



# BARGE "KIRBY 29045"

ULLAGE TRIM TABLE  
FORMERLY "CTCO 341"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 2 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 5'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 4'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

June 4, 2019

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29045"

## 1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-09 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
1/4		1/4		1/4		1/4	4,952.11	1/4	4,623.58	1/4	4,274.31	1/4	3,908.93	1/4	3,542.48	1/4	3,175.50	1/4	2,808.39		
1/2		1/2		1/2		1/2	4,945.01	1/2	4,616.52	1/2	4,266.81	1/2	3,901.29	1/2	3,534.83	1/2	3,167.85	1/2	2,800.74		
3/4		3/4		3/4		3/4	4,937.92	3/4	4,609.45	3/4	4,259.31	3/4	3,893.66	3/4	3,527.19	3/4	3,160.21	3/4	2,793.09		
1	1	1	1	1	1	1	4,931.28	1	4,602.36	1	4,251.77	1	3,886.02	1	3,519.55	1	3,152.56	1	2,785.44		
1/4		1/4		1/4		1/4	4,924.64	1/4	4,595.27	1/4	4,244.23	1/4	3,878.39	1/4	3,511.90	1/4	3,144.91	1/4	2,777.79		
1/2		1/2		1/2		1/2	4,918.00	1/2	4,588.17	1/2	4,236.70	1/2	3,870.76	1/2	3,504.26	1/2	3,137.27	1/2	2,770.14		
3/4		3/4		3/4		3/4	4,911.36	3/4	4,581.08	3/4	4,229.16	3/4	3,863.12	3/4	3,496.61	3/4	3,129.62	3/4	2,762.49		
2	2	2	2	2	2	2	4,904.69	2	4,573.95	2	4,221.59	2	3,855.49	2	3,488.97	2	3,121.98	2	2,754.84		
1/4		1/4		1/4		1/4	4,898.02	1/4	4,566.82	1/4	4,214.02	1/4	3,847.85	1/4	3,481.32	1/4	3,114.33	1/4	2,747.19		
1/2		1/2		1/2		1/2	4,891.36	1/2	4,559.69	1/2	4,206.45	1/2	3,840.22	1/2	3,473.67	1/2	3,106.69	1/2	2,739.54		
3/4		3/4		3/4		3/4	4,884.69	3/4	4,552.56	3/4	4,198.87	3/4	3,832.59	3/4	3,466.03	3/4	3,099.04	3/4	2,731.89		
3	3	3	3	3	3	3	4,877.98	3	4,545.40	3	4,191.27	3	3,824.95	3	3,458.38	3	3,091.39	3	2,724.24		
1/4		1/4		1/4		1/4	4,871.28	1/4	4,538.24	1/4	4,183.66	1/4	3,817.32	1/4	3,450.74	1/4	3,083.75	1/4	2,716.59		
1/2		1/2		1/2		1/2	4,864.57	1/2	4,531.08	1/2	4,176.06	1/2	3,809.68	1/2	3,443.09	1/2	3,076.10	1/2	2,708.95		
3/4		3/4		3/4		3/4	4,857.86	3/4	4,523.92	3/4	4,168.46	3/4	3,802.05	3/4	3,435.45	3/4	3,068.46	3/4	2,701.30		
4	4	4	4	4	4	4	4,851.12	4	4,516.72	4	4,160.83	4	3,794.41	4	3,427.80	4	3,060.81	4	2,693.65		
1/4		1/4		1/4		1/4	4,844.38	1/4	4,509.52	1/4	4,153.20	1/4	3,786.78	1/4	3,420.16	1/4	3,053.17	1/4	2,686.00		
1/2		1/2		1/2		1/2	4,837.63	1/2	4,502.33	1/2	4,145.58	1/2	3,779.15	1/2	3,412.51	1/2	3,045.52	1/2	2,678.35		
3/4		3/4		3/4		3/4	4,830.89	3/4	4,495.13	3/4	4,137.95	3/4	3,771.51	3/4	3,404.86	3/4	3,037.88	3/4	2,670.70		
5	5	5	5	5	5	5	4,824.11	5	4,487.90	5	4,130.32	5	3,763.88	5	3,397.22	5	3,030.23	5	2,663.05		
1/4		1/4		1/4		1/4	4,817.34	1/4	4,480.67	1/4	4,122.68	1/4	3,756.24	1/4	3,389.57	1/4	3,022.58	1/4	2,655.40		
1/2		1/2		1/2		1/2	4,810.56	1/2	4,473.45	1/2	4,115.05	1/2	3,748.61	1/2	3,381.93	1/2	3,014.94	1/2	2,647.75		
3/4		3/4		3/4		3/4	4,803.78	3/4	4,466.22	3/4	4,107.41	3/4	3,740.98	3/4	3,374.28	3/4	3,007.29	3/4	2,640.10		
6	6	6	6	6	6	6	4,796.97	6	4,458.95	6	4,099.78	6	3,733.34	6	3,366.64	6	2,999.64	6	2,632.45		
1/4		1/4		1/4		1/4	4,790.16	1/4	4,451.68	1/4	4,092.14	1/4	3,725.71	1/4	3,358.99	1/4	2,991.99	1/4	2,624.80		
1/2		1/2		1/2		1/2	4,783.35	1/2	4,444.41	1/2	4,084.51	1/2	3,718.07	1/2	3,351.34	1/2	2,984.33	1/2	2,617.15		
3/4		3/4		3/4		3/4	4,776.54	3/4	4,437.15	3/4	4,076.88	3/4	3,710.44	3/4	3,343.70	3/4	2,976.68	3/4	2,609.50		
7	7	7	7	7	7	7	4,769.70	7	4,429.83	7	4,069.24	7	3,702.81	7	3,336.05	7	2,969.03	7	2,601.85		
1/4		1/4		1/4	5,098.11	1/4	4,762.85	1/4	4,422.51	1/4	4,061.61	1/4	3,695.17	1/4	3,328.41	1/4	2,961.38	1/4	2,594.20		
1/2		1/2		1/2	5,092.06	1/2	4,756.01	1/2	4,415.20	1/2	4,053.97	1/2	3,687.54	1/2	3,320.76	1/2	2,953.73	1/2	2,586.55		
3/4		3/4		3/4	5,086.01	3/4	4,749.16	3/4	4,407.88	3/4	4,046.34	3/4	3,679.90	3/4	3,313.12	3/4	2,946.08	3/4	2,578.90		
8	8	8	8	8	8	8	4,742.26	8	4,400.52	8	4,038.71	8	3,672.27	8	3,305.47	8	2,938.43	8	2,571.25		
1/4		1/4		1/4	5,078.82	1/4	4,735.37	1/4	4,393.16	1/4	4,031.07	1/4	3,664.64	1/4	3,297.83	1/4	2,930.78	1/4	2,563.60		
1/2		1/2		1/2	5,064.42	1/2	4,728.47	1/2	4,385.80	1/2	4,023.44	1/2	3,657.00	1/2	3,290.18	1/2	2,923.13	1/2	2,555.95		
3/4		3/4		3/4	5,057.23	3/4	4,721.57	3/4	4,378.44	3/4	4,015.80	3/4	3,649.37	3/4	3,282.53	3/4	2,915.48	3/4	2,548.30		
9	9	9	9	9	9	9	5,049.65	9	4,714.62	9	4,371.05	9	4,008.17	9	3,641.73	9	3,274.89	9	2,540.65		
1/4		1/4		1/4	5,042.08	1/4	4,707.67	1/4	4,363.65	1/4	4,000.54	1/4	3,634.10	1/4	3,267.24	1/4	2,907.19	1/4	2,533.00		
1/2		1/2		1/2	5,034.50	1/2	4,700.72	1/2	4,356.26	1/2	3,992.90	1/2	3,626.46	1/2	3,259.60	1/2	2,892.54	1/2	2,525.35		
3/4		3/4		3/4	5,026.92	3/4	4,693.77	3/4	4,348.86	3/4	3,985.27	3/4	3,618.83	3/4	3,251.95	3/4	2,884.89	3/4	2,517.71		
10	10	10	10	10	10	10	5,019.35	10	4,686.78	10	4,341.44	10	3,977.63	10	3,611.20	10	2,877.24	10	2,510.06		
1/4		1/4		1/4	5,011.77	1/4	4,679.79	1/4	4,334.01	1/4	3,970.00	1/4	3,603.56	1/4	3,236.66	1/4	2,869.59	1/4	2,502.41		
1/2		1/2		1/2	5,004.19	1/2	4,672.80	1/2	4,326.58	1/2	3,962.37	1/2	3,595.93	1/2	3,229.02	1/2	2,861.94	1/2	2,494.76		
3/4		3/4		3/4	4,996.62	3/4	4,665.81	3/4	4,319.15	3/4	3,954.73	3/4	3,588.29	3/4	3,221.37	3/4	2,854.29	3/4	2,487.11		
11	11	11	11	11	11	11	4,989.04	11	4,658.78	11	4,311.69	11	3,947.10	11	3,580.66	11	3,213.72	11	2,846.64	11	2,479.46
1/4		1/4		1/4	4,981.46	1/4	4,651.75	1/4	4,304.23	1/4	3,939.46	1/4	3,573.03	1/4	3,206.08	1/4	2,838.99	1/4	2,471.81		
1/2		1/2		1/2	4,973.89	1/2	4,644.73	1/2	4,296.77	1/2	3,931.83	1/2	3,565.39	1/2	3,198.43	1/2	2,831.34	1/2	2,464.16		
3/4		3/4		3/4	4,966.31	3/4	4,637.70	3/4	4,289.31	3/4	3,924.19	3/4	3,557.76	3/4	3,190.79	3/4	2,823.69	3/4	2,456.51		

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29045"

## 1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,448.86	0	2,081.68	0	1,714.50	0	1,347.32	0	981.07	0	615.17	0	263.65	0		0		0	
1/4	2,441.21	1/4	2,074.03	1/4	1,706.85	1/4	1,339.67	1/4	973.48	1/4	607.52	1/4	256.86	1/4	1/4	1/4		1/4	
1/2	2,433.56	1/2	2,066.38	1/2	1,699.20	1/2	1,332.02	1/2	965.88	1/2	599.87	1/2	250.08	1/2	1/2	1/2		1/2	
3/4	2,425.91	3/4	2,058.73	3/4	1,691.55	3/4	1,324.37	3/4	958.28	3/4	592.22	3/4	243.29	3/4	3/4	3/4		3/4	
1	2,418.26	1	2,051.08	1	1,683.90	1	1,316.72	1	950.68	1	584.57	1	236.59	1	1	1		1	
1/4	2,410.61	1/4	2,043.43	1/4	1,676.25	1/4	1,309.07	1/4	943.08	1/4	576.92	1/4	229.90	1/4	1/4	1/4		1/4	
1/2	2,402.96	1/2	2,035.78	1/2	1,668.60	1/2	1,301.42	1/2	935.48	1/2	569.27	1/2	223.20	1/2	1/2	1/2		1/2	
3/4	2,395.31	3/4	2,028.13	3/4	1,660.95	3/4	1,293.77	3/4	927.88	3/4	561.62	3/4	216.51	3/4	3/4	3/4		3/4	
2	2,387.66	2	2,020.48	2	1,653.30	2	1,286.12	2	920.28	2	553.98	2	209.90	2	2	2		2	
1/4	2,380.01	1/4	2,012.83	1/4	1,645.65	1/4	1,278.47	1/4	912.69	1/4	546.35	1/4	203.29	1/4	1/4	1/4		1/4	
1/2	2,372.36	1/2	2,005.18	1/2	1,638.00	1/2	1,270.82	1/2	905.09	1/2	538.71	1/2	196.69	1/2	1/2	1/2		1/2	
3/4	2,364.71	3/4	1,997.53	3/4	1,630.35	3/4	1,263.17	3/4	897.49	3/4	531.07	3/4	190.08	3/4	3/4	3/4		3/4	
3	2,357.06	3	1,989.88	3	1,622.70	3	1,255.52	3	889.89	3	523.48	3	183.57	3	3	3		3	
1/4	2,349.41	1/4	1,982.23	1/4	1,615.05	1/4	1,247.87	1/4	882.29	1/4	515.88	1/4	177.05	1/4	1/4	1/4		1/4	
1/2	2,341.76	1/2	1,974.58	1/2	1,607.40	1/2	1,240.22	1/2	874.69	1/2	508.29	1/2	170.54	1/2	1/2	1/2		1/2	
3/4	2,334.11	3/4	1,966.93	3/4	1,599.75	3/4	1,232.57	3/4	867.09	3/4	500.70	3/4	164.02	3/4	3/4	3/4		3/4	
4	2,326.47	4	1,959.28	4	1,592.10	4	1,224.92	4	859.49	4	493.18	4	157.60	4	4	4		4	
1/4	2,318.82	1/4	1,951.63	1/4	1,584.45	1/4	1,217.27	1/4	851.90	1/4	485.67	1/4	151.18	1/4	1/4	1/4		1/4	
1/2	2,311.17	1/2	1,943.99	1/2	1,576.80	1/2	1,209.62	1/2	844.30	1/2	478.16	1/2	144.76	1/2	1/2	1/2		1/2	
3/4	2,303.52	3/4	1,936.34	3/4	1,569.15	3/4	1,201.97	3/4	836.70	3/4	470.64	3/4	138.34	3/4	3/4	3/4		3/4	
5	2,295.87	5	1,928.69	5	1,561.51	5	1,194.32	5	829.10	5	463.22	5	132.02	5	5	5		5	
1/4	2,288.22	1/4	1,921.04	1/4	1,553.86	1/4	1,186.67	1/4	821.50	1/4	455.80	1/4	125.69	1/4	1/4	1/4		1/4	
1/2	2,280.57	1/2	1,913.39	1/2	1,546.21	1/2	1,179.03	1/2	813.90	1/2	448.38	1/2	119.37	1/2	1/2	1/2		1/2	
3/4	2,272.92	3/4	1,905.74	3/4	1,538.56	3/4	1,171.38	3/4	806.30	3/4	440.95	3/4	113.04	3/4	3/4	3/4		3/4	
6	2,265.27	6	1,898.09	6	1,530.91	6	1,163.74	6	798.68	6	433.62	6	106.82	6	6	6		6	
1/4	2,257.62	1/4	1,890.44	1/4	1,523.26	1/4	1,156.11	1/4	791.05	1/4	426.29	1/4	100.60	1/4	1/4	1/4		1/4	
1/2	2,249.97	1/2	1,882.79	1/2	1,515.61	1/2	1,148.47	1/2	783.43	1/2	418.96	1/2	94.37	1/2	1/2	1/2		1/2	
3/4	2,242.32	3/4	1,875.14	3/4	1,507.96	3/4	1,140.84	3/4	775.80	3/4	411.63	3/4	88.15	3/4	3/4	3/4		3/4	
7	2,234.67	7	1,867.49	7	1,500.31	7	1,133.22	7	768.16	7	404.39	7	82.03	7	7	7		7	
1/4	2,227.02	1/4	1,859.84	1/4	1,492.66	1/4	1,125.60	1/4	760.51	1/4	397.15	1/4	75.91	1/4	1/4	1/4		1/4	
1/2	2,219.37	1/2	1,852.19	1/2	1,485.01	1/2	1,117.98	1/2	752.86	1/2	389.90	1/2	69.80	1/2	1/2	1/2		1/2	
3/4	2,211.72	3/4	1,844.54	3/4	1,477.36	3/4	1,110.36	3/4	745.21	3/4	382.66	3/4	63.68	3/4	3/4	3/4		3/4	
8	2,204.07	8	1,836.89	8	1,469.71	8	1,102.74	8	737.56	8	375.51	8	58.13	8	8	8		8	
1/4	2,196.42	1/4	1,829.24	1/4	1,462.06	1/4	1,095.13	1/4	729.91	1/4	368.36	1/4	52.58	1/4	1/4	1/4		1/4	
1/2	2,188.77	1/2	1,821.59	1/2	1,454.41	1/2	1,087.52	1/2	722.26	1/2	361.21	1/2	47.02	1/2	1/2	1/2		1/2	
3/4	2,181.12	3/4	1,813.94	3/4	1,446.76	3/4	1,079.90	3/4	714.61	3/4	354.06	3/4	41.47	3/4	3/4	3/4		3/4	
9	2,173.47	9	1,806.29	9	1,439.11	9	1,072.30	9	706.96	9	347.00	9	36.98	9	9	9		9	
1/4	2,165.82	1/4	1,798.64	1/4	1,431.46	1/4	1,064.69	1/4	699.31	1/4	339.94	1/4	32.49	1/4	1/4	1/4		1/4	
1/2	2,158.17	1/2	1,790.99	1/2	1,423.81	1/2	1,057.08	1/2	691.66	1/2	332.88	1/2	28.00	1/2	1/2	1/2		1/2	
3/4	2,150.52	3/4	1,783.34	3/4	1,416.16	3/4	1,049.48	3/4	684.01	3/4	325.83	3/4	23.51	3/4	3/4	3/4		3/4	
10	2,142.87	10	1,775.69	10	1,408.51	10	1,041.88	10	676.36	10	318.86	10		10	10	10		10	
1/4	2,135.23	1/4	1,768.04	1/4	1,400.86	1/4	1,034.27	1/4	668.71	1/4	311.89	1/4		1/4	1/4	1/4		1/4	
1/2	2,127.58	1/2	1,760.39	1/2	1,393.21	1/2	1,026.67	1/2	661.06	1/2	304.92	1/2		1/2	1/2	1/2		1/2	
3/4	2,119.93	3/4	1,752.75	3/4	1,385.56	3/4	1,019.07	3/4	653.41	3/4	297.95	3/4		3/4	3/4	3/4		3/4	
11	2,112.28	11	1,745.10	11	1,377.91	11	1,011.47	11	645.76	11	291.07	11		11	11	11		11	
1/4	2,104.63	1/4	1,737.45	1/4	1,370.27	1/4	1,003.87	1/4	638.12	1/4	284.20	1/4		1/4	1/4	1/4		1/4	
1/2	2,096.98	1/2	1,729.80	1/2	1,362.62	1/2	996.27	1/2	630.47	1/2	277.32	1/2		1/2	1/2	1/2		1/2	
3/4	2,089.33	3/4	1,722.15	3/4	1,354.97	3/4	988.67	3/4	622.82	3/4	270.44	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 PMA  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/04/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "KIRBY 29045"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-09"

