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,403.42	1/2	5,045.49	1/2	4,674.54	1/2	4,289.76	1/2	3,901.39	1/2	3,513.02	1/2	3,124.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,395.38	3/4	5,037.90	3/4	4,666.65	3/4	4,281.67	3/4	3,893.30	3/4	3,504.93	3/4	3,116.50		
1		1		1		1	5,387.35	1	5,030.31	1	4,658.75	1	4,273.58	1	3,885.21	1	3,496.83	1	3,108.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,379.31	1/4	5,022.72	1/4	4,650.86	1/4	4,265.49	1/4	3,877.12	1/4	3,488.74	1/4	3,100.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,372.02	1/2	5,015.11	1/2	4,642.95	1/2	4,257.40	1/2	3,869.03	1/2	3,480.65	1/2	3,092.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,364.72	3/4	5,007.50	3/4	4,635.03	3/4	4,249.31	3/4	3,860.93	3/4	3,472.56	3/4	3,084.12		
2		2		2		2	5,357.43	2	4,999.88	2	4,627.11	2	4,241.22	2	3,852.84	2	3,464.47	2	3,076.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,350.13	1/4	4,992.27	1/4	4,619.20	1/4	4,233.12	1/4	3,844.75	1/4	3,456.38	1/4	3,067.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,342.81	1/2	4,984.63	1/2	4,611.26	1/2	4,225.03	1/2	3,836.66	1/2	3,448.29	1/2	3,059.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,335.49	3/4	4,977.00	3/4	4,603.32	3/4	4,216.94	3/4	3,828.57	3/4	3,440.20	3/4	3,051.74		
3		3		3		3	5,328.17	3	4,969.36	3	4,595.38	3	4,208.85	3	3,820.48	3	3,432.11	3	3,043.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,320.85	1/4	4,961.73	1/4	4,587.44	1/4	4,200.76	1/4	3,812.39	1/4	3,424.01	1/4	3,035.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,313.51	1/2	4,954.07	1/2	4,579.48	1/2	4,192.67	1/2	3,804.30	1/2	3,415.92	1/2	3,027.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,306.16	3/4	4,946.41	3/4	4,571.52	3/4	4,184.58	3/4	3,796.21	3/4	3,407.83	3/4	3,019.36		
4		4		4		4	5,298.82	4	4,938.75	4	4,563.56	4	4,176.49	4	3,788.11	4	3,399.74	4	3,011.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,291.48	1/4	4,931.09	1/4	4,555.59	1/4	4,168.40	1/4	3,780.02	1/4	3,391.65	1/4	3,003.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,284.11	1/2	4,923.40	1/2	4,547.61	1/2	4,160.30	1/2	3,771.93	1/2	3,383.56	1/2	2,995.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,276.75	3/4	4,915.72	3/4	4,539.62	3/4	4,152.21	3/4	3,763.84	3/4	3,375.47	3/4	2,986.98		
5		5		5		5	5,269.38	5	4,908.04	5	4,531.64	5	4,144.12	5	3,755.75	5	3,367.38	5	2,978.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,262.01	1/4	4,900.35	1/4	4,523.65	1/4	4,136.03	1/4	3,747.66	1/4	3,359.29	1/4	2,970.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,254.63	1/2	4,892.65	1/2	4,515.64	1/2	4,127.94	1/2	3,739.57	1/2	3,351.19	1/2	2,962.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,247.24	3/4	4,884.94	3/4	4,507.63	3/4	4,119.85	3/4	3,731.48	3/4	3,343.10	3/4	2,954.59		
6		6		6		6	5,239.85	6	4,877.23	6	4,499.62	6	4,111.76	6	3,723.39	6	3,335.01	6	2,946.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,232.47	1/4	4,869.53	1/4	4,491.61	1/4	4,103.67	1/4	3,715.29	1/4	3,326.92	1/4	2,938.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,225.06	1/2	4,861.80	1/2	4,483.58	1/2	4,095.58	1/2	3,707.20	1/2	3,318.83	1/2	2,930.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,217.65	3/4	4,854.07	3/4	4,475.55	3/4	4,087.49	3/4	3,699.11	3/4	3,310.74	3/4	2,922.21		
7		7		7		7	5,210.24	7	4,846.34	7	4,467.52	7	4,079.39	7	3,691.02	7	3,302.65	7	2,914.12		
1/4	1/4	1/4	5,557.73	1/4	5,202.83	1/4	4,838.61	1/4	4,459.48	1/4	4,071.30	1/4	3,682.93	1/4	3,294.56	1/4	2,906.02				
1/2	1/2	1/2	5,552.39	1/2	5,195.40	1/2	4,830.85	1/2	4,451.43	1/2	4,063.21	1/2	3,674.84	1/2	3,286.47	1/2	2,897.93				
3/4	3/4	3/4	5,547.06	3/4	5,187.97	3/4	4,823.10	3/4	4,443.37	3/4	4,055.12	3/4	3,666.75	3/4	3,278.37	3/4	2,889.83				
8		8		8		8	5,541.72	8	5,180.53	8	4,815.35	8	4,435.32	8	4,047.03	8	3,658.66	8	3,270.28	8	2,881.74
1/4	1/4	1/4	5,536.39	1/4	5,173.10	1/4	4,807.59	1/4	4,427.26	1/4	4,038.94	1/4	3,650.57	1/4	3,262.19	1/4	2,873.64				
1/2	1/2	1/2	5,529.26	1/2	5,165.64	1/2	4,799.82	1/2	4,419.18	1/2	4,030.85	1/2	3,642.47	1/2	3,254.10	1/2	2,865.55				
3/4	3/4	3/4	5,522.12	3/4	5,158.19	3/4	4,792.04	3/4	4,411.10	3/4	4,022.76	3/4	3,634.38	3/4	3,246.01	3/4	2,857.45				
9		9		9		9	5,514.99	9	5,150.73	9	4,784.26	9	4,403.03	9	4,014.67	9	3,626.29	9	3,237.92	9	2,849.36
1/4	1/4	1/4	5,507.85	1/4	5,143.28	1/4	4,776.49	1/4	4,394.95	1/4	4,006.57	1/4	3,618.20	1/4	3,229.83	1/4	2,841.26				
1/2	1/2	1/2	5,499.82	1/2	5,135.80	1/2	4,768.69	1/2	4,386.86	1/2	3,998.48	1/2	3,610.11	1/2	3,221.73	1/2	2,833.17				
3/4	3/4	3/4	5,491.79	3/4	5,128.32	3/4	4,760.89	3/4	4,378.76	3/4	3,990.39	3/4	3,602.02	3/4	3,213.64	3/4	2,825.07				
10		10		10		10	5,483.75	10	5,120.84	10	4,753.09	10	4,370.67	10	3,982.30	10	3,593.93	10	3,205.54	10	2,816.98
1/4	1/4	1/4	5,475.72	1/4	5,113.36	1/4	4,745.29	1/4	4,362.58	1/4	4,374.21	1/4	3,974.21	1/4	3,585.84	1/4	3,197.45	1/4	2,808.88		
1/2	1/2	1/2	5,467.68	1/2	5,105.85	1/2	4,737.44	1/2	4,354.49	1/2	3,966.12	1/2	3,966.12	1/2	3,577.75	1/2	3,189.35	1/2	2,800.79		
3/4	3/4	3/4	5,459.65	3/4	5,098.35	3/4	4,729.60	3/4	4,346.40	3/4	3,958.03	3/4	3,958.03	3/4	3,569.65	3/4	3,181.26	3/4	2,792.69		
11		11		11		11	5,451.62	11	5,090.85	11	4,721.75	11	4,338.31	11	3,949.94	11	3,561.56	11	3,173.16	11	2,784.60
1/4	1/4	1/4	5,443.58	1/4	5,083.35	1/4	4,713.90	1/4	4,330.22	1/4	4,330.22	1/4	3,941.85	1/4	3,553.47	1/4	3,165.07	1/4	2,776.50		
