



# BARGE "KIRBY 29091"

ULLAGE TRIM TABLE  
FORMERLY "CTCO 319"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 243'-00"

June 8, 2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29091"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-10 3/4"

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			
0		0		0		0		0	4,850.01	0	4,498.04	0	4,145.60	0	3,792.42	0	3,438.16	0	3,083.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,842.72	1/4	4,490.70	1/4	4,138.25	1/4	3,785.04	1/4	3,430.78	1/4	3,076.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,835.43	1/2	4,483.36	1/2	4,130.91	1/2	3,777.66	1/2	3,423.40	1/2	3,069.13		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,828.15	3/4	4,476.01	3/4	4,123.57	3/4	3,770.28	3/4	3,416.02	3/4	3,061.75		
1		1		1		1		1	4,820.86	1	4,468.67	1	4,116.23	1	3,762.90	1	3,408.64	1	3,054.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,813.57	1/4	4,461.33	1/4	4,108.88	1/4	3,755.52	1/4	3,401.26	1/4	3,046.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,806.29	1/2	4,453.99	1/2	4,101.54	1/2	3,748.14	1/2	3,393.88	1/2	3,039.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,799.00	3/4	4,446.64	3/4	4,094.20	3/4	3,740.76	3/4	3,386.50	3/4	3,032.23		
2		2		2		2		2	4,791.68	2	4,439.30	2	4,086.86	2	3,733.38	2	3,379.12	2	3,024.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,784.36	1/4	4,431.96	1/4	4,079.51	1/4	3,726.00	1/4	3,371.74	1/4	3,017.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,777.04	1/2	4,424.62	1/2	4,072.17	1/2	3,718.62	1/2	3,364.35	1/2	3,010.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,769.72	3/4	4,417.27	3/4	4,064.83	3/4	3,711.24	3/4	3,356.97	3/4	3,002.71		
3		3		3		3		3	4,762.37	3	4,409.93	3	4,057.49	3	3,703.86	3	3,349.59	3	2,995.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,755.03	1/4	4,402.59	1/4	4,050.14	1/4	3,696.48	1/4	3,342.21	1/4	2,987.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,747.69	1/2	4,395.24	1/2	4,042.80	1/2	3,689.10	1/2	3,334.83	1/2	2,980.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,740.35	3/4	4,387.90	3/4	4,035.46	3/4	3,681.72	3/4	3,327.45	3/4	2,973.19		
4		4		4		4		4	4,733.00	4	4,380.56	4	4,028.11	4	3,674.34	4	3,320.07	4	2,965.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,725.66	1/4	4,373.22	1/4	4,020.77	1/4	3,666.96	1/4	3,312.69	1/4	2,958.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,718.32	1/2	4,365.87	1/2	4,013.43	1/2	3,659.57	1/2	3,305.31	1/2	2,951.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,710.98	3/4	4,358.53	3/4	4,006.09	3/4	3,652.19	3/4	3,297.93	3/4	2,943.67		
5		5		5		5		5	4,703.63	5	4,351.19	5	3,998.74	5	3,644.81	5	3,290.55	5	2,936.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,696.29	1/4	4,343.85	1/4	3,991.40	1/4	3,637.43	1/4	3,283.17	1/4	2,928.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,688.95	1/2	4,336.50	1/2	3,984.06	1/2	3,630.05	1/2	3,275.79	1/2	2,921.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,681.61	3/4	4,329.16	3/4	3,976.72	3/4	3,622.67	3/4	3,268.41	3/4	2,914.14		
6		6		6		6	5,003.29	6	4,674.26	6	4,321.82	6	3,969.37	6	3,615.29	6	3,261.03	6	2,906.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,999.51	1/4	4,666.92	1/4	4,314.48	1/4	3,962.03	1/4	3,607.91	1/4	2,899.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,995.73	1/2	4,659.58	1/2	4,307.13	1/2	3,954.69	1/2	3,246.27	1/2	2,892.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.95	3/4	4,652.24	3/4	4,299.79	3/4	3,947.35	3/4	3,593.15	3/4	2,884.62		
7		7		7		7		7	4,986.70	7	4,644.89	7	4,292.45	7	3,939.98	7	3,585.77	7	3,231.51	7	2,877.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,981.44	1/4	4,637.55	1/4	4,285.11	1/4	3,932.62	1/4	3,578.39	1/4	3,224.12	1/4	2,869.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,976.18	1/2	4,630.21	1/2	4,277.76	1/2	3,925.26	1/2	3,571.01	1/2	3,216.74	1/2	2,862.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,970.93	3/4	4,622.87	3/4	4,270.42	3/4	3,917.89	3/4	3,563.63	3/4	3,209.36	3/4	2,855.10
8		8		8		8		8	4,964.31	8	4,615.52	8	4,263.08	8	3,910.51	8	3,556.25	8	3,201.98	8	2,847.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,957.69	1/4	4,608.18	1/4	4,255.74	1/4	3,903.13	1/4	3,548.87	1/4	3,194.60	1/4	2,840.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,951.08	1/2	4,600.84	1/2	4,248.39	1/2	3,895.75	1/2	3,541.49	1/2	3,187.22	1/2	2,832.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,944.46	3/4	4,593.49	3/4	4,241.05	3/4	3,888.37	3/4	3,534.11	3/4	3,179.84	3/4	2,825.58
9		9		9		9		9	4,937.24	9	4,586.15	9	4,233.71	9	3,880.99	9	3,526.73	9	3,172.46	9	2,818.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,930.02	1/4	4,578.81	1/4	4,226.36	1/4	3,873.61	1/4	3,519.35	1/4	3,165.08	1/4	2,810.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,922.81	1/2	4,571.47	1/2	4,219.02	1/2	3,866.23	1/2	3,511.96	1/2	3,157.70	1/2	2,803.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,915.59	3/4	4,564.12	3/4	4,211.68	3/4	3,858.85	3/4	3,504.58	3/4	3,150.32	3/4	2,796.06
10		10		10		10		10	4,908.30	10	4,556.78	10	4,204.34	10	3,851.47	10	3,497.20	10	3,142.94	10	2,788.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,901.02	1/4	4,549.44	1/4	4,196.99	1/4	3,844.09	1/4	3,489.82	1/4	3,135.56	1/4	2,781.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,893.73	1/2	4,542.10	1/2	4,189.65	1/2	3,836.71	1/2	3,482.44	1/2	3,128.18	1/2	2,773.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,886.44	3/4	4,534.75	3/4	4,182.31	3/4	3,829.33	3/4	3,475.06	3/4	3,120.80	3/4	2,766.53
11		11		11		11		11	4,879.16	11	4,527.41	11	4,174.97	11	3,821.95	11	3,467.68	11	3,113.42	11	2,759.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,871.87	1/4	4,520.07	1/4	4,167.62	1/4	3,814.57	1/4	3,460.30	1/4	3,106.04	1/4	2,751.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,864.58	1/2	4,512.73	1/2	4,160.28	1/2	3,807.18	1/2	3,452.92	1/2	3,098.66	1/2	2,744.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,857.30	3/4	4,505.38	3/4	4,152.94	3/4	3,799.80	3/4	3,445.54	3/4	3,091.28	3/4	2,737.01

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 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "KIRBY 29091"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-10 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	2,729.63	0	2,375.37	0	2,020.98	0	1,666.55	0	1,312.11	0	958.04	0	604.21	0	260.40	0		0	
1/4	2,722.25	1/4	2,367.99	1/4	2,013.60	1/4	1,659.16	1/4	1,304.73	1/4	950.67	1/4	596.84	1/4	253.71	1/4		1/4	
1/2	2,714.87	1/2	2,360.61	1/2	2,006.21	1/2	1,651.78	1/2	1,297.34	1/2	943.30	1/2	589.46	1/2	247.03	1/2		1/2	
3/4	2,707.49	3/4	2,353.23	3/4	1,998.83	3/4	1,644.39	3/4	1,289.96	3/4	935.94	3/4	582.08	3/4	240.34	3/4		3/4	
1	2,700.11	1	2,345.85	1	1,991.45	1	1,637.01	1	1,282.57	1	928.57	1	574.70	1	233.75	1		1	
1/4	2,692.73	1/4	2,338.46	1/4	1,984.06	1/4	1,629.63	1/4	1,275.19	1/4	921.20	1/4	567.32	1/4	227.15	1/4		1/4	
1/2	2,685.35	1/2	2,331.08	1/2	1,976.68	1/2	1,622.24	1/2	1,267.80	1/2	913.84	1/2	559.94	1/2	220.55	1/2		1/2	
3/4	2,677.97	3/4	2,323.70	3/4	1,969.29	3/4	1,614.86	3/4	1,260.42	3/4	906.47	3/4	552.56	3/4	213.96	3/4		3/4	
2	2,670.59	2	2,316.32	2	1,961.91	2	1,607.47	2	1,253.04	2	899.10	2	545.19	2	207.45	2		2	
1/4	2,663.21	1/4	2,308.94	1/4	1,954.53	1/4	1,600.09	1/4	1,245.65	1/4	891.74	1/4	537.81	1/4	200.94	1/4		1/4	
1/2	2,655.83	1/2	2,301.56	1/2	1,947.14	1/2	1,592.71	1/2	1,238.27	1/2	884.37	1/2	530.43	1/2	194.43	1/2		1/2	
3/4	2,648.45	3/4	2,294.18	3/4	1,939.76	3/4	1,585.32	3/4	1,230.88	3/4	877.00	3/4	523.05	3/4	187.93	3/4		3/4	
3	2,641.07	3	2,286.80	3	1,932.37	3	1,577.94	3	1,223.50	3	869.64	3	515.67	3	181.50	3		3	
1/4	2,633.68	1/4	2,279.42	1/4	1,924.99	1/4	1,570.55	1/4	1,216.12	1/4	862.27	1/4	508.29	1/4	175.08	1/4		1/4	
1/2	2,626.30	1/2	2,272.04	1/2	1,917.61	1/2	1,563.17	1/2	1,208.73	1/2	854.90	1/2	500.91	1/2	168.66	1/2		1/2	
3/4	2,618.92	3/4	2,264.66	3/4	1,910.22	3/4	1,555.78	3/4	1,201.35	3/4	847.54	3/4	493.54	3/4	162.23	3/4		3/4	
4	2,611.54	4	2,257.28	4	1,902.84	4	1,548.40	4	1,193.96	4	840.17	4	486.18	4	155.90	4		4	
1/4	2,604.16	1/4	2,249.89	1/4	1,895.45	1/4	1,541.02	1/4	1,186.58	1/4	832.80	1/4	478.82	1/4	149.56	1/4		1/4	
1/2	2,596.78	1/2	2,242.51	1/2	1,888.07	1/2	1,533.63	1/2	1,179.20	1/2	825.44	1/2	471.46	1/2	143.23	1/2		1/2	
3/4	2,589.40	3/4	2,235.12	3/4	1,880.69	3/4	1,526.25	3/4	1,171.81	3/4	818.07	3/4	464.10	3/4	136.90	3/4		3/4	
5	2,582.02	5	2,227.74	5	1,873.30	5	1,518.86	5	1,164.43	5	810.71	5	456.81	5	130.66	5		5	
1/4	2,574.64	1/4	2,220.35	1/4	1,865.92	1/4	1,511.48	1/4	1,157.06	1/4	803.34	1/4	449.51	1/4	124.42	1/4		1/4	
1/2	2,567.26	1/2	2,212.97	1/2	1,858.53	1/2	1,504.10	1/2	1,149.68	1/2	795.97	1/2	442.21	1/2	118.18	1/2		1/2	
3/4	2,559.88	3/4	2,205.59	3/4	1,851.15	3/4	1,496.71	3/4	1,142.30	3/4	788.61	3/4	434.91	3/4	111.94	3/4		3/4	
6	2,552.50	6	2,198.20	6	1,843.76	6	1,489.33	6	1,134.93	6	781.24	6	427.70	6	105.80	6		6	
1/4	2,545.12	1/4	2,190.82	1/4	1,836.38	1/4	1,481.94	1/4	1,127.55	1/4	773.87	1/4	420.49	1/4	99.66	1/4		1/4	
1/2	2,537.74	1/2	2,183.43	1/2	1,829.00	1/2	1,474.56	1/2	1,120.18	1/2	766.51	1/2	413.27	1/2	93.53	1/2		1/2	
3/4	2,530.36	3/4	2,176.05	3/4	1,821.61	3/4	1,467.18	3/4	1,112.80	3/4	759.14	3/4	406.06	3/4	87.39	3/4		3/4	
7	2,522.98	7	2,168.67	7	1,814.23	7	1,459.79	7	1,105.43	7	751.77	7	398.93	7	81.36	7		7	
1/4	2,515.60	1/4	2,161.28	1/4	1,806.84	1/4	1,452.41	1/4	1,098.06	1/4	744.39	1/4	391.81	1/4	75.33	1/4		1/4	
1/2	2,508.22	1/2	2,153.90	1/2	1,799.46	1/2	1,445.02	1/2	1,090.68	1/2	737.02	1/2	384.68	1/2	69.30	1/2		1/2	
3/4	2,500.84	3/4	2,146.51	3/4	1,792.08	3/4	1,437.64	3/4	1,083.31	3/4	729.64	3/4	377.56	3/4	63.27	3/4		3/4	
8	2,493.46	8	2,139.13	8	1,784.69	8	1,430.26	8	1,075.93	8	722.27	8	370.52	8	57.36	8		8	
1/4	2,486.07	1/4	2,131.74	1/4	1,777.31	1/4	1,422.87	1/4	1,068.56	1/4	714.89	1/4	363.48	1/4	51.46	1/4		1/4	
1/2	2,478.69	1/2	2,124.36	1/2	1,769.92	1/2	1,415.49	1/2	1,061.19	1/2	707.51	1/2	356.45	1/2	45.55	1/2		1/2	
3/4	2,471.31	3/4	2,116.98	3/4	1,762.54	3/4	1,408.10	3/4	1,053.81	3/4	700.13	3/4	349.41	3/4	39.64	3/4		3/4	
9	2,463.93	9	2,109.59	9	1,755.16	9	1,400.72	9	1,046.44	9	692.75	9	342.46	9	34.55	9		9	
1/4	2,456.55	1/4	2,102.21	1/4	1,747.77	1/4	1,393.33	1/4	1,039.07	1/4	685.37	1/4	335.51	1/4	29.46	1/4		1/4	
1/2	2,449.17	1/2	2,094.82	1/2	1,740.39	1/2	1,385.95	1/2	1,031.70	1/2	678.00	1/2	328.56	1/2	24.37	1/2		1/2	
3/4	2,441.79	3/4	2,087.44	3/4	1,733.00	3/4	1,378.57	3/4	1,024.33	3/4	670.62	3/4	321.62	3/4	19.28	3/4		3/4	
10	2,434.41	10	2,080.06	10	1,725.62	10	1,371.18	10	1,016.97	10	663.24	10	314.75	10	16.24	10		10	
1/4	2,427.03	1/4	2,072.67	1/4	1,718.23	1/4	1,363.80	1/4	1,009.60	1/4	655.86	1/4	307.89	1/4	13.21	1/4		1/4	
1/2	2,419.65	1/2	2,065.29	1/2	1,710.85	1/2	1,356.41	1/2	1,002.23	1/2	648.48	1/2	301.03	1/2	10.17	1/2		1/2	
3/4	2,412.27	3/4	2,057.90	3/4	1,703.47	3/4	1,349.03	3/4	994.87	3/4	641.11	3/4	294.17	3/4	7.14	3/4		3/4	
11	2,404.89	11	2,050.52	11	1,696.08	11	1,341.65	11	987.50	11	633.73	11	287.40	11		11		11	
1/4	2,397.51	1/4	2,043.14	1/4	1,688.70	1/4	1,334.26	1/4	980.13	1/4	626.35	1/4	280.63	1/4		1/4		1/4	
1/2	2,390.13	1/2	2,035.75	1/2	1,681.31	1/2	1,326.88	1/2	972.77	1/2	618.97	1/2	273.85	1/2		1/2		1/2	
3/4	2,382.75	3/4	2,028.37	3/4	1,673.93	3/4	1,319.49	3/4	965.40	3/4	611.59	3/4	267.08	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/04/2015 PMA  
RECALCULATED: 06/09/2020 PMA  
NAME CHANGE: 06/09/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2020

