



# BARGE "KIRBY 27734"

ULLAGE TRIM TABLE  
FORMERLY "CTCO 331"

	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
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	00-1/8	- 00-1/8	00-1/8	- 00-1/8
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	00-1/8	- 00-1/8	00-1/8	- 00-1/8

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

LENGTH BETWEEN DRAFT MARKS: 236'-09"

December 2, 2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 27734"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 16'-09 1/2"

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	4,925.44	0	4,597.66	0	4,248.68	0	3,883.88	0	3,518.15	0	3,151.88	0	2,785.51
1/4		1/4		1/4		1/4	4,918.59	1/4	4,590.61	1/4	4,241.18	1/4	3,876.26	1/4	3,510.52	1/4	3,144.25	1/4	2,777.88
1/2		1/2		1/2		1/2	4,911.75	1/2	4,583.55	1/2	4,233.69	1/2	3,868.64	1/2	3,502.89	1/2	3,136.62	1/2	2,770.24
3/4		3/4		3/4		3/4	4,905.12	3/4	4,576.46	3/4	4,226.15	3/4	3,861.02	3/4	3,495.26	3/4	3,128.99	3/4	2,762.61
1		1		1		1	4,898.48	1	4,569.38	1	4,218.62	1	3,853.40	1	3,487.63	1	3,121.36	1	2,754.97
1/4		1/4		1/4		1/4	4,891.85	1/4	4,562.29	1/4	4,211.09	1/4	3,845.78	1/4	3,480.00	1/4	3,113.73	1/4	2,747.34
1/2		1/2		1/2		1/2	4,885.22	1/2	4,555.20	1/2	4,203.56	1/2	3,838.16	1/2	3,472.37	1/2	3,106.10	1/2	2,739.71
3/4		3/4		3/4		3/4	4,878.56	3/4	4,548.08	3/4	4,196.00	3/4	3,830.54	3/4	3,464.74	3/4	3,098.47	3/4	2,732.07
2		2		2		2	4,871.90	2	4,540.96	2	4,188.43	2	3,822.93	2	3,457.11	2	3,090.84	2	2,724.44
1/4		1/4		1/4		1/4	4,865.24	1/4	4,533.84	1/4	4,180.87	1/4	3,815.31	1/4	3,449.48	1/4	3,083.21	1/4	2,716.80
1/2		1/2		1/2		1/2	4,858.57	1/2	4,526.71	1/2	4,173.30	1/2	3,807.69	1/2	3,441.85	1/2	3,075.58	1/2	2,709.17
3/4		3/4		3/4		3/4	4,851.87	3/4	4,519.56	3/4	4,165.71	3/4	3,800.07	3/4	3,434.21	3/4	3,067.95	3/4	2,701.53
3		3		3		3	4,845.17	3	4,512.40	3	4,158.11	3	3,792.45	3	3,426.58	3	3,060.32	3	2,693.90
1/4		1/4		1/4		1/4	4,838.47	1/4	4,505.25	1/4	4,150.51	1/4	3,784.83	1/4	3,418.95	1/4	3,052.68	1/4	2,686.26
1/2		1/2		1/2		1/2	4,831.77	1/2	4,498.09	1/2	4,142.91	1/2	3,777.21	1/2	3,411.32	1/2	3,045.05	1/2	2,678.63
3/4		3/4		3/4		3/4	4,825.03	3/4	4,490.90	3/4	4,135.30	3/4	3,769.59	3/4	3,403.69	3/4	3,037.42	3/4	2,670.99
4		4		4		4	4,818.30	4	4,483.72	4	4,127.68	4	3,761.97	4	3,396.06	4	3,029.79	4	2,663.36
1/4		1/4		1/4		1/4	4,811.56	1/4	4,476.53	1/4	4,120.06	1/4	3,754.35	1/4	3,388.43	1/4	3,022.16	1/4	2,655.72
1/2		1/2		1/2		1/2	4,804.82	1/2	4,469.34	1/2	4,112.45	1/2	3,746.74	1/2	3,380.80	1/2	3,014.53	1/2	2,648.09
3/4		3/4		3/4		3/4	4,798.05	3/4	4,462.12	3/4	4,104.83	3/4	3,739.12	3/4	3,373.17	3/4	3,006.90	3/4	2,640.45
5		5		5		5	4,791.28	5	4,454.89	5	4,097.21	5	3,731.50	5	3,365.54	5	2,999.27	5	2,632.82
1/4		1/4		1/4		1/4	4,784.51	1/4	4,447.67	1/4	4,089.59	1/4	3,723.88	1/4	3,357.91	1/4	2,991.64	1/4	2,625.19
1/2		1/2		1/2		1/2	4,777.74	1/2	4,440.45	1/2	4,081.97	1/2	3,716.26	1/2	3,350.28	1/2	2,984.01	1/2	2,617.55