1/2	1/2	1/2	5,435.55	1/2	5,075.78	1/2	4,706.04	1/2	4,322.13	1/2	4,322.13	1/2	3,933.75	1/2	3,545.38	1/2	3,156.97	1/2	2,768.41		
3/4	3/4	3/4	5,427.52	3/4	5,068.21	3/4	4,698.17	3/4	4,314.04	3/4	4,314.04	3/4	3,925.66	3/4	3,537.29	3/4	3,148.88	3/4	2,760.31		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29047"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01 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	2,752.22	0	2,363.65	0	1,975.09	0	1,586.52	0	1,197.98	0	809.86	0	421.30	0	39.04	0		0	
1/4	2,744.12	1/4	2,355.56	1/4	1,966.99	1/4	1,578.43	1/4	1,189.89	1/4	801.76	1/4	413.21	1/4	32.75	1/4		1/4	
1/2	2,736.03	1/2	2,347.46	1/2	1,958.90	1/2	1,570.33	1/2	1,181.80	1/2	793.67	1/2	405.11	1/2	28.25	1/2		1/2	
3/4	2,727.93	3/4	2,339.37	3/4	1,950.80	3/4	1,562.24	3/4	1,173.71	3/4	785.57	3/4	397.02	3/4	23.75	3/4		3/4	
1	2,719.84	1	2,331.27	1	1,942.71	1	1,554.14	1	1,165.62	1	777.48	1	388.92	1	19.26	1		1	
1/4	2,711.74	1/4	2,323.18	1/4	1,934.61	1/4	1,546.05	1/4	1,157.53	1/4	769.38	1/4	380.83	1/4	14.76	1/4		1/4	
1/2	2,703.65	1/2	2,315.08	1/2	1,926.52	1/2	1,537.95	1/2	1,149.45	1/2	761.29	1/2	372.73	1/2		1/2		1/2	
3/4	2,695.55	3/4	2,306.99	3/4	1,918.42	3/4	1,529.86	3/4	1,141.36	3/4	753.19	3/4	364.64	3/4		3/4		3/4	
2	2,687.46	2	2,298.89	2	1,910.33	2	1,521.76	2	1,133.28	2	745.10	2	356.54	2	2	2		2	
1/4	2,679.36	1/4	2,290.80	1/4	1,902.23	1/4	1,513.67	1/4	1,125.20	1/4	737.00	1/4	348.45	1/4		1/4		1/4	
1/2	2,671.27	1/2	2,282.70	1/2	1,894.14	1/2	1,505.57	1/2	1,117.12	1/2	728.91	1/2	340.35	1/2		1/2		1/2	
3/4	2,663.17	3/4	2,274.61	3/4	1,886.04	3/4	1,497.48	3/4	1,109.04	3/4	720.81	3/4	332.26	3/4		3/4		3/4	
3	2,655.08	3	2,266.51	3	1,877.95	3	1,489.38	3	1,100.95	3	712.72	3	324.16	3	3	3		3	
1/4	2,646.98	1/4	2,258.42	1/4	1,869.85	1/4	1,481.29	1/4	1,092.87	1/4	704.62	1/4	316.07	1/4		1/4		1/4	
1/2	2,638.89	1/2	2,250.32	1/2	1,861.76	1/2	1,473.19	1/2	1,084.79	1/2	696.53	1/2	307.97	1/2		1/2		1/2	
3/4	2,630.79	3/4	2,242.23	3/4	1,853.66	3/4	1,465.10	3/4	1,076.71	3/4	688.43	3/4	299.88	3/4		3/4		3/4	
4	2,622.70	4	2,234.13	4	1,845.57	4	1,457.00	4	1,068.63	4	680.34	4	291.78	4	4	4		4	
1/4	2,614.60	1/4	2,226.04	1/4	1,837.47	1/4	1,448.91	1/4	1,060.54	1/4	672.24	1/4	283.69	1/4		1/4		1/4	
1/2	2,606.51	1/2	2,217.94	1/2	1,829.38	1/2	1,440.81	1/2	1,052.46	1/2	664.15	1/2	275.59	1/2		1/2		1/2	
3/4	2,598.41	3/4	2,209.85	3/4	1,821.28	3/4	1,432.72	3/4	1,044.38	3/4	656.05	3/4	267.50	3/4		3/4		3/4	
5	2,590.32	5	2,201.75	5	1,813.19	5	1,424.62	5	1,036.30	5	647.96	5	259.40	5	5	5		5	
1/4	2,582.22	1/4	2,193.66	1/4	1,805.09	1/4	1,416.53	1/4	1,028.22	1/4	639.87	1/4	251.31	1/4		1/4		1/4	
1/2	2,574.13	1/2	2,185.56	1/2	1,797.00	1/2	1,408.43	1/2	1,020.13	1/2	631.77	1/2	243.22	1/2		1/2		1/2	
3/4	2,566.03	3/4	2,177.47	3/4	1,788.90	3/4	1,400.34	3/4	1,012.05	3/4	623.68	3/4	235.12	3/4		3/4		3/4	
6	2,557.94	6	2,169.37	6	1,780.81	6	1,392.24	6	1,003.97	6	615.58	6	227.03	6	6	6		6	
1/4	2,549.84	1/4	2,161.28	1/4	1,772.71	1/4	1,384.15	1/4	995.89	1/4	607.49	1/4	218.93	1/4		1/4		1/4	
1/2	2,541.74	1/2	2,153.18	1/2	1,764.62	1/2	1,376.05	1/2	987.81	1/2	599.39	1/2	210.84	1/2		1/2		1/2	
3/4	2,533.65	3/4	2,145.08	3/4	1,756.52	3/4	1,367.96	3/4	979.72	3/4	591.30	3/4	202.74	3/4		3/4		3/4	
7	2,525.55	7	2,136.99	7	1,748.43	7	1,359.86	7	971.64	7	583.20	7	194.65	7	7	7		7	
1/4	2,517.46	1/4	2,128.89	1/4	1,740.33	1/4	1,351.77	1/4	963.56	1/4	575.11	1/4	186.55	1/4		1/4		1/4	
1/2	2,509.36	1/2	2,120.80	1/2	1,732.23	1/2	1,343.67	1/2	955.48	1/2	567.01	1/2	178.46	1/2		1/2		1/2	
3/4	2,501.27	3/4	2,112.70	3/4	1,724.14	3/4	1,335.57	3/4	947.39	3/4	558.92	3/4	170.36	3/4		3/4		3/4	
8	2,493.17	8	2,104.61	8	1,716.04	8	1,327.48	8	939.31	8	550.82	8	162.27	8	8	8		8	
1/4	2,485.08	1/4	2,096.51	1/4	1,707.95	1/4	1,319.38	1/4	931.23	1/4	542.73	1/4	154.17	1/4		1/4		1/4	
1/2	2,476.98	1/2	2,088.42	1/2	1,699.85	1/2	1,311.29	1/2	923.15	1/2	534.63	1/2	146.08	1/2		1/2		1/2	
3/4	2,468.89	3/4	2,080.32	3/4	1,691.76	3/4	1,303.19	3/4	915.07	3/4	526.54	3/4	137.98	3/4		3/4		3/4	
9	2,460.79	9	2,072.23	9	1,683.66	9	1,295.10	9	906.98	9	518.44	9	129.89	9	9	9		9	
1/4	2,452.70	1/4	2,064.13	1/4	1,675.57	1/4	1,287.00	1/4	898.90	1/4	510.35	1/4	121.79	1/4		1/4		1/4	
1/2	2,444.60	1/2	2,056.04	1/2	1,667.47	1/2	1,278.91	1/2	890.81	1/2	502.25	1/2	113.70	1/2		1/2		1/2	
3/4	2,436.51	3/4	2,047.94	3/4	1,659.38	3/4	1,270.81	3/4	882.71	3/4	494.16	3/4	105.60	3/4		3/4		3/4	
10	2,428.41	10	2,039.85	10	1,651.28	10	1,262.72	10	874.62	10	486.06	10	97.51	10	10	10		10	
1/4	2,420.32	1/4	2,031.75	1/4	1,643.19	1/4	1,254.62	1/4	866.52	1/4	477.97	1/4	89.41	1/4		1/4		1/4	
1/2	2,412.22	1/2	2,023.66	1/2	1,635.09	1/2	1,246.53	1/2	858.43	1/2	469.87	1/2	81.54	1/2		1/2		1/2	
3/4	2,404.13	3/4	2,015.56	3/4	1,627.00	3/4	1,238.43	3/4	850.33	3/4	461.78	3/4	73.67	3/4		3/4		3/4	
11	2,396.03	11	2,007.47	11	1,618.90	11	1,230.34	11	842.24	11	453.68	11	65.80	11	11	11		11	
1/4	2,387.94	1/4	1,999.37	1/4	1,610.81	1/4	1,222.24	1/4	834.14	1/4	445.59	1/4	57.93	1/4		1/4		1/4	
1/2	2,379.84	1/2	1,991.28	1/2	1,602.71	1/2	1,214.15	1/2	826.05	1/2	437.49	1/2	51.64	1/2		1/2		1/2	
3/4	2,371.75	3/4	1,983.18	3/4	1,594.62	3/4	1,206.06	3/4	817.95	3/4	429.40	3/4	45.34	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 PMA
RECALCULATED: 08/30/2021 PMA
NAME CHANGE: 08/30/2021 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2021