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



# BARGE "KIRBY 29091"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11"

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		0	4,857.30	0	4,505.38	0	4,152.94	0	3,799.80	0	3,445.54	0	3,091.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,850.01	1/4	4,498.04	1/4	4,145.60	1/4	3,792.42	1/4	3,438.16	1/4	3,083.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,842.72	1/2	4,490.70	1/2	4,138.25	1/2	3,785.04	1/2	3,430.78	1/2	3,076.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,835.43	3/4	4,483.36	3/4	4,130.91	3/4	3,777.66	3/4	3,423.40	3/4	3,069.13		
1		1		1		1		1	4,828.15	1	4,476.01	1	4,123.57	1	3,770.28	1	3,416.02	1	3,061.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,820.86	1/4	4,468.67	1/4	4,116.23	1/4	3,762.90	1/4	3,408.64	1/4	3,054.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,813.57	1/2	4,461.33	1/2	4,108.88	1/2	3,755.52	1/2	3,401.26	1/2	3,046.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,806.29	3/4	4,453.99	3/4	4,101.54	3/4	3,748.14	3/4	3,393.88	3/4	3,039.61		
2		2		2		2		2	4,799.00	2	4,446.64	2	4,094.20	2	3,740.76	2	3,386.50	2	3,032.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,791.68	1/4	4,439.30	1/4	4,086.86	1/4	3,733.38	1/4	3,379.12	1/4	3,024.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,784.36	1/2	4,431.96	1/2	4,079.51	1/2	3,726.00	1/2	3,371.74	1/2	3,017.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,777.04	3/4	4,424.62	3/4	4,072.17	3/4	3,718.62	3/4	3,364.35	3/4	3,010.09		
3		3		3		3		3	4,769.72	3	4,417.27	3	4,064.83	3	3,711.24	3	3,356.97	3	3,002.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,762.37	1/4	4,409.93	1/4	4,057.49	1/4	3,703.86	1/4	3,349.59	1/4	2,995.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,755.03	1/2	4,402.59	1/2	4,050.14	1/2	3,696.48	1/2	3,342.21	1/2	2,987.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,747.69	3/4	4,395.24	3/4	4,042.80	3/4	3,689.10	3/4	3,334.83	3/4	2,980.57		
4		4		4		4		4	4,740.35	4	4,387.90	4	4,035.46	4	3,681.72	4	3,327.45	4	2,973.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,733.00	1/4	4,380.56	1/4	4,028.11	1/4	3,674.34	1/4	3,320.07	1/4	2,965.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,725.66	1/2	4,373.22	1/2	4,020.77	1/2	3,666.96	1/2	3,312.69	1/2	2,958.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,718.32	3/4	4,365.87	3/4	4,013.43	3/4	3,659.57	3/4	3,305.31	3/4	2,951.05		
5		5		5		5		5	4,710.98	5	4,358.53	5	4,006.09	5	3,652.19	5	3,297.93	5	2,943.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,703.63	1/4	4,351.19	1/4	3,998.74	1/4	3,644.81	1/4	3,290.55	1/4	2,936.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,696.29	1/2	4,343.85	1/2	3,991.40	1/2	3,637.43	1/2	3,283.17	1/2	2,928.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,688.95	3/4	4,336.50	3/4	3,984.06	3/4	3,630.05	3/4	3,275.79	3/4	2,921.52		
6		6		6		6		6	4,681.61	6	4,329.16	6	3,976.72	6	3,622.67	6	3,268.41	6	2,914.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,003.29	1/4	4,674.26	1/4	4,321.82	1/4	3,969.37	1/4	3,615.29	1/4	3,261.03	1/4	2,906.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,999.51	1/2	4,666.92	1/2	4,314.48	1/2	3,962.03	1/2	3,607.91	1/2	3,253.65	1/2	2,899.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,995.73	3/4	4,659.58	3/4	4,307.13	3/4	3,954.69	3/4	3,600.53	3/4	3,246.27	3/4	2,892.00
7		7		7		7		7	4,991.95	7	4,652.24	7	4,299.79	7	3,947.35	7	3,593.15	7	3,238.89	7	2,884.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,986.70	1/4	4,644.89	1/4	4,292.45	1/4	3,939.98	1/4	3,585.77	1/4	3,231.51	1/4	2,877.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,981.44	1/2	4,637.55	1/2	4,285.11	1/2	3,932.62	1/2	3,578.39	1/2	3,224.12	1/2	2,869.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,976.18	3/4	4,630.21	3/4	4,277.76	3/4	3,925.26	3/4	3,571.01	3/4	3,216.74	3/4	2,862.48
8		8		8		8		8	4,970.93	8	4,622.87	8	4,270.42	8	3,917.89	8	3,563.63	8	3,209.36	8	2,855.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,964.31	1/4	4,615.52	1/4	4,263.08	1/4	3,910.51	1/4	3,556.25	1/4	3,201.98	1/4	2,847.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,957.69	1/2	4,608.18	1/2	4,255.74	1/2	3,903.13	1/2	3,548.87	1/2	3,194.60	1/2	2,840.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,951.08	3/4	4,600.84	3/4	4,248.39	3/4	3,895.75	3/4	3,541.49	3/4	3,187.22	3/4	2,832.96
9		9		9		9		9	4,944.46	9	4,593.49	9	4,241.05	9	3,888.37	9	3,534.11	9	3,179.84	9	2,825.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,937.24	1/4	4,586.15	1/4	4,233.71	1/4	3,880.99	1/4	3,526.73	1/4	3,172.46	1/4	2,818.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,930.02	1/2	4,578.81	1/2	4,226.36	1/2	3,873.61	1/2	3,519.35	1/2	3,165.08	1/2	2,810.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,922.81	3/4	4,571.47	3/4	4,219.02	3/4	3,866.23	3/4	3,511.96	3/4	3,157.70	3/4	2,803.44
10		10		10		10		10	4,915.59	10	4,564.12	10	4,211.68	10	3,858.85	10	3,504.58	10	3,150.32	10	2,796.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,908.30	1/4	4,556.78	1/4	4,204.34	1/4	3,851.47	1/4	3,497.20	1/4	3,142.94	1/4	2,788.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,901.02	1/2	4,549.44	1/2	4,196.99	1/2	3,844.09	1/2	3,489.82	1/2	3,135.56	1/2	2,781.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,893.73	3/4	4,542.10	3/4	4,189.65	3/4	3,836.71	3/4	3,482.44	3/4	3,128.18	3/4	2,773.91
11		11		11		11		11	4,886.44	11	4,534.75	11	4,182.31	11	3,829.33	11	3,475.06	11	3,120.80	11	2,766.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,879.16	1/4	4,527.41	1/4	4,174.97	1/4	3,821.95	1/4	3,467.68	1/4	3,113.42	1/4	2,759.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,871.87	1/2	4,520.07	1/2	4,167.62	1/2	3,814.57	1/2	3,460.30	1/2	3,106.04	1/2	2,751.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,864.58	3/4	4,512.73	3/4	4,160.28	3/4	3,807.18	3/4	3,452.92	3/4	3,098.66	3/4	2,744.39

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 41'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29091"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11"