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		
							4,933.11		4,604.73		4,254.67		3,889.11		3,522.77		3,156.43		2,789.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,926.48	1/4	4,597.64	1/4	4,247.14	1/4	3,881.48	1/4	3,515.14	1/4	3,148.80	1/4	2,782.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,919.84	1/2	4,590.55	1/2	4,239.60	1/2	3,873.85	1/2	3,507.51	1/2	3,141.17	1/2	2,774.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,913.21	3/4	4,583.45	3/4	4,232.07	3/4	3,866.21	3/4	3,499.87	3/4	3,133.53	3/4	2,767.07		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,906.57</b>	<b>1</b>	<b>4,576.36</b>	<b>1</b>	<b>4,224.53</b>	<b>1</b>	<b>3,858.58</b>	<b>1</b>	<b>3,492.24</b>	<b>1</b>	<b>3,125.90</b>	<b>1</b>	<b>2,759.43</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,899.90	1/4	4,569.23	1/4	4,216.96	1/4	3,850.95	1/4	3,484.61	1/4	3,118.27	1/4	2,751.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,893.23	1/2	4,562.11	1/2	4,209.39	1/2	3,843.32	1/2	3,476.98	1/2	3,110.64	1/2	2,744.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,886.57	3/4	4,554.98	3/4	4,201.82	3/4	3,835.69	3/4	3,469.35	3/4	3,103.00	3/4	2,736.53		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,879.90</b>	<b>2</b>	<b>4,547.86</b>	<b>2</b>	<b>4,194.25</b>	<b>2</b>	<b>3,828.05</b>	<b>2</b>	<b>3,461.71</b>	<b>2</b>	<b>3,095.37</b>	<b>2</b>	<b>2,728.89</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,873.19	1/4	4,540.70	1/4	4,186.65	1/4	3,820.42	1/4	3,454.08	1/4	3,087.74	1/4	2,721.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,866.49	1/2	4,533.54	1/2	4,179.05	1/2	3,812.79	1/2	3,446.45	1/2	3,080.11	1/2	2,713.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,859.79	3/4	4,526.38	3/4	4,171.45	3/4	3,805.16	3/4	3,438.82	3/4	3,072.48	3/4	2,705.98		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,853.08</b>	<b>3</b>	<b>4,519.21</b>	<b>3</b>	<b>4,163.84</b>	<b>3</b>	<b>3,797.53</b>	<b>3</b>	<b>3,431.19</b>	<b>3</b>	<b>3,064.84</b>	<b>3</b>	<b>2,698.35</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,846.34	1/4	4,512.02	1/4	4,156.22	1/4	3,789.89	1/4	3,423.55	1/4	3,057.21	1/4	2,690.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,839.60	1/2	4,504.83	1/2	4,148.59	1/2	3,782.26	1/2	3,415.92	1/2	3,049.58	1/2	2,683.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,832.86	3/4	4,497.63	3/4	4,140.96	3/4	3,774.63	3/4	3,408.29	3/4	3,041.95	3/4	2,675.44		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,826.12</b>	<b>4</b>	<b>4,490.44</b>	<b>4</b>	<b>4,133.34</b>	<b>4</b>	<b>3,767.00</b>	<b>4</b>	<b>3,400.66</b>	<b>4</b>	<b>3,034.32</b>	<b>4</b>	<b>2,667.80</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,819.34	1/4	4,483.21	1/4	4,125.71	1/4	3,759.37	1/4	3,393.02	1/4	3,026.68	1/4	2,660.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,812.56	1/2	4,475.98	1/2	4,118.07	1/2	3,751.73	1/2	3,385.39	1/2	3,019.05	1/2	2,652.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,805.79	3/4	4,468.76	3/4	4,110.44	3/4	3,744.10	3/4	3,377.76	3/4	3,011.42	3/4	2,644.89		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,799.01</b>	<b>5</b>	<b>4,461.53</b>	<b>5</b>	<b>4,102.81</b>	<b>5</b>	<b>3,736.47</b>	<b>5</b>	<b>3,370.13</b>	<b>5</b>	<b>3,003.79</b>	<b>5</b>	<b>2,637.26</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,792.20	1/4	4,454.26	1/4	4,095.18	1/4	3,728.84	1/4	3,362.50	1/4	2,996.15	1/4	2,629.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,785.40	1/2	4,447.00	1/2	4,087.55	1/2	3,721.20	1/2	3,354.86	1/2	2,988.52	1/2	2,621.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,778.59	3/4	4,439.73	3/4	4,079.91	3/4	3,713.57	3/4	3,347.23	3/4	2,980.88	3/4	2,614.35		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,771.78</b>	<b>6</b>	<b>4,432.47</b>	<b>6</b>	<b>4,072.28</b>	<b>6</b>	<b>3,705.94</b>	<b>6</b>	<b>3,339.60</b>	<b>6</b>	<b>2,973.25</b>	<b>6</b>	<b>2,606.71</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,764.93	1/4	4,425.15	1/4	4,064.65	1/4	3,698.31	1/4	3,331.97	1/4	2,965.61	1/4	2,599.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,093.26	1/2	4,758.09	1/2	4,417.84	1/2	4,057.02	1/2	3,690.68	1/2	3,324.34	1/2	2,957.97	1/2	2,591.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,087.21	3/4	4,751.25	3/4	4,410.52	3/4	4,049.39	3/4	3,683.04	3/4	3,316.70	3/4	2,950.34	3/4	2,583.80
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>5,081.17</b>	<b>7</b>	<b>4,744.41</b>	<b>7</b>	<b>4,403.21</b>	<b>7</b>	<b>4,041.75</b>	<b>7</b>	<b>3,675.41</b>	<b>7</b>	<b>3,309.07</b>	<b>7</b>	<b>2,942.70</b>	<b>7</b>	<b>2,576.17</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,073.98	1/4	4,737.51	1/4	4,395.85	1/4	4,034.12	1/4	3,667.78	1/4	3,301.44	1/4	2,935.06	1/4	2,568.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,066.78	1/2	4,730.61	1/2	4,388.49	1/2	4,026.49	1/2	3,660.15	1/2	3,293.81	1/2	2,927.43	1/2	2,560.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,059.59	3/4	4,723.72	3/4	4,381.13	3/4	4,018.86	3/4	3,652.52	3/4	3,286.18	3/4	2,919.79	3/4	2,553.26
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>5,052.40</b>	<b>8</b>	<b>4,716.82</b>	<b>8</b>	<b>4,373.77</b>	<b>8</b>	<b>4,011.22</b>	<b>8</b>	<b>3,644.88</b>	<b>8</b>	<b>3,278.54</b>	<b>8</b>	<b>2,912.16</b>	<b>8</b>	<b>2,545.62</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,044.82	1/4	4,709.87	1/4	4,366.38	1/4	4,003.59	1/4	3,637.25	1/4	3,270.91	1/4	2,904.52	1/4	2,537.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,037.25	1/2	4,702.92	1/2	4,358.99	1/2	3,995.96	1/2	3,629.62	1/2	3,263.28	1/2	2,896.88	1/2	2,530.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,029.67	3/4	4,695.97	3/4	4,351.60	3/4	3,988.33	3/4	3,621.99	3/4	3,255.65	3/4	2,889.25	3/4	2,522.72
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>5,022.10</b>	<b>9</b>	<b>4,689.02</b>	<b>9</b>	<b>4,344.21</b>	<b>9</b>	<b>3,980.70</b>	<b>9</b>	<b>3,614.36</b>	<b>9</b>	<b>3,248.01</b>	<b>9</b>	<b>2,881.61</b>	<b>9</b>	<b>2,515.08</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,014.53	1/4	4,682.04	1/4	4,336.78	1/4	3,973.06	1/4	3,606.72	1/4	3,240.38	1/4	2,873.98	1/4	2,507.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,006.95	1/2	4,675.05	1/2	4,329.35	1/2	3,965.43	1/2	3,599.09	1/2	3,232.75	1/2	2,866.34	1/2	2,499.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,999.38	3/4	4,668.06	3/4	4,321.93	3/4	3,957.80	3/4	3,591.46	3/4	3,225.12	3/4	2,858.70	3/4	2,492.17
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,991.80</b>	<b>10</b>	<b>4,661.07</b>	<b>10</b>	<b>4,314.50</b>	<b>10</b>	<b>3,950.17</b>	<b>10</b>	<b>3,583.83</b>	<b>10</b>	<b>3,217.49</b>	<b>10</b>	<b>2,851.07</b>	<b>10</b>	<b>2,484.53</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,984.23	1/4	4,654.05	1/4	4,307.04	1/4	3,942.54	1/4	3,576.19	1/4	3,209.85	1/4	2,843.43	1/4	2,476.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,976.65	1/2	4,647.02	1/2	4,299.58	1/2	3,934.90	1/2	3,568.56	1/2	3,202.22	1/2	2,835.80	1/2	2,469.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,969.08	3/4	4,640.00	3/4	4,292.12	3/4	3,927.27	3/4	3,560.93	3/4	3,194.59	3/4	2,828.16	3/4	2,461.63
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,961.50</b>	<b>11</b>	<b>4,632.97</b>	<b>11</b>	<b>4,284.66</b>	<b>11</b>	<b>3,919.64</b>	<b>11</b>	<b>3,553.30</b>	<b>11</b>	<b>3,186.96</b>	<b>11</b>	<b>2,820.52</b>	<b>11</b>	<b>2,453.99</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.41	1/4	4,625.91	1/4	4,277.17	1/4	3,912.01	1/4	3,545.67	1/4	3,179.33	1/4	2,812.89	1/4	2,446.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,947.31	1/2	4,618.85	1/2	4,269.67	1/2	3,904.38	1/2	3,538.03	1/2	3,171.69	1/2	2,805.25	1/2	2,438.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,940.21	3/4	4,611.79	3/4	4,262.17	3/4	3,896.74	3/4	3,530.40	3/4	3,164.06	3/4	2,797.61	3/4	2,431.08

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 44' 00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29045"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-09"