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



BARGE "KIRBY 29047"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,626.48	0	4,387.51	0	4,137.57	0	3,874.90	0	3,608.71	0	3,253.20	0	2,893.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,620.97	1/4	4,382.42	1/4	4,132.21	1/4	3,869.36	1/4	3,602.18	1/4	3,245.69	1/4	2,885.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,615.46	1/2	4,377.34	1/2	4,126.85	1/2	3,863.81	1/2	3,595.65	1/2	3,238.19	1/2	2,878.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,609.96	3/4	4,372.25	3/4	4,121.49	3/4	3,858.27	3/4	3,589.11	3/4	3,230.69	3/4	2,870.52
1		1		1		1	4,604.45	1	4,367.17	1	4,116.13	1	3,852.72	1	3,582.58	1	3,223.18	1	2,863.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.63	1/4	4,362.06	1/4	4,110.74	1/4	3,847.18	1/4	3,575.08	1/4	3,215.68	1/4	2,855.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,594.81	1/2	4,356.96	1/2	4,105.36	1/2	3,841.63	1/2	3,567.59	1/2	3,208.18	1/2	2,848.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,589.99	3/4	4,351.85	3/4	4,099.98	3/4	3,836.08	3/4	3,560.10	3/4	3,200.68	3/4	2,840.50
2		2		2		2	4,585.17	2	4,346.74	2	4,094.60	2	3,830.54	2	3,552.60	2	3,193.17	2	2,832.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,580.32	1/4	4,341.61	1/4	4,089.19	1/4	3,824.99	1/4	3,545.11	1/4	3,185.67	1/4	2,825.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,575.48	1/2	4,336.49	1/2	4,083.79	1/2	3,819.45	1/2	3,537.62	1/2	3,178.17	1/2	2,817.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,570.64	3/4	4,331.36	3/4	4,078.38	3/4	3,813.90	3/4	3,530.12	3/4	3,170.67	3/4	2,810.48
3		3		3		3	4,565.80	3	4,326.23	3	4,072.98	3	3,808.36	3	3,522.63	3	3,163.16	3	2,802.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,560.93	1/4	4,321.08	1/4	4,067.55	1/4	3,802.81	1/4	3,515.15	1/4	3,155.66	1/4	2,795.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,556.07	1/2	4,315.93	1/2	4,062.13	1/2	3,797.27	1/2	3,507.67	1/2	3,148.16	1/2	2,787.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,551.20	3/4	4,310.78	3/4	4,056.70	3/4	3,791.72	3/4	3,500.18	3/4	3,140.66	3/4	2,780.46
4		4		4		4	4,546.34	4	4,305.63	4	4,051.28	4	3,786.17	4	3,492.70	4	3,133.15	4	2,772.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,541.45	1/4	4,300.46	1/4	4,045.83	1/4	3,780.63	1/4	3,485.22	1/4	3,125.65	1/4	2,765.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,536.57	1/2	4,295.28	1/2	4,040.38	1/2	3,775.08	1/2	3,477.74	1/2	3,118.15	1/2	2,757.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,531.68	3/4	4,290.11	3/4	4,034.93	3/4	3,769.54	3/4	3,470.26	3/4	3,110.65	3/4	2,750.43
5		5		5		5	4,526.79	5	4,284.94	5	4,029.49	5	3,763.99	5	3,462.77	5	3,103.14	5	2,742.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,521.89	1/4	4,279.75	1/4	4,024.02	1/4	3,758.45	1/4	3,455.29	1/4	3,095.64	1/4	2,735.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,516.98	1/2	4,274.55	1/2	4,018.55	1/2	3,752.90	1/2	3,447.81	1/2	3,088.14	1/2	2,727.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,512.08	3/4	4,269.36	3/4	4,013.08	3/4	3,747.35	3/4	3,440.33	3/4	3,080.64	3/4	2,720.41
6		6		6		6	4,507.17	6	4,264.16	6	4,007.61	6	3,741.81	6	3,432.85	6	3,073.13	6	2,712.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,502.25	1/4	4,258.95	1/4	4,002.12	1/4	3,736.26	1/4	3,425.36	1/4	3,065.63	1/4	2,705.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,497.32	1/2	4,253.73	1/2	3,996.63	1/2	3,730.72	1/2	3,417.88	1/2	3,058.13	1/2	2,697.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,492.39	3/4	4,248.52	3/4	3,991.13	3/4	3,725.17	3/4	3,410.40	3/4	3,050.63	3/4	2,690.39
7		7	4,723.22	7	4,487.47	7	4,243.30	7	3,985.64	7	3,719.63	7	3,402.92	7	3,043.12	7	2,682.89		
1/4	1/4	1/4	4,720.22	1/4	4,482.52	1/4	4,238.06	1/4	3,980.13	1/4	3,714.08	1/4	3,395.44	1/4	3,035.62	1/4	2,675.38		
1/2	1/2	1/2	4,717.23	1/2	4,477.57	1/2	4,232.83	1/2	3,974.62	1/2	3,708.54	1/2	3,387.95	1/2	3,028.12	1/2	2,667.87		
3/4	3/4	3/4	4,714.23	3/4	4,472.62	3/4	4,227.59	3/4	3,969.10	3/4	3,702.99	3/4	3,380.47	3/4	3,020.61	3/4	2,660.37		
8		8	4,711.23	8	4,467.67	8	4,222.35	8	3,963.59	8	3,697.44	8	3,372.99	8	3,013.11	8	2,652.86		
1/4	1/4	1/4	4,706.56	1/4	4,462.70	1/4	4,217.09	1/4	3,958.06	1/4	3,691.90	1/4	3,365.51	1/4	3,005.61	1/4	2,645.36		
1/2	1/2	1/2	4,701.89	1/2	4,457.73	1/2	4,211.83	1/2	3,952.52	1/2	3,686.35	1/2	3,358.03	1/2	2,998.11	1/2	2,637.85		
3/4	3/4	3/4	4,697.22	3/4	4,452.76	3/4	4,206.58	3/4	3,946.99	3/4	3,680.81	3/4	3,350.54	3/4	2,990.60	3/4	2,630.35		
9		9	4,692.55	9	4,447.79	9	4,201.32	9	3,941.45	9	3,675.26	9	3,343.06	9	2,983.10	9	2,622.84		
1/4	1/4	1/4	4,687.05	1/4	4,442.80	1/4	4,196.04	1/4	3,935.91	1/4	3,669.72	1/4	3,335.58	1/4	2,975.60	1/4	2,615.33		
1/2	1/2	1/2	4,681.54	1/2	4,437.80	1/2	4,190.75	1/2	3,930.36	1/2	3,664.17	1/2	3,328.10	1/2	2,968.09	1/2	2,607.82		
3/4	3/4	3/4	4,676.03	3/4	4,432.81	3/4	4,185.47	3/4	3,924.81	3/4	3,658.63	3/4	3,320.62	3/4	2,960.59	3/4	2,600.30		
10		10	4,670.53	10	4,427.82	10	4,180.19	10	3,919.27	10	3,653.08	10	3,313.13	10	2,953.08	10	2,592.79		
1/4	1/4	1/4	4,665.02	1/4	4,422.80	1/4	4,174.88	1/4	3,913.72	1/4	3,647.53	1/4	3,305.65	1/4	2,945.57	1/4	2,585.28		
1/2	1/2	1/2	4,659.51	1/2	4,417.79	1/2	4,169.56	1/2	3,908.18	1/2	3,641.99	1/2	3,298.17	1/2	2,938.07	1/2	2,577.77		
3/4	3/4	3/4	4,654.01	3/4	4,412.78	3/4	4,164.24	3/4	3,902.63	3/4	3,636.44	3/4	3,290.69	3/4	2,930.56	3/4	2,570.25		
11		11	4,648.50	11	4,407.76	11	4,158.92	11	3,897.09	11	3,630.90	11	3,283.21	11	2,923.06	11	2,562.74		
1/4	1/4	1/4	4,642.99	1/4	4,402.70	1/4	4,153.59	1/4	3,891.54	1/4	3,625.35	1/4	3,275.70	1/4	2,915.55	1/4	2,555.23		
1/2	1/2	1/2	4,637.49	1/2	4,397.64	1/2	4,148.25	1/2	3,885.99	1/2	3,619.81	1/2	3,268.20	1/2	2,908.05	1/2	2,547.72		
3/4	3/4	3/4	4,631.98	3/4	4,392.57	3/4	4,142.91	3/4	3,880.45	3/4	3,614.26	3/4	3,260.70	3/4	2,900.54	3/4	2,540.20		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29047"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01"