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	2,737.01	0	2,382.75	0	2,028.37	0	1,673.93	0	1,319.49	0	965.40	0	611.59	0	267.08	0		0	
1/4	2,729.63	1/4	2,375.37	1/4	2,020.98	1/4	1,666.55	1/4	1,312.11	1/4	958.04	1/4	604.21	1/4	260.40	1/4		1/4	
1/2	2,722.25	1/2	2,367.99	1/2	2,013.60	1/2	1,659.16	1/2	1,304.73	1/2	950.67	1/2	596.84	1/2	253.71	1/2		1/2	
3/4	2,714.87	3/4	2,360.61	3/4	2,006.21	3/4	1,651.78	3/4	1,297.34	3/4	943.30	3/4	589.46	3/4	247.03	3/4		3/4	
1	2,707.49	1	2,353.23	1	1,998.83	1	1,644.39	1	1,289.96	1	935.94	1	582.08	1	240.34	1		1	
1/4	2,700.11	1/4	2,345.85	1/4	1,991.45	1/4	1,637.01	1/4	1,282.57	1/4	928.57	1/4	574.70	1/4	233.75	1/4		1/4	
1/2	2,692.73	1/2	2,338.46	1/2	1,984.06	1/2	1,629.63	1/2	1,275.19	1/2	921.20	1/2	567.32	1/2	227.15	1/2		1/2	
3/4	2,685.35	3/4	2,331.08	3/4	1,976.68	3/4	1,622.24	3/4	1,267.80	3/4	913.84	3/4	559.94	3/4	220.55	3/4		3/4	
2	2,677.97	2	2,323.70	2	1,969.29	2	1,614.86	2	1,260.42	2	906.47	2	552.56	2	213.96	2		2	
1/4	2,670.59	1/4	2,316.32	1/4	1,961.91	1/4	1,607.47	1/4	1,253.04	1/4	899.10	1/4	545.19	1/4	207.45	1/4		1/4	
1/2	2,663.21	1/2	2,308.94	1/2	1,954.53	1/2	1,600.09	1/2	1,245.65	1/2	891.74	1/2	537.81	1/2	200.94	1/2		1/2	
3/4	2,655.83	3/4	2,301.56	3/4	1,947.14	3/4	1,592.71	3/4	1,238.27	3/4	884.37	3/4	530.43	3/4	194.43	3/4		3/4	
3	2,648.45	3	2,294.18	3	1,939.76	3	1,585.32	3	1,230.88	3	877.00	3	523.05	3	187.93	3		3	
1/4	2,641.07	1/4	2,286.80	1/4	1,932.37	1/4	1,577.94	1/4	1,223.50	1/4	869.64	1/4	515.67	1/4	181.50	1/4		1/4	
1/2	2,633.68	1/2	2,279.42	1/2	1,924.99	1/2	1,570.55	1/2	1,216.12	1/2	862.27	1/2	508.29	1/2	175.08	1/2		1/2	
3/4	2,626.30	3/4	2,272.04	3/4	1,917.61	3/4	1,563.17	3/4	1,208.73	3/4	854.90	3/4	500.91	3/4	168.66	3/4		3/4	
4	2,618.92	4	2,264.66	4	1,910.22	4	1,555.78	4	1,201.35	4	847.54	4	493.54	4	162.23	4		4	
1/4	2,611.54	1/4	2,257.28	1/4	1,902.84	1/4	1,548.40	1/4	1,193.96	1/4	840.17	1/4	486.18	1/4	155.90	1/4		1/4	
1/2	2,604.16	1/2	2,249.89	1/2	1,895.45	1/2	1,541.02	1/2	1,186.58	1/2	832.80	1/2	478.82	1/2	149.56	1/2		1/2	
3/4	2,596.78	3/4	2,242.51	3/4	1,888.07	3/4	1,533.63	3/4	1,179.20	3/4	825.44	3/4	471.46	3/4	143.23	3/4		3/4	
5	2,589.40	5	2,235.12	5	1,880.69	5	1,526.25	5	1,171.81	5	818.07	5	464.10	5	136.90	5		5	
1/4	2,582.02	1/4	2,227.74	1/4	1,873.30	1/4	1,518.86	1/4	1,164.43	1/4	810.71	1/4	456.81	1/4	130.66	1/4		1/4	
1/2	2,574.64	1/2	2,220.35	1/2	1,865.92	1/2	1,511.48	1/2	1,157.06	1/2	803.34	1/2	449.51	1/2	124.42	1/2		1/2	
3/4	2,567.26	3/4	2,212.97	3/4	1,858.53	3/4	1,504.10	3/4	1,149.68	3/4	795.97	3/4	442.21	3/4	118.18	3/4		3/4	
6	2,559.88	6	2,205.59	6	1,851.15	6	1,496.71	6	1,142.30	6	788.61	6	434.91	6	111.94	6		6	
1/4	2,552.50	1/4	2,198.20	1/4	1,843.76	1/4	1,489.33	1/4	1,134.93	1/4	781.24	1/4	427.70	1/4	105.80	1/4		1/4	
1/2	2,545.12	1/2	2,190.82	1/2	1,836.38	1/2	1,481.94	1/2	1,127.55	1/2	773.87	1/2	420.49	1/2	99.66	1/2		1/2	
3/4	2,537.74	3/4	2,183.43	3/4	1,829.00	3/4	1,474.56	3/4	1,120.18	3/4	766.51	3/4	413.27	3/4	93.53	3/4		3/4	
7	2,530.36	7	2,176.05	7	1,821.61	7	1,467.18	7	1,112.80	7	759.14	7	406.06	7	87.39	7		7	
1/4	2,522.98	1/4	2,168.67	1/4	1,814.23	1/4	1,459.79	1/4	1,105.43	1/4	751.77	1/4	398.93	1/4	81.36	1/4		1/4	
1/2	2,515.60	1/2	2,161.28	1/2	1,806.84	1/2	1,452.41	1/2	1,098.06	1/2	744.39	1/2	391.81	1/2	75.33	1/2		1/2	
3/4	2,508.22	3/4	2,153.90	3/4	1,799.46	3/4	1,445.02	3/4	1,090.68	3/4	737.02	3/4	384.68	3/4	69.30	3/4		3/4	
8	2,500.84	8	2,146.51	8	1,792.08	8	1,437.64	8	1,083.31	8	729.64	8	377.56	8	63.27	8		8	
1/4	2,493.46	1/4	2,139.13	1/4	1,784.69	1/4	1,430.26	1/4	1,075.93	1/4	722.27	1/4	370.52	1/4	57.36	1/4		1/4	
1/2	2,486.07	1/2	2,131.74	1/2	1,777.31	1/2	1,422.87	1/2	1,068.56	1/2	714.89	1/2	363.48	1/2	51.46	1/2		1/2	
3/4	2,478.69	3/4	2,124.36	3/4	1,769.92	3/4	1,415.49	3/4	1,061.19	3/4	707.51	3/4	356.45	3/4	45.55	3/4		3/4	
9	2,471.31	9	2,116.98	9	1,762.54	9	1,408.10	9	1,053.81	9	700.13	9	349.41	9	39.64	9		9	
1/4	2,463.93	1/4	2,109.59	1/4	1,755.16	1/4	1,400.72	1/4	1,046.44	1/4	692.75	1/4	342.46	1/4	34.55	1/4		1/4	
1/2	2,456.55	1/2	2,102.21	1/2	1,747.77	1/2	1,393.33	1/2	1,039.07	1/2	685.37	1/2	335.51	1/2	29.46	1/2		1/2	
3/4	2,449.17	3/4	2,094.82	3/4	1,740.39	3/4	1,385.95	3/4	1,031.70	3/4	678.00	3/4	328.56	3/4	24.37	3/4		3/4	
10	2,441.79	10	2,087.44	10	1,733.00	10	1,378.57	10	1,024.33	10	670.62	10	321.62	10	19.28	10		10	
1/4	2,434.41	1/4	2,080.06	1/4	1,725.62	1/4	1,371.18	1/4	1,016.97	1/4	663.24	1/4	314.75	1/4	16.24	1/4		1/4	
1/2	2,427.03	1/2	2,072.67	1/2	1,718.23	1/2	1,363.80	1/2	1,009.60	1/2	655.86	1/2	307.89	1/2	13.21	1/2		1/2	
3/4	2,419.65	3/4	2,065.29	3/4	1,710.85	3/4	1,356.41	3/4	1,002.23	3/4	648.48	3/4	301.03	3/4	10.17	3/4		3/4	
11	2,412.27	11	2,057.90	11	1,703.47	11	1,349.03	11	994.87	11	641.11	11	294.17	11	7.14	11		11	
1/4	2,404.89	1/4	2,050.52	1/4	1,696.08	1/4	1,341.65	1/4	987.50	1/4	633.73	1/4	287.40	1/4		1/4		1/4	
1/2	2,397.51	1/2	2,043.14	1/2	1,688.70	1/2	1,334.26	1/2	980.13	1/2	626.35	1/2	280.63	1/2		1/2		1/2	
3/4	2,390.13	3/4	2,035.75	3/4	1,681.31	3/4	1,326.88	3/4	972.77	3/4	618.97	3/4	273.85	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/04/2015 PMA  
RECALCULATED: 06/09/2020 PMA  
NAME CHANGE: 06/09/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "KIRBY 29091"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11"

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		0	4,882.27	0	4,531.93	0	4,181.05	0	3,829.46	0	3,476.77	0	3,124.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,875.02	1/4	4,524.62	1/4	4,173.74	1/4	3,822.11	1/4	3,469.42	1/4	3,116.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,867.76	1/2	4,517.31	1/2	4,166.43	1/2	3,814.77	1/2	3,462.07	1/2	3,109.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,860.51	3/4	4,510.00	3/4	4,159.12	3/4	3,807.42	3/4	3,454.72	3/4	3,102.03		
1		1		1		1		1	4,853.25	1	4,502.69	1	4,151.81	1	3,800.07	1	3,447.38	1	3,094.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,846.00	1/4	4,495.38	1/4	4,144.50	1/4	3,792.72	1/4	3,440.03	1/4	3,087.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,838.75	1/2	4,488.07	1/2	4,137.19	1/2	3,785.38	1/2	3,432.68	1/2	3,079.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,831.49	3/4	4,480.76	3/4	4,129.88	3/4	3,778.03	3/4	3,425.33	3/4	3,072.64		
2		2		2		2		2	4,824.24	2	4,473.45	2	4,122.57	2	3,770.68	2	3,417.99	2	3,065.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,816.95	1/4	4,466.14	1/4	4,115.26	1/4	3,763.33	1/4	3,410.64	1/4	3,057.94		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,809.66	1/2	4,458.83	1/2	4,107.95	1/2	3,755.98	1/2	3,403.29	1/2	3,050.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,802.37	3/4	4,451.52	3/4	4,100.64	3/4	3,748.64	3/4	3,395.94	3/4	3,043.25		
3		3		3		3		3	4,795.09	3	4,444.21	3	4,093.33	3	3,741.29	3	3,388.59	3	3,035.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,787.78	1/4	4,436.90	1/4	4,086.02	1/4	3,733.94	1/4	3,381.25	1/4	3,028.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,780.47	1/2	4,429.59	1/2	4,078.71	1/2	3,726.59	1/2	3,373.90	1/2	3,021.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,773.16	3/4	4,422.28	3/4	4,071.40	3/4	3,719.25	3/4	3,366.55	3/4	3,013.86		
4		4		4		4		4	4,765.85	4	4,414.97	4	4,064.09	4	3,711.90	4	3,359.20	4	3,006.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,758.54	1/4	4,407.66	1/4	4,056.78	1/4	3,704.55	1/4	3,351.86	1/4	2,999.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,751.23	1/2	4,400.35	1/2	4,049.47	1/2	3,697.20	1/2	3,344.51	1/2	2,991.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,743.92	3/4	4,393.04	3/4	4,042.16	3/4	3,689.85	3/4	3,337.16	3/4	2,984.47		
5		5		5		5		5	4,736.61	5	4,385.73	5	4,034.85	5	3,682.51	5	3,329.81	5	2,977.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,729.30	1/4	4,378.42	1/4	4,027.54	1/4	3,675.16	1/4	3,322.46	1/4	2,969.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,721.99	1/2	4,371.11	1/2	4,020.23	1/2	3,667.81	1/2	3,315.12	1/2	2,962.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.68	3/4	4,363.80	3/4	4,012.92	3/4	3,660.46	3/4	3,307.77	3/4	2,955.07		
6		6		6		6		6	4,707.37	6	4,356.49	6	4,005.61	6	3,653.12	6	3,300.42	6	2,947.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,027.61	1/4	4,700.06	1/4	4,349.18	1/4	3,998.30	1/4	3,645.77	1/4	3,293.07	1/4	2,940.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,023.85	1/2	4,692.75	1/2	4,341.87	1/2	3,990.99	1/2	3,638.42	1/2	3,285.73	1/2	2,933.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,020.09	3/4	4,685.44	3/4	4,334.56	3/4	3,983.68	3/4	3,631.07	3/4	3,278.38	3/4	2,925.68
7		7		7		7		7	5,016.32	7	4,678.13	7	4,327.25	7	3,976.37	7	3,623.72	7	3,271.03	7	2,918.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.09	1/4	4,670.82	1/4	4,319.94	1/4	3,969.03	1/4	3,616.38	1/4	3,263.68	1/4	2,910.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,005.86	1/2	4,663.51	1/2	4,312.63	1/2	3,961.70	1/2	3,609.03	1/2	3,256.33	1/2	2,903.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,000.63	3/4	4,656.20	3/4	4,305.32	3/4	3,954.36	3/4	3,601.68	3/4	3,248.99	3/4	2,896.29
8		8		8		8		8	4,995.39	8	4,648.89	8	4,298.01	8	3,947.03	8	3,594.33	8	3,241.64	8	2,888.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,988.81	1/4	4,641.58	1/4	4,290.70	1/4	3,939.68	1/4	3,586.99	1/4	3,234.29	1/4	2,881.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,982.22	1/2	4,634.27	1/2	4,283.39	1/2	3,932.33	1/2	3,579.64	1/2	3,226.94	1/2	2,874.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,975.63	3/4	4,626.96	3/4	4,276.08	3/4	3,924.98	3/4	3,572.29	3/4	3,219.60	3/4	2,866.90
9		9		9		9		9	4,969.04	9	4,619.65	9	4,268.77	9	3,917.64	9	3,564.94	9	3,212.25	9	2,859.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,961.86	1/4	4,612.34	1/4	4,261.46	1/4	3,910.29	1/4	3,557.59	1/4	3,204.90	1/4	2,852.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,954.67	1/2	4,605.03	1/2	4,254.15	1/2	3,902.94	1/2	3,550.25	1/2	3,197.55	1/2	2,844.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,947.49	3/4	4,597.72	3/4	4,246.84	3/4	3,895.59	3/4	3,542.90	3/4	3,190.20	3/4	2,837.51
10		10		10		10		10	4,940.30	10	4,590.41	10	4,239.53	10	3,888.24	10	3,535.55	10	3,182.86	10	2,830.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,933.05	1/4	4,583.10	1/4	4,232.22	1/4	3,880.90	1/4	3,528.20	1/4	3,175.51	1/4	2,822.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,925.80	1/2	4,575.79	1/2	4,224.91	1/2	3,873.55	1/2	3,520.85	1/2	3,168.16	1/2	2,815.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,918.54	3/4	4,568.48	3/4	4,217.60	3/4	3,866.20	3/4	3,513.51	3/4	3,160.81	3/4	2,808.12
11		11		11		11		11	4,911.29	11	4,561.17	11	4,210.29	11	3,858.85	11	3,506.16	11	3,153.46	11	2,800.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,904.03	1/4	4,553.86	1/4	4,202.98	1/4	3,851.51	1/4	3,498.81	1/4	3,146.12	1/4	2,793.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,896.78	1/2	4,546.55	1/2	4,195.67	1/2	3,844.16	1/2	3,491.46	1/2	3,138.77	1/2	2,786.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,889.53	3/4	4,539.24	3/4	4,188.36	3/4	3,836.81	3/4	3,484.12	3/4	3,131.42	3/4	2,778.73