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	2,423.45	0	2,056.91	0	1,690.38	0	1,323.85	0	957.50	0	591.28	0	243.05	0		0		0	
1/4	2,415.81	1/4	2,049.28	1/4	1,682.74	1/4	1,316.21	1/4	949.88	1/4	583.65	1/4	236.37	1/4	1/4		1/4		1/4
1/2	2,408.17	1/2	2,041.64	1/2	1,675.11	1/2	1,308.58	1/2	942.26	1/2	576.02	1/2	229.69	1/2	1/2		1/2		1/2
3/4	2,400.54	3/4	2,034.00	3/4	1,667.47	3/4	1,300.94	3/4	934.64	3/4	568.39	3/4	223.00	3/4	3/4		3/4		3/4
1	2,392.90	1	2,026.37	1	1,659.84	1	1,293.30	1	927.01	1	560.75	1	216.32	1	1		1		1
1/4	2,385.27	1/4	2,018.73	1/4	1,652.20	1/4	1,285.67	1/4	919.39	1/4	553.14	1/4	209.73	1/4	1/4		1/4		1/4
1/2	2,377.63	1/2	2,011.10	1/2	1,644.56	1/2	1,278.03	1/2	911.77	1/2	545.52	1/2	203.14	1/2	1/2		1/2		1/2
3/4	2,369.99	3/4	2,003.46	3/4	1,636.93	3/4	1,270.39	3/4	904.15	3/4	537.90	3/4	196.54	3/4	3/4		3/4		3/4
2	2,362.36	2	1,995.82	2	1,629.29	2	1,262.76	2	896.53	2	530.28	2	189.95	2	2		2		2
1/4	2,354.72	1/4	1,988.19	1/4	1,621.66	1/4	1,255.12	1/4	888.90	1/4	522.71	1/4	183.45	1/4	1/4		1/4		1/4
1/2	2,347.08	1/2	1,980.55	1/2	1,614.02	1/2	1,247.49	1/2	881.28	1/2	515.13	1/2	176.95	1/2	1/2		1/2		1/2
3/4	2,339.45	3/4	1,972.92	3/4	1,606.38	3/4	1,239.85	3/4	873.66	3/4	507.56	3/4	170.44	3/4	3/4		3/4		3/4
3	2,331.81	3	1,965.28	3	1,598.75	3	1,232.21	3	866.04	3	499.98	3	163.94	3	3		3		3
1/4	2,324.18	1/4	1,957.64	1/4	1,591.11	1/4	1,224.58	1/4	858.41	1/4	492.48	1/4	157.53	1/4	1/4		1/4		1/4
1/2	2,316.54	1/2	1,950.01	1/2	1,583.47	1/2	1,216.94	1/2	850.79	1/2	484.98	1/2	151.12	1/2	1/2		1/2		1/2
3/4	2,308.90	3/4	1,942.37	3/4	1,575.84	3/4	1,209.31	3/4	843.17	3/4	477.48	3/4	144.71	3/4	3/4		3/4		3/4
4	2,301.27	4	1,934.74	4	1,568.20	4	1,201.67	4	835.55	4	469.98	4	138.30	4	4		4		4
1/4	2,293.63	1/4	1,927.10	1/4	1,560.57	1/4	1,194.03	1/4	827.93	1/4	462.57	1/4	131.98	1/4	1/4		1/4		1/4
1/2	2,286.00	1/2	1,919.46	1/2	1,552.93	1/2	1,186.40	1/2	820.30	1/2	455.16	1/2	125.66	1/2	1/2		1/2		1/2
3/4	2,278.36	3/4	1,911.83	3/4	1,545.29	3/4	1,178.76	3/4	812.68	3/4	447.76	3/4	119.34	3/4	3/4		3/4		3/4
5	2,270.72	5	1,904.19	5	1,537.66	5	1,171.13	5	805.06	5	440.35	5	113.02	5	5		5		5
1/4	2,263.09	1/4	1,896.55	1/4	1,530.02	1/4	1,163.49	1/4	797.43	1/4	433.03	1/4	106.80	1/4	1/4		1/4		1/4
1/2	2,255.45	1/2	1,888.92	1/2	1,522.39	1/2	1,155.85	1/2	789.80	1/2	425.71	1/2	100.57	1/2	1/2		1/2		1/2
3/4	2,247.82	3/4	1,881.28	3/4	1,514.75	3/4	1,148.22	3/4	782.17	3/4	418.39	3/4	94.35	3/4	3/4		3/4		3/4
6	2,240.18	6	1,873.65	6	1,507.11	6	1,140.58	6	774.54	6	411.07	6	88.13	6	6		6		6
1/4	2,232.54	1/4	1,866.01	1/4	1,499.48	1/4	1,132.94	1/4	766.91	1/4	403.85	1/4	82.01	1/4	1/4		1/4		1/4
1/2	2,224.91	1/2	1,858.37	1/2	1,491.84	1/2	1,125.31	1/2	759.27	1/2	396.62	1/2	75.90	1/2	1/2		1/2		1/2
3/4	2,217.27	3/4	1,850.74	3/4	1,484.21	3/4	1,117.67	3/4	751.64	3/4	389.39	3/4	69.78	3/4	3/4		3/4		3/4
7	2,209.64	7	1,843.10	7	1,476.57	7	1,110.04	7	744.00	7	382.16	7	63.67	7	7		7		7
1/4	2,202.00	1/4	1,835.47	1/4	1,468.93	1/4	1,102.40	1/4	736.36	1/4	375.03	1/4	58.12	1/4	1/4		1/4		1/4
1/2	2,194.36	1/2	1,827.83	1/2	1,461.30	1/2	1,094.77	1/2	728.73	1/2	367.89	1/2	52.57	1/2	1/2		1/2		1/2
3/4	2,186.73	3/4	1,820.19	3/4	1,453.66	3/4	1,087.14	3/4	721.09	3/4	360.75	3/4	47.01	3/4	3/4		3/4		3/4
8	2,179.09	8	1,812.56	8	1,446.03	8	1,079.50	8	713.46	8	353.61	8	41.46	8	8		8		8
1/4	2,171.45	1/4	1,804.92	1/4	1,438.39	1/4	1,071.88	1/4	705.82	1/4	346.57	1/4	36.97	1/4	1/4		1/4		1/4
1/2	2,163.82	1/2	1,797.29	1/2	1,430.75	1/2	1,064.25	1/2	698.18	1/2	339.52	1/2	32.48	1/2	1/2		1/2		1/2
3/4	2,156.18	3/4	1,789.65	3/4	1,423.12	3/4	1,056.62	3/4	690.55	3/4	332.48	3/4	27.99	3/4	3/4		3/4		3/4
9	2,148.55	9	1,782.01	9	1,415.48	9	1,048.99	9	682.91	9	325.43	9	23.50	9	9		9		9
1/4	2,140.91	1/4	1,774.38	1/4	1,407.84	1/4	1,041.36	1/4	675.28	1/4	318.47	1/4		1/4	1/4		1/4		1/4
1/2	2,133.27	1/2	1,766.74	1/2	1,400.21	1/2	1,033.73	1/2	667.64	1/2	311.52	1/2		1/2	1/2		1/2		1/2
3/4	2,125.64	3/4	1,759.11	3/4	1,392.57	3/4	1,026.11	3/4	660.00	3/4	304.56	3/4		3/4	3/4		3/4		3/4
10	2,118.00	10	1,751.47	10	1,384.94	10	1,018.48	10	652.37	10	297.61	10		10	10		10		10
1/4	2,110.37	1/4	1,743.83	1/4	1,377.30	1/4	1,010.86	1/4	644.73	1/4	290.74	1/4		1/4	1/4		1/4		1/4
1/2	2,102.73	1/2	1,736.20	1/2	1,369.66	1/2	1,003.24	1/2	637.10	1/2	283.88	1/2		1/2	1/2		1/2		1/2
3/4	2,095.09	3/4	1,728.56	3/4	1,362.03	3/4	995.61	3/4	629.46	3/4	277.01	3/4		3/4	3/4		3/4		3/4
11	2,087.46	11	1,720.92	11	1,354.39	11	987.99	11	621.83	11	270.15	11		11	11		11		11
1/4	2,079.82	1/4	1,713.29	1/4	1,346.76	1/4	980.37	1/4	614.19	1/4	263.38	1/4		1/4	1/4		1/4		1/4
1/2	2,072.19	1/2	1,705.65	1/2	1,339.12	1/2	972.75	1/2	606.55	1/2	256.60	1/2		1/2	1/2		1/2		1/2
3/4	2,064.55	3/4	1,698.02	3/4	1,331.48	3/4	965.13	3/4	598.92	3/4	249.83	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 PMA  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/04/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "KIRBY 29045"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10"

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		
							4,718.11		4,409.00		4,081.17		3,737.57		3,392.72		3,047.87		2,702.96		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,711.43	1/4	4,402.36	1/4	4,074.11	1/4	3,730.38	1/4	3,385.54	1/4	3,040.69	1/4	2,695.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,704.75	1/2	4,395.71	1/2	4,067.06	1/2	3,723.20	1/2	3,378.35	1/2	3,033.51	1/2	2,688.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,698.08	3/4	4,389.07	3/4	4,060.00	3/4	3,716.01	3/4	3,371.17	3/4	3,026.32	3/4	2,681.39		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,691.40</b>	<b>1</b>	<b>4,382.42</b>	<b>1</b>	<b>4,052.94</b>	<b>1</b>	<b>3,708.83</b>	<b>1</b>	<b>3,363.98</b>	<b>1</b>	<b>3,019.14</b>	<b>1</b>	<b>2,674.20</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,685.16	1/4	4,375.75	1/4	4,045.85	1/4	3,701.65	1/4	3,356.80	1/4	3,011.95	1/4	2,667.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,678.91	1/2	4,369.07	1/2	4,038.75	1/2	3,694.46	1/2	3,349.61	1/2	3,004.77	1/2	2,659.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,672.67	3/4	4,362.40	3/4	4,031.66	3/4	3,687.28	3/4	3,342.43	3/4	2,997.58	3/4	2,652.64		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,666.43</b>	<b>2</b>	<b>4,355.72</b>	<b>2</b>	<b>4,024.57</b>	<b>2</b>	<b>3,680.09</b>	<b>2</b>	<b>3,335.25</b>	<b>2</b>	<b>2,990.40</b>	<b>2</b>	<b>2,645.45</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.15	1/4	4,349.02	1/4	4,017.44	1/4	3,672.91	1/4	3,328.06	1/4	2,983.22	1/4	2,638.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,653.88	1/2	4,342.31	1/2	4,010.32	1/2	3,665.72	1/2	3,320.88	1/2	2,976.03	1/2	2,631.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,647.61	3/4	4,335.60	3/4	4,003.19	3/4	3,658.54	3/4	3,313.69	3/4	2,968.85	3/4	2,623.88		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,641.33</b>	<b>3</b>	<b>4,328.90</b>	<b>3</b>	<b>3,996.07</b>	<b>3</b>	<b>3,651.36</b>	<b>3</b>	<b>3,306.51</b>	<b>3</b>	<b>2,961.66</b>	<b>3</b>	<b>2,616.69</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,635.03	1/4	4,322.16	1/4	3,988.91	1/4	3,644.17	1/4	3,299.32	1/4	2,954.48	1/4	2,609.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,628.72	1/2	4,315.42	1/2	3,981.75	1/2	3,636.99	1/2	3,292.14	1/2	2,947.29	1/2	2,602.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,622.41	3/4	4,308.68	3/4	3,974.60	3/4	3,629.80	3/4	3,284.96	3/4	2,940.11	3/4	2,595.13		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,616.11</b>	<b>4</b>	<b>4,301.94</b>	<b>4</b>	<b>3,967.44</b>	<b>4</b>	<b>3,622.62</b>	<b>4</b>	<b>3,277.77</b>	<b>4</b>	<b>2,932.93</b>	<b>4</b>	<b>2,587.94</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,609.77	1/4	4,295.17	1/4	3,960.26	1/4	3,615.43	1/4	3,270.59	1/4	2,925.74	1/4	2,580.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,603.42	1/2	4,288.40	1/2	3,953.08	1/2	3,608.25	1/2	3,263.40	1/2	2,918.56	1/2	2,573.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,597.08	3/4	4,281.63	3/4	3,945.91	3/4	3,601.06	3/4	3,256.22	3/4	2,911.37	3/4	2,566.38		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,590.74</b>	<b>5</b>	<b>4,274.86</b>	<b>5</b>	<b>3,938.73</b>	<b>5</b>	<b>3,593.88</b>	<b>5</b>	<b>3,249.03</b>	<b>5</b>	<b>2,904.19</b>	<b>5</b>	<b>2,559.19</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,584.36	1/4	4,268.06	1/4	3,931.54	1/4	3,586.70	1/4	3,241.85	1/4	2,897.00	1/4	2,552.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,577.99	1/2	4,261.26	1/2	3,924.36	1/2	3,579.51	1/2	3,234.67	1/2	2,889.82	1/2	2,544.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,571.62	3/4	4,254.45	3/4	3,917.17	3/4	3,572.33	3/4	3,227.48	3/4	2,882.63	3/4	2,537.62		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,565.24</b>	<b>6</b>	<b>4,247.65</b>	<b>6</b>	<b>3,909.99</b>	<b>6</b>	<b>3,565.14</b>	<b>6</b>	<b>3,220.30</b>	<b>6</b>	<b>2,875.45</b>	<b>6</b>	<b>2,530.43</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,558.84	1/4	4,240.81	1/4	3,902.81	1/4	3,557.96	1/4	3,213.11	1/4	2,868.27	1/4	2,523.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,552.43	1/2	4,233.97	1/2	3,895.62	1/2	3,550.77	1/2	3,205.93	1/2	2,861.09	1/2	2,516.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,546.02	3/4	4,227.14	3/4	3,888.44	3/4	3,543.59	3/4	3,198.74	3/4	2,853.90	3/4	2,508.87		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,539.62</b>	<b>7</b>	<b>4,220.30</b>	<b>7</b>	<b>3,881.25</b>	<b>7</b>	<b>3,536.41</b>	<b>7</b>	<b>3,191.56</b>	<b>7</b>	<b>2,846.72</b>	<b>7</b>	<b>2,501.68</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,533.18	1/4	4,213.41	1/4	3,874.07	1/4	3,529.22	1/4	3,184.38	1/4	2,839.53	1/4	2,494.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,842.08	1/2	4,526.74	1/2	4,206.53	1/2	3,866.88	1/2	3,522.04	1/2	3,177.19	1/2	2,832.35	1/2	2,487.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,836.39	3/4	4,520.31	3/4	4,199.65	3/4	3,859.70	3/4	3,514.85	3/4	3,170.01	3/4	2,825.16	3/4	2,480.11
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,830.70</b>	<b>8</b>	<b>4,513.87</b>	<b>8</b>	<b>4,192.76</b>	<b>8</b>	<b>3,852.52</b>	<b>8</b>	<b>3,507.67</b>	<b>8</b>	<b>3,162.82</b>	<b>8</b>	<b>2,817.97</b>	<b>8</b>	<b>2,472.93</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,823.93	1/4	4,507.38	1/4	4,185.83	1/4	3,845.33	1/4	3,500.48	1/4	3,155.64	1/4	2,810.78	1/4	2,465.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,817.16	1/2	4,500.89	1/2	4,178.91	1/2	3,838.15	1/2	3,493.30	1/2	3,148.45	1/2	2,803.59	1/2	2,458.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,810.40	3/4	4,494.40	3/4	4,171.98	3/4	3,830.96	3/4	3,486.12	3/4	3,141.27	3/4	2,796.40	3/4	2,451.36
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,803.63</b>	<b>9</b>	<b>4,487.91</b>	<b>9</b>	<b>4,165.05</b>	<b>9</b>	<b>3,823.78</b>	<b>9</b>	<b>3,478.93</b>	<b>9</b>	<b>3,134.09</b>	<b>9</b>	<b>2,789.22</b>	<b>9</b>	<b>2,444.17</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,796.50	1/4	4,481.37	1/4	4,158.10	1/4	3,816.59	1/4	3,471.75	1/4	3,126.90	1/4	2,782.03	1/4	2,436.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,789.38	1/2	4,474.83	1/2	4,151.14	1/2	3,809.41	1/2	3,464.56	1/2	3,119.72	1/2	2,774.84	1/2	2,429.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,782.25	3/4	4,468.29	3/4	4,144.18	3/4	3,802.23	3/4	3,457.38	3/4	3,112.53	3/4	2,767.65	3/4	2,422.61
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,775.12</b>	<b>10</b>	<b>4,461.75</b>	<b>10</b>	<b>4,137.22</b>	<b>10</b>	<b>3,795.04</b>	<b>10</b>	<b>3,450.19</b>	<b>10</b>	<b>3,105.35</b>	<b>10</b>	<b>2,760.46</b>	<b>10</b>	<b>2,415.42</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,767.99	1/4	4,455.18	1/4	4,130.23	1/4	3,787.86	1/4	3,443.01	1/4	3,098.16	1/4	2,753.27	1/4	2,408.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,760.87	1/2	4,448.60	1/2	4,123.24	1/2	3,780.67	1/2	3,435.83	1/2	3,090.98	1/2	2,746.09	1/2	2,401.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,753.74	3/4	4,442.02	3/4	4,116.25	3/4	3,773.49	3/4	3,428.64	3/4	3,083.80	3/4	2,738.90	3/4	2,393.85
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,746.61</b>	<b>11</b>	<b>4,435.45</b>	<b>11</b>	<b>4,109.26</b>	<b>11</b>	<b>3,766.30</b>	<b>11</b>	<b>3,421.46</b>	<b>11</b>	<b>3,076.61</b>	<b>11</b>	<b>2,731.71</b>	<b>11</b>	<b>2,386.67</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,739.49	1/4	4,428.84	1/4	4,102.24	1/4	3,759.12	1/4	3,414.27	1/4	3,069.43	1/4	2,724.52	1/4	2,379.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,732.36	1/2	4,422.22	1/2	4,095.21	1/2	3,751.94	1/2	3,407.09	1/2	3,062.24	1/2	2,717.33	1/2	2,372.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,725.23	3/4	4,415.61	3/4	4,088.19	3/4	3,744.75	3/4	3,399.90	3/4	3,055.06	3/4	2,710.14	3/4	2,365.10