3/4		3/4		3/4		3/4	4,770.94	3/4	4,433.18	3/4	4,074.35	3/4	3,708.64	3/4	3,342.65	3/4	2,976.38	3/4	2,609.92
6		6		6		6	4,764.13	6	4,425.92	6	4,066.73	6	3,701.02	6	3,335.02	6	2,968.74	6	2,602.28
1/4		1/4		1/4		1/4	4,757.33	1/4	4,418.66	1/4	4,059.12	1/4	3,693.40	1/4	3,327.39	1/4	2,961.11	1/4	2,594.65
1/2		1/2		1/2	5,085.04	1/2	4,750.53	1/2	4,411.39	1/2	4,051.50	1/2	3,685.78	1/2	3,319.76	1/2	2,953.48	1/2	2,587.01
3/4		3/4		3/4	5,078.62	3/4	4,743.69	3/4	4,404.08	3/4	4,043.88	3/4	3,678.16	3/4	3,312.12	3/4	2,945.84	3/4	2,579.38
7		7		7	5,072.20	7	4,736.85	7	4,396.76	7	4,036.26	7	3,670.55	7	3,304.49	7	2,938.21	7	2,571.74
1/4		1/4		1/4	5,065.78	1/4	4,730.01	1/4	4,389.45	1/4	4,028.64	1/4	3,662.93	1/4	3,296.86	1/4	2,930.57	1/4	2,564.11
1/2		1/2		1/2	5,059.36	1/2	4,723.18	1/2	4,382.14	1/2	4,021.02	1/2	3,655.31	1/2	3,289.23	1/2	2,922.94	1/2	2,556.47
3/4		3/4		3/4	5,051.98	3/4	4,716.27	3/4	4,374.78	3/4	4,013.40	3/4	3,647.69	3/4	3,281.60	3/4	2,915.30	3/4	2,548.84
8		8		8	5,044.61	8	4,709.37	8	4,367.43	8	4,005.78	8	3,640.07	8	3,273.97	8	2,907.67	8	2,541.20
1/4		1/4		1/4	5,037.24	1/4	4,702.47	1/4	4,360.07	1/4	3,998.16	1/4	3,632.45	1/4	3,266.34	1/4	2,900.03	1/4	2,533.57
1/2		1/2		1/2	5,029.87	1/2	4,695.57	1/2	4,352.72	1/2	3,990.54	1/2	3,624.83	1/2	3,258.71	1/2	2,892.40	1/2	2,525.93
3/4		3/4		3/4	5,022.30	3/4	4,688.63	3/4	4,345.33	3/4	3,982.92	3/4	3,617.21	3/4	3,251.08	3/4	2,884.76	3/4	2,518.30
9		9		9	5,014.74	9	4,681.68	9	4,337.94	9	3,975.31	9	3,609.59	9	3,243.45	9	2,877.13	9	2,510.66
1/4		1/4		1/4	5,007.18	1/4	4,674.74	1/4	4,330.56	1/4	3,967.69	1/4	3,601.97	1/4	3,235.82	1/4	2,869.50	1/4	2,503.03
1/2		1/2		1/2	4,999.62	1/2	4,667.79	1/2	4,323.17	1/2	3,960.07	1/2	3,594.36	1/2	3,228.19	1/2	2,861.86	1/2	2,495.40
3/4		3/4		3/4	4,992.06	3/4	4,660.81	3/4	4,315.75	3/4	3,952.45	3/4	3,586.74	3/4	3,220.56	3/4	2,854.23	3/4	2,487.76
10		10		10	4,984.50	10	4,653.82	10	4,308.33	10	3,944.83	10	3,579.12	10	3,212.93	10	2,846.59	10	2,480.13
1/4		1/4		1/4	4,976.93	1/4	4,646.84	1/4	4,300.91	1/4	3,937.21	1/4	3,571.50	1/4	3,205.30	1/4	2,838.96	1/4	2,472.49
1/2		1/2		1/2	4,969.37	1/2	4,639.85	1/2	4,293.48	1/2	3,929.59	1/2	3,563.88	1/2	3,197.67	1/2	2,831.32	1/2	2,464.86
3/4		3/4		3/4	4,961.81	3/4	4,632.83	3/4	4,286.03	3/4	3,921.97	3/4	3,556.26	3/4	3,190.04	3/4	2,823.69	3/4	2,457.22
11		11		11	4,954.25	11	4,625.81	11	4,278.57	11	3,914.35	11	3,548.64	11	3,182.40	11	2,816.05	11	2,449.59
1/4		1/4		1/4	4,946.69	1/4	4,618.79	1/4	4,271.12	1/4	3,906.73	1/4	3,541.02	1/4	3,174.77	1/4	2,808.42	1/4	2,441.95
1/2		1/2		1/2	4,939.13	1/2	4,611.77	1/2	4,263.67	1/2	3,899.12	1/2	3,533.40	1/2	3,167.14	1/2	2,800.78	1/2	2,434.32
3/4		3/4		3/4	4,932.28	3/4	4,604.72	3/4	4,256.17	3/4	3,891.50	3/4	3,525.78	3/4	3,159.51	3/4	2,793.15	3/4	2,426.68

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'-03" FORWARD OF AFT BULKHEAD.