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC DEVICE".  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29091"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11"

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	2,771.38	0	2,418.68	0	2,065.88	0	1,713.00	0	1,360.33	0	1,015.59	0	672.22	0	319.63	0		0	
1/4	2,764.03	1/4	2,411.34	1/4	2,058.52	1/4	1,705.65	1/4	1,352.97	1/4	1,008.55	1/4	664.87	1/4	312.29	1/4		1/4	
1/2	2,756.68	1/2	2,403.99	1/2	2,051.17	1/2	1,698.30	1/2	1,345.62	1/2	1,001.52	1/2	657.53	1/2	304.94	1/2		1/2	
3/4	2,749.34	3/4	2,396.64	3/4	2,043.82	3/4	1,690.95	3/4	1,338.27	3/4	994.49	3/4	650.18	3/4	297.59	3/4		3/4	
1	2,741.99	1	2,389.29	1	2,036.47	1	1,683.60	1	1,330.92	1	987.45	1	642.84	1	290.25	1		1	
1/4	2,734.64	1/4	2,381.95	1/4	2,029.12	1/4	1,676.25	1/4	1,323.57	1/4	980.42	1/4	635.49	1/4	282.90	1/4		1/4	
1/2	2,727.29	1/2	2,374.60	1/2	2,021.77	1/2	1,668.89	1/2	1,316.22	1/2	973.39	1/2	628.15	1/2	275.56	1/2		1/2	
3/4	2,719.94	3/4	2,367.25	3/4	2,014.41	3/4	1,661.54	3/4	1,308.87	3/4	966.36	3/4	620.80	3/4	268.21	3/4		3/4	
2	2,712.60	2	2,359.90	2	2,007.06	2	1,654.19	2	1,301.51	2	959.32	2	613.46	2	260.87	2		2	
1/4	2,705.25	1/4	2,352.55	1/4	1,999.71	1/4	1,646.84	1/4	1,294.16	1/4	952.29	1/4	606.11	1/4	253.52	1/4		1/4	
1/2	2,697.90	1/2	2,345.21	1/2	1,992.36	1/2	1,639.49	1/2	1,286.81	1/2	945.26	1/2	598.76	1/2	246.18	1/2		1/2	
3/4	2,690.55	3/4	2,337.86	3/4	1,985.01	3/4	1,632.14	3/4	1,279.46	3/4	938.22	3/4	591.42	3/4	238.83	3/4		3/4	
3	2,683.21	3	2,330.51	3	1,977.66	3	1,624.79	3	1,272.11	3	931.19	3	584.07	3	231.48	3		3	
1/4	2,675.86	1/4	2,323.16	1/4	1,970.31	1/4	1,617.43	1/4	1,264.76	1/4	924.16	1/4	576.73	1/4	224.14	1/4		1/4	
1/2	2,668.51	1/2	2,315.82	1/2	1,962.95	1/2	1,610.08	1/2	1,257.41	1/2	917.12	1/2	569.38	1/2	216.79	1/2		1/2	
3/4	2,661.16	3/4	2,308.47	3/4	1,955.60	3/4	1,602.73	3/4	1,250.05	3/4	910.09	3/4	562.04	3/4	209.44	3/4		3/4	
4	2,653.81	4	2,301.12	4	1,948.25	4	1,595.38	4	1,242.70	4	903.06	4	554.69	4	202.09	4		4	
1/4	2,646.47	1/4	2,293.77	1/4	1,940.90	1/4	1,588.03	1/4	1,235.35	1/4	896.03	1/4	547.34	1/4	194.74	1/4		1/4	
1/2	2,639.12	1/2	2,286.42	1/2	1,933.55	1/2	1,580.69	1/2	1,228.00	1/2	888.99	1/2	540.00	1/2	187.39	1/2		1/2	
3/4	2,631.77	3/4	2,279.07	3/4	1,926.20	3/4	1,573.34	3/4	1,220.65	3/4	881.96	3/4	532.65	3/4	180.04	3/4		3/4	
5	2,624.42	5	2,271.72	5	1,918.85	5	1,565.99	5	1,213.30	5	874.93	5	525.31	5	172.70	5		5	
1/4	2,617.08	1/4	2,264.37	1/4	1,911.49	1/4	1,558.65	1/4	1,206.12	1/4	867.89	1/4	517.96	1/4	165.36	1/4		1/4	
1/2	2,609.73	1/2	2,257.01	1/2	1,904.14	1/2	1,551.31	1/2	1,198.95	1/2	860.86	1/2	510.62	1/2	158.02	1/2		1/2	
3/4	2,602.38	3/4	2,249.66	3/4	1,896.79	3/4	1,543.96	3/4	1,191.78	3/4	853.83	3/4	503.27	3/4	150.67	3/4		3/4	
6	2,595.03	6	2,242.31	6	1,889.44	6	1,536.62	6	1,184.61	6	846.79	6	495.93	6	143.33	6		6	
1/4	2,587.68	1/4	2,234.96	1/4	1,882.09	1/4	1,529.28	1/4	1,177.54	1/4	839.76	1/4	488.58	1/4	136.01	1/4		1/4	
1/2	2,580.34	1/2	2,227.61	1/2	1,874.74	1/2	1,521.93	1/2	1,170.48	1/2	832.73	1/2	481.23	1/2	128.68	1/2		1/2	
3/4	2,572.99	3/4	2,220.26	3/4	1,867.38	3/4	1,514.59	3/4	1,163.42	3/4	825.70	3/4	473.89	3/4	121.35	3/4		3/4	
7	2,565.64	7	2,212.91	7	1,860.03	7	1,507.25	7	1,156.35	7	818.66	7	466.54	7	114.02	7		7	
1/4	2,558.29	1/4	2,205.55	1/4	1,852.68	1/4	1,499.90	1/4	1,149.30	1/4	811.43	1/4	459.20	1/4	106.71	1/4		1/4	
1/2	2,550.95	1/2	2,198.20	1/2	1,845.33	1/2	1,492.56	1/2	1,142.25	1/2	804.21	1/2	451.85	1/2	99.40	1/2		1/2	
3/4	2,543.60	3/4	2,190.85	3/4	1,837.98	3/4	1,485.22	3/4	1,135.20	3/4	796.98	3/4	444.51	3/4	92.10	3/4		3/4	
8	2,536.25	8	2,183.50	8	1,830.63	8	1,477.87	8	1,128.15	8	789.75	8	437.16	8	84.79	8		8	
1/4	2,528.90	1/4	2,176.15	1/4	1,823.28	1/4	1,470.53	1/4	1,121.11	1/4	782.40	1/4	429.82	1/4	77.51	1/4		1/4	
1/2	2,521.55	1/2	2,168.80	1/2	1,815.92	1/2	1,463.19	1/2	1,114.07	1/2	775.06	1/2	422.47	1/2	70.24	1/2		1/2	
3/4	2,514.21	3/4	2,161.44	3/4	1,808.57	3/4	1,455.84	3/4	1,107.03	3/4	767.71	3/4	415.12	3/4	62.97	3/4		3/4	
9	2,506.86	9	2,154.09	9	1,801.22	9	1,448.50	9	1,099.99	9	760.37	9	407.78	9	55.69	9		9	
1/4	2,499.51	1/4	2,146.74	1/4	1,793.87	1/4	1,441.16	1/4	1,092.96	1/4	753.02	1/4	400.43	1/4	49.15	1/4		1/4	
1/2	2,492.16	1/2	2,139.39	1/2	1,786.52	1/2	1,433.81	1/2	1,085.92	1/2	745.68	1/2	393.09	1/2	42.60	1/2		1/2	
3/4	2,484.82	3/4	2,132.04	3/4	1,779.17	3/4	1,426.47	3/4	1,078.89	3/4	738.33	3/4	385.74	3/4	36.05	3/4		3/4	
10	2,477.47	10	2,124.69	10	1,771.82	10	1,419.13	10	1,071.85	10	730.98	10	378.40	10	29.50	10		10	
1/4	2,470.12	1/4	2,117.34	1/4	1,764.46	1/4	1,411.78	1/4	1,064.82	1/4	723.64	1/4	371.05	1/4	24.91	1/4		1/4	
1/2	2,462.77	1/2	2,109.98	1/2	1,757.11	1/2	1,404.43	1/2	1,057.78	1/2	716.29	1/2	363.70	1/2	20.32	1/2		1/2	
3/4	2,455.42	3/4	2,102.63	3/4	1,749.76	3/4	1,397.08	3/4	1,050.75	3/4	708.95	3/4	356.36	3/4	15.72	3/4		3/4	
11	2,448.08	11	2,095.28	11	1,742.41	11	1,389.73	11	1,043.72	11	701.60	11	349.01	11	11.13	11		11	
1/4	2,440.73	1/4	2,087.93	1/4	1,735.06	1/4	1,382.38	1/4	1,036.69	1/4	694.26	1/4	341.67	1/4		1/4		1/4	
1/2	2,433.38	1/2	2,080.58	1/2	1,727.71	1/2	1,375.03	1/2	1,029.65	1/2	686.91	1/2	334.32	1/2		1/2		1/2	
3/4	2,426.03	3/4	2,073.23	3/4	1,720.35	3/4	1,367.68	3/4	1,022.62	3/4	679.57	3/4	326.98	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/04/2015 PMA  
RECALCULATED: 06/09/2020 PMA  
NAME CHANGE: 06/09/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2020