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41' 06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "KIRBY 29045"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,357.91	0	2,012.87	0	1,667.83	0	1,322.78	0	984.22	0	647.10	0	302.07	0		0		0	
1/4	2,350.72	1/4	2,005.68	1/4	1,660.64	1/4	1,315.59	1/4	977.33	1/4	639.91	1/4	294.88	1/4	1/4		1/4		1/4
1/2	2,343.54	1/2	1,998.49	1/2	1,653.45	1/2	1,308.41	1/2	970.45	1/2	632.73	1/2	287.70	1/2	1/2		1/2		1/2
3/4	2,336.35	3/4	1,991.30	3/4	1,646.26	3/4	1,301.22	3/4	963.56	3/4	625.54	3/4	280.51	3/4	3/4		3/4		3/4
1	2,329.16	1	1,984.12	1	1,639.07	1	1,294.03	1	956.68	1	618.35	1	273.32	1	1		1		1
1/4	2,321.97	1/4	1,976.93	1/4	1,631.88	1/4	1,286.84	1/4	949.80	1/4	611.16	1/4	266.13	1/4	1/4		1/4		1/4
1/2	2,314.78	1/2	1,969.74	1/2	1,624.70	1/2	1,279.65	1/2	942.91	1/2	603.97	1/2	258.94	1/2	1/2		1/2		1/2
3/4	2,307.59	3/4	1,962.55	3/4	1,617.51	3/4	1,272.46	3/4	936.03	3/4	596.79	3/4	251.76	3/4	3/4		3/4		3/4
2	2,300.40	2	1,955.36	2	1,610.32	2	1,265.28	2	929.15	2	589.60	2	244.57	2	2		2		2
1/4	2,293.22	1/4	1,948.17	1/4	1,603.13	1/4	1,258.09	1/4	922.26	1/4	582.41	1/4	237.38	1/4	1/4		1/4		1/4
1/2	2,286.03	1/2	1,940.98	1/2	1,595.94	1/2	1,250.90	1/2	915.38	1/2	575.22	1/2	230.19	1/2	1/2		1/2		1/2
3/4	2,278.84	3/4	1,933.80	3/4	1,588.75	3/4	1,243.71	3/4	908.50	3/4	568.03	3/4	223.00	3/4	3/4		3/4		3/4
3	2,271.65	3	1,926.61	3	1,581.56	3	1,236.52	3	901.61	3	560.84	3	215.82	3	3		3		3
1/4	2,264.46	1/4	1,919.42	1/4	1,574.38	1/4	1,229.33	1/4	894.73	1/4	553.66	1/4	208.63	1/4	1/4		1/4		1/4
1/2	2,257.27	1/2	1,912.23	1/2	1,567.19	1/2	1,222.14	1/2	887.84	1/2	546.47	1/2	201.44	1/2	1/2		1/2		1/2
3/4	2,250.09	3/4	1,905.04	3/4	1,560.00	3/4	1,214.96	3/4	880.96	3/4	539.28	3/4	194.25	3/4	3/4		3/4		3/4
4	2,242.90	4	1,897.85	4	1,552.81	4	1,207.77	4	874.08	4	532.09	4	187.06	4	4		4		4
1/4	2,235.71	1/4	1,890.67	1/4	1,545.62	1/4	1,200.58	1/4	867.19	1/4	524.90	1/4	179.88	1/4	1/4		1/4		1/4
1/2	2,228.52	1/2	1,883.48	1/2	1,538.43	1/2	1,193.39	1/2	860.31	1/2	517.72	1/2	172.69	1/2	1/2		1/2		1/2
3/4	2,221.33	3/4	1,876.29	3/4	1,531.25	3/4	1,186.20	3/4	853.43	3/4	510.53	3/4	165.50	3/4	3/4		3/4		3/4
5	2,214.14	5	1,869.10	5	1,524.06	5	1,179.01	5	846.54	5	503.34	5	158.31	5	5		5		5
1/4	2,206.96	1/4	1,861.91	1/4	1,516.87	1/4	1,171.83	1/4	839.66	1/4	496.15	1/4	151.12	1/4	1/4		1/4		1/4
1/2	2,199.77	1/2	1,854.72	1/2	1,509.68	1/2	1,164.64	1/2	832.77	1/2	488.96	1/2	143.94	1/2	1/2		1/2		1/2
3/4	2,192.58	3/4	1,847.54	3/4	1,502.49	3/4	1,157.45	3/4	825.89	3/4	481.78	3/4	136.75	3/4	3/4		3/4		3/4
6	2,185.39	6	1,840.35	6	1,495.30	6	1,150.26	6	819.01	6	474.59	6	129.56	6	6		6		6
1/4	2,178.20	1/4	1,833.16	1/4	1,488.12	1/4	1,143.21	1/4	811.97	1/4	467.40	1/4	122.38	1/4	1/4		1/4		1/4
1/2	2,171.01	1/2	1,825.97	1/2	1,480.93	1/2	1,136.17	1/2	804.94	1/2	460.21	1/2	115.20	1/2	1/2		1/2		1/2
3/4	2,163.83	3/4	1,818.78	3/4	1,473.74	3/4	1,129.12	3/4	797.90	3/4	453.02	3/4	108.01	3/4	3/4		3/4		3/4
7	2,156.64	7	1,811.59	7	1,466.55	7	1,122.07	7	790.86	7	445.84	7	100.83	7	7		7		7
1/4	2,149.45	1/4	1,804.41	1/4	1,459.36	1/4	1,115.17	1/4	783.68	1/4	438.65	1/4	93.67	1/4	1/4		1/4		1/4
1/2	2,142.26	1/2	1,797.22	1/2	1,452.17	1/2	1,108.26	1/2	776.49	1/2	431.46	1/2	86.50	1/2	1/2		1/2		1/2
3/4	2,135.07	3/4	1,790.03	3/4	1,444.99	3/4	1,101.36	3/4	769.30	3/4	424.27	3/4	79.33	3/4	3/4		3/4		3/4
8	2,127.88	8	1,782.84	8	1,437.80	8	1,094.45	8	762.11	8	417.08	8	72.17	8	8		8		8
1/4	2,120.69	1/4	1,775.65	1/4	1,430.61	1/4	1,087.56	1/4	754.92	1/4	409.89	1/4	65.45	1/4	1/4		1/4		1/4
1/2	2,113.51	1/2	1,768.46	1/2	1,423.42	1/2	1,080.66	1/2	747.74	1/2	402.71	1/2	58.73	1/2	1/2		1/2		1/2
3/4	2,106.32	3/4	1,761.27	3/4	1,416.23	3/4	1,073.76	3/4	740.55	3/4	395.52	3/4	52.01	3/4	3/4		3/4		3/4
9	2,099.13	9	1,754.09	9	1,409.04	9	1,066.86	9	733.36	9	388.33	9	45.29	9	9		9		9
1/4	2,091.94	1/4	1,746.90	1/4	1,401.85	1/4	1,059.97	1/4	726.17	1/4	381.14	1/4	39.90	1/4	1/4		1/4		1/4
1/2	2,084.75	1/2	1,739.71	1/2	1,394.67	1/2	1,053.08	1/2	718.98	1/2	373.95	1/2	34.51	1/2	1/2		1/2		1/2
3/4	2,077.56	3/4	1,732.52	3/4	1,387.48	3/4	1,046.19	3/4	711.79	3/4	366.77	3/4	29.12	3/4	3/4		3/4		3/4
10	2,070.38	10	1,725.33	10	1,380.29	10	1,039.30	10	704.61	10	359.58	10	23.73	10	10		10		10
1/4	2,063.19	1/4	1,718.14	1/4	1,373.10	1/4	1,032.41	1/4	697.42	1/4	352.39	1/4		1/4	1/4		1/4		1/4
1/2	2,056.00	1/2	1,710.96	1/2	1,365.91	1/2	1,025.52	1/2	690.23	1/2	345.20	1/2		1/2	1/2		1/2		1/2
3/4	2,048.81	3/4	1,703.77	3/4	1,358.72	3/4	1,018.64	3/4	683.04	3/4	338.01	3/4		3/4	3/4		3/4		3/4
11	2,041.62	11	1,696.58	11	1,351.54	11	1,011.75	11	675.85	11	330.83	11		11	11		11		11
1/4	2,034.43	1/4	1,689.39	1/4	1,344.35	1/4	1,004.87	1/4	668.67	1/4	323.64	1/4		1/4	1/4		1/4		1/4
1/2	2,027.25	1/2	1,682.20	1/2	1,337.16	1/2	997.98	1/2	661.48	1/2	316.45	1/2		1/2	1/2		1/2		1/2
3/4	2,020.06	3/4	1,675.01	3/4	1,329.97	3/4	991.10	3/4	654.29	3/4	309.26	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 PMA  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/04/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "KIRBY 29045"