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 27734"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 16'-09 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,419.05	0	2,052.58	0	1,692.26	0	1,325.73	0	960.24	0	594.88	0	247.58	0		0		0	
1/4	2,411.41	1/4	2,044.95	1/4	1,684.62	1/4	1,318.09	1/4	952.65	1/4	587.24	1/4	240.85	1/4	1/4		1/4		1/4
1/2	2,403.78	1/2	2,037.31	1/2	1,676.99	1/2	1,310.45	1/2	945.07	1/2	579.61	1/2	234.13	1/2	1/2		1/2		1/2
3/4	2,396.14	3/4	2,030.22	3/4	1,669.35	3/4	1,302.82	3/4	937.48	3/4	571.98	3/4	227.49	3/4	3/4		3/4		3/4
1	2,388.51	1	2,023.13	1	1,661.71	1	1,295.18	1	929.90	1	564.35	1	220.85	1	1		1		1
1/4	2,380.87	1/4	2,016.03	1/4	1,654.08	1/4	1,287.55	1/4	922.31	1/4	556.73	1/4	214.21	1/4	1/4		1/4		1/4
1/2	2,373.24	1/2	2,008.94	1/2	1,646.44	1/2	1,279.91	1/2	914.73	1/2	549.10	1/2	207.57	1/2	1/2		1/2		1/2
3/4	2,365.61	3/4	2,002.02	3/4	1,638.81	3/4	1,272.27	3/4	907.14	3/4	541.51	3/4	201.02	3/4	3/4		3/4		3/4
2	2,357.97	2	1,995.11	2	1,631.17	2	1,264.64	2	899.56	2	533.93	2	194.47	2	2		2		2
1/4	2,350.34	1/4	1,988.20	1/4	1,623.53	1/4	1,257.00	1/4	891.97	1/4	526.34	1/4	187.91	1/4	1/4		1/4		1/4
1/2	2,342.70	1/2	1,981.28	1/2	1,615.90	1/2	1,249.37	1/2	884.39	1/2	518.76	1/2	181.36	1/2	1/2		1/2		1/2
3/4	2,335.07	3/4	1,973.86	3/4	1,608.26	3/4	1,241.73	3/4	876.80	3/4	511.25	3/4	174.90	3/4	3/4		3/4		3/4
3	2,327.43	3	1,966.43	3	1,600.63	3	1,234.09	3	869.22	3	503.75	3	168.43	3	3		3		3
1/4	2,319.80	1/4	1,959.00	1/4	1,592.99	1/4	1,226.46	1/4	861.63	1/4	496.24	1/4	161.96	1/4	1/4		1/4		1/4
1/2	2,312.16	1/2	1,951.57	1/2	1,585.35	1/2	1,218.82	1/2	854.04	1/2	488.74	1/2	155.50	1/2	1/2		1/2		1/2
3/4	2,304.53	3/4	1,943.97	3/4	1,577.72	3/4	1,211.18	3/4	846.46	3/4	481.32	3/4	149.12	3/4	3/4		3/4		3/4
4	2,296.89	4	1,936.37	4	1,570.08	4	1,203.55	4	838.87	4	473.90	4	142.75	4	4		4		4
1/4	2,289.26	1/4	1,928.77	1/4	1,562.45	1/4	1,195.91	1/4	831.29	1/4	466.48	1/4	136.37	1/4	1/4		1/4		1/4
1/2	2,281.62	1/2	1,921.17	1/2	1,554.81	1/2	1,188.28	1/2	823.70	1/2	459.06	1/2	130.00	1/2	1/2		1/2		1/2
3/4	2,273.99	3/4	1,913.57	3/4	1,547.17	3/4	1,180.64	3/4	816.12	3/4	451.73	3/4	123.72	3/4	3/4		3/4		3/4
5	2,266.35	5	1,905.97	5	1,539.54	5	1,173.00	5	808.53	5	444.39	5	117.44	5	5		5		5
1/4	2,258.72	1/4	1,898.36	1/4	1,531.90	1/4	1,165.37	1/4	800.95	1/4	437.06	1/4	111.16	1/4	1/4		1/4		1/4
1/2	2,251.08	1/2	1,890.76	1/2	1,524.26	1/2	1,157.73	1/2	793.36	1/2	429.73	1/2	104.88	1/2	1/2		1/2		1/2
3/4	2,243.45	3/4	1,883.14	3/4	1,516.63	3/4	1,150.12	3/4	785.74	3/4	422.48	3/4	98.69	3/4	3/4		3/4		3/4