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





# BARGE "KIRBY 29091"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11 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		0	4,905.81	0	4,555.50	0	4,204.61	0	3,853.06	0	3,500.35	0	3,147.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,898.56	1/4	4,548.19	1/4	4,197.30	1/4	3,845.71	1/4	3,493.00	1/4	3,140.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,891.30	1/2	4,540.88	1/2	4,189.99	1/2	3,838.36	1/2	3,485.66	1/2	3,132.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,884.05	3/4	4,533.57	3/4	4,182.68	3/4	3,831.02	3/4	3,478.31	3/4	3,125.60
1		1		1		1		1	4,876.79	1	4,526.26	1	4,175.37	1	3,823.67	1	3,470.96	1	3,118.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,869.54	1/4	4,518.95	1/4	4,168.06	1/4	3,816.32	1/4	3,463.61	1/4	3,110.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,862.28	1/2	4,511.64	1/2	4,160.75	1/2	3,808.97	1/2	3,456.26	1/2	3,103.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,855.03	3/4	4,504.33	3/4	4,153.44	3/4	3,801.62	3/4	3,448.91	3/4	3,096.21
2		2		2		2		2	4,847.77	2	4,497.02	2	4,146.13	2	3,794.28	2	3,441.57	2	3,088.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,840.52	1/4	4,489.71	1/4	4,138.82	1/4	3,786.93	1/4	3,434.22	1/4	3,081.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,833.23	1/2	4,482.40	1/2	4,131.51	1/2	3,779.58	1/2	3,426.87	1/2	3,074.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,825.94	3/4	4,475.09	3/4	4,124.20	3/4	3,772.23	3/4	3,419.52	3/4	3,066.81
3		3		3		3		3	4,818.65	3	4,467.78	3	4,116.89	3	3,764.88	3	3,412.17	3	3,059.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,811.36	1/4	4,460.47	1/4	4,109.58	1/4	3,757.53	1/4	3,404.83	1/4	3,052.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,804.05	1/2	4,453.16	1/2	4,102.27	1/2	3,750.19	1/2	3,397.48	1/2	3,044.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,796.74	3/4	4,445.85	3/4	4,094.96	3/4	3,742.84	3/4	3,390.13	3/4	3,037.42
4		4		4		4		4	4,789.43	4	4,438.54	4	4,087.65	4	3,735.49	4	3,382.78	4	3,030.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,782.12	1/4	4,431.23	1/4	4,080.34	1/4	3,728.14	1/4	3,375.43	1/4	3,022.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,774.81	1/2	4,423.92	1/2	4,073.03	1/2	3,720.79	1/2	3,368.09	1/2	3,015.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,767.50	3/4	4,416.61	3/4	4,065.72	3/4	3,713.45	3/4	3,360.74	3/4	3,008.03
5		5		5		5		5	4,760.19	5	4,409.30	5	4,058.41	5	3,706.10	5	3,353.39	5	3,000.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,752.88	1/4	4,401.99	1/4	4,051.10	1/4	3,698.75	1/4	3,346.04	1/4	2,993.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,745.57	1/2	4,394.68	1/2	4,043.79	1/2	3,691.40	1/2	3,338.69	1/2	2,985.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,738.26	3/4	4,387.37	3/4	4,036.48	3/4	3,684.05	3/4	3,331.34	3/4	2,978.64
6		6		6		6		6	4,730.95	6	4,380.06	6	4,029.17	6	3,676.71	6	3,324.00	6	2,971.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,723.64	1/4	4,372.75	1/4	4,021.86	1/4	3,669.36	1/4	3,316.65	1/4	2,963.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,043.90	1/2	4,716.33	1/2	4,365.44	1/2	4,014.55	1/2	3,662.01	1/2	3,309.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,040.14	3/4	4,709.02	3/4	4,358.13	3/4	4,007.24	3/4	3,654.66	3/4	3,301.95
7		7		7		7		7	5,036.38	7	4,701.71	7	4,350.82	7	3,999.93	7	3,647.31	7	3,294.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,032.61	1/4	4,694.40	1/4	4,343.51	1/4	3,992.62	1/4	3,639.97	1/4	3,287.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,027.38	1/2	4,687.09	1/2	4,336.20	1/2	3,985.28	1/2	3,632.62	1/2	3,279.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,022.15	3/4	4,679.78	3/4	4,328.89	3/4	3,977.95	3/4	3,625.27	3/4	3,272.56
8		8		8		8		8	5,016.92	8	4,672.47	8	4,321.58	8	3,970.62	8	3,617.92	8	3,265.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.68	1/4	4,665.16	1/4	4,314.27	1/4	3,963.28	1/4	3,610.57	1/4	3,257.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,005.09	1/2	4,657.85	1/2	4,306.96	1/2	3,955.93	1/2	3,603.22	1/2	3,250.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,998.51	3/4	4,650.54	3/4	4,299.65	3/4	3,948.59	3/4	3,595.88	3/4	3,243.17
9		9		9		9		9	4,991.92	9	4,643.22	9	4,292.34	9	3,941.24	9	3,588.53	9	3,235.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,985.33	1/4	4,635.91	1/4	4,285.03	1/4	3,933.89	1/4	3,581.18	1/4	3,228.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,978.15	1/2	4,628.60	1/2	4,277.71	1/2	3,926.54	1/2	3,573.83	1/2	3,221.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,970.96	3/4	4,621.29	3/4	4,270.40	3/4	3,919.19	3/4	3,566.48	3/4	3,213.78
10		10		10		10		10	4,963.78	10	4,613.98	10	4,263.09	10	3,911.84	10	3,559.14	10	3,206.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,956.59	1/4	4,606.67	1/4	4,255.78	1/4	3,904.50	1/4	3,551.79	1/4	3,199.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,949.34	1/2	4,599.36	1/2	4,248.47	1/2	3,897.15	1/2	3,544.44	1/2	3,191.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,942.08	3/4	4,592.05	3/4	4,241.16	3/4	3,889.80	3/4	3,537.09	3/4	3,184.38
11		11		11		11		11	4,934.83	11	4,584.74	11	4,233.85	11	3,882.45	11	3,529.74	11	3,177.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,927.57	1/4	4,577.43	1/4	4,226.54	1/4	3,875.10	1/4	3,522.40	1/4	3,169.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,920.32	1/2	4,570.12	1/2	4,219.23	1/2	3,867.76	1/2	3,515.05	1/2	3,162.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,913.06	3/4	4,562.81	3/4	4,211.92	3/4	3,860.41	3/4	3,507.70	3/4	3,154.99

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 42'-00" FORWARD OF AFT BULKHEAD.

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





# BARGE "KIRBY 29091"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11 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	2,794.93	0	2,442.22	0	2,089.41	0	1,736.52	0	1,383.70	0	1,031.40	0	679.59	0	326.99	0		0	
1/4	2,787.59	1/4	2,434.88	1/4	2,082.05	1/4	1,729.17	1/4	1,376.35	1/4	1,024.08	1/4	672.25	1/4	319.64	1/4		1/4	
1/2	2,780.24	1/2	2,427.53	1/2	2,074.70	1/2	1,721.82	1/2	1,369.00	1/2	1,016.76	1/2	664.90	1/2	312.30	1/2		1/2	
3/4	2,772.89	3/4	2,420.18	3/4	2,067.35	3/4	1,714.46	3/4	1,361.64	3/4	1,009.44	3/4	657.56	3/4	304.95	3/4		3/4	
1	2,765.54	1	2,412.83	1	2,060.00	1	1,707.11	1	1,354.29	1	1,002.12	1	650.21	1	297.61	1		1	
1/4	2,758.19	1/4	2,405.48	1/4	2,052.65	1/4	1,699.76	1/4	1,346.94	1/4	994.80	1/4	642.86	1/4	290.26	1/4		1/4	
1/2	2,750.84	1/2	2,398.14	1/2	2,045.30	1/2	1,692.41	1/2	1,339.59	1/2	987.48	1/2	635.52	1/2	282.91	1/2		1/2	
3/4	2,743.50	3/4	2,390.79	3/4	2,037.94	3/4	1,685.06	3/4	1,332.24	3/4	980.16	3/4	628.17	3/4	275.57	3/4		3/4	
2	2,736.15	2	2,383.44	2	2,030.59	2	1,677.71	2	1,324.88	2	972.84	2	620.83	2	268.22	2		2	
1/4	2,728.80	1/4	2,376.09	1/4	2,023.24	1/4	1,670.35	1/4	1,317.53	1/4	965.52	1/4	613.48	1/4	260.88	1/4		1/4	
1/2	2,721.45	1/2	2,368.74	1/2	2,015.89	1/2	1,663.00	1/2	1,310.18	1/2	958.20	1/2	606.13	1/2	253.53	1/2		1/2	
3/4	2,714.10	3/4	2,361.40	3/4	2,008.54	3/4	1,655.65	3/4	1,302.83	3/4	950.88	3/4	598.79	3/4	246.18	3/4		3/4	
3	2,706.76	3	2,354.05	3	2,001.18	3	1,648.30	3	1,295.48	3	943.56	3	591.44	3	238.84	3		3	
1/4	2,699.41	1/4	2,346.70	1/4	1,993.83	1/4	1,640.95	1/4	1,288.13	1/4	936.24	1/4	584.10	1/4	231.49	1/4		1/4	
1/2	2,692.06	1/2	2,339.35	1/2	1,986.48	1/2	1,633.59	1/2	1,280.77	1/2	928.92	1/2	576.75	1/2	224.14	1/2		1/2	
3/4	2,684.71	3/4	2,332.00	3/4	1,979.13	3/4	1,626.24	3/4	1,273.42	3/4	921.60	3/4	569.40	3/4	216.80	3/4		3/4	
4	2,677.36	4	2,324.66	4	1,971.78	4	1,618.89	4	1,266.07	4	914.28	4	562.06	4	209.45	4		4	
1/4	2,670.02	1/4	2,317.31	1/4	1,964.43	1/4	1,611.54	1/4	1,258.72	1/4	906.96	1/4	554.71	1/4	202.10	1/4		1/4	
1/2	2,662.67	1/2	2,309.96	1/2	1,957.07	1/2	1,604.19	1/2	1,251.37	1/2	899.64	1/2	547.37	1/2	194.75	1/2		1/2	
3/4	2,655.32	3/4	2,302.61	3/4	1,949.72	3/4	1,596.84	3/4	1,244.02	3/4	892.32	3/4	540.02	3/4	187.40	3/4		3/4	
5	2,647.97	5	2,295.26	5	1,942.37	5	1,589.49	5	1,236.66	5	885.00	5	532.67	5	180.05	5		5	
1/4	2,640.62	1/4	2,287.91	1/4	1,935.02	1/4	1,582.14	1/4	1,229.31	1/4	877.68	1/4	525.33	1/4	172.70	1/4		1/4	
1/2	2,633.28	1/2	2,280.55	1/2	1,927.67	1/2	1,574.79	1/2	1,221.97	1/2	870.36	1/2	517.98	1/2	165.36	1/2		1/2	
3/4	2,625.93	3/4	2,273.20	3/4	1,920.32	3/4	1,567.44	3/4	1,214.62	3/4	863.04	3/4	510.64	3/4	158.02	3/4		3/4	
6	2,618.58	6	2,265.85	6	1,912.96	6	1,560.09	6	1,207.28	6	855.72	6	503.29	6	150.68	6		6	
1/4	2,611.23	1/4	2,258.50	1/4	1,905.61	1/4	1,552.74	1/4	1,199.93	1/4	848.40	1/4	495.95	1/4	143.34	1/4		1/4	
1/2	2,603.88	1/2	2,251.15	1/2	1,898.26	1/2	1,545.39	1/2	1,192.59	1/2	841.08	1/2	488.60	1/2	136.01	1/2		1/2	
3/4	2,596.53	3/4	2,243.79	3/4	1,890.91	3/4	1,538.05	3/4	1,185.25	3/4	833.76	3/4	481.25	3/4	128.68	3/4		3/4	
7	2,589.19	7	2,236.44	7	1,883.56	7	1,530.70	7	1,177.91	7	826.44	7	473.91	7	121.35	7		7	
1/4	2,581.84	1/4	2,229.09	1/4	1,876.20	1/4	1,523.35	1/4	1,170.57	1/4	819.12	1/4	466.56	1/4	114.03	1/4		1/4	
1/2	2,574.49	1/2	2,221.74	1/2	1,868.85	1/2	1,516.00	1/2	1,163.24	1/2	811.79	1/2	459.22	1/2	106.72	1/2		1/2	
3/4	2,567.14	3/4	2,214.39	3/4	1,861.50	3/4	1,508.65	3/4	1,155.91	3/4	804.45	3/4	451.87	3/4	99.41	3/4		3/4	
8	2,559.79	8	2,207.04	8	1,854.15	8	1,501.30	8	1,148.57	8	797.12	8	444.52	8	92.10	8		8	
1/4	2,552.45	1/4	2,199.68	1/4	1,846.80	1/4	1,493.95	1/4	1,141.24	1/4	789.78	1/4	437.18	1/4	84.79	1/4		1/4	
1/2	2,545.10	1/2	2,192.33	1/2	1,839.45	1/2	1,486.60	1/2	1,133.91	1/2	782.44	1/2	429.83	1/2	77.52	1/2		1/2	
3/4	2,537.75	3/4	2,184.98	3/4	1,832.09	3/4	1,479.25	3/4	1,126.59	3/4	775.09	3/4	422.49	3/4	70.24	3/4		3/4	
9	2,530.40	9	2,177.63	9	1,824.74	9	1,471.90	9	1,119.26	9	767.74	9	415.14	9	62.97	9		9	
1/4	2,523.05	1/4	2,170.28	1/4	1,817.39	1/4	1,464.55	1/4	1,111.93	1/4	760.40	1/4	407.79	1/4	55.70	1/4		1/4	
1/2	2,515.71	1/2	2,162.92	1/2	1,810.04	1/2	1,457.21	1/2	1,104.61	1/2	753.05	1/2	400.45	1/2	49.15	1/2		1/2	
3/4	2,508.36	3/4	2,155.57	3/4	1,802.69	3/4	1,449.86	3/4	1,097.29	3/4	745.71	3/4	393.10	3/4	42.60	3/4		3/4	
10	2,501.01	10	2,148.22	10	1,795.33	10	1,442.51	10	1,089.96	10	738.36	10	385.76	10	36.05	10		10	
1/4	2,493.66	1/4	2,140.87	1/4	1,787.98	1/4	1,435.16	1/4	1,082.64	1/4	731.01	1/4	378.41	1/4	29.50	1/4		1/4	
1/2	2,486.31	1/2	2,133.52	1/2	1,780.63	1/2	1,427.81	1/2	1,075.32	1/2	723.67	1/2	371.07	1/2	24.91	1/2		1/2	
3/4	2,478.97	3/4	2,126.17	3/4	1,773.28	3/4	1,420.46	3/4	1,068.00	3/4	716.32	3/4	363.72	3/4	20.32	3/4		3/4	
11	2,471.62	11	2,118.81	11	1,765.93	11	1,413.11	11	1,060.68	11	708.98	11	356.37	11	15.72	11		11	
1/4	2,464.27	1/4	2,111.46	1/4	1,758.58	1/4	1,405.75	1/4	1,053.36	1/4	701.63	1/4	349.03	1/4	11.13	1/4		1/4	
1/2	2,456.92	1/2	2,104.11	1/2	1,751.22	1/2	1,398.40	1/2	1,046.04	1/2	694.28	1/2	341.68	1/2		1/2		1/2	
3/4	2,449.57	3/4	2,096.76	3/4	1,743.87	3/4	1,391.05	3/4	1,038.72	3/4	686.94	3/4	334.34	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/04/2015 PMA  
RECALCULATED: 06/09/2020 PMA  
NAME CHANGE: 06/09/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 29091"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11"