## 2 STBD

### ULLAGE TABLE

### HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10 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		
							4,735.58		4,426.19		4,099.02		3,755.84		3,411.25		3,066.67		2,722.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,728.46	1/4	4,419.59	1/4	4,092.01	1/4	3,748.66	1/4	3,404.08	1/4	3,059.49	1/4	2,714.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,721.79	1/2	4,412.95	1/2	4,084.96	1/2	3,741.48	1/2	3,396.90	1/2	3,052.31	1/2	2,707.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,715.12	3/4	4,406.31	3/4	4,077.90	3/4	3,734.30	3/4	3,389.72	3/4	3,045.14	3/4	2,700.46		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,708.44</b>	<b>1</b>	<b>4,399.67</b>	<b>1</b>	<b>4,070.85</b>	<b>1</b>	<b>3,727.12</b>	<b>1</b>	<b>3,382.54</b>	<b>1</b>	<b>3,037.96</b>	<b>1</b>	<b>2,693.28</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,701.77	1/4	4,393.03	1/4	4,063.80	1/4	3,719.94	1/4	3,375.36	1/4	3,030.78	1/4	2,686.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,695.53	1/2	4,386.36	1/2	4,056.71	1/2	3,712.76	1/2	3,368.18	1/2	3,023.60	1/2	2,678.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,689.30	3/4	4,379.69	3/4	4,049.62	3/4	3,705.58	3/4	3,361.00	3/4	3,016.42	3/4	2,671.73		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,683.06</b>	<b>2</b>	<b>4,373.02</b>	<b>2</b>	<b>4,042.53</b>	<b>2</b>	<b>3,698.41</b>	<b>2</b>	<b>3,353.82</b>	<b>2</b>	<b>3,009.24</b>	<b>2</b>	<b>2,664.55</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,676.82	1/4	4,366.35	1/4	4,035.45	1/4	3,691.23	1/4	3,346.64	1/4	3,002.06	1/4	2,657.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,670.55	1/2	4,359.65	1/2	4,028.33	1/2	3,684.05	1/2	3,339.47	1/2	2,994.88	1/2	2,650.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,664.28	3/4	4,352.95	3/4	4,021.21	3/4	3,676.87	3/4	3,332.29	3/4	2,987.70	3/4	2,643.00		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,658.01</b>	<b>3</b>	<b>4,346.25</b>	<b>3</b>	<b>4,014.09</b>	<b>3</b>	<b>3,669.69</b>	<b>3</b>	<b>3,325.11</b>	<b>3</b>	<b>2,980.53</b>	<b>3</b>	<b>2,635.81</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,651.75	1/4	4,339.54	1/4	4,006.97	1/4	3,662.51	1/4	3,317.93	1/4	2,973.35	1/4	2,628.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,645.44	1/2	4,332.81	1/2	3,999.82	1/2	3,655.33	1/2	3,310.75	1/2	2,966.17	1/2	2,621.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,639.14	3/4	4,326.08	3/4	3,992.67	3/4	3,648.15	3/4	3,303.57	3/4	2,958.99	3/4	2,614.27		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,632.84</b>	<b>4</b>	<b>4,319.34</b>	<b>4</b>	<b>3,985.51</b>	<b>4</b>	<b>3,640.98</b>	<b>4</b>	<b>3,296.39</b>	<b>4</b>	<b>2,951.81</b>	<b>4</b>	<b>2,607.08</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,626.54	1/4	4,312.61	1/4	3,978.36	1/4	3,633.80	1/4	3,289.21	1/4	2,944.63	1/4	2,599.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,620.20	1/2	4,305.85	1/2	3,971.19	1/2	3,626.62	1/2	3,282.04	1/2	2,937.45	1/2	2,592.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,613.86	3/4	4,299.08	3/4	3,964.01	3/4	3,619.44	3/4	3,274.86	3/4	2,930.27	3/4	2,585.53		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,607.53</b>	<b>5</b>	<b>4,292.32</b>	<b>5</b>	<b>3,956.84</b>	<b>5</b>	<b>3,612.26</b>	<b>5</b>	<b>3,267.68</b>	<b>5</b>	<b>2,923.10</b>	<b>5</b>	<b>2,578.35</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,601.19	1/4	4,285.55	1/4	3,949.66	1/4	3,605.08	1/4	3,260.50	1/4	2,915.92	1/4	2,571.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,594.82	1/2	4,278.75	1/2	3,942.49	1/2	3,597.90	1/2	3,253.32	1/2	2,908.74	1/2	2,563.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,588.45	3/4	4,271.96	3/4	3,935.31	3/4	3,590.72	3/4	3,246.14	3/4	2,901.56	3/4	2,556.80		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,582.08</b>	<b>6</b>	<b>4,265.16</b>	<b>6</b>	<b>3,928.13</b>	<b>6</b>	<b>3,583.55</b>	<b>6</b>	<b>3,238.96</b>	<b>6</b>	<b>2,894.38</b>	<b>6</b>	<b>2,549.62</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,575.71	1/4	4,258.36	1/4	3,920.95	1/4	3,576.37	1/4	3,231.78	1/4	2,887.20	1/4	2,542.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,569.31	1/2	4,251.53	1/2	3,913.77	1/2	3,569.19	1/2	3,224.61	1/2	2,880.02	1/2	2,535.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,562.91	3/4	4,244.70	3/4	3,906.59	3/4	3,562.01	3/4	3,217.43	3/4	2,872.84	3/4	2,528.07		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,556.51</b>	<b>7</b>	<b>4,237.86</b>	<b>7</b>	<b>3,899.41</b>	<b>7</b>	<b>3,554.83</b>	<b>7</b>	<b>3,210.25</b>	<b>7</b>	<b>2,865.66</b>	<b>7</b>	<b>2,520.89</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,550.11	1/4	4,231.03	1/4	3,892.23	1/4	3,547.65	1/4	3,203.07	1/4	2,858.48	1/4	2,513.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,543.68	1/2	4,224.15	1/2	3,885.06	1/2	3,540.47	1/2	3,195.89	1/2	2,851.30	1/2	2,506.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,537.24	3/4	4,217.27	3/4	3,877.88	3/4	3,533.29	3/4	3,188.71	3/4	2,844.12	3/4	2,499.34		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,852.34</b>	<b>8</b>	<b>4,530.81</b>	<b>8</b>	<b>4,210.39</b>	<b>8</b>	<b>3,870.70</b>	<b>8</b>	<b>3,526.11</b>	<b>8</b>	<b>3,181.53</b>	<b>8</b>	<b>2,836.94</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,846.65	1/4	4,524.38	1/4	4,203.51	1/4	3,863.52	1/4	3,518.94	1/4	3,174.35	1/4	2,829.75	1/4	2,484.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,840.97	1/2	4,517.89	1/2	4,196.59	1/2	3,856.34	1/2	3,511.76	1/2	3,167.17	1/2	2,822.57	1/2	2,477.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,834.21	3/4	4,511.41	3/4	4,189.67	3/4	3,849.16	3/4	3,504.58	3/4	3,160.00	3/4	2,815.39	3/4	2,470.61
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,827.44</b>	<b>9</b>	<b>4,504.93</b>	<b>9</b>	<b>4,182.75</b>	<b>9</b>	<b>3,841.98</b>	<b>9</b>	<b>3,497.40</b>	<b>9</b>	<b>3,152.82</b>	<b>9</b>	<b>2,808.20</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,820.68	1/4	4,504.93	1/4	4,182.75	1/4	3,841.98	1/4	3,497.40	1/4	3,152.82	1/4	2,808.20	1/4	2,463.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,813.92	1/2	4,498.44	1/2	4,175.83	1/2	3,834.80	1/2	3,490.22	1/2	3,145.64	1/2	2,801.02	1/2	2,456.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,806.80	3/4	4,491.91	3/4	4,168.87	3/4	3,827.62	3/4	3,483.04	3/4	3,138.46	3/4	2,793.84	3/4	2,449.06
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,799.68</b>	<b>10</b>	<b>4,485.37</b>	<b>10</b>	<b>4,161.92</b>	<b>10</b>	<b>3,820.45</b>	<b>10</b>	<b>3,475.86</b>	<b>10</b>	<b>3,131.28</b>	<b>10</b>	<b>2,786.66</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,792.55	1/4	4,478.84	1/4	4,154.97	1/4	3,813.27	1/4	3,468.68	1/4	3,124.10	1/4	2,779.47	1/4	2,434.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,785.43	1/2	4,472.30	1/2	4,148.01	1/2	3,806.09	1/2	3,461.51	1/2	3,116.92	1/2	2,772.29	1/2	2,427.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,778.31	3/4	4,465.73	3/4	4,141.03	3/4	3,798.91	3/4	3,454.33	3/4	3,109.74	3/4	2,765.11	3/4	2,420.33
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,771.19</b>	<b>11</b>	<b>4,459.16</b>	<b>11</b>	<b>4,134.04</b>	<b>11</b>	<b>3,791.73</b>	<b>11</b>	<b>3,447.15</b>	<b>11</b>	<b>3,102.57</b>	<b>11</b>	<b>2,757.92</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,764.07	1/4	4,452.59	1/4	4,127.06	1/4	3,784.55	1/4	3,439.97	1/4	3,095.39	1/4	2,750.74	1/4	2,405.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.95	1/2	4,446.02	1/2	4,120.07	1/2	3,777.37	1/2	3,432.79	1/2	3,088.21	1/2	2,743.56	1/2	2,398.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,749.83	3/4	4,439.41	3/4	4,113.06	3/4	3,770.19	3/4	3,425.61	3/4	3,081.03	3/4	2,736.37	3/4	2,391.60
<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>4,742.70</b>	<b>12</b>	<b>4,432.80</b>	<b>12</b>	<b>4,106.04</b>	<b>12</b>	<b>3,763.02</b>	<b>12</b>	<b>3,418.43</b>	<b>12</b>	<b>3,073.85</b>	<b>12</b>	<b>2,729.19</b>		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41' 06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "KIRBY 29045"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10 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	2,377.23	0	2,032.45	0	1,687.67	0	1,342.89	0	998.22	0	653.80	0	309.03	0		0		0	
1/4	2,370.05	1/4	2,025.27	1/4	1,680.49	1/4	1,335.71	1/4	991.05	1/4	646.61	1/4	301.85	1/4	1/4		1/4		1/4
1/2	2,362.86	1/2	2,018.08	1/2	1,673.31	1/2	1,328.53	1/2	983.88	1/2	639.43	1/2	294.67	1/2	1/2		1/2		1/2
3/4	2,355.68	3/4	2,010.90	3/4	1,666.12	3/4	1,321.34	3/4	976.71	3/4	632.25	3/4	287.48	3/4	3/4		3/4		3/4
1	2,348.50	1	2,003.72	1	1,658.94	1	1,314.16	1	969.54	1	625.07	1	280.30	1	1		1		1
1/4	2,341.32	1/4	1,996.54	1/4	1,651.76	1/4	1,306.98	1/4	962.37	1/4	617.88	1/4	273.12	1/4	1/4		1/4		1/4
1/2	2,334.13	1/2	1,989.35	1/2	1,644.57	1/2	1,299.79	1/2	955.20	1/2	610.70	1/2	265.94	1/2	1/2		1/2		1/2
3/4	2,326.95	3/4	1,982.17	3/4	1,637.39	3/4	1,292.61	3/4	948.03	3/4	603.52	3/4	258.75	3/4	3/4		3/4		3/4
2	2,319.77	2	1,974.99	2	1,630.21	2	1,285.43	2	940.86	2	596.34	2	251.57	2	2		2		2
1/4	2,312.58	1/4	1,967.80	1/4	1,623.03	1/4	1,278.25	1/4	933.69	1/4	589.15	1/4	244.39	1/4	1/4		1/4		1/4
1/2	2,305.40	1/2	1,960.62	1/2	1,615.84	1/2	1,271.06	1/2	926.52	1/2	581.97	1/2	237.21	1/2	1/2		1/2		1/2
3/4	2,298.22	3/4	1,953.44	3/4	1,608.66	3/4	1,263.88	3/4	919.35	3/4	574.79	3/4	230.02	3/4	3/4		3/4		3/4
3	2,291.04	3	1,946.26	3	1,601.48	3	1,256.70	3	912.18	3	567.61	3	222.84	3	3		3		3
1/4	2,283.85	1/4	1,939.07	1/4	1,594.29	1/4	1,249.51	1/4	905.01	1/4	560.42	1/4	215.66	1/4	1/4		1/4		1/4