6	2,235.82	6	1,875.51	6	1,508.99	6	1,142.50	6	778.12	6	415.24	6	92.50	6	6		6		6
1/4	2,228.18	1/4	1,867.88	1/4	1,501.36	1/4	1,134.89	1/4	770.49	1/4	407.99	1/4	86.32	1/4	1/4		1/4		1/4
1/2	2,220.55	1/2	1,860.25	1/2	1,493.72	1/2	1,127.28	1/2	762.87	1/2	400.75	1/2	80.13	1/2	1/2		1/2		1/2
3/4	2,212.91	3/4	1,852.62	3/4	1,486.08	3/4	1,119.67	3/4	755.23	3/4	393.59	3/4	74.06	3/4	3/4		3/4		3/4
7	2,205.28	7	1,844.98	7	1,478.45	7	1,112.06	7	747.60	7	386.43	7	67.98	7	7		7		7
1/4	2,197.64	1/4	1,837.34	1/4	1,470.81	1/4	1,104.46	1/4	739.96	1/4	379.27	1/4	61.90	1/4	1/4		1/4		1/4
1/2	2,190.01	1/2	1,829.71	1/2	1,463.18	1/2	1,096.85	1/2	732.33	1/2	372.11	1/2	55.83	1/2	1/2		1/2		1/2
3/4	2,182.37	3/4	1,822.07	3/4	1,455.54	3/4	1,089.25	3/4	724.69	3/4	365.04	3/4	50.53	3/4	3/4		3/4		3/4
8	2,174.74	8	1,814.44	8	1,447.90	8	1,081.66	8	717.05	8	357.96	8	45.23	8	8		8		8
1/4	2,167.10	1/4	1,806.80	1/4	1,440.27	1/4	1,074.06	1/4	709.42	1/4	350.89	1/4	39.94	1/4	1/4		1/4		1/4
1/2	2,159.47	1/2	1,799.16	1/2	1,432.63	1/2	1,066.47	1/2	701.78	1/2	343.82	1/2	34.64	1/2	1/2		1/2		1/2
3/4	2,151.83	3/4	1,791.53	3/4	1,425.00	3/4	1,058.87	3/4	694.15	3/4	336.83	3/4	30.76	3/4	3/4		3/4		3/4
9	2,144.20	9	1,783.89	9	1,417.36	9	1,051.28	9	686.51	9	329.85	9	26.88	9	9		9		9
1/4	2,136.56	1/4	1,776.26	1/4	1,409.72	1/4	1,043.69	1/4	678.88	1/4	322.86	1/4	22.99	1/4	1/4		1/4		1/4
1/2	2,128.93	1/2	1,768.62	1/2	1,402.09	1/2	1,036.10	1/2	671.24	1/2	315.88	1/2	19.11	1/2	1/2		1/2		1/2
3/4	2,121.29	3/4	1,760.98	3/4	1,394.45	3/4	1,028.51	3/4	663.60	3/4	308.98	3/4		3/4	3/4		3/4		3/4
10	2,113.66	10	1,753.35	10	1,386.81	10	1,020.92	10	655.97	10	302.08	10		10	10		10		10
1/4	2,106.03	1/4	1,745.71	1/4	1,379.18	1/4	1,013.34	1/4	648.33	1/4	295.18	1/4		1/4	1/4		1/4		1/4
1/2	2,098.39	1/2	1,738.08	1/2	1,371.54	1/2	1,005.75	1/2	640.70	1/2	288.28	1/2		1/2	1/2		1/2		1/2
3/4	2,090.76	3/4	1,730.44	3/4	1,363.91	3/4	998.16	3/4	633.06	3/4	281.47	3/4		3/4	3/4		3/4		3/4
11	2,083.12	11	1,722.80	11	1,356.27	11	990.58	11	625.42	11	274.66	11		11	11		11		11
1/4	2,075.49	1/4	1,715.17	1/4	1,348.63	1/4	982.99	1/4	617.79	1/4	267.84	1/4		1/4	1/4		1/4		1/4
1/2	2,067.85	1/2	1,707.53	1/2	1,341.00	1/2	975.41	1/2	610.15	1/2	261.03	1/2		1/2	1/2		1/2		1/2
3/4	2,060.22	3/4	1,699.90	3/4	1,333.36	3/4	967.82	3/4	602.52	3/4	254.30	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 PMA  
RECALCULATED: 12/03/2019 PMA  
NAME CHANGE: 12/03/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2019