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		0	4,789.37	0	4,522.13	0	4,254.37	0	3,986.08	0	3,716.95	0	3,344.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,783.85	1/4	4,516.55	1/4	4,248.79	1/4	3,980.47	1/4	3,709.95	1/4	3,336.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,778.32	1/2	4,510.98	1/2	4,243.21	1/2	3,974.87	1/2	3,702.95	1/2	3,328.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,772.80	3/4	4,505.40	3/4	4,237.63	3/4	3,969.26	3/4	3,695.95	3/4	3,320.58		
1		1		1		1		1	4,767.28	1	4,499.82	1	4,232.06	1	3,963.65	1	3,688.94	1	3,312.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,761.76	1/4	4,494.24	1/4	4,226.48	1/4	3,958.05	1/4	3,681.11	1/4	3,304.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.23	1/2	4,488.66	1/2	4,220.90	1/2	3,952.44	1/2	3,673.27	1/2	3,297.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,750.71	3/4	4,483.08	3/4	4,215.32	3/4	3,946.83	3/4	3,665.43	3/4	3,289.24		
2		2		2		2		2	4,745.19	2	4,477.51	2	4,209.74	2	3,941.22	2	3,657.59	2	3,281.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,739.63	1/4	4,471.93	1/4	4,204.16	1/4	3,935.62	1/4	3,649.76	1/4	3,273.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,734.07	1/2	4,466.35	1/2	4,198.59	1/2	3,930.01	1/2	3,641.92	1/2	3,265.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,728.51	3/4	4,460.77	3/4	4,193.01	3/4	3,924.40	3/4	3,634.08	3/4	3,257.89		
3		3		3		3		3	4,722.96	3	4,455.19	3	4,187.43	3	3,918.80	3	3,626.24	3	3,250.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.38	1/4	4,449.61	1/4	4,181.85	1/4	3,913.19	1/4	3,618.41	1/4	3,242.21		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,711.80	1/2	4,444.04	1/2	4,176.27	1/2	3,907.58	1/2	3,610.57	1/2	3,234.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,706.22	3/4	4,438.46	3/4	4,170.69	3/4	3,901.98	3/4	3,602.73	3/4	3,226.54		
4		4		4		4		4	4,700.64	4	4,432.88	4	4,165.12	4	3,896.37	4	3,594.89	4	3,218.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,695.06	1/4	4,427.30	1/4	4,159.54	1/4	3,890.76	1/4	3,587.06	1/4	3,210.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,689.48	1/2	4,421.72	1/2	4,153.96	1/2	3,885.16	1/2	3,579.22	1/2	3,203.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,683.91	3/4	4,416.14	3/4	4,148.38	3/4	3,879.55	3/4	3,571.38	3/4	3,195.19		
5		5		5		5		5	4,678.33	5	4,410.56	5	4,142.80	5	3,873.94	5	3,563.54	5	3,187.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,672.75	1/4	4,404.99	1/4	4,137.22	1/4	3,868.34	1/4	3,555.71	1/4	3,179.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,667.17	1/2	4,399.41	1/2	4,131.64	1/2	3,862.73	1/2	3,547.87	1/2	3,171.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,661.59	3/4	4,393.83	3/4	4,126.07	3/4	3,857.12	3/4	3,540.03	3/4	3,163.84		
6		6		6		6		6	4,656.01	6	4,388.25	6	4,120.49	6	3,851.52	6	3,532.19	6	3,156.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,893.36	1/4	4,650.44	1/4	4,382.67	1/4	4,114.91	1/4	3,845.91	1/4	3,524.36	1/4	3,148.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,891.58	1/2	4,644.86	1/2	4,377.09	1/2	4,109.33	1/2	3,840.30	1/2	3,516.52	1/2	3,140.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,889.80	3/4	4,639.28	3/4	4,371.52	3/4	4,103.75	3/4	3,834.70	3/4	3,508.68	3/4	3,132.49
7		7		7		7		7	4,888.01	7	4,633.70	7	4,365.94	7	4,098.17	7	3,829.09	7	3,500.84	7	3,124.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,884.66	1/4	4,628.12	1/4	4,360.36	1/4	4,092.58	1/4	3,823.48	1/4	3,493.01	1/4	3,116.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,881.30	1/2	4,622.54	1/2	4,354.78	1/2	4,086.98	1/2	3,817.88	1/2	3,485.17	1/2	3,108.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,877.94	3/4	4,616.97	3/4	4,349.20	3/4	4,081.38	3/4	3,812.27	3/4	3,477.33	3/4	3,101.14
8		8		8		8		8	4,874.58	8	4,611.39	8	4,343.62	8	4,075.79	8	3,806.66	8	3,469.50	8	3,093.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,869.77	1/4	4,605.81	1/4	4,338.05	1/4	4,070.18	1/4	3,801.05	1/4	3,461.66	1/4	3,085.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,864.96	1/2	4,600.23	1/2	4,332.47	1/2	4,064.57	1/2	3,795.45	1/2	3,453.82	1/2	3,077.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,860.16	3/4	4,594.65	3/4	4,326.89	3/4	4,058.97	3/4	3,789.84	3/4	3,445.98	3/4	3,069.79
9		9		9		9		9	4,855.35	9	4,589.07	9	4,321.31	9	4,053.36	9	3,784.23	9	3,438.15	9	3,061.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,849.90	1/4	4,583.50	1/4	4,315.73	1/4	4,047.75	1/4	3,778.63	1/4	3,430.31	1/4	3,054.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,844.45	1/2	4,577.92	1/2	4,310.15	1/2	4,042.15	1/2	3,773.02	1/2	3,422.47	1/2	3,046.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,839.00	3/4	4,572.34	3/4	4,304.58	3/4	4,036.54	3/4	3,767.41	3/4	3,414.63	3/4	3,038.44
10		10		10		10		10	4,833.55	10	4,566.76	10	4,299.00	10	4,030.93	10	3,761.81	10	3,406.80	10	3,030.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,828.03	1/4	4,561.18	1/4	4,293.42	1/4	4,025.33	1/4	3,756.20	1/4	3,398.96	1/4	3,022.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,822.51	1/2	4,555.60	1/2	4,287.84	1/2	4,019.72	1/2	3,750.59	1/2	3,391.12	1/2	3,014.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,816.98	3/4	4,550.02	3/4	4,282.26	3/4	4,014.11	3/4	3,744.99	3/4	3,383.28	3/4	3,007.09
11		11		11		11		11	4,811.46	11	4,544.45	11	4,276.68	11	4,008.51	11	3,739.38	11	3,375.45	11	2,999.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.94	1/4	4,538.87	1/4	4,271.10	1/4	4,002.90	1/4	3,733.77	1/4	3,367.61	1/4	2,991.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,800.42	1/2	4,533.29	1/2	4,265.53	1/2	3,997.29	1/2	3,728.17	1/2	3,359.77	1/2	2,983.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,794.89	3/4	4,527.71	3/4	4,259.95	3/4	3,991.69	3/4	3,722.56	3/4	3,351.93	3/4	2,975.74

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 42'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29091"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11"