1/2	2,276.67	1/2	1,931.89	1/2	1,587.11	1/2	1,242.33	1/2	897.84	1/2	553.24	1/2	208.48	1/2	1/2		1/2		1/2
3/4	2,269.49	3/4	1,924.71	3/4	1,579.93	3/4	1,235.15	3/4	890.67	3/4	546.06	3/4	201.29	3/4	3/4		3/4		3/4
4	2,262.30	4	1,917.52	4	1,572.75	4	1,227.97	4	883.50	4	538.88	4	194.11	4	4		4		4
1/4	2,255.12	1/4	1,910.34	1/4	1,565.56	1/4	1,220.78	1/4	876.33	1/4	531.69	1/4	186.93	1/4	1/4		1/4		1/4
1/2	2,247.94	1/2	1,903.16	1/2	1,558.38	1/2	1,213.60	1/2	869.16	1/2	524.51	1/2	179.75	1/2	1/2		1/2		1/2
3/4	2,240.75	3/4	1,895.98	3/4	1,551.20	3/4	1,206.42	3/4	861.99	3/4	517.33	3/4	172.56	3/4	3/4		3/4		3/4
5	2,233.57	5	1,888.79	5	1,544.01	5	1,199.23	5	854.82	5	510.14	5	165.38	5	5		5		5
1/4	2,226.39	1/4	1,881.61	1/4	1,536.83	1/4	1,192.05	1/4	847.65	1/4	502.96	1/4	158.20	1/4	1/4		1/4		1/4
1/2	2,219.21	1/2	1,874.43	1/2	1,529.65	1/2	1,184.87	1/2	840.49	1/2	495.78	1/2	151.02	1/2	1/2		1/2		1/2
3/4	2,212.02	3/4	1,867.24	3/4	1,522.46	3/4	1,177.69	3/4	833.32	3/4	488.60	3/4	143.83	3/4	3/4		3/4		3/4
6	2,204.84	6	1,860.06	6	1,515.28	6	1,170.50	6	826.15	6	481.41	6	136.65	6	6		6		6
1/4	2,197.66	1/4	1,852.88	1/4	1,508.10	1/4	1,163.32	1/4	818.98	1/4	474.23	1/4	129.47	1/4	1/4		1/4		1/4
1/2	2,190.47	1/2	1,845.70	1/2	1,500.92	1/2	1,156.14	1/2	811.80	1/2	467.05	1/2	122.29	1/2	1/2		1/2		1/2
3/4	2,183.29	3/4	1,838.51	3/4	1,493.73	3/4	1,148.95	3/4	804.62	3/4	459.87	3/4	115.12	3/4	3/4		3/4		3/4
7	2,176.11	7	1,831.33	7	1,486.55	7	1,141.77	7	797.44	7	452.68	7	107.94	7	7		7		7
1/4	2,168.93	1/4	1,824.15	1/4	1,479.37	1/4	1,134.59	1/4	790.27	1/4	445.50	1/4	100.76	1/4	1/4		1/4		1/4
1/2	2,161.74	1/2	1,816.96	1/2	1,472.18	1/2	1,127.41	1/2	783.08	1/2	438.32	1/2	93.60	1/2	1/2		1/2		1/2
3/4	2,154.56	3/4	1,809.78	3/4	1,465.00	3/4	1,120.22	3/4	775.90	3/4	431.14	3/4	86.44	3/4	3/4		3/4		3/4
8	2,147.38	8	1,802.60	8	1,457.82	8	1,113.04	8	768.72	8	423.95	8	79.28	8	8		8		8
1/4	2,140.19	1/4	1,795.42	1/4	1,450.64	1/4	1,105.86	1/4	761.54	1/4	416.77	1/4	72.12	1/4	1/4		1/4		1/4
1/2	2,133.01	1/2	1,788.23	1/2	1,443.45	1/2	1,098.68	1/2	754.35	1/2	409.59	1/2	65.41	1/2	1/2		1/2		1/2
3/4	2,125.83	3/4	1,781.05	3/4	1,436.27	3/4	1,091.50	3/4	747.17	3/4	402.41	3/4	58.69	3/4	3/4		3/4		3/4
9	2,118.65	9	1,773.87	9	1,429.09	9	1,084.32	9	739.99	9	395.22	9	51.97	9	9		9		9
1/4	2,111.46	1/4	1,766.68	1/4	1,421.90	1/4	1,077.14	1/4	732.81	1/4	388.04	1/4	45.26	1/4	1/4		1/4		1/4
1/2	2,104.28	1/2	1,759.50	1/2	1,414.72	1/2	1,069.96	1/2	725.62	1/2	380.86	1/2	39.87	1/2	1/2		1/2		1/2
3/4	2,097.10	3/4	1,752.32	3/4	1,407.54	3/4	1,062.78	3/4	718.44	3/4	373.68	3/4	34.49	3/4	3/4		3/4		3/4
10	2,089.91	10	1,745.13	10	1,400.36	10	1,055.61	10	711.26	10	366.49	10	29.10	10	10		10		10
1/4	2,082.73	1/4	1,737.95	1/4	1,393.17	1/4	1,048.43	1/4	704.07	1/4	359.31	1/4	23.71	1/4	1/4		1/4		1/4
1/2	2,075.55	1/2	1,730.77	1/2	1,385.99	1/2	1,041.25	1/2	696.89	1/2	352.13	1/2		1/2	1/2		1/2		1/2
3/4	2,068.37	3/4	1,723.59	3/4	1,378.81	3/4	1,034.08	3/4	689.71	3/4	344.94	3/4		3/4	3/4		3/4		3/4
11	2,061.18	11	1,716.40	11	1,371.62	11	1,026.91	11	682.53	11	337.76	11		11	11		11		11
1/4	2,054.00	1/4	1,709.22	1/4	1,364.44	1/4	1,019.73	1/4	675.34	1/4	330.58	1/4		1/4	1/4		1/4		1/4
1/2	2,046.82	1/2	1,702.04	1/2	1,357.26	1/2	1,012.56	1/2	668.16	1/2	323.40	1/2		1/2	1/2		1/2		1/2
3/4	2,039.63	3/4	1,694.85	3/4	1,350.08	3/4	1,005.39	3/4	660.98	3/4	316.21	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 PMA  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/04/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "KIRBY 29045"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,566.29	0	4,340.24	0	4,101.29	0	3,850.69	0	3,582.80	0	3,220.29	0	2,857.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,561.09	1/4	4,335.41	1/4	4,096.16	1/4	3,845.45	1/4	3,575.24	1/4	3,212.73	1/4	2,849.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,556.21	1/2	4,330.56	1/2	4,091.01	1/2	3,840.20	1/2	3,567.69	1/2	3,205.16	1/2	2,841.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,551.34	3/4	4,325.72	3/4	4,085.86	3/4	3,834.96	3/4	3,560.14	3/4	3,197.59	3/4	2,834.34
1		1		1		1	4,546.46	1	4,320.87	1	4,080.72	1	3,829.72	1	3,552.59	1	3,190.03	1	2,826.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,541.59	1/4	4,316.02	1/4	4,075.57	1/4	3,824.48	1/4	3,545.03	1/4	3,182.46	1/4	2,819.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,537.03	1/2	4,311.15	1/2	4,070.39	1/2	3,819.24	1/2	3,537.49	1/2	3,174.89	1/2	2,811.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,532.47	3/4	4,306.27	3/4	4,065.21	3/4	3,813.99	3/4	3,529.94	3/4	3,167.33	3/4	2,804.06
2		2		2		2	4,527.91	2	4,301.40	2	4,060.04	2	3,808.75	2	3,522.40	2	3,159.76	2	2,796.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,523.35	1/4	4,296.53	1/4	4,054.86	1/4	3,803.51	1/4	3,514.85	1/4	3,152.19	1/4	2,788.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,518.77	1/2	4,291.63	1/2	4,049.66	1/2	3,798.27	1/2	3,507.31	1/2	3,144.63	1/2	2,781.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,514.19	3/4	4,286.74	3/4	4,044.46	3/4	3,793.02	3/4	3,499.76	3/4	3,137.06	3/4	2,773.78
3		3		3		3	4,509.61	3	4,281.84	3	4,039.27	3	3,787.78	3	3,492.21	3	3,129.49	3	2,766.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,505.03	1/4	4,276.95	1/4	4,034.07	1/4	3,782.54	1/4	3,484.67	1/4	3,121.93	1/4	2,758.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,500.43	1/2	4,272.03	1/2	4,028.84	1/2	3,777.30	1/2	3,477.12	1/2	3,114.36	1/2	2,751.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,495.82	3/4	4,267.11	3/4	4,023.62	3/4	3,772.06	3/4	3,469.58	3/4	3,106.79	3/4	2,743.50
4		4		4		4	4,491.22	4	4,262.19	4	4,018.40	4	3,766.81	4	3,462.03	4	3,099.23	4	2,735.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,486.61	1/4	4,257.27	1/4	4,013.18	1/4	3,761.57	1/4	3,454.48	1/4	3,091.66	1/4	2,728.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,481.98	1/2	4,252.33	1/2	4,007.94	1/2	3,756.33	1/2	3,446.94	1/2	3,084.10	1/2	2,720.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,477.35	3/4	4,247.39	3/4	4,002.70	3/4	3,751.09	3/4	3,439.39	3/4	3,076.53	3/4	2,713.23
5		5		5		5	4,472.72	5	4,242.45	5	3,997.47	5	3,745.85	5	3,431.85	5	3,068.96	5	2,705.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,468.09	1/4	4,237.51	1/4	3,992.23	1/4	3,740.60	1/4	3,424.30	1/4	3,061.40	1/4	2,698.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,463.43	1/2	4,232.54	1/2	3,986.99	1/2	3,735.36	1/2	3,416.75	1/2	3,053.83	1/2	2,690.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,458.78	3/4	4,227.58	3/4	3,981.74	3/4	3,730.12	3/4	3,409.21	3/4	3,046.26	3/4	2,682.95
6		6		6		6	4,454.13	6	4,222.61	6	3,976.50	6	3,724.88	6	3,401.66	6	3,038.70	6	2,675.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,449.47	1/4	4,217.65	1/4	3,971.26	1/4	3,719.63	1/4	3,394.12	1/4	3,031.13	1/4	2,667.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,444.79	1/2	4,212.66	1/2	3,966.02	1/2	3,714.39	1/2	3,386.57	1/2	3,023.56	1/2	2,660.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,440.12	3/4	4,207.67	3/4	3,960.78	3/4	3,709.15	3/4	3,379.03	3/4	3,015.99	3/4	2,652.67
7		7		7		7	4,435.44	7	4,202.68	7	3,955.53	7	3,703.91	7	3,371.48	7	3,008.43	7	2,645.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,430.76	1/4	4,197.68	1/4	3,950.29	1/4	3,698.67	1/4	3,363.93	1/4	3,000.86	1/4	2,637.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,426.06	1/2	4,192.66	1/2	3,945.05	1/2	3,693.42	1/2	3,356.39	1/2	2,993.29	1/2	2,629.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,421.36	3/4	4,187.64	3/4	3,939.81	3/4	3,688.18	3/4	3,348.84	3/4	2,985.72	3/4	2,622.37
8		8		8		8	4,416.66	8	4,182.61	8	3,934.56	8	3,682.94	8	3,341.30	8	2,978.15	8	2,614.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,411.96	1/4	4,177.59	1/4	3,929.32	1/4	3,677.70	1/4	3,333.75	1/4	2,970.58	1/4	2,607.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,407.22	1/2	4,172.53	1/2	3,924.08	1/2	3,672.45	1/2	3,326.19	1/2	2,963.01	1/2	2,599.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,402.49	3/4	4,167.48	3/4	3,918.84	3/4	3,667.21	3/4	3,318.64	3/4	2,955.44	3/4	2,592.06
9		9		9		9	4,397.75	9	4,162.43	9	3,913.60	9	3,661.97	9	3,311.08	9	2,947.88	9	2,584.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,393.01	1/4	4,157.37	1/4	3,908.35	1/4	3,656.73	1/4	3,303.53	1/4	2,940.31	1/4	2,576.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,388.24	1/2	4,152.29	1/2	3,903.11	1/2	3,650.90	1/2	3,295.96	1/2	2,932.74	1/2	2,569.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,383.47	3/4	4,147.22	3/4	3,897.87	3/4	3,645.07	3/4	3,288.39	3/4	2,925.17	3/4	2,561.76
10		10		10		10	4,378.69	10	4,142.14	10	3,892.63	10	3,639.24	10	3,280.83	10	2,917.60	10	2,554.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,373.92	1/4	4,137.06	1/4	3,887.38	1/4	3,633.41	1/4	3,273.26	1/4	2,910.03	1/4	2,546.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,369.12	1/2	4,131.96	1/2	3,882.14	1/2	3,626.43	1/2	3,265.69	1/2	2,902.46	1/2	2,539.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,364.32	3/4	4,126.86	3/4	3,876.90	3/4	3,619.44	3/4	3,258.13	3/4	2,894.89	3/4	2,531.49
11		11		11		11	4,359.52	11	4,121.76	11	3,871.66	11	3,612.46	11	3,250.56	11	2,887.32	11	2,523.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,354.72	1/4	4,116.66	1/4	3,866.42	1/4	3,605.47	1/4	3,242.99	1/4	2,879.75	1/4	2,516.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,349.89	1/2	4,111.54	1/2	3,861.17	1/2	3,597.91	1/2	3,235.43	1/2	2,872.18	1/2	2,508.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,345.07	3/4	4,106.41	3/4	3,855.93	3/4	3,590.36	3/4	3,227.86	3/4	2,864.61	3/4	2,501.30