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



# BARGE "KIRBY 27734"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,930.98	0	4,603.26	0	4,254.56	0	3,889.72	0	3,523.84	0	3,157.96	0	2,791.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,924.14	1/4	4,596.21	1/4	4,247.06	1/4	3,882.09	1/4	3,516.21	1/4	3,150.33	1/4	2,784.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,917.29	1/2	4,589.15	1/2	4,239.56	1/2	3,874.47	1/2	3,508.59	1/2	3,142.71	1/2	2,776.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,910.44	3/4	4,582.09	3/4	4,232.06	3/4	3,866.85	3/4	3,500.97	3/4	3,135.09	3/4	2,769.10		
1	1	1	1	1	1	1	4,903.81	1	4,575.00	1	4,224.53	1	3,859.23	1	3,493.35	1	3,127.47	1	2,761.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,897.17	1/4	4,567.91	1/4	4,216.99	1/4	3,851.60	1/4	3,485.72	1/4	3,119.84	1/4	2,753.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,890.54	1/2	4,560.82	1/2	4,209.46	1/2	3,843.98	1/2	3,478.10	1/2	3,112.22	1/2	2,746.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,883.90	3/4	4,553.73	3/4	4,201.92	3/4	3,836.36	3/4	3,470.48	3/4	3,104.60	3/4	2,738.59		
2	2	2	2	2	2	2	4,877.24	2	4,546.60	2	4,194.36	2	3,828.74	2	3,462.86	2	3,096.98	2	2,730.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,870.57	1/4	4,539.48	1/4	4,186.79	1/4	3,821.11	1/4	3,455.23	1/4	3,089.35	1/4	2,723.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,863.91	1/2	4,532.35	1/2	4,179.22	1/2	3,813.49	1/2	3,447.61	1/2	3,081.73	1/2	2,715.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,857.24	3/4	4,525.23	3/4	4,171.65	3/4	3,805.87	3/4	3,439.99	3/4	3,074.11	3/4	2,708.09		
3	3	3	3	3	3	3	4,850.54	3	4,518.07	3	4,164.05	3	3,798.25	3	3,432.37	3	3,066.49	3	2,700.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,843.83	1/4	4,510.91	1/4	4,156.45	1/4	3,790.62	1/4	3,424.74	1/4	3,058.86	1/4	2,692.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,837.13	1/2	4,503.75	1/2	4,148.85	1/2	3,783.00	1/2	3,417.12	1/2	3,051.24	1/2	2,685.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,830.43	3/4	4,496.59	3/4	4,141.25	3/4	3,775.38	3/4	3,409.50	3/4	3,043.62	3/4	2,677.58		
4	4	4	4	4	4	4	4,823.69	4	4,489.40	4	4,133.63	4	3,767.76	4	3,401.88	4	3,036.00	4	2,669.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,816.95	1/4	4,482.21	1/4	4,126.01	1/4	3,760.13	1/4	3,394.25	1/4	3,028.37	1/4	2,662.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,810.21	1/2	4,475.02	1/2	4,118.39	1/2	3,752.51	1/2	3,386.63	1/2	3,020.75	1/2	2,654.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,803.47	3/4	4,467.82	3/4	4,110.77	3/4	3,744.89	3/4	3,379.01	3/4	3,013.13	3/4	2,647.07		
5	5	5	5	5	5	5	4,796.69	5	4,460.60	5	4,103.15	5	3,737.27	5	3,371.39	5	3,005.51	5	2,639.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,789.92	1/4	4,453.37	1/4	4,095.52	1/4	3,729.64	1/4	3,363.76	1/4	2,997.88	1/4	2,631.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,783.15	1/2	4,446.14	1/2	4,087.90	1/2	3,722.02	1/2	3,356.14	1/2	2,990.26	1/2	2,624.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,776.37	3/4	4,438.92	3/4	4,080.28	3/4	3,714.40	3/4	3,348.52	3/4	2,982.64	3/4	2,616.57		
6	6	6	6	6	6	6	4,769.57	6	4,431.65	6	4,072.66	6	3,706.78	6	3,340.90	6	2,975.01	6	2,608.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,762.76	1/4	4,424.39	1/4	4,065.03	1/4	3,699.15	1/4	3,333.27	1/4	2,967.39	1/4	2,601.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,755.95	1/2	4,417.12	1/2	4,057.41	1/2	3,691.53	1/2	3,325.65	1/2	2,959.76	1/2	2,593.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,083.80	3/4	4,749.14	3/4	4,409.85	3/4	4,049.79	3/4	3,683.91	3/4	3,318.03	3/4	2,952.13	3/4	2,586.06
7	7	7	7	7	7	7	5,077.38	7	4,742.30	7	4,402.53	7	4,042.17	7	3,676.29	7	3,310.41	7	2,944.51	7	2,578.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,070.96	1/4	4,735.46	1/4	4,395.22	1/4	4,034.54	1/4	3,668.66	1/4	3,302.78	1/4	2,936.88	1/4	2,570.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,064.54	1/2	4,728.62	1/2	4,387.90	1/2	4,026.92	1/2	3,661.04	1/2	3,295.16	1/2	2,929.25	1/2	2,563.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,058.12	3/4	4,721.78	3/4	4,380.58	3/4	4,019.30	3/4	3,653.42	3/4	3,287.54	3/4	2,921.63	3/4	2,555.56
8	8	8	8	8	8	8	5,050.74	8	4,714.88	8	4,373.22	8	4,011.68	8	3,645.80	8	3,279.92	8	2,914.00	8	2,547.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,043.36	1/4	4,707.97	1/4	4,365.87	1/4	4,004.05	1/4	3,638.17	1/4	3,272.29	1/4	2,906.38	1/4	2,540.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,035.99	1/2	4,701.07	1/2	4,358.51	1/2	3,996.43	1/2	3,630.55	1/2	3,264.67	1/2	2,898.75	1/2	2,532.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,028.61	3/4	4,694.16	3/4	4,351.15	3/4	3,988.81	3/4	3,622.93	3/4	3,257.05	3/4	2,891.12	3/4	2,525.05
9	9	9	9	9	9	9	5,021.05	9	4,687.21	9	4,343.76	9	3,981.19	9	3,615.31	9	3,249.43	9	2,883.50	9	2,517.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,013.48	1/4	4,680.27	1/4	4,336.37	1/4	3,973.56	1/4	3,607.68	1/4	3,241.80	1/4	2,875.87	1/4	2,509.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,005.92	1/2	4,673.32	1/2	4,328.98	1/2	3,965.94	1/2	3,600.06	1/2	3,234.18	1/2	2,868.24	1/2	2,502.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,998.35	3/4	4,666.37	3/4	4,321.59	3/4	3,958.32	3/4	3,592.44	3/4	3,226.56	3/4	2,860.62	3/4	2,494.54
10	10	10	10	10	10	10	4,990.79	10	4,659.38	10	4,314.16	10	3,950.70	10	3,584.82	10	3,218.94	10	2,852.99	10	2,486.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,983.22	1/4	4,652.39	1/4	4,306.74	1/4	3,943.07	1/4	3,577.19	1/4	3,211.31	1/4	2,845.36	1/4	2,479.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,975.66	1/2	4,645.41	1/2	4,299.31	1/2	3,935.45	1/2	3,569.57	1/2	3,203.69	1/2	2,837.74	1/2	2,471.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,968.09	3/4	4,638.42	3/4	4,291.89	3/4	3,927.83	3/4	3,561.95	3/4	3,196.07	3/4	2,830.11	3/4	2,464.04
11	11	11	11	11	11	11	4,960.53	11	4,631.39	11	4,284.43	11	3,920.21	11	3,554.33	11	3,188.45	11	2,822.48	11	2,456.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,952.96	1/4	4,624.37	1/4	4,276.97	1/4	3,912.58	1/4	3,546.70	1/4	3,180.82	1/4	2,814.86	1/4	2,448.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,945.40	1/2	4,617.35	1/2	4,269.51	1/2	3,904.96	1/2	3,539.08	1/2	3,173.20	1/2	2,807.23	1/2	2,441.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,937.83	3/4	4,610.32	3/4	4,262.06	3/4	3,897.34	3/4	3,531.46	3/4	3,165.58	3/4	2,799.60	3/4	2,433.53