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	2,532.69	0	2,174.07	0	1,815.72	0	1,455.11	0	1,097.08	0	744.66	0	383.87	0	30.48	0		0	
1/4	2,525.18	1/4	2,166.62	1/4	1,808.21	1/4	1,447.60	1/4	1,089.79	1/4	737.14	1/4	376.35	1/4	26.30	1/4		1/4	
1/2	2,517.66	1/2	2,159.17	1/2	1,800.70	1/2	1,440.09	1/2	1,082.50	1/2	729.63	1/2	368.84	1/2	22.12	1/2		1/2	
3/4	2,510.15	3/4	2,151.72	3/4	1,793.18	3/4	1,432.57	3/4	1,075.21	3/4	722.11	3/4	361.32	3/4	17.93	3/4		3/4	
1	2,502.64	1	2,144.27	1	1,785.67	1	1,425.06	1	1,067.92	1	714.59	1	353.81	1	13.75	1		1	
1/4	2,495.17	1/4	2,136.82	1/4	1,778.16	1/4	1,417.55	1/4	1,060.63	1/4	707.08	1/4	346.29	1/4		1/4		1/4	
1/2	2,487.69	1/2	2,129.37	1/2	1,770.65	1/2	1,410.04	1/2	1,053.35	1/2	699.56	1/2	338.78	1/2		1/2		1/2	
3/4	2,480.22	3/4	2,121.92	3/4	1,763.13	3/4	1,402.52	3/4	1,046.07	3/4	692.04	3/4	331.26	3/4		3/4		3/4	
2	2,472.74	2	2,114.47	2	1,755.62	2	1,395.01	2	1,038.78	2	684.53	2	323.74	2	2	2		2	
1/4	2,465.27	1/4	2,107.02	1/4	1,748.11	1/4	1,387.50	1/4	1,031.50	1/4	677.01	1/4	316.23	1/4		1/4		1/4	
1/2	2,457.79	1/2	2,099.57	1/2	1,740.60	1/2	1,379.99	1/2	1,024.22	1/2	669.49	1/2	308.71	1/2		1/2		1/2	
3/4	2,450.32	3/4	2,092.12	3/4	1,733.08	3/4	1,372.47	3/4	1,016.93	3/4	661.98	3/4	301.20	3/4		3/4		3/4	
3	2,442.85	3	2,084.67	3	1,725.57	3	1,364.96	3	1,009.65	3	654.46	3	293.68	3	3	3		3	
1/4	2,435.37	1/4	2,077.22	1/4	1,718.06	1/4	1,357.45	1/4	1,002.37	1/4	646.94	1/4	286.17	1/4		1/4		1/4	
1/2	2,427.90	1/2	2,069.77	1/2	1,710.54	1/2	1,349.93	1/2	995.09	1/2	639.43	1/2	278.65	1/2		1/2		1/2	
3/4	2,420.42	3/4	2,062.32	3/4	1,703.03	3/4	1,342.42	3/4	987.80	3/4	631.91	3/4	271.13	3/4		3/4		3/4	
4	2,412.95	4	2,054.87	4	1,695.52	4	1,334.91	4	980.52	4	624.39	4	263.62	4	4	4		4	
1/4	2,405.47	1/4	2,047.42	1/4	1,688.01	1/4	1,327.40	1/4	973.24	1/4	616.88	1/4	256.10	1/4		1/4		1/4	
1/2	2,398.00	1/2	2,039.97	1/2	1,680.49	1/2	1,319.88	1/2	965.95	1/2	609.36	1/2	248.59	1/2		1/2		1/2	
3/4	2,390.53	3/4	2,032.52	3/4	1,672.98	3/4	1,312.37	3/4	958.67	3/4	601.84	3/4	241.07	3/4		3/4		3/4	
5	2,383.05	5	2,025.07	5	1,665.47	5	1,304.86	5	951.39	5	594.32	5	233.56	5	5	5		5	
1/4	2,375.58	1/4	2,017.62	1/4	1,657.96	1/4	1,297.35	1/4	944.11	1/4	586.81	1/4	226.04	1/4		1/4		1/4	
1/2	2,368.10	1/2	2,010.17	1/2	1,650.44	1/2	1,289.83	1/2	936.82	1/2	579.29	1/2	218.52	1/2		1/2		1/2	
3/4	2,360.63	3/4	2,002.72	3/4	1,642.93	3/4	1,282.32	3/4	929.54	3/4	571.77	3/4	211.01	3/4		3/4		3/4	
6	2,353.16	6	1,995.27	6	1,635.42	6	1,274.81	6	922.26	6	564.26	6	203.49	6	6	6		6	
1/4	2,345.68	1/4	1,987.82	1/4	1,627.90	1/4	1,267.29	1/4	914.97	1/4	556.74	1/4	195.97	1/4		1/4		1/4	
1/2	2,338.21	1/2	1,980.37	1/2	1,620.39	1/2	1,259.78	1/2	907.69	1/2	549.22	1/2	188.45	1/2		1/2		1/2	
3/4	2,330.73	3/4	1,972.92	3/4	1,612.88	3/4	1,252.27	3/4	900.41	3/4	541.71	3/4	180.94	3/4		3/4		3/4	
7	2,323.26	7	1,965.47	7	1,605.37	7	1,244.76	7	893.13	7	534.19	7	173.42	7	7	7		7	
1/4	2,315.78	1/4	1,958.02	1/4	1,597.85	1/4	1,237.24	1/4	885.84	1/4	526.67	1/4	165.90	1/4		1/4		1/4	
1/2	2,308.31	1/2	1,950.57	1/2	1,590.34	1/2	1,229.73	1/2	878.56	1/2	519.16	1/2	158.39	1/2		1/2		1/2	
3/4	2,300.84	3/4	1,943.12	3/4	1,582.83	3/4	1,222.22	3/4	871.28	3/4	511.64	3/4	150.87	3/4		3/4		3/4	
8	2,293.36	8	1,935.67	8	1,575.32	8	1,214.71	8	863.99	8	504.12	8	143.35	8	8	8		8	
1/4	2,285.89	1/4	1,928.22	1/4	1,567.80	1/4	1,207.19	1/4	856.71	1/4	496.61	1/4	135.83	1/4		1/4		1/4	
1/2	2,278.41	1/2	1,920.77	1/2	1,560.29	1/2	1,199.68	1/2	849.43	1/2	489.09	1/2	128.31	1/2		1/2		1/2	
3/4	2,270.94	3/4	1,913.32	3/4	1,552.78	3/4	1,192.17	3/4	842.15	3/4	481.57	3/4	120.79	3/4		3/4		3/4	
9	2,263.46	9	1,905.87	9	1,545.26	9	1,184.66	9	834.86	9	474.06	9	113.28	9	9	9		9	
1/4	2,256.01	1/4	1,898.36	1/4	1,537.75	1/4	1,177.35	1/4	827.35	1/4	466.54	1/4	105.75	1/4		1/4		1/4	
1/2	2,248.57	1/2	1,890.85	1/2	1,530.24	1/2	1,170.05	1/2	819.83	1/2	459.02	1/2	98.23	1/2		1/2		1/2	
3/4	2,241.12	3/4	1,883.34	3/4	1,522.73	3/4	1,162.75	3/4	812.31	3/4	451.51	3/4	90.70	3/4		3/4		3/4	
10	2,233.67	10	1,875.82	10	1,515.21	10	1,155.45	10	804.80	10	443.99	10	83.18	10	10	10		10	
1/4	2,226.22	1/4	1,868.31	1/4	1,507.70	1/4	1,148.14	1/4	797.28	1/4	436.48	1/4	75.86	1/4		1/4		1/4	
1/2	2,218.77	1/2	1,860.80	1/2	1,500.19	1/2	1,140.84	1/2	789.76	1/2	428.96	1/2	68.54	1/2		1/2		1/2	
3/4	2,211.32	3/4	1,853.29	3/4	1,492.68	3/4	1,133.54	3/4	782.24	3/4	421.45	3/4	61.22	3/4		3/4		3/4	
11	2,203.87	11	1,845.77	11	1,485.16	11	1,126.24	11	774.73	11	413.93	11	53.90	11	11	11		11	
1/4	2,196.42	1/4	1,838.26	1/4	1,477.65	1/4	1,118.95	1/4	767.21	1/4	406.42	1/4	48.05	1/4		1/4		1/4	
1/2	2,188.97	1/2	1,830.75	1/2	1,470.14	1/2	1,111.66	1/2	759.69	1/2	398.90	1/2	42.19	1/2		1/2		1/2	
3/4	2,181.52	3/4	1,823.23	3/4	1,462.63	3/4	1,104.37	3/4	752.18	3/4	391.38	3/4	36.34	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 PMA
RECALCULATED: 08/30/2021 PMA
NAME CHANGE: 08/30/2021 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2021