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 43' 09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29045"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10 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	2,493.76	0	2,132.44	0	1,770.46	0	1,406.78	0	1,047.71	0	690.15	0	326.30	0		0		0	
1/4	2,486.22	1/4	2,124.93	1/4	1,762.88	1/4	1,399.21	1/4	1,040.37	1/4	682.57	1/4	318.72	1/4	1/4		1/4		1/4
1/2	2,478.68	1/2	2,117.41	1/2	1,755.30	1/2	1,391.63	1/2	1,033.02	1/2	674.99	1/2	311.14	1/2	1/2		1/2		1/2
3/4	2,471.14	3/4	2,109.90	3/4	1,747.73	3/4	1,384.05	3/4	1,025.67	3/4	667.40	3/4	303.56	3/4	3/4		3/4		3/4
1	2,463.61	1	2,102.38	1	1,740.15	1	1,376.48	1	1,018.33	1	659.82	1	295.98	1	1		1		1
1/4	2,456.07	1/4	2,094.87	1/4	1,732.57	1/4	1,368.90	1/4	1,010.98	1/4	652.24	1/4	288.40	1/4	1/4		1/4		1/4
1/2	2,448.53	1/2	2,087.36	1/2	1,725.00	1/2	1,361.32	1/2	1,003.63	1/2	644.66	1/2	280.82	1/2	1/2		1/2		1/2
3/4	2,440.99	3/4	2,079.84	3/4	1,717.42	3/4	1,353.75	3/4	996.29	3/4	637.08	3/4	273.24	3/4	3/4		3/4		3/4
2	2,433.45	2	2,072.33	2	1,709.84	2	1,346.17	2	988.94	2	629.50	2	265.66	2	2		2		2
1/4	2,425.92	1/4	2,064.82	1/4	1,702.27	1/4	1,338.60	1/4	981.59	1/4	621.92	1/4	258.09	1/4	1/4		1/4		1/4
1/2	2,418.38	1/2	2,057.30	1/2	1,694.69	1/2	1,331.02	1/2	974.24	1/2	614.34	1/2	250.51	1/2	1/2		1/2		1/2
3/4	2,410.84	3/4	2,049.79	3/4	1,687.11	3/4	1,323.44	3/4	966.90	3/4	606.76	3/4	242.93	3/4	3/4		3/4		3/4
3	2,403.30	3	2,042.28	3	1,679.54	3	1,315.87	3	959.55	3	599.18	3	235.35	3	3		3		3
1/4	2,395.76	1/4	2,034.76	1/4	1,671.96	1/4	1,308.29	1/4	952.20	1/4	591.60	1/4	227.76	1/4	1/4		1/4		1/4
1/2	2,388.22	1/2	2,027.25	1/2	1,664.38	1/2	1,300.71	1/2	944.86	1/2	584.02	1/2	220.18	1/2	1/2		1/2		1/2
3/4	2,380.69	3/4	2,019.73	3/4	1,656.81	3/4	1,293.14	3/4	937.51	3/4	576.44	3/4	212.60	3/4	3/4		3/4		3/4
4	2,373.15	4	2,012.22	4	1,649.23	4	1,285.56	4	930.16	4	568.86	4	205.02	4	4		4		4
1/4	2,365.61	1/4	2,004.71	1/4	1,641.66	1/4	1,277.98	1/4	922.81	1/4	561.27	1/4	197.44	1/4	1/4		1/4		1/4
1/2	2,358.07	1/2	1,997.19	1/2	1,634.08	1/2	1,270.41	1/2	915.47	1/2	553.69	1/2	189.86	1/2	1/2		1/2		1/2
3/4	2,350.53	3/4	1,989.68	3/4	1,626.50	3/4	1,262.83	3/4	908.12	3/4	546.11	3/4	182.28	3/4	3/4		3/4		3/4
5	2,343.00	5	1,982.17	5	1,618.93	5	1,255.25	5	900.77	5	538.53	5	174.70	5	5		5		5
1/4	2,335.46	1/4	1,974.65	1/4	1,611.35	1/4	1,247.68	1/4	893.43	1/4	530.95	1/4	167.12	1/4	1/4		1/4		1/4
1/2	2,327.92	1/2	1,967.14	1/2	1,603.77	1/2	1,240.10	1/2	886.08	1/2	523.37	1/2	159.54	1/2	1/2		1/2		1/2
3/4	2,320.38	3/4	1,959.62	3/4	1,596.20	3/4	1,232.52	3/4	878.73	3/4	515.79	3/4	151.95	3/4	3/4		3/4		3/4
6	2,312.84	6	1,952.11	6	1,588.62	6	1,224.95	6	871.38	6	508.21	6	144.37	6	6		6		6
1/4	2,305.31	1/4	1,944.60	1/4	1,581.04	1/4	1,217.37	1/4	864.04	1/4	500.63	1/4	136.79	1/4	1/4		1/4		1/4
1/2	2,297.78	1/2	1,937.05	1/2	1,573.47	1/2	1,209.90	1/2	856.57	1/2	493.05	1/2	129.21	1/2	1/2		1/2		1/2
3/4	2,290.25	3/4	1,929.50	3/4	1,565.89	3/4	1,202.43	3/4	849.11	3/4	485.47	3/4	121.63	3/4	3/4		3/4		3/4
7	2,282.73	7	1,921.96	7	1,558.31	7	1,194.96	7	841.64	7	477.89	7	114.06	7	7		7		7
1/4	2,275.20	1/4	1,914.41	1/4	1,550.74	1/4	1,187.48	1/4	834.18	1/4	470.31	1/4	106.48	1/4	1/4		1/4		1/4
1/2	2,267.69	1/2	1,906.83	1/2	1,543.16	1/2	1,180.12	1/2	826.60	1/2	462.73	1/2	98.91	1/2	1/2		1/2		1/2
3/4	2,260.17	3/4	1,899.26	3/4	1,535.58	3/4	1,172.75	3/4	819.02	3/4	455.15	3/4	91.34	3/4	3/4		3/4		3/4
8	2,252.66	8	1,891.68	8	1,528.01	8	1,165.39	8	811.44	8	447.57	8	83.78	8	8		8		8
1/4	2,245.14	1/4	1,884.10	1/4	1,520.43	1/4	1,158.02	1/4	803.86	1/4	439.99	1/4	76.21	1/4	1/4		1/4		1/4
1/2	2,237.63	1/2	1,876.53	1/2	1,512.85	1/2	1,150.66	1/2	796.28	1/2	432.41	1/2	69.11	1/2	1/2		1/2		1/2
3/4	2,230.12	3/4	1,868.95	3/4	1,505.28	3/4	1,143.30	3/4	788.70	3/4	424.83	3/4	62.01	3/4	3/4		3/4		3/4
9	2,222.60	9	1,861.37	9	1,497.70	9	1,135.94	9	781.12	9	417.25	9	54.92	9	9		9		9
1/4	2,215.09	1/4	1,853.80	1/4	1,490.13	1/4	1,128.58	1/4	773.53	1/4	409.67	1/4	47.82	1/4	1/4		1/4		1/4
1/2	2,207.58	1/2	1,846.22	1/2	1,482.55	1/2	1,121.22	1/2	765.95	1/2	402.09	1/2	42.12	1/2	1/2		1/2		1/2
3/4	2,200.06	3/4	1,838.64	3/4	1,474.97	3/4	1,113.87	3/4	758.37	3/4	394.51	3/4	36.43	3/4	3/4		3/4		3/4
10	2,192.55	10	1,831.07	10	1,467.40	10	1,106.51	10	750.79	10	386.94	10	30.74	10	10		10		10
1/4	2,185.04	1/4	1,823.49	1/4	1,459.82	1/4	1,099.16	1/4	743.21	1/4	379.36	1/4	25.04	1/4	1/4		1/4		1/4
1/2	2,177.52	1/2	1,815.91	1/2	1,452.24	1/2	1,091.81	1/2	735.63	1/2	371.78	1/2		1/2	1/2		1/2		1/2
3/4	2,170.01	3/4	1,808.34	3/4	1,444.67	3/4	1,084.46	3/4	728.05	3/4	364.20	3/4		3/4	3/4		3/4		3/4
11	2,162.49	11	1,800.76	11	1,437.09	11	1,077.11	11	720.47	11	356.62	11		11	11		11		11
1/4	2,154.98	1/4	1,793.19	1/4	1,429.51	1/4	1,069.76	1/4	712.89	1/4	349.04	1/4		1/4	1/4		1/4		1/4
1/2	2,147.47	1/2	1,785.61	1/2	1,421.94	1/2	1,062.41	1/2	705.31	1/2	341.46	1/2		1/2	1/2		1/2		1/2
3/4	2,139.95	3/4	1,778.03	3/4	1,414.36	3/4	1,055.06	3/4	697.73	3/4	333.88	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 PMA  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/04/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "KIRBY 29045"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,592.15	0	4,365.91	0	4,126.74	0	3,875.92	0	3,607.76	0	3,244.16	0	2,879.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,586.95	1/4	4,361.08	1/4	4,121.61	1/4	3,870.67	1/4	3,600.19	1/4	3,236.57	1/4	2,872.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,582.07	1/2	4,356.22	1/2	4,116.46	1/2	3,865.42	1/2	3,592.62	1/2	3,228.98	1/2	2,864.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,577.19	3/4	4,351.37	3/4	4,111.30	3/4	3,860.18	3/4	3,585.05	3/4	3,221.39	3/4	2,857.00
1		1		1		1	4,572.31	1	4,346.52	1	4,106.15	1	3,854.93	1	3,577.48	1	3,213.80	1	2,849.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,567.43	1/4	4,341.66	1/4	4,101.00	1/4	3,849.68	1/4	3,569.91	1/4	3,206.21	1/4	2,841.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,562.87	1/2	4,336.79	1/2	4,095.82	1/2	3,844.44	1/2	3,562.34	1/2	3,198.62	1/2	2,834.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,558.30	3/4	4,331.91	3/4	4,090.63	3/4	3,839.19	3/4	3,554.77	3/4	3,191.03	3/4	2,826.63
2		2		2		2	4,553.74	2	4,327.03	2	4,085.45	2	3,833.94	2	3,547.20	2	3,183.44	2	2,819.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,549.18	1/4	4,322.16	1/4	4,080.27	1/4	3,828.70	1/4	3,539.63	1/4	3,175.85	1/4	2,811.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,544.60	1/2	4,317.26	1/2	4,075.07	1/2	3,823.45	1/2	3,532.07	1/2	3,168.26	1/2	2,803.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,540.01	3/4	4,312.36	3/4	4,069.87	3/4	3,818.20	3/4	3,524.50	3/4	3,160.67	3/4	2,796.26
3		3		3		3	4,535.43	3	4,307.46	3	4,064.66	3	3,812.95	3	3,516.93	3	3,151.08	3	2,788.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,530.84	1/4	4,302.56	1/4	4,059.46	1/4	3,807.71	1/4	3,509.36	1/4	3,145.49	1/4	2,781.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,526.23	1/2	4,297.64	1/2	4,054.23	1/2	3,802.46	1/2	3,501.79	1/2	3,137.90	1/2	2,773.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,521.63	3/4	4,292.71	3/4	4,049.01	3/4	3,797.21	3/4	3,494.22	3/4	3,130.31	3/4	2,765.89
4		4		4		4	4,517.02	4	4,287.79	4	4,043.78	4	3,791.97	4	3,486.65	4	3,122.72	4	2,758.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,512.41	1/4	4,282.87	1/4	4,038.55	1/4	3,786.72	1/4	3,479.08	1/4	3,115.13	1/4	2,750.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,507.77	1/2	4,277.92	1/2	4,033.31	1/2	3,781.47	1/2	3,471.51	1/2	3,107.54	1/2	2,743.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,503.14	3/4	4,272.97	3/4	4,028.07	3/4	3,776.23	3/4	3,463.94	3/4	3,099.95	3/4	2,735.52
5		5		5		5	4,498.50	5	4,268.03	5	4,022.83	5	3,770.98	5	3,456.37	5	3,092.36	5	2,727.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,493.87	1/4	4,263.08	1/4	4,017.58	1/4	3,765.73	1/4	3,448.80	1/4	3,084.77	1/4	2,720.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,489.21	1/2	4,258.11	1/2	4,012.34	1/2	3,760.49	1/2	3,441.23	1/2	3,077.18	1/2	2,712.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,484.55	3/4	4,253.14	3/4	4,007.09	3/4	3,755.24	3/4	3,433.66	3/4	3,069.59	3/4	2,705.15
6		6		6		6	4,479.89	6	4,248.18	6	4,001.84	6	3,749.99	6	3,426.10	6	3,062.00	6	2,697.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,475.23	1/4	4,243.21	1/4	3,996.60	1/4	3,744.74	1/4	3,418.53	1/4	3,054.41	1/4	2,689.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,470.55	1/2	4,238.21	1/2	3,991.35	1/2	3,739.50	1/2	3,410.96	1/2	3,046.82	1/2	2,682.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,465.87	3/4	4,233.22	3/4	3,986.10	3/4	3,734.25	3/4	3,403.39	3/4	3,039.23	3/4	2,674.78
7		7		7		7	4,461.19	7	4,228.22	7	3,980.86	7	3,729.00	7	3,395.82	7	3,031.64	7	2,667.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,456.51	1/4	4,223.22	1/4	3,975.61	1/4	3,723.76	1/4	3,388.25	1/4	3,024.04	1/4	2,659.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,451.80	1/2	4,218.20	1/2	3,970.36	1/2	3,718.51	1/2	3,380.68	1/2	3,016.45	1/2	2,651.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,447.10	3/4	4,213.17	3/4	3,965.11	3/4	3,713.26	3/4	3,373.11	3/4	3,008.86	3/4	2,644.39
8		8		8		8	4,442.40	8	4,208.14	8	3,959.87	8	3,708.02	8	3,365.54	8	3,001.27	8	2,636.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,437.69	1/4	4,203.11	1/4	3,954.62	1/4	3,702.77	1/4	3,357.97	1/4	2,993.67	1/4	2,629.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,432.95	1/2	4,198.05	1/2	3,949.37	1/2	3,697.52	1/2	3,350.39	1/2	2,986.08	1/2	2,621.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,428.21	3/4	4,192.99	3/4	3,944.13	3/4	3,692.28	3/4	3,342.81	3/4	2,978.49	3/4	2,613.99
9		9		9		9	4,423.47	9	4,187.93	9	3,938.88	9	3,687.03	9	3,335.23	9	2,970.90	9	2,606.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,418.73	1/4	4,182.88	1/4	3,933.63	1/4	3,681.78	1/4	3,327.65	1/4	2,963.30	1/4	2,598.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,413.95	1/2	4,177.79	1/2	3,928.39	1/2	3,675.95	1/2	3,320.06	1/2	2,955.71	1/2	2,591.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,409.17	3/4	4,172.71	3/4	3,923.14	3/4	3,670.11	3/4	3,312.47	3/4	2,948.12	3/4	2,583.59
10		10		10		10	4,404.39	10	4,167.63	10	3,917.89	10	3,664.28	10	3,304.88	10	2,940.52	10	2,575.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,400.00	1/4	4,163.00	1/4	3,913.00	1/4	3,659.00	1/4	3,299.00	1/4	2,935.00	1/4	2,570.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,395.61	1/2	4,158.61	1/2	3,908.61	1/2	3,654.61	1/2	3,294.61	1/2	2,930.61	1/2	2,565.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,391.22	3/4	4,154.22	3/4	3,904.22	3/4	3,650.22	3/4	3,290.22	3/4	2,926.22	3/4	2,561.22
11		11		11		11	4,386.83	11	4,149.83	11	3,900.00	11	3,646.00	11	3,286.00	11	2,922.00	11	2,557.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,382.44	1/4	4,145.44	1/4	3,895.61	1/4	3,641.61	1/4	3,281.61	1/4	2,917.61	1/4	2,552.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,378.05	1/2	4,141.05	1/2	3,891.22	1/2	3,637.22	1/2	3,277.22	1/2	2,913.22	1/2	2,548.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,373.66	3/4	4,136.66	3/4	3,886.83	3/4	3,632.83	3/4	3,272.83	3/4	2,908.83	3/4	2,543.83
12		12		12		12	4,369.27	12	4,132.27	12	3,882.44	12	3,628.44	12	3,268.44	12	2,904.44	12	2,539.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,364.88	1/4	4,127.88	1/4	3,878.05	1/4	3,624.05	1/4	3,264.05	1/4	2,900.05	1/4	2,535.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,360.49	1/2	4,123.49	1/2	3,873.66	1/2	3,619.66	1/2	3,259.66	1/2	2,895.66	1/2	2,530.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,356.10	3/4	4,119.10	3/4	3,869.27	3/4	3,615.27	3/4	3,255.27	3/4	2,891.27	3/4	2,526.27