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'-03" 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 27734"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

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	2,425.91	0	2,059.83	0	1,699.91	0	1,333.76	0	967.78	0	601.98	0	254.22	0		0			
1/4	2,418.28	1/4	2,052.21	1/4	1,692.28	1/4	1,326.14	1/4	960.17	1/4	594.35	1/4	247.50	1/4	1/4				1/4
1/2	2,410.65	1/2	2,044.58	1/2	1,684.65	1/2	1,318.51	1/2	952.56	1/2	586.72	1/2	240.79	1/2	1/2				1/2
3/4	2,403.03	3/4	2,036.95	3/4	1,677.02	3/4	1,310.88	3/4	944.94	3/4	579.10	3/4	234.07	3/4	3/4				3/4
1	2,395.40	1	2,029.87	1	1,669.40	1	1,303.25	1	937.33	1	571.48	1	227.44	1	1				1
1/4	2,387.77	1/4	2,022.78	1/4	1,661.77	1/4	1,295.62	1/4	929.71	1/4	563.87	1/4	220.81	1/4	1/4				1/4
1/2	2,380.15	1/2	2,015.70	1/2	1,654.14	1/2	1,288.00	1/2	922.10	1/2	556.25	1/2	214.18	1/2	1/2				1/2
3/4	2,372.52	3/4	2,008.61	3/4	1,646.51	3/4	1,280.37	3/4	914.49	3/4	548.64	3/4	207.55	3/4	3/4				3/4
2	2,364.89	2	2,001.71	2	1,638.88	2	1,272.74	2	906.87	2	541.07	2	201.00	2	2				2
1/4	2,357.27	1/4	1,994.80	1/4	1,631.26	1/4	1,265.11	1/4	899.26	1/4	533.50	1/4	194.46	1/4	1/4				1/4
1/2	2,349.64	1/2	1,987.90	1/2	1,623.63	1/2	1,257.48	1/2	891.64	1/2	525.93	1/2	187.91	1/2	1/2				1/2
3/4	2,342.01	3/4	1,980.99	3/4	1,616.00	3/4	1,249.86	3/4	884.03	3/4	518.37	3/4	181.37	3/4	3/4				3/4
3	2,334.39	3	1,973.57	3	1,608.37	3	1,242.23	3	876.42	3	510.87	3	174.91	3	3				3
1/4	2,326.76	1/4	1,966.15	1/4	1,600.74	1/4	1,234.60	1/4	868.80	1/4	503.37	1/4	168.46	1/4	1/4				1/4
1/2	2,319.13	1/2	1,958.73	1/2	1,593.12	1/2	1,226.97	1/2	861.19	1/2	495.88	1/2	162.00	1/2	1/2				1/2
3/4	2,311.51	3/4	1,951.31	3/4	1,585.49	3/4	1,219.34	3/4	853.57	3/4	488.38	3/4	155.54	3/4	3/4				3/4
4	2,303.88	4	1,943.72	4	1,577.86	4	1,211.72	4	845.96	4	480.97	4	149.17	4	4				4
1/4	2,296.26	1/4	1,936.12	1/4	1,570.23	1/4	1,204.09	1/4	838.34	1/4	473.56	1/4	142.80	1/4	1/4				1/4
1/2	2,288.63	1/2	1,928.53	1/2	1,562.60	1/2	1,196.46	1/2	830.73	1/2	466.15	1/2	136.43	1/2	1/2				1/2
3/4	2,281.00	3/4	1,920.94	3/4	1,554.98	3/4	1,188.83	3/4	823.12	3/4	458.74	3/4	130.06	3/4	3/4				3/4
5	2,273.38	5	1,913.35	5	1,547.35	5	1,181.20	5	815.50	5	451.41	5	123.78	5	5				5
1/4	2,265.75	1/4	1,905.75	1/4	1,539.72	1/4	1,173.58	1/4	807.89	1/4	444.09	1/4	117.49	1/4	1/4				1/4
1/2	2,258.12	1/2	1,898.16	1/2	1,532.09	1/2	1,165.95	1/2	800.27	1/2	436.76	1/2	111.21	1/2	1/2				1/2