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 29047"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,626.53	0	4,387.55	0	4,137.59	0	3,874.92	0	3,608.72	0	3,253.19	0	2,893.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,621.02	1/4	4,382.46	1/4	4,132.23	1/4	3,869.37	1/4	3,602.18	1/4	3,245.69	1/4	2,885.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,615.51	1/2	4,377.38	1/2	4,126.87	1/2	3,863.83	1/2	3,595.65	1/2	3,238.19	1/2	2,878.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,610.01	3/4	4,372.29	3/4	4,121.51	3/4	3,858.28	3/4	3,589.11	3/4	3,230.69	3/4	2,870.52
1		1		1		1	4,604.50	1	4,367.21	1	4,116.15	1	3,852.74	1	3,582.58	1	3,223.18	1	2,863.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.68	1/4	4,362.10	1/4	4,110.77	1/4	3,847.19	1/4	3,575.08	1/4	3,215.68	1/4	2,855.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,594.86	1/2	4,356.99	1/2	4,105.38	1/2	3,841.64	1/2	3,567.59	1/2	3,208.18	1/2	2,848.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,590.04	3/4	4,351.88	3/4	4,100.00	3/4	3,836.10	3/4	3,560.10	3/4	3,200.68	3/4	2,840.50
2		2		2		2	4,585.22	2	4,346.78	2	4,094.62	2	3,830.55	2	3,552.60	2	3,193.17	2	2,832.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,580.37	1/4	4,341.65	1/4	4,089.21	1/4	3,825.01	1/4	3,545.11	1/4	3,185.67	1/4	2,825.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,575.53	1/2	4,336.52	1/2	4,083.81	1/2	3,819.46	1/2	3,537.62	1/2	3,178.17	1/2	2,817.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,570.69	3/4	4,331.39	3/4	4,078.41	3/4	3,813.91	3/4	3,530.12	3/4	3,170.67	3/4	2,810.48
3		3		3		3	4,565.84	3	4,326.26	3	4,073.00	3	3,808.37	3	3,522.63	3	3,163.16	3	2,802.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,560.98	1/4	4,321.11	1/4	4,067.58	1/4	3,802.82	1/4	3,515.15	1/4	3,155.66	1/4	2,795.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,556.12	1/2	4,315.96	1/2	4,062.15	1/2	3,797.28	1/2	3,507.66	1/2	3,148.16	1/2	2,787.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,551.25	3/4	4,310.81	3/4	4,056.72	3/4	3,791.73	3/4	3,500.18	3/4	3,140.65	3/4	2,780.45
4		4		4		4	4,546.39	4	4,305.66	4	4,051.30	4	3,786.18	4	3,492.70	4	3,133.15	4	2,772.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,541.50	1/4	4,300.49	1/4	4,045.85	1/4	3,780.64	1/4	3,485.22	1/4	3,125.65	1/4	2,765.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,536.61	1/2	4,295.32	1/2	4,040.40	1/2	3,775.09	1/2	3,477.74	1/2	3,118.15	1/2	2,757.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,531.73	3/4	4,290.14	3/4	4,034.95	3/4	3,769.55	3/4	3,470.25	3/4	3,110.64	3/4	2,750.43
5		5		5		5	4,526.84	5	4,284.97	5	4,029.50	5	3,764.00	5	3,462.77	5	3,103.14	5	2,742.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,521.93	1/4	4,279.78	1/4	4,024.04	1/4	3,758.45	1/4	3,455.29	1/4	3,095.64	1/4	2,735.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,517.03	1/2	4,274.58	1/2	4,018.57	1/2	3,752.91	1/2	3,447.81	1/2	3,088.14	1/2	2,727.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,512.12	3/4	4,269.39	3/4	4,013.10	3/4	3,747.36	3/4	3,440.33	3/4	3,080.63	3/4	2,720.41
6		6		6		6	4,507.22	6	4,264.19	6	4,007.63	6	3,741.82	6	3,432.84	6	3,073.13	6	2,712.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,502.29	1/4	4,258.98	1/4	4,002.13	1/4	3,736.27	1/4	3,425.36	1/4	3,065.63	1/4	2,705.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,497.36	1/2	4,253.76	1/2	3,996.64	1/2	3,730.73	1/2	3,417.88	1/2	3,058.13	1/2	2,697.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,492.44	3/4	4,248.55	3/4	3,991.15	3/4	3,725.18	3/4	3,410.40	3/4	3,050.62	3/4	2,690.39
7		7	4,723.28	7	4,487.51	7	4,243.33	7	3,985.66	7	3,719.63	7	3,402.92	7	3,043.12	7	2,682.88		
1/4	1/4	1/4	4,720.28	1/4	4,482.56	1/4	4,238.09	1/4	3,980.15	1/4	3,714.09	1/4	3,395.43	1/4	3,035.62	1/4	2,675.38		
1/2	1/2	1/2	4,717.29	1/2	4,477.61	1/2	4,232.86	1/2	3,974.63	1/2	3,708.54	1/2	3,387.95	1/2	3,028.12	1/2	2,667.87		
3/4	3/4	3/4	4,714.29	3/4	4,472.66	3/4	4,227.62	3/4	3,969.12	3/4	3,703.00	3/4	3,380.47	3/4	3,020.61	3/4	2,660.37		
8		8	4,711.29	8	4,467.71	8	4,222.38	8	3,963.61	8	3,697.45	8	3,372.99	8	3,013.11	8	2,652.86		
1/4	1/4	1/4	4,706.62	1/4	4,462.74	1/4	4,217.12	1/4	3,958.07	1/4	3,691.90	1/4	3,365.51	1/4	3,005.61	1/4	2,645.36		
1/2	1/2	1/2	4,701.95	1/2	4,457.77	1/2	4,211.86	1/2	3,952.54	1/2	3,686.36	1/2	3,358.02	1/2	2,998.11	1/2	2,637.85		
3/4	3/4	3/4	4,697.28	3/4	4,452.80	3/4	4,206.60	3/4	3,947.00	3/4	3,680.81	3/4	3,350.54	3/4	2,990.60	3/4	2,630.35		
9		9	4,692.61	9	4,447.83	9	4,201.34	9	3,941.47	9	3,675.27	9	3,343.06	9	2,983.10	9	2,622.84		
1/4	1/4	1/4	4,687.10	1/4	4,442.84	1/4	4,196.06	1/4	3,935.92	1/4	3,669.72	1/4	3,335.58	1/4	2,975.59	1/4	2,615.33		
1/2	1/2	1/2	4,681.59	1/2	4,437.84	1/2	4,190.78	1/2	3,930.38	1/2	3,664.17	1/2	3,328.10	1/2	2,968.09	1/2	2,607.82		
3/4	3/4	3/4	4,676.09	3/4	4,432.85	3/4	4,185.50	3/4	3,924.83	3/4	3,658.63	3/4	3,320.61	3/4	2,960.58	3/4	2,600.30		
10		10	4,670.58	10	4,427.86	10	4,180.22	10	3,919.29	10	3,653.08	10	3,313.13	10	2,953.08	10	2,592.79		
1/4	1/4	1/4	4,665.07	1/4	4,422.84	1/4	4,174.90	1/4	3,913.74	1/4	3,647.54	1/4	3,305.65	1/4	2,945.57	1/4	2,585.28		
1/2	1/2	1/2	4,659.57	1/2	4,417.83	1/2	4,169.58	1/2	3,908.19	1/2	3,641.99	1/2	3,298.17	1/2	2,938.07	1/2	2,577.77		
3/4	3/4	3/4	4,654.06	3/4	4,412.82	3/4	4,164.27	3/4	3,902.65	3/4	3,636.45	3/4	3,290.69	3/4	2,930.56	3/4	2,570.25		
11		11	4,648.55	11	4,407.80	11	4,158.95	11	3,897.10	11	3,630.90	11	3,283.20	11	2,923.06	11	2,562.74		
1/4	1/4	1/4	4,643.05	1/4	4,402.74	1/4	4,153.61	1/4	3,891.56	1/4	3,625.35	1/4	3,275.70	1/4	2,915.55	1/4	2,555.23		
1/2	1/2	1/2	4,637.54	1/2	4,397.67	1/2	4,148.27	1/2	3,886.01	1/2	3,619.81	1/2	3,268.20	1/2	2,908.05	1/2	2,547.71		
3/4	3/4	3/4	4,632.03	3/4	4,392.61	3/4	4,142.93	3/4	3,880.46	3/4	3,614.26	3/4	3,260.70	3/4	2,900.54	3/4	2,540.20		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29047"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 345