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 43' 09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29045"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 341"

GAUGE HEIGHT 16'-10 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	2,515.19	0	2,150.39	0	1,785.59	0	1,420.79	0	1,056.13	0	691.74	0	326.95	0		0		0	
1/4	2,507.59	1/4	2,142.79	1/4	1,777.99	1/4	1,413.19	1/4	1,048.54	1/4	684.14	1/4	319.36	1/4	1/4	1/4		1/4	1/4
1/2	2,499.99	1/2	2,135.19	1/2	1,770.39	1/2	1,405.59	1/2	1,040.96	1/2	676.54	1/2	311.76	1/2	1/2	1/2		1/2	1/2
3/4	2,492.39	3/4	2,127.59	3/4	1,762.79	3/4	1,397.99	3/4	1,033.37	3/4	668.94	3/4	304.16	3/4	3/4	3/4		3/4	3/4
1	2,484.79	1	2,119.99	1	1,755.19	1	1,390.39	1	1,025.79	1	661.34	1	296.56	1	1	1		1	1
1/4	2,477.19	1/4	2,112.39	1/4	1,747.59	1/4	1,382.79	1/4	1,018.20	1/4	653.74	1/4	288.96	1/4	1/4	1/4		1/4	1/4
1/2	2,469.59	1/2	2,104.79	1/2	1,739.99	1/2	1,375.19	1/2	1,010.62	1/2	646.14	1/2	281.36	1/2	1/2	1/2		1/2	1/2
3/4	2,461.99	3/4	2,097.19	3/4	1,732.39	3/4	1,367.59	3/4	1,003.03	3/4	638.54	3/4	273.76	3/4	3/4	3/4		3/4	3/4
2	2,454.39	2	2,089.59	2	1,724.79	2	1,359.99	2	995.45	2	630.94	2	266.16	2	2	2		2	2
1/4	2,446.79	1/4	2,081.99	1/4	1,717.19	1/4	1,352.39	1/4	987.86	1/4	623.34	1/4	258.56	1/4	1/4	1/4		1/4	1/4
1/2	2,439.19	1/2	2,074.39	1/2	1,709.59	1/2	1,344.79	1/2	980.28	1/2	615.74	1/2	250.96	1/2	1/2	1/2		1/2	1/2
3/4	2,431.59	3/4	2,066.79	3/4	1,701.99	3/4	1,337.19	3/4	972.69	3/4	608.14	3/4	243.36	3/4	3/4	3/4		3/4	3/4
3	2,423.99	3	2,059.19	3	1,694.39	3	1,329.59	3	965.11	3	600.54	3	235.76	3	3	3		3	3
1/4	2,416.39	1/4	2,051.59	1/4	1,686.79	1/4	1,321.99	1/4	957.52	1/4	592.94	1/4	228.16	1/4	1/4	1/4		1/4	1/4
1/2	2,408.79	1/2	2,043.99	1/2	1,679.19	1/2	1,314.39	1/2	949.94	1/2	585.34	1/2	220.56	1/2	1/2	1/2		1/2	1/2
3/4	2,401.19	3/4	2,036.39	3/4	1,671.59	3/4	1,306.79	3/4	942.35	3/4	577.74	3/4	212.96	3/4	3/4	3/4		3/4	3/4
4	2,393.59	4	2,028.79	4	1,663.99	4	1,299.19	4	934.77	4	570.15	4	205.36	4	4	4		4	4
1/4	2,385.99	1/4	2,021.19	1/4	1,656.39	1/4	1,291.59	1/4	927.19	1/4	562.55	1/4	197.76	1/4	1/4	1/4		1/4	1/4
1/2	2,378.39	1/2	2,013.59	1/2	1,648.79	1/2	1,283.99	1/2	919.60	1/2	554.95	1/2	190.16	1/2	1/2	1/2		1/2	1/2
3/4	2,370.79	3/4	2,005.99	3/4	1,641.19	3/4	1,276.39	3/4	912.02	3/4	547.35	3/4	182.56	3/4	3/4	3/4		3/4	3/4
5	2,363.19	5	1,998.39	5	1,633.59	5	1,268.79	5	904.43	5	539.75	5	174.96	5	5	5		5	5
1/4	2,355.59	1/4	1,990.79	1/4	1,625.99	1/4	1,261.19	1/4	896.85	1/4	532.15	1/4	167.36	1/4	1/4	1/4		1/4	1/4
1/2	2,347.99	1/2	1,983.19	1/2	1,618.39	1/2	1,253.59	1/2	889.26	1/2	524.55	1/2	159.76	1/2	1/2	1/2		1/2	1/2
3/4	2,340.39	3/4	1,975.59	3/4	1,610.79	3/4	1,245.99	3/4	881.68	3/4	516.95	3/4	152.16	3/4	3/4	3/4		3/4	3/4
6	2,332.79	6	1,967.99	6	1,603.19	6	1,238.39	6	874.09	6	509.35	6	144.56	6	6	6		6	6
1/4	2,325.19	1/4	1,960.39	1/4	1,595.59	1/4	1,230.79	1/4	866.51	1/4	501.75	1/4	136.96	1/4	1/4	1/4		1/4	1/4
1/2	2,317.59	1/2	1,952.79	1/2	1,587.99	1/2	1,223.19	1/2	858.91	1/2	494.15	1/2	129.37	1/2	1/2	1/2		1/2	1/2
3/4	2,309.99	3/4	1,945.19	3/4	1,580.39	3/4	1,215.59	3/4	851.32	3/4	486.55	3/4	121.78	3/4	3/4	3/4		3/4	3/4
7	2,302.39	7	1,937.59	7	1,572.79	7	1,207.99	7	843.73	7	478.95	7	114.18	7	7	7		7	7
1/4	2,294.79	1/4	1,929.99	1/4	1,565.19	1/4	1,200.39	1/4	836.13	1/4	471.35	1/4	106.59	1/4	1/4	1/4		1/4	1/4
1/2	2,287.19	1/2	1,922.39	1/2	1,557.59	1/2	1,192.79	1/2	828.54	1/2	463.75	1/2	99.01	1/2	1/2	1/2		1/2	1/2
3/4	2,279.59	3/4	1,914.79	3/4	1,549.99	3/4	1,185.19	3/4	820.94	3/4	456.15	3/4	91.44	3/4	3/4	3/4		3/4	3/4
8	2,271.99	8	1,907.19	8	1,542.39	8	1,177.59	8	813.34	8	448.55	8	83.86	8	8	8		8	8
1/4	2,264.39	1/4	1,899.59	1/4	1,534.79	1/4	1,169.99	1/4	805.74	1/4	440.95	1/4	76.29	1/4	1/4	1/4		1/4	1/4
1/2	2,256.79	1/2	1,891.99	1/2	1,527.19	1/2	1,162.39	1/2	798.14	1/2	433.35	1/2	69.18	1/2	1/2	1/2		1/2	1/2
3/4	2,249.19	3/4	1,884.39	3/4	1,519.59	3/4	1,154.79	3/4	790.54	3/4	425.75	3/4	62.07	3/4	3/4	3/4		3/4	3/4
9	2,241.59	9	1,876.79	9	1,511.99	9	1,147.20	9	782.94	9	418.15	9	54.97	9	9	9		9	9
1/4	2,233.99	1/4	1,869.19	1/4	1,504.39	1/4	1,139.60	1/4	775.34	1/4	410.55	1/4	47.86	1/4	1/4	1/4		1/4	1/4
1/2	2,226.39	1/2	1,861.59	1/2	1,496.79	1/2	1,132.01	1/2	767.74	1/2	402.95	1/2	42.16	1/2	1/2	1/2		1/2	1/2
3/4	2,218.79	3/4	1,853.99	3/4	1,489.19	3/4	1,124.42	3/4	760.14	3/4	395.35	3/4	36.47	3/4	3/4	3/4		3/4	3/4
10	2,211.19	10	1,846.39	10	1,481.59	10	1,116.83	10	752.54	10	387.75	10	30.77	10	10	10		10	10
1/4	2,203.59	1/4	1,838.79	1/4	1,473.99	1/4	1,109.23	1/4	744.94	1/4	380.15	1/4	25.06	1/4	1/4	1/4		1/4	1/4
1/2	2,195.99	1/2	1,831.19	1/2	1,466.39	1/2	1,101.64	1/2	737.34	1/2	372.55	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,188.39	3/4	1,823.59	3/4	1,458.79	3/4	1,094.06	3/4	729.74	3/4	364.95	3/4		3/4	3/4	3/4		3/4	3/4
11	2,180.79	11	1,815.99	11	1,451.19	11	1,086.47	11	722.14	11	357.35	11		11	11	11		11	11
1/4	2,173.19	1/4	1,808.39	1/4	1,443.59	1/4	1,078.88	1/4	714.54	1/4	349.75	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,165.59	1/2	1,800.79	1/2	1,435.99	1/2	1,071.29	1/2	706.94	1/2	342.15	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,157.99	3/4	1,793.19	3/4	1,428.39	3/4	1,063.71	3/4	699.34	3/4	334.55	3/4		3/4	3/4	3/4		3/4	3/4

STRAPPED: 04/23/2014 PMA  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/04/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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 29045"

# FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 341"

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	171	0	342	0	513	0	684	0		0	6 FT.	0	7 FT.	0	8 FT.	0	9 FT.
1/4	4	1/4	174	1/4	345	1/4	516	1/4	687	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	7	1/2	178	1/2	349	1/2	520	1/2	691	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	11	3/4	182	3/4	352	3/4	523	3/4	694	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
1	14	1	185	1	356	1	527	1	698	1		1	6 FT.	1	7 FT.	1	8 FT.	1	9 FT.
1/4	18	1/4	189	1/4	360	1/4	531	1/4	701	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	21	1/2	192	1/2	363	1/2	534	1/2	705	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	25	3/4	196	3/4	367	3/4	538	3/4	709	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
2	28	2	199	2	370	2	541	2	712	2		2	6 FT.	2	7 FT.	2	8 FT.	2	9 FT.
1/4	32	1/4	203	1/4	374	1/4	545	1/4	716	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	36	1/2	207	1/2	377	1/2	548	1/2	719	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	39	3/4	210	3/4	381	3/4	552	3/4	723	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
3	43	3	214	3	385	3	555	3	726	3		3	6 FT.	3	7 FT.	3	8 FT.	3	9 FT.
1/4	46	1/4	217	1/4	388	1/4	559	1/4	730	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	50	1/2	221	1/2	392	1/2	563	1/2	733	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	53	3/4	224	3/4	395	3/4	566	3/4	737	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
4	57	4	228	4	399	4	570	4	741	4		4	6 FT.	4	7 FT.	4	8 FT.	4	9 FT.
1/4	61	1/4	231	1/4	402	1/4	573	1/4	744	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	64	1/2	235	1/2	406	1/2	577	1/2	748	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	68	3/4	239	3/4	409	3/4	580	3/4	751	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
5	71	5	242	5	413	5	584	5	755	5		5	6 FT.	5	7 FT.	5	8 FT.	5	9 FT.
1/4	75	1/4	246	1/4	417	1/4	587	1/4	758	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	78	1/2	249	1/2	420	1/2	591	1/2	762	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	82	3/4	253	3/4	424	3/4	595	3/4	766	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
6	85	6	256	6	427	6	598	6	769	6		6	6 FT.	6	7 FT.	6	8 FT.	6	9 FT.
1/4	89	1/4	260	1/4	431	1/4	602	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	93	1/2	263	1/2	434	1/2	605	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	96	3/4	267	3/4	438	3/4	609	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
7	100	7	271	7	442	7	612	7		7		7	6 FT.	7	7 FT.	7	8 FT.	7	9 FT.
1/4	103	1/4	274	1/4	445	1/4	616	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	107	1/2	278	1/2	449	1/2	620	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	110	3/4	281	3/4	452	3/4	623	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
8	114	8	285	8	456	8	627	8		8		8	6 FT.	8	7 FT.	8	8 FT.	8	9 FT.
1/4	117	1/4	288	1/4	459	1/4	630	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	121	1/2	292	1/2	463	1/2	634	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	125	3/4	296	3/4	466	3/4	637	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
9	128	9	299	9	470	9	641	9		9		9	6 FT.	9	7 FT.	9	8 FT.	9	9 FT.
1/4	132	1/4	303	1/4	474	1/4	644	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	135	1/2	306	1/2	477	1/2	648	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	139	3/4	310	3/4	481	3/4	652	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
10	142	10	313	10	484	10	655	10		10		10	6 FT.	10	7 FT.	10	8 FT.	10	9 FT.
1/4	146	1/4	317	1/4	488	1/4	659	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	150	1/2	320	1/2	491	1/2	662	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	153	3/4	324	3/4	495	3/4	666	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
11	157	11	328	11	498	11	669	11		11		11	6 FT.	11	7 FT.	11	8 FT.	11	9 FT.
1/4	160	1/4	331	1/4	502	1/4	673	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	164	1/2	335	1/2	506	1/2	676	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	167	3/4	338	3/4	509	3/4	680	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: 04/23/2014 SW  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/05/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 29045"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 341"

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	1,101	1/4	2,180	1/4	3,232	1/4	4,218	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,253	1/2	4,238	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,274	3/4	4,258	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,295	1	4,278	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,316	1/4	4,298	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,337	1/2	4,318	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,358	3/4	4,337	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,379	2	4,357	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,360	1/4	3,400	1/4	4,377	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,421	1/2	4,396	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,442	3/4	4,416	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,427	3	3,463	3	4,436	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,449	1/4	3,484	1/4	4,455	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,471	1/2	3,505	1/2	4,475	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,493	3/4	3,526	3/4	4,494	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,516	4	3,547	4	4,514	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,538	1/4	3,568	1/4	4,533	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,560	1/2	3,588	1/2	4,552	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,582	3/4	3,609	3/4	4,572	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,604	5	3,630	5	4,591	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,626	1/4	3,651	1/4	4,602	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,648	1/2	3,671	1/2	4,614	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,670	3/4	3,692	3/4	4,625	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,692	6	3,712	6	4,636	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,714	1/4	3,733	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,736	1/2	3,754	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,758	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,780	7	3,795	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,801	1/4	3,815	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,823	1/2	3,835	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,845	3/4	3,856	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,867	8	3,876	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,888	1/4	3,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,910	1/2	3,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,932	3/4	3,937	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,953	9	3,958	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,975	1/4	3,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,996	1/2	3,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,018	3/4	4,018	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,039	10	4,038	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,061	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,082	1/2	4,078	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,104	3/4	4,099	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,125	11	4,119	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,146	1/4	4,139	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,168	1/2	4,159	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,189	3/4	4,179	3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 04/23/2014 SW  
RECALCULATED: 06/04/2019 SW  
NAME CHANGE: 06/04/2019 SW

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ALL PRIOR TO 06/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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Pearland, Texas 77588  
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# BARGE "KIRBY 29045"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 341"

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	1,101	1/4	2,180	1/4	3,232	1/4	4,218	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,253	1/2	4,238	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,274	3/4	4,258	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,295	1	4,278	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,316	1/4	4,298	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,337	1/2	4,318	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,358	3/4	4,337	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,379	2	4,357	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,360	1/4	3,400	1/4	4,377	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,421	1/2	4,396	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,442	3/4	4,416	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,427	3	3,463	3	4,436	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,449	1/4	3,484	1/4	4,455	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,471	1/2	3,505	1/2	4,475	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,493	3/4	3,526	3/4	4,494	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,516	4	3,547	4	4,514	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,538	1/4	3,568	1/4	4,533	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,560	1/2	3,588	1/2	4,552	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,582	3/4	3,609	3/4	4,572	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,604	5	3,630	5	4,591	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,626	1/4	3,651	1/4	4,602	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,648	1/2	3,671	1/2	4,614	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,670	3/4	3,692	3/4	4,625	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,692	6	3,712	6	4,636	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,714	1/4	3,733	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,736	1/2	3,754	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,758	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,780	7	3,795	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,801	1/4	3,815	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,823	1/2	3,835	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,845	3/4	3,856	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,867	8	3,876	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,888	1/4	3,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,910	1/2	3,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,932	3/4	3,937	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,953	9	3,958	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,975	1/4	3,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,996	1/2	3,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,018	3/4	4,018	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,039	10	4,038	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,061	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,082	1/2	4,078	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,104	3/4	4,099	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,125	11	4,119	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,146	1/4	4,139	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,168	1/2	4,159	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,189	3/4	4,179	3/4		3/4		3/4		3/4		3/4		3/4	

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