3/4	2,250.50	3/4	1,890.57	3/4	1,524.46	3/4	1,158.32	3/4	792.66	3/4	429.44	3/4	104.93	3/4	3/4				3/4
6	2,242.87	6	1,882.95	6	1,516.84	6	1,150.69	6	785.04	6	422.20	6	98.74	6	6				6
1/4	2,235.24	1/4	1,875.33	1/4	1,509.21	1/4	1,143.06	1/4	777.41	1/4	414.96	1/4	92.55	1/4	1/4				1/4
1/2	2,227.62	1/2	1,867.71	1/2	1,501.58	1/2	1,135.44	1/2	769.79	1/2	407.73	1/2	86.36	1/2	1/2				1/2
3/4	2,219.99	3/4	1,860.10	3/4	1,493.95	3/4	1,127.81	3/4	762.16	3/4	400.49	3/4	80.17	3/4	3/4				3/4
7	2,212.36	7	1,852.47	7	1,486.32	7	1,120.18	7	754.53	7	393.34	7	74.09	7	7				7
1/4	2,204.74	1/4	1,844.84	1/4	1,478.70	1/4	1,112.55	1/4	746.91	1/4	386.19	1/4	68.01	1/4	1/4				1/4
1/2	2,197.11	1/2	1,837.21	1/2	1,471.07	1/2	1,104.92	1/2	739.28	1/2	379.04	1/2	61.93	1/2	1/2				1/2
3/4	2,189.48	3/4	1,829.58	3/4	1,463.44	3/4	1,097.30	3/4	731.65	3/4	371.89	3/4	55.85	3/4	3/4				3/4
8	2,181.86	8	1,821.96	8	1,455.81	8	1,089.67	8	724.02	8	364.82	8	50.56	8	8				8
1/4	2,174.23	1/4	1,814.33	1/4	1,448.18	1/4	1,082.05	1/4	716.40	1/4	357.76	1/4	45.26	1/4	1/4				1/4
1/2	2,166.60	1/2	1,806.70	1/2	1,440.56	1/2	1,074.43	1/2	708.77	1/2	350.69	1/2	39.96	1/2	1/2				1/2
3/4	2,158.98	3/4	1,799.07	3/4	1,432.93	3/4	1,066.80	3/4	701.14	3/4	343.63	3/4	34.66	3/4	3/4				3/4
9	2,151.35	9	1,791.44	9	1,425.30	9	1,059.18	9	693.51	9	336.65	9	30.78	9	9				9
1/4	2,143.73	1/4	1,783.82	1/4	1,417.67	1/4	1,051.56	1/4	685.88	1/4	329.67	1/4	26.89	1/4	1/4				1/4
1/2	2,136.10	1/2	1,776.19	1/2	1,410.04	1/2	1,043.94	1/2	678.26	1/2	322.70	1/2	23.00	1/2	1/2				1/2
3/4	2,128.47	3/4	1,768.56	3/4	1,402.42	3/4	1,036.32	3/4	670.63	3/4	315.72	3/4	19.12	3/4	3/4				3/4
10	2,120.85	10	1,760.93	10	1,394.79	10	1,028.70	10	663.00	10	308.83	10		10	10				10
1/4	2,113.22	1/4	1,753.30	1/4	1,387.16	1/4	1,021.09	1/4	655.37	1/4	301.94	1/4		1/4	1/4				1/4
1/2	2,105.59	1/2	1,745.68	1/2	1,379.53	1/2	1,013.47	1/2	647.75	1/2	295.05	1/2		1/2	1/2				1/2
3/4	2,097.97	3/4	1,738.05	3/4	1,371.90	3/4	1,005.85	3/4	640.12	3/4	288.16	3/4		3/4	3/4				3/4
11	2,090.34	11	1,730.42	11	1,364.28	11	998.24	11	632.49	11	281.35	11		11	11				11
1/4	2,082.71	1/4	1,722.79	1/4	1,356.65	1/4	990.63	1/4	624.86	1/4	274.55	1/4		1/4	1/4				1/4
1/2	2,075.09	1/2	1,715.16	1/2	1,349.02	1/2	983.01	1/2	617.24	1/2	267.74	1/2		1/2	1/2				1/2
3/4	2,067.46	3/4	1,707.54	3/4	1,341.39	3/4	975.40	3/4	609.61	3/4	260.94	3/4		3/4	3/4				3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 PMA  
RECALCULATED: 12/03/2019 PMA  
NAME CHANGE: 12/03/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2019