GAUGE HEIGHT 17'-01"

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	2,532.69	0	2,174.07	0	1,815.73	0	1,455.11	0	1,097.07	0	744.66	0	383.87	0	30.48	0		0	
1/4	2,525.18	1/4	2,166.62	1/4	1,808.22	1/4	1,447.60	1/4	1,089.78	1/4	737.14	1/4	376.35	1/4	26.30	1/4		1/4	
1/2	2,517.66	1/2	2,159.17	1/2	1,800.70	1/2	1,440.09	1/2	1,082.49	1/2	729.62	1/2	368.83	1/2	22.11	1/2		1/2	
3/4	2,510.15	3/4	2,151.72	3/4	1,793.19	3/4	1,432.58	3/4	1,075.20	3/4	722.11	3/4	361.32	3/4	17.93	3/4		3/4	
1	2,502.64	1	2,144.27	1	1,785.68	1	1,425.06	1	1,067.91	1	714.59	1	353.80	1	13.75	1		1	
1/4	2,495.17	1/4	2,136.82	1/4	1,778.16	1/4	1,417.55	1/4	1,060.63	1/4	707.07	1/4	346.29	1/4		1/4		1/4	
1/2	2,487.69	1/2	2,129.37	1/2	1,770.65	1/2	1,410.04	1/2	1,053.35	1/2	699.56	1/2	338.77	1/2		1/2		1/2	
3/4	2,480.22	3/4	2,121.92	3/4	1,763.14	3/4	1,402.52	3/4	1,046.06	3/4	692.04	3/4	331.26	3/4		3/4		3/4	
2	2,472.74	2	2,114.47	2	1,755.63	2	1,395.01	2	1,038.78	2	684.52	2	323.74	2	2	2		2	
1/4	2,465.27	1/4	2,107.02	1/4	1,748.11	1/4	1,387.50	1/4	1,031.50	1/4	677.01	1/4	316.23	1/4		1/4		1/4	
1/2	2,457.79	1/2	2,099.57	1/2	1,740.60	1/2	1,379.99	1/2	1,024.21	1/2	669.49	1/2	308.71	1/2		1/2		1/2	
3/4	2,450.32	3/4	2,092.12	3/4	1,733.09	3/4	1,372.47	3/4	1,016.93	3/4	661.97	3/4	301.19	3/4		3/4		3/4	
3	2,442.85	3	2,084.68	3	1,725.58	3	1,364.96	3	1,009.65	3	654.46	3	293.68	3	3	3		3	
1/4	2,435.37	1/4	2,077.23	1/4	1,718.06	1/4	1,357.45	1/4	1,002.37	1/4	646.94	1/4	286.16	1/4		1/4		1/4	
1/2	2,427.90	1/2	2,069.78	1/2	1,710.55	1/2	1,349.94	1/2	995.08	1/2	639.42	1/2	278.65	1/2		1/2		1/2	
3/4	2,420.42	3/4	2,062.33	3/4	1,703.04	3/4	1,342.42	3/4	987.80	3/4	631.91	3/4	271.13	3/4		3/4		3/4	
4	2,412.95	4	2,054.88	4	1,695.52	4	1,334.91	4	980.52	4	624.39	4	263.62	4	4	4		4	
1/4	2,405.48	1/4	2,047.43	1/4	1,688.01	1/4	1,327.40	1/4	973.23	1/4	616.87	1/4	256.10	1/4		1/4		1/4	
1/2	2,398.00	1/2	2,039.98	1/2	1,680.50	1/2	1,319.88	1/2	965.95	1/2	609.36	1/2	248.58	1/2		1/2		1/2	
3/4	2,390.53	3/4	2,032.53	3/4	1,672.99	3/4	1,312.37	3/4	958.67	3/4	601.84	3/4	241.07	3/4		3/4		3/4	
5	2,383.05	5	2,025.08	5	1,665.47	5	1,304.86	5	951.39	5	594.32	5	233.55	5	5	5		5	
1/4	2,375.58	1/4	2,017.63	1/4	1,657.96	1/4	1,297.35	1/4	944.10	1/4	586.80	1/4	226.04	1/4		1/4		1/4	
1/2	2,368.11	1/2	2,010.18	1/2	1,650.45	1/2	1,289.83	1/2	936.82	1/2	579.29	1/2	218.52	1/2		1/2		1/2	
3/4	2,360.63	3/4	2,002.73	3/4	1,642.93	3/4	1,282.32	3/4	929.54	3/4	571.77	3/4	211.00	3/4		3/4		3/4	
6	2,353.16	6	1,995.28	6	1,635.42	6	1,274.81	6	922.25	6	564.25	6	203.49	6	6	6		6	
1/4	2,345.68	1/4	1,987.83	1/4	1,627.91	1/4	1,267.29	1/4	914.97	1/4	556.74	1/4	195.97	1/4		1/4		1/4	
1/2	2,338.21	1/2	1,980.38	1/2	1,620.40	1/2	1,259.78	1/2	907.69	1/2	549.22	1/2	188.45	1/2		1/2		1/2	
3/4	2,330.73	3/4	1,972.93	3/4	1,612.88	3/4	1,252.27	3/4	900.41	3/4	541.70	3/4	180.94	3/4		3/4		3/4	
7	2,323.26	7	1,965.48	7	1,605.37	7	1,244.76	7	893.12	7	534.19	7	173.42	7	7	7		7	
1/4	2,315.79	1/4	1,958.03	1/4	1,597.86	1/4	1,237.24	1/4	885.84	1/4	526.67	1/4	165.90	1/4		1/4		1/4	
1/2	2,308.31	1/2	1,950.58	1/2	1,590.34	1/2	1,229.73	1/2	878.56	1/2	519.15	1/2	158.38	1/2		1/2		1/2	
3/4	2,300.84	3/4	1,943.13	3/4	1,582.83	3/4	1,222.22	3/4	871.27	3/4	511.64	3/4	150.87	3/4		3/4		3/4	
8	2,293.36	8	1,935.68	8	1,575.32	8	1,214.70	8	863.99	8	504.12	8	143.35	8	8	8		8	
1/4	2,285.89	1/4	1,928.23	1/4	1,567.81	1/4	1,207.19	1/4	856.71	1/4	496.60	1/4	135.83	1/4		1/4		1/4	
1/2	2,278.42	1/2	1,920.78	1/2	1,560.29	1/2	1,199.68	1/2	849.43	1/2	489.09	1/2	128.31	1/2		1/2		1/2	
3/4	2,270.94	3/4	1,913.33	3/4	1,552.78	3/4	1,192.17	3/4	842.14	3/4	481.57	3/4	120.79	3/4		3/4		3/4	
9	2,263.47	9	1,905.88	9	1,545.27	9	1,184.65	9	834.86	9	474.05	9	113.27	9	9	9		9	
1/4	2,256.02	1/4	1,898.37	1/4	1,537.76	1/4	1,177.35	1/4	827.34	1/4	466.54	1/4	105.75	1/4		1/4		1/4	
1/2	2,248.57	1/2	1,890.86	1/2	1,530.24	1/2	1,170.05	1/2	819.83	1/2	459.02	1/2	98.23	1/2		1/2		1/2	
3/4	2,241.12	3/4	1,883.34	3/4	1,522.73	3/4	1,162.75	3/4	812.31	3/4	451.51	3/4	90.70	3/4		3/4		3/4	
10	2,233.67	10	1,875.83	10	1,515.22	10	1,155.44	10	804.79	10	443.99	10	83.18	10	10	10		10	
1/4	2,226.22	1/4	1,868.32	1/4	1,507.70	1/4	1,148.14	1/4	797.28	1/4	436.47	1/4	75.86	1/4		1/4		1/4	
1/2	2,218.77	1/2	1,860.81	1/2	1,500.19	1/2	1,140.84	1/2	789.76	1/2	428.96	1/2	68.54	1/2		1/2		1/2	
3/4	2,211.32	3/4	1,853.29	3/4	1,492.68	3/4	1,133.54	3/4	782.24	3/4	421.44	3/4	61.22	3/4		3/4		3/4	
11	2,203.87	11	1,845.78	11	1,485.17	11	1,126.23	11	774.72	11	413.93	11	53.90	11	11	11		11	
1/4	2,196.42	1/4	1,838.27	1/4	1,477.65	1/4	1,118.94	1/4	767.21	1/4	406.41	1/4	48.04	1/4		1/4		1/4	
1/2	2,188.97	1/2	1,830.75	1/2	1,470.14	1/2	1,111.65	1/2	759.69	1/2	398.90	1/2	42.19	1/2		1/2		1/2	
3/4	2,181.52	3/4	1,823.24	3/4	1,462.63	3/4	1,104.36	3/4	752.17	3/4	391.38	3/4	36.33	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 PMA
RECALCULATED: 08/30/2021 PMA
NAME CHANGE: 08/30/2021 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2021