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	2,967.90	0	2,591.63	0	2,215.91	0	1,839.20	0	1,463.12	0	1,090.10	0	719.00	0	342.20	0		0	
1/4	2,960.06	1/4	2,583.79	1/4	2,208.07	1/4	1,831.35	1/4	1,455.26	1/4	1,082.44	1/4	711.15	1/4	334.36	1/4		1/4	
1/2	2,952.23	1/2	2,575.96	1/2	2,200.23	1/2	1,823.49	1/2	1,447.41	1/2	1,074.77	1/2	703.30	1/2	326.51	1/2		1/2	
3/4	2,944.39	3/4	2,568.12	3/4	2,192.40	3/4	1,815.64	3/4	1,439.56	3/4	1,067.11	3/4	695.45	3/4	318.66	3/4		3/4	
1	2,936.55	1	2,560.29	1	2,184.56	1	1,807.79	1	1,431.71	1	1,059.44	1	687.60	1	310.81	1		1	
1/4	2,928.71	1/4	2,552.46	1/4	2,176.72	1/4	1,799.96	1/4	1,423.85	1/4	1,051.79	1/4	679.75	1/4	302.94	1/4		1/4	
1/2	2,920.88	1/2	2,544.63	1/2	2,168.87	1/2	1,792.13	1/2	1,416.00	1/2	1,044.13	1/2	671.90	1/2	295.08	1/2		1/2	
3/4	2,913.04	3/4	2,536.81	3/4	2,161.03	3/4	1,784.30	3/4	1,408.15	3/4	1,036.47	3/4	664.05	3/4	287.22	3/4		3/4	
2	2,905.20	2	2,528.98	2	2,153.18	2	1,776.47	2	1,400.30	2	1,028.81	2	656.20	2	279.36	2		2	
1/4	2,897.37	1/4	2,521.15	1/4	2,145.34	1/4	1,768.65	1/4	1,392.44	1/4	1,021.15	1/4	648.35	1/4	271.49	1/4		1/4	
1/2	2,889.53	1/2	2,513.32	1/2	2,137.50	1/2	1,760.84	1/2	1,384.59	1/2	1,013.50	1/2	640.50	1/2	263.62	1/2		1/2	
3/4	2,881.69	3/4	2,505.50	3/4	2,129.65	3/4	1,753.02	3/4	1,376.74	3/4	1,005.84	3/4	632.65	3/4	255.76	3/4		3/4	
3	2,873.85	3	2,497.67	3	2,121.81	3	1,745.20	3	1,368.89	3	998.19	3	624.80	3	247.89	3		3	
1/4	2,866.02	1/4	2,489.84	1/4	2,113.96	1/4	1,737.38	1/4	1,361.03	1/4	990.53	1/4	616.95	1/4	240.02	1/4		1/4	
1/2	2,858.18	1/2	2,482.02	1/2	2,106.11	1/2	1,729.56	1/2	1,353.18	1/2	982.88	1/2	609.10	1/2	232.15	1/2		1/2	
3/4	2,850.34	3/4	2,474.19	3/4	2,098.26	3/4	1,721.75	3/4	1,345.33	3/4	975.22	3/4	601.25	3/4	224.28	3/4		3/4	
4	2,842.50	4	2,466.36	4	2,090.42	4	1,713.93	4	1,337.48	4	967.56	4	593.40	4	216.40	4		4	
1/4	2,834.67	1/4	2,458.53	1/4	2,082.56	1/4	1,706.11	1/4	1,329.62	1/4	959.91	1/4	585.55	1/4	208.53	1/4		1/4	
1/2	2,826.83	1/2	2,450.70	1/2	2,074.71	1/2	1,698.29	1/2	1,321.77	1/2	952.25	1/2	577.70	1/2	200.66	1/2		1/2	
3/4	2,818.99	3/4	2,442.87	3/4	2,066.86	3/4	1,690.47	3/4	1,313.92	3/4	944.60	3/4	569.85	3/4	192.79	3/4		3/4	
5	2,811.15	5	2,435.05	5	2,059.01	5	1,682.66	5	1,306.07	5	936.94	5	562.00	5	184.92	5		5	
1/4	2,803.32	1/4	2,427.22	1/4	2,051.16	1/4	1,674.84	1/4	1,298.28	1/4	929.29	1/4	554.15	1/4	177.06	1/4		1/4	
1/2	2,795.48	1/2	2,419.39	1/2	2,043.31	1/2	1,667.02	1/2	1,290.50	1/2	921.63	1/2	546.30	1/2	169.20	1/2		1/2	
3/4	2,787.64	3/4	2,411.56	3/4	2,035.46	3/4	1,659.20	3/4	1,282.72	3/4	913.97	3/4	538.45	3/4	161.34	3/4		3/4	
6	2,779.80	6	2,403.73	6	2,027.61	6	1,651.38	6	1,274.93	6	906.32	6	530.60	6	153.47	6		6	
1/4	2,771.97	1/4	2,395.90	1/4	2,019.76	1/4	1,643.57	1/4	1,267.19	1/4	898.66	1/4	522.75	1/4	145.62	1/4		1/4	
1/2	2,764.13	1/2	2,388.07	1/2	2,011.91	1/2	1,635.75	1/2	1,259.45	1/2	891.01	1/2	514.90	1/2	137.77	1/2		1/2	
3/4	2,756.29	3/4	2,380.24	3/4	2,004.06	3/4	1,627.93	3/4	1,251.71	3/4	883.35	3/4	507.05	3/4	129.93	3/4		3/4	
7	2,748.45	7	2,372.41	7	1,996.21	7	1,620.11	7	1,243.97	7	875.70	7	499.20	7	122.08	7		7	
1/4	2,740.62	1/4	2,364.58	1/4	1,988.36	1/4	1,612.27	1/4	1,236.24	1/4	867.92	1/4	491.35	1/4	114.25	1/4		1/4	
1/2	2,732.78	1/2	2,356.75	1/2	1,980.51	1/2	1,604.43	1/2	1,228.51	1/2	860.14	1/2	483.50	1/2	106.42	1/2		1/2	
3/4	2,724.94	3/4	2,348.93	3/4	1,972.66	3/4	1,596.59	3/4	1,220.78	3/4	852.37	3/4	475.65	3/4	98.59	3/4		3/4	
8	2,717.10	8	2,341.10	8	1,964.81	8	1,588.75	8	1,213.05	8	844.59	8	467.80	8	90.77	8		8	
1/4	2,709.27	1/4	2,333.28	1/4	1,956.96	1/4	1,580.90	1/4	1,205.33	1/4	836.74	1/4	459.95	1/4	82.98	1/4		1/4	
1/2	2,701.43	1/2	2,325.45	1/2	1,949.10	1/2	1,573.05	1/2	1,197.60	1/2	828.89	1/2	452.10	1/2	75.19	1/2		1/2	
3/4	2,693.59	3/4	2,317.63	3/4	1,941.25	3/4	1,565.20	3/4	1,189.88	3/4	821.04	3/4	444.25	3/4	67.40	3/4		3/4	
9	2,685.76	9	2,309.80	9	1,933.40	9	1,557.34	9	1,182.16	9	813.19	9	436.40	9	59.60	9		9	
1/4	2,677.92	1/4	2,301.98	1/4	1,925.55	1/4	1,549.49	1/4	1,174.47	1/4	805.34	1/4	428.55	1/4	52.59	1/4		1/4	
1/2	2,670.08	1/2	2,294.15	1/2	1,917.70	1/2	1,541.64	1/2	1,166.79	1/2	797.49	1/2	420.70	1/2	45.58	1/2		1/2	
3/4	2,662.24	3/4	2,286.33	3/4	1,909.85	3/4	1,533.79	3/4	1,159.10	3/4	789.64	3/4	412.85	3/4	38.56	3/4		3/4	
10	2,654.41	10	2,278.50	10	1,902.00	10	1,525.93	10	1,151.42	10	781.79	10	405.00	10	31.55	10		10	
1/4	2,646.56	1/4	2,270.68	1/4	1,894.15	1/4	1,518.08	1/4	1,143.75	1/4	773.94	1/4	397.15	1/4	26.63	1/4		1/4	
1/2	2,638.72	1/2	2,262.85	1/2	1,886.30	1/2	1,510.23	1/2	1,136.09	1/2	766.09	1/2	389.30	1/2	21.71	1/2		1/2	
3/4	2,630.87	3/4	2,255.03	3/4	1,878.45	3/4	1,502.38	3/4	1,128.42	3/4	758.24	3/4	381.45	3/4	16.79	3/4		3/4	
11	2,623.03	11	2,247.20	11	1,870.60	11	1,494.52	11	1,120.76	11	750.39	11	373.60	11	11.87	11		11	
1/4	2,615.18	1/4	2,239.38	1/4	1,862.75	1/4	1,486.67	1/4	1,113.09	1/4	742.54	1/4	365.75	1/4		1/4		1/4	
1/2	2,607.33	1/2	2,231.56	1/2	1,854.90	1/2	1,478.82	1/2	1,105.43	1/2	734.70	1/2	357.90	1/2		1/2		1/2	
3/4	2,599.48	3/4	2,223.73	3/4	1,847.05	3/4	1,470.97	3/4	1,097.77	3/4	726.85	3/4	350.05	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/04/2015 PMA  
RECALCULATED: 06/09/2020 PMA  
NAME CHANGE: 06/09/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "KIRBY 29091"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11 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		0	4,815.09	0	4,547.83	0	4,279.98	0	4,011.63	0	3,742.42	0	3,370.82
1/4		1/4		1/4		1/4		1/4	4,809.57	1/4	4,542.25	1/4	4,274.40	1/4	4,006.02	1/4	3,736.81	1/4	3,362.96
1/2		1/2		1/2		1/2		1/2	4,804.04	1/2	4,536.67	1/2	4,268.82	1/2	4,000.42	1/2	3,729.80	1/2	3,355.10
3/4		3/4		3/4		3/4		3/4	4,798.52	3/4	4,531.09	3/4	4,263.24	3/4	3,994.81	3/4	3,722.78	3/4	3,347.24
1		1		1		1		1	4,793.00	1	4,525.51	1	4,257.66	1	3,989.20	1	3,715.77	1	3,339.38
1/4		1/4		1/4		1/4		1/4	4,787.47	1/4	4,519.93	1/4	4,252.08	1/4	3,983.59	1/4	3,708.76	1/4	3,331.53
1/2		1/2		1/2		1/2		1/2	4,781.95	1/2	4,514.35	1/2	4,246.50	1/2	3,977.98	1/2	3,700.90	1/2	3,323.67
3/4		3/4		3/4		3/4		3/4	4,776.42	3/4	4,508.77	3/4	4,240.92	3/4	3,972.37	3/4	3,693.04	3/4	3,315.81
2		2		2		2		2	4,770.90	2	4,503.19	2	4,235.34	2	3,966.76	2	3,685.18	2	3,307.95
1/4		1/4		1/4		1/4		1/4	4,765.37	1/4	4,497.61	1/4	4,229.76	1/4	3,961.16	1/4	3,677.32	1/4	3,300.09
1/2		1/2		1/2		1/2		1/2	4,759.81	1/2	4,492.03	1/2	4,224.18	1/2	3,955.55	1/2	3,669.46	1/2	3,292.23
3/4		3/4		3/4		3/4		3/4	4,754.25	3/4	4,486.45	3/4	4,218.60	3/4	3,949.94	3/4	3,661.60	3/4	3,284.37
3		3		3		3		3	4,748.70	3	4,480.87	3	4,213.02	3	3,944.33	3	3,653.74	3	3,276.51
1/4		1/4		1/4		1/4		1/4	4,743.14	1/4	4,475.29	1/4	4,207.44	1/4	3,938.72	1/4	3,645.89	1/4	3,268.65
1/2		1/2		1/2		1/2		1/2	4,737.56	1/2	4,469.71	1/2	4,201.86	1/2	3,933.11	1/2	3,638.03	1/2	3,260.79
3/4		3/4		3/4		3/4		3/4	4,731.98	3/4	4,464.13	3/4	4,196.28	3/4	3,927.50	3/4	3,630.17	3/4	3,252.94
4		4		4		4		4	4,726.40	4	4,458.55	4	4,190.70	4	3,921.89	4	3,622.31	4	3,245.08
1/4		1/4		1/4		1/4		1/4	4,720.82	1/4	4,452.97	1/4	4,185.12	1/4	3,916.29	1/4	3,614.45	1/4	3,237.22
1/2		1/2		1/2		1/2		1/2	4,715.23	1/2	4,447.39	1/2	4,179.54	1/2	3,910.68	1/2	3,606.59	1/2	3,229.36
3/4		3/4		3/4		3/4		3/4	4,709.65	3/4	4,441.81	3/4	4,173.96	3/4	3,905.07	3/4	3,598.73	3/4	3,221.50
5		5		5		5		5	4,704.07	5	4,436.22	5	4,168.38	5	3,899.46	5	3,590.87	5	3,213.64
1/4		1/4		1/4		1/4		1/4	4,698.49	1/4	4,430.64	1/4	4,162.80	1/4	3,893.85	1/4	3,583.01	1/4	3,205.78
1/2		1/2		1/2		1/2		1/2	4,692.91	1/2	4,425.06	1/2	4,157.21	1/2	3,888.24	1/2	3,575.15	1/2	3,197.92
3/4		3/4		3/4		3/4		3/4	4,687.33	3/4	4,419.48	3/4	4,151.63	3/4	3,882.63	3/4	3,567.30	3/4	3,190.06
6		6		6		6		6	4,681.75	6	4,413.90	6	4,146.05	6	3,877.03	6	3,559.44	6	3,182.20
1/4		1/4		1/4		1/4		1/4	4,676.17	1/4	4,408.32	1/4	4,140.47	1/4	3,871.42	1/4	3,551.58	1/4	3,174.35
1/2		1/2		1/2		1/2	4,913.60	1/2	4,670.59	1/2	4,402.74	1/2	4,134.89	1/2	3,865.81	1/2	3,543.72	1/2	3,166.49
3/4		3/4		3/4		3/4	4,911.82	3/4	4,665.01	3/4	4,397.16	3/4	4,129.31	3/4	3,860.20	3/4	3,535.86	3/4	3,158.63
7		7		7		7	4,910.03	7	4,659.43	7	4,391.58	7	4,123.73	7	3,854.59	7	3,528.00	7	3,150.77
1/4		1/4		1/4		1/4	4,908.25	1/4	4,653.85	1/4	4,386.00	1/4	4,118.15	1/4	3,848.98	1/4	3,520.14	1/4	3,142.91
1/2		1/2		1/2		1/2	4,904.89	1/2	4,648.27	1/2	4,380.42	1/2	4,112.56	1/2	3,843.37	1/2	3,512.28	1/2	3,135.05
3/4		3/4		3/4		3/4	4,901.53	3/4	4,642.69	3/4	4,374.84	3/4	4,106.96	3/4	3,837.77	3/4	3,504.42	3/4	3,127.19
8		8		8		8	4,898.17	8	4,637.11	8	4,369.26	8	4,101.36	8	3,832.16	8	3,496.56	8	3,119.33
1/4		1/4		1/4		1/4	4,894.81	1/4	4,631.53	1/4	4,363.68	1/4	4,095.76	1/4	3,826.55	1/4	3,488.71	1/4	3,111.47
1/2		1/2		1/2		1/2	4,890.00	1/2	4,625.95	1/2	4,358.10	1/2	4,090.15	1/2	3,820.94	1/2	3,480.85	1/2	3,103.61
3/4		3/4		3/4		3/4	4,885.19	3/4	4,620.37	3/4	4,352.52	3/4	4,084.54	3/4	3,815.33	3/4	3,472.99	3/4	3,095.76
9		9		9		9	4,880.38	9	4,614.79	9	4,346.94	9	4,078.94	9	3,809.72	9	3,465.13	9	3,087.90
1/4		1/4		1/4		1/4	4,875.57	1/4	4,609.21	1/4	4,341.36	1/4	4,073.33	1/4	3,804.11	1/4	3,457.27	1/4	3,080.04
1/2		1/2		1/2		1/2	4,870.12	1/2	4,603.63	1/2	4,335.78	1/2	4,067.72	1/2	3,798.51	1/2	3,449.41	1/2	3,072.18
3/4		3/4		3/4		3/4	4,864.67	3/4	4,598.05	3/4	4,330.20	3/4	4,062.11	3/4	3,792.90	3/4	3,441.55	3/4	3,064.32
10		10		10		10	4,859.21	10	4,592.47	10	4,324.62	10	4,056.50	10	3,787.29	10	3,433.69	10	3,056.46
1/4		1/4		1/4		1/4	4,853.76	1/4	4,586.89	1/4	4,319.04	1/4	4,050.89	1/4	3,781.68	1/4	3,425.83	1/4	3,048.60
1/2		1/2		1/2		1/2	4,848.24	1/2	4,581.31	1/2	4,313.46	1/2	4,045.28	1/2	3,776.07	1/2	3,417.97	1/2	3,040.74
3/4		3/4		3/4		3/4	4,842.71	3/4	4,575.73	3/4	4,307.88	3/4	4,039.68	3/4	3,770.46	3/4	3,410.12	3/4	3,032.88
11		11		11		11	4,837.19	11	4,570.15	11	4,302.30	11	4,034.07	11	3,764.85	11	3,402.26	11	3,025.02
1/4		1/4		1/4		1/4	4,831.67	1/4	4,564.57	1/4	4,296.72	1/4	4,028.46	1/4	3,759.25	1/4	3,394.40	1/4	3,017.17
1/2		1/2		1/2		1/2	4,826.14	1/2	4,558.99	1/2	4,291.14	1/2	4,022.85	1/2	3,753.64	1/2	3,386.54	1/2	3,009.31
3/4		3/4		3/4		3/4	4,820.62	3/4	4,553.41	3/4	4,285.56	3/4	4,017.24	3/4	3,748.03	3/4	3,378.68	3/4	3,001.45

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC DEVICE".  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29091"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 319

GAUGE HEIGHT 17'-11 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	2,993.59	0	2,616.29	0	2,238.41	0	1,860.48	0	1,482.55	0	1,104.83	0	727.84	0	350.17	0		0	
1/4	2,985.73	1/4	2,608.42	1/4	2,230.54	1/4	1,852.61	1/4	1,474.68	1/4	1,096.97	1/4	719.97	1/4	342.30	1/4		1/4	
1/2	2,977.87	1/2	2,600.55	1/2	2,222.66	1/2	1,844.74	1/2	1,466.81	1/2	1,089.12	1/2	712.10	1/2	334.44	1/2		1/2	
3/4	2,970.01	3/4	2,592.68	3/4	2,214.79	3/4	1,836.86	3/4	1,458.93	3/4	1,081.27	3/4	704.23	3/4	326.57	3/4		3/4	
1	2,962.15	1	2,584.81	1	2,206.92	1	1,828.99	1	1,451.06	1	1,073.42	1	696.37	1	318.70	1		1	
1/4	2,954.29	1/4	2,576.94	1/4	2,199.04	1/4	1,821.12	1/4	1,443.19	1/4	1,065.56	1/4	688.50	1/4	310.83	1/4		1/4	
1/2	2,946.43	1/2	2,569.07	1/2	2,191.17	1/2	1,813.24	1/2	1,435.31	1/2	1,057.71	1/2	680.63	1/2	302.96	1/2		1/2	
3/4	2,938.58	3/4	2,561.20	3/4	2,183.30	3/4	1,805.37	3/4	1,427.44	3/4	1,049.87	3/4	672.76	3/4	295.09	3/4		3/4	
2	2,930.72	2	2,553.33	2	2,175.42	2	1,797.49	2	1,419.57	2	1,042.02	2	664.90	2	287.23	2		2	
1/4	2,922.86	1/4	2,545.46	1/4	2,167.55	1/4	1,789.62	1/4	1,411.69	1/4	1,034.17	1/4	657.03	1/4	279.36	1/4		1/4	
1/2	2,915.00	1/2	2,537.58	1/2	2,159.68	1/2	1,781.75	1/2	1,403.82	1/2	1,026.33	1/2	649.16	1/2	271.49	1/2		1/2	
3/4	2,907.14	3/4	2,529.71	3/4	2,151.80	3/4	1,773.87	3/4	1,395.95	3/4	1,018.48	3/4	641.29	3/4	263.62	3/4		3/4	
3	2,899.28	3	2,521.84	3	2,143.93	3	1,766.00	3	1,388.07	3	1,010.64	3	633.42	3	255.75	3		3	
1/4	2,891.42	1/4	2,513.97	1/4	2,136.06	1/4	1,758.13	1/4	1,380.20	1/4	1,002.80	1/4	625.56	1/4	247.89	1/4		1/4	
1/2	2,883.56	1/2	2,506.10	1/2	2,128.18	1/2	1,750.25	1/2	1,372.33	1/2	994.95	1/2	617.69	1/2	240.02	1/2		1/2	
3/4	2,875.70	3/4	2,498.23	3/4	2,120.31	3/4	1,742.38	3/4	1,364.45	3/4	987.11	3/4	609.82	3/4	232.14	3/4		3/4	
4	2,867.84	4	2,490.36	4	2,112.43	4	1,734.51	4	1,356.58	4	979.26	4	601.95	4	224.27	4		4	
1/4	2,859.99	1/4	2,482.49	1/4	2,104.56	1/4	1,726.63	1/4	1,348.71	1/4	971.42	1/4	594.08	1/4	216.40	1/4		1/4	
1/2	2,852.13	1/2	2,474.62	1/2	2,096.69	1/2	1,718.76	1/2	1,340.83	1/2	963.57	1/2	586.21	1/2	208.53	1/2		1/2	
3/4	2,844.27	3/4	2,466.74	3/4	2,088.81	3/4	1,710.89	3/4	1,332.96	3/4	955.73	3/4	578.35	3/4	200.66	3/4		3/4	
5	2,836.41	5	2,458.87	5	2,080.94	5	1,703.01	5	1,325.08	5	947.89	5	570.48	5	192.79	5		5	
1/4	2,828.55	1/4	2,451.00	1/4	2,073.07	1/4	1,695.14	1/4	1,317.21	1/4	940.04	1/4	562.61	1/4	184.92	1/4		1/4	
1/2	2,820.69	1/2	2,443.12	1/2	2,065.19	1/2	1,687.27	1/2	1,309.34	1/2	932.20	1/2	554.74	1/2	177.06	1/2		1/2	
3/4	2,812.83	3/4	2,435.25	3/4	2,057.32	3/4	1,679.39	3/4	1,301.46	3/4	924.35	3/4	546.87	3/4	169.20	3/4		3/4	
6	2,804.97	6	2,427.37	6	2,049.45	6	1,671.52	6	1,293.59	6	916.51	6	539.01	6	161.33	6		6	
1/4	2,797.11	1/4	2,419.50	1/4	2,041.57	1/4	1,663.65	1/4	1,285.72	1/4	908.67	1/4	531.14	1/4	153.47	1/4		1/4	
1/2	2,789.25	1/2	2,411.63	1/2	2,033.70	1/2	1,655.77	1/2	1,277.84	1/2	900.82	1/2	523.27	1/2	145.62	1/2		1/2	
3/4	2,781.40	3/4	2,403.75	3/4	2,025.83	3/4	1,647.90	3/4	1,269.97	3/4	892.98	3/4	515.40	3/4	137.77	3/4		3/4	
7	2,773.54	7	2,395.88	7	2,017.95	7	1,640.02	7	1,262.10	7	885.13	7	507.53	7	129.92	7		7	
1/4	2,765.68	1/4	2,388.01	1/4	2,010.08	1/4	1,632.15	1/4	1,254.22	1/4	877.29	1/4	499.67	1/4	122.07	1/4		1/4	
1/2	2,757.82	1/2	2,380.13	1/2	2,002.21	1/2	1,624.28	1/2	1,246.35	1/2	869.43	1/2	491.80	1/2	114.25	1/2		1/2	
3/4	2,749.96	3/4	2,372.26	3/4	1,994.33	3/4	1,616.40	3/4	1,238.48	3/4	861.57	3/4	483.93	3/4	106.42	3/4		3/4	
8	2,742.10	8	2,364.39	8	1,986.46	8	1,608.53	8	1,230.60	8	853.71	8	476.06	8	98.59	8		8	
1/4	2,734.24	1/4	2,356.51	1/4	1,978.59	1/4	1,600.66	1/4	1,222.73	1/4	845.85	1/4	468.19	1/4	90.76	1/4		1/4	
1/2	2,726.38	1/2	2,348.64	1/2	1,970.71	1/2	1,592.78	1/2	1,214.86	1/2	837.98	1/2	460.32	1/2	82.97	1/2		1/2	
3/4	2,718.52	3/4	2,340.77	3/4	1,962.84	3/4	1,584.91	3/4	1,206.98	3/4	830.12	3/4	452.46	3/4	75.18	3/4		3/4	
9	2,710.66	9	2,332.89	9	1,954.96	9	1,577.04	9	1,199.11	9	822.25	9	444.59	9	67.39	9		9	
1/4	2,702.81	1/4	2,325.02	1/4	1,947.09	1/4	1,569.16	1/4	1,191.24	1/4	814.38	1/4	436.72	1/4	59.60	1/4		1/4	
1/2	2,694.95	1/2	2,317.15	1/2	1,939.22	1/2	1,561.29	1/2	1,183.38	1/2	806.51	1/2	428.85	1/2	52.59	1/2		1/2	
3/4	2,687.09	3/4	2,309.27	3/4	1,931.34	3/4	1,553.42	3/4	1,175.52	3/4	798.65	3/4	420.98	3/4	45.58	3/4		3/4	
10	2,679.23	10	2,301.40	10	1,923.47	10	1,545.54	10	1,167.66	10	790.78	10	413.12	10	38.56	10		10	
1/4	2,671.37	1/4	2,293.53	1/4	1,915.60	1/4	1,537.67	1/4	1,159.80	1/4	782.91	1/4	405.25	1/4	31.55	1/4		1/4	
1/2	2,663.50	1/2	2,285.65	1/2	1,907.72	1/2	1,529.80	1/2	1,151.94	1/2	775.04	1/2	397.38	1/2	26.63	1/2		1/2	
3/4	2,655.64	3/4	2,277.78	3/4	1,899.85	3/4	1,521.92	3/4	1,144.09	3/4	767.18	3/4	389.51	3/4	21.71	3/4		3/4	
11	2,647.77	11	2,269.90	11	1,891.98	11	1,514.05	11	1,136.24	11	759.31	11	381.64	11	16.79	11		11	
1/4	2,639.91	1/4	2,262.03	1/4	1,884.10	1/4	1,506.18	1/4	1,128.38	1/4	751.44	1/4	373.78	1/4	11.87	1/4		1/4	
1/2	2,632.03	1/2	2,254.16	1/2	1,876.23	1/2	1,498.30	1/2	1,120.53	1/2	743.57	1/2	365.91	1/2		1/2		1/2	
3/4	2,624.16	3/4	2,246.28	3/4	1,868.36	3/4	1,490.43	3/4	1,112.68	3/4	735.70	3/4	358.04	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/04/2015 PMA  
RECALCULATED: 06/09/2020 PMA  
NAME CHANGE: 06/09/2020 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2020

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