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



BARGE "KIRBY 29047"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY: "CTCO 345"

GAUGE HEIGHT 05'-02 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	1,048	0	2,096	0	3,131	0	4,126	0		0	6 FT.	0	7 FT.	0	8 FT.	0	9 FT.
1/4	22	1/4	1,070	1/4	2,118	1/4	3,153	1/4	4,146	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	44	1/2	1,092	1/2	2,140	1/2	3,174	1/2	4,166	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	66	3/4	1,114	3/4	2,162	3/4	3,195	3/4	4,186	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
1	87	1	1,135	1	2,183	1	3,216	1	4,207	1		1	6 FT.	1	7 FT.	1	8 FT.	1	9 FT.
1/4	109	1/4	1,157	1/4	2,205	1/4	3,237	1/4	4,227	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	131	1/2	1,179	1/2	2,227	1/2	3,258	1/2	4,247	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	153	3/4	1,201	3/4	2,249	3/4	3,279	3/4	4,267	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
2	175	2	1,223	2	2,271	2	3,300	2	4,287	2		2	6 FT.	2	7 FT.	2	8 FT.	2	9 FT.
1/4	197	1/4	1,245	1/4	2,293	1/4	3,321	1/4	4,307	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	218	1/2	1,266	1/2	2,314	1/2	3,342	1/2	4,327	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	240	3/4	1,288	3/4	2,336	3/4	3,363	3/4	4,347	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
3	262	3	1,310	3	2,358	3	3,384	3	4,367	3		3	6 FT.	3	7 FT.	3	8 FT.	3	9 FT.
1/4	284	1/4	1,332	1/4	2,380	1/4	3,405	1/4	4,387	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	306	1/2	1,354	1/2	2,402	1/2	3,426	1/2	4,408	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	328	3/4	1,376	3/4	2,423	3/4	3,447	3/4	4,428	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
4	349	4	1,397	4	2,445	4	3,468	4	4,448	4		4	6 FT.	4	7 FT.	4	8 FT.	4	9 FT.
1/4	371	1/4	1,419	1/4	2,467	1/4	3,488	1/4	4,467	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	393	1/2	1,441	1/2	2,489	1/2	3,509	1/2	4,487	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	415	3/4	1,463	3/4	2,510	3/4	3,530	3/4	4,507	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
5	437	5	1,485	5	2,532	5	3,551	5	4,527	5		5	6 FT.	5	7 FT.	5	8 FT.	5	9 FT.
1/4	459	1/4	1,507	1/4	2,554	1/4	3,572	1/4	4,547	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	480	1/2	1,528	1/2	2,575	1/2	3,592	1/2	4,567	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	502	3/4	1,550	3/4	2,597	3/4	3,613	3/4	4,587	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
6	524	6	1,572	6	2,618	6	3,634	6	4,607	6		6	6 FT.	6	7 FT.	6	8 FT.	6	9 FT.
1/4	546	1/4	1,594	1/4	2,640	1/4	3,654	1/4	4,627	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	568	1/2	1,616	1/2	2,662	1/2	3,675	1/2	4,646	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	590	3/4	1,638	3/4	2,683	3/4	3,696	3/4	4,666	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
7	611	7	1,659	7	2,705	7	3,717	7	4,686	7		7	6 FT.	7	7 FT.	7	8 FT.	7	9 FT.
1/4	633	1/4	1,681	1/4	2,726	1/4	3,737	1/4	4,706	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	655	1/2	1,703	1/2	2,748	1/2	3,758	1/2	4,725	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	677	3/4	1,725	3/4	2,769	3/4	3,778	3/4	4,745	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
8	699	8	1,747	8	2,791	8	3,799	8	4,765	8		8	6 FT.	8	7 FT.	8	8 FT.	8	9 FT.
1/4	721	1/4	1,769	1/4	2,812	1/4	3,819	1/4	4,784	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	742	1/2	1,790	1/2	2,833	1/2	3,840	1/2	4,804	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	764	3/4	1,812	3/4	2,855	3/4	3,860	3/4	4,824	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
9	786	9	1,834	9	2,876	9	3,881	9		9		9	6 FT.	9	7 FT.	9	8 FT.	9	9 FT.
1/4	808	1/4	1,856	1/4	2,898	1/4	3,901	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	830	1/2	1,878	1/2	2,919	1/2	3,922	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	852	3/4	1,900	3/4	2,940	3/4	3,942	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
10	873	10	1,921	10	2,962	10	3,963	10		10		10	6 FT.	10	7 FT.	10	8 FT.	10	9 FT.
1/4	895	1/4	1,943	1/4	2,983	1/4	3,983	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	917	1/2	1,965	1/2	3,004	1/2	4,004	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	939	3/4	1,987	3/4	3,025	3/4	4,024	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
11	961	11	2,009	11	3,047	11	4,044	11		11		11	6 FT.	11	7 FT.	11	8 FT.	11	9 FT.
1/4	983	1/4	2,031	1/4	3,068	1/4	4,065	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	1,004	1/2	2,052	1/2	3,089	1/2	4,085	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	1,026	3/4	2,074	3/4	3,110	3/4	4,105	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.

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 AT GAUGE POINT.

STRAPPED: 05/20/2016 CL
RECALCULATED: 08/30/2021 PMA
NAME CHANGE: 08/30/2021 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29047"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY: "CTCO 345"

GAUGE HEIGHT 05'-02 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	22	1/4	1,070	1/4	2,118	1/4	3,153	1/4	4,146	1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,092	1/2	2,140	1/2	3,174	1/2	4,166	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,114	3/4	2,162	3/4	3,195	3/4	4,186	3/4		3/4		3/4		3/4		3/4	
1	87	1	1,135	1	2,183	1	3,216	1	4,207	1		1		1		1		1	
1/4	109	1/4	1,157	1/4	2,205	1/4	3,237	1/4	4,227	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	1,179	1/2	2,227	1/2	3,258	1/2	4,247	1/2		1/2		1/2		1/2		1/2	
3/4	153	3/4	1,201	3/4	2,249	3/4	3,279	3/4	4,267	3/4		3/4		3/4		3/4		3/4	
2	175	2	1,223	2	2,271	2	3,300	2	4,287	2		2		2		2		2	
1/4	197	1/4	1,245	1/4	2,293	1/4	3,321	1/4	4,307	1/4		1/4		1/4		1/4		1/4	
1/2	218	1/2	1,266	1/2	2,314	1/2	3,342	1/2	4,327	1/2		1/2		1/2		1/2		1/2	
3/4	240	3/4	1,288	3/4	2,336	3/4	3,363	3/4	4,347	3/4		3/4		3/4		3/4		3/4	
3	262	3	1,310	3	2,358	3	3,384	3	4,367	3		3		3		3		3	
1/4	284	1/4	1,332	1/4	2,380	1/4	3,405	1/4	4,387	1/4		1/4		1/4		1/4		1/4	
1/2	306	1/2	1,354	1/2	2,402	1/2	3,426	1/2	4,408	1/2		1/2		1/2		1/2		1/2	
3/4	328	3/4	1,376	3/4	2,423	3/4	3,447	3/4	4,428	3/4		3/4		3/4		3/4		3/4	
4	349	4	1,397	4	2,445	4	3,468	4	4,448	4		4		4		4		4	
1/4	371	1/4	1,419	1/4	2,467	1/4	3,488	1/4	4,467	1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	1,441	1/2	2,489	1/2	3,509	1/2	4,487	1/2		1/2		1/2		1/2		1/2	
3/4	415	3/4	1,463	3/4	2,510	3/4	3,530	3/4	4,507	3/4		3/4		3/4		3/4		3/4	
5	437	5	1,485	5	2,532	5	3,551	5	4,527	5		5		5		5		5	
1/4	459	1/4	1,507	1/4	2,554	1/4	3,572	1/4	4,547	1/4		1/4		1/4		1/4		1/4	
1/2	480	1/2	1,528	1/2	2,575	1/2	3,592	1/2	4,567	1/2		1/2		1/2		1/2		1/2	
3/4	502	3/4	1,550	3/4	2,597	3/4	3,613	3/4	4,587	3/4		3/4		3/4		3/4		3/4	
6	524	6	1,572	6	2,618	6	3,634	6	4,607	6		6		6		6		6	
1/4	546	1/4	1,594	1/4	2,640	1/4	3,654	1/4	4,627	1/4		1/4		1/4		1/4		1/4	
1/2	568	1/2	1,616	1/2	2,662	1/2	3,675	1/2	4,646	1/2		1/2		1/2		1/2		1/2	
3/4	590	3/4	1,638	3/4	2,683	3/4	3,696	3/4	4,666	3/4		3/4		3/4		3/4		3/4	
7	611	7	1,659	7	2,705	7	3,717	7	4,686	7		7		7		7		7	
1/4	633	1/4	1,681	1/4	2,726	1/4	3,737	1/4	4,706	1/4		1/4		1/4		1/4		1/4	
1/2	655	1/2	1,703	1/2	2,748	1/2	3,758	1/2	4,725	1/2		1/2		1/2		1/2		1/2	
3/4	677	3/4	1,725	3/4	2,769	3/4	3,778	3/4	4,745	3/4		3/4		3/4		3/4		3/4	
8	699	8	1,747	8	2,791	8	3,799	8	4,765	8		8		8		8		8	
1/4	721	1/4	1,769	1/4	2,812	1/4	3,819	1/4	4,784	1/4		1/4		1/4		1/4		1/4	
1/2	742	1/2	1,790	1/2	2,833	1/2	3,840	1/2	4,804	1/2		1/2		1/2		1/2		1/2	
3/4	764	3/4	1,812	3/4	2,855	3/4	3,860	3/4	4,824	3/4		3/4		3/4		3/4		3/4	
9	786	9	1,834	9	2,876	9	3,881	9		9		9		9		9		9	
1/4	808	1/4	1,856	1/4	2,898	1/4	3,901	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	830	1/2	1,878	1/2	2,919	1/2	3,922	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	852	3/4	1,900	3/4	2,940	3/4	3,942	3/4		3/4		3/4		3/4		3/4		3/4	
10	873	10	1,921	10	2,962	10	3,963	10		10		10		10		10		10	
1/4	895	1/4	1,943	1/4	2,983	1/4	3,983	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	917	1/2	1,965	1/2	3,004	1/2	4,004	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	939	3/4	1,987	3/4	3,025	3/4	4,024	3/4		3/4		3/4		3/4		3/4		3/4	
11	961	11	2,009	11	3,047	11	4,044	11		11		11		11		11		11	
1/4	983	1/4	2,031	1/4	3,068	1/4	4,065	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,004	1/2	2,052	1/2	3,089	1/2	4,085	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,026	3/4	2,074	3/4	3,110	3/4	4,105	3/4		3/4		3/4		3/4		3/4		3/4	

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Pearland, Texas 77588
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BARGE "KIRBY 29047"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY : "CTCO 345"

GAUGE HEIGHT 05'-03 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	192	0	385	0	577	0	769	0		0		0		0		0	
1/4	4	1/4	196	1/4	389	1/4	581	1/4	773	1/4		1/4		1/4		1/4		1/4	
1/2	8	1/2	200	1/2	393	1/2	585	1/2	777	1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	204	3/4	397	3/4	589	3/4	781	3/4		3/4		3/4		3/4		3/4	
1	16	1	208	1	401	1	593	1	785	1		1		1		1		1	
1/4	20	1/4	212	1/4	405	1/4	597	1/4	789	1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	216	1/2	409	1/2	601	1/2	793	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	220	3/4	413	3/4	605	3/4	797	3/4		3/4		3/4		3/4		3/4	
2	32	2	224	2	417	2	609	2	801	2		2		2		2		2	
1/4	36	1/4	228	1/4	421	1/4	613	1/4	805	1/4		1/4		1/4		1/4		1/4	
1/2	40	1/2	232	1/2	425	1/2	617	1/2	809	1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	236	3/4	429	3/4	621	3/4	813	3/4		3/4		3/4		3/4		3/4	
3	48	3	240	3	433	3	625	3	817	3		3		3		3		3	
1/4	52	1/4	244	1/4	437	1/4	629	1/4	821	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	248	1/2	441	1/2	633	1/2	825	1/2		1/2		1/2		1/2		1/2	
3/4	60	3/4	252	3/4	445	3/4	637	3/4	829	3/4		3/4		3/4		3/4		3/4	
4	64	4	256	4	449	4	641	4	833	4		4		4		4		4	
1/4	68	1/4	260	1/4	453	1/4	645	1/4	837	1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	264	1/2	457	1/2	649	1/2	841	1/2		1/2		1/2		1/2		1/2	
3/4	76	3/4	268	3/4	461	3/4	653	3/4	845	3/4		3/4		3/4		3/4		3/4	
5	80	5	272	5	465	5	657	5	849	5		5		5		5		5	
1/4	84	1/4	276	1/4	469	1/4	661	1/4	853	1/4		1/4		1/4		1/4		1/4	
1/2	88	1/2	280	1/2	473	1/2	665	1/2	857	1/2		1/2		1/2		1/2		1/2	
3/4	92	3/4	284	3/4	477	3/4	669	3/4	861	3/4		3/4		3/4		3/4		3/4	
6	96	6	288	6	481	6	673	6	865	6		6		6		6		6	
1/4	100	1/4	292	1/4	485	1/4	677	1/4	869	1/4		1/4		1/4		1/4		1/4	
1/2	104	1/2	296	1/2	489	1/2	681	1/2	873	1/2		1/2		1/2		1/2		1/2	
3/4	108	3/4	300	3/4	493	3/4	685	3/4	877	3/4		3/4		3/4		3/4		3/4	
7	112	7	304	7	497	7	689	7	881	7		7		7		7		7	
1/4	116	1/4	308	1/4	501	1/4	693	1/4	885	1/4		1/4		1/4		1/4		1/4	
1/2	120	1/2	312	1/2	505	1/2	697	1/2	889	1/2		1/2		1/2		1/2		1/2	
3/4	124	3/4	316	3/4	509	3/4	701	3/4	893	3/4		3/4		3/4		3/4		3/4	
8	128	8	320	8	513	8	705	8	897	8		8		8		8		8	
1/4	132	1/4	324	1/4	517	1/4	709	1/4	901	1/4		1/4		1/4		1/4		1/4	
1/2	136	1/2	328	1/2	521	1/2	713	1/2	905	1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	332	3/4	525	3/4	717	3/4	909	3/4		3/4		3/4		3/4		3/4	
9	144	9	336	9	529	9	721	9		9		9		9		9		9	
1/4	148	1/4	340	1/4	533	1/4	725	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152	1/2	344	1/2	537	1/2	729	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156	3/4	348	3/4	541	3/4	733	3/4		3/4		3/4		3/4		3/4		3/4	
10	160	10	353	10	545	10	737	10		10		10		10		10		10	
1/4	164	1/4	357	1/4	549	1/4	741	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	361	1/2	553	1/2	745	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	365	3/4	557	3/4	749	3/4		3/4		3/4		3/4		3/4		3/4	
11	176	11	369	11	561	11	753	11		11		11		11		11		11	
1/4	180	1/4	373	1/4	565	1/4	757	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	184	1/2	377	1/2	569	1/2	761	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	188	3/4	381	3/4	573	3/4	765	3/4		3/4		3/4		3/4		3/4		3/4	

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