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



# BARGE "KIRBY 27734"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,688.93	0	4,381.48	0	4,054.42	0	3,711.87	0	3,368.23	0	3,024.59	0	2,680.86
1/4		1/4		1/4		1/4	4,682.50	1/4	4,374.85	1/4	4,047.38	1/4	3,704.71	1/4	3,361.07	1/4	3,017.43	1/4	2,673.70
1/2		1/2		1/2		1/2	4,676.07	1/2	4,368.22	1/2	4,040.34	1/2	3,697.55	1/2	3,353.91	1/2	3,010.27	1/2	2,666.53
3/4		3/4		3/4		3/4	4,669.64	3/4	4,361.60	3/4	4,033.30	3/4	3,690.39	3/4	3,346.75	3/4	3,003.11	3/4	2,659.37
1		1		1		1	4,663.21	1	4,354.97	1	4,026.25	1	3,683.24	1	3,339.59	1	2,995.95	1	2,652.21
1/4		1/4		1/4		1/4	4,656.99	1/4	4,348.31	1/4	4,019.18	1/4	3,676.08	1/4	3,332.43	1/4	2,988.79	1/4	2,645.04
1/2		1/2		1/2		1/2	4,650.76	1/2	4,341.65	1/2	4,012.10	1/2	3,668.92	1/2	3,325.28	1/2	2,981.63	1/2	2,637.88
3/4		3/4		3/4		3/4	4,644.53	3/4	4,334.99	3/4	4,005.02	3/4	3,661.76	3/4	3,318.12	3/4	2,974.47	3/4	2,630.72
2		2		2		2	4,638.30	2	4,328.33	2	3,997.95	2	3,654.60	2	3,310.96	2	2,967.32	2	2,623.55
1/4		1/4		1/4		1/4	4,632.05	1/4	4,321.64	1/4	3,990.84	1/4	3,647.44	1/4	3,303.80	1/4	2,960.16	1/4	2,616.39
1/2		1/2		1/2		1/2	4,625.79	1/2	4,314.95	1/2	3,983.73	1/2	3,640.28	1/2	3,296.64	1/2	2,953.00	1/2	2,609.23
3/4		3/4		3/4		3/4	4,619.54	3/4	4,308.26	3/4	3,976.62	3/4	3,633.12	3/4	3,289.48	3/4	2,945.84	3/4	2,602.06
3		3		3		3	4,613.28	3	4,301.57	3	3,969.52	3	3,625.96	3	3,282.32	3	2,938.68	3	2,594.90
1/4		1/4		1/4		1/4	4,606.99	1/4	4,294.85	1/4	3,962.38	1/4	3,618.80	1/4	3,275.16	1/4	2,931.52	1/4	2,587.74
1/2		1/2		1/2		1/2	4,600.70	1/2	4,288.13	1/2	3,955.24	1/2	3,611.64	1/2	3,268.00	1/2	2,924.36	1/2	2,580.57
3/4		3/4		3/4		3/4	4,594.40	3/4	4,281.41	3/4	3,948.10	3/4	3,604.48	3/4	3,260.84	3/4	2,917.20	3/4	2,573.41
4		4		4		4	4,588.11	4	4,274.69	4	3,940.96	4	3,597.32	4	3,253.68	4	2,910.04	4	2,566.25
1/4		1/4		1/4		1/4	4,581.79	1/4	4,267.93	1/4	3,933.80	1/4	3,590.17	1/4	3,246.52	1/4	2,902.88	1/4	2,559.08
1/2		1/2		1/2		1/2	4,575.46	1/2	4,261.18	1/2	3,926.64	1/2	3,583.01	1/2	3,239.36	1/2	2,895.72	1/2	2,551.92
3/4		3/4		3/4		3/4	4,569.13	3/4	4,254.42	3/4	3,919.49	3/4	3,575.85	3/4	3,232.21	3/4	2,888.56	3/4	2,544.76
5		5		5		5	4,562.81	5	4,247.67	5	3,912.33	5	3,568.69	5	3,225.05	5	2,881.40	5	2,537.59
1/4		1/4		1/4		1/4	4,556.45	1/4	4,240.89	1/4	3,905.17	1/4	3,561.53	1/4	3,217.89	1/4	2,874.25	1/4	2,530.43
1/2		1/2		1/2		1/2	4,550.09	1/2	4,234.10	1/2	3,898.01	1/2	3,554.37	1/2	3,210.73	1/2	2,867.09	1/2	2,523.27
3/4		3/4		3/4		3/4	4,543.73	3/4	4,227.31	3/4	3,890.85	3/4	3,547.21	3/4	3,203.57	3/4	2,859.93	3/4	2,516.10
6		6		6		6	4,537.38	6	4,220.53	6	3,883.69	6	3,540.05	6	3,196.41	6	2,852.77	6	2,508.94
1/4		1/4		1/4		1/4	4,530.99	1/4	4,213.71	1/4	3,876.53	1/4	3,532.89	1/4	3,189.25	1/4	2,845.61	1/4	2,501.78
1/2		1/2		1/2		1/2	4,524.60	1/2	4,206.88	1/2	3,869.37	1/2	3,525.73	1/2	3,182.09	1/2	2,838.45	1/2	2,494.61
3/4		3/4		3/4		3/4	4,518.21	3/4	4,200.06	3/4	3,862.22	3/4	3,518.57	3/4	3,174.93	3/4	2,831.29	3/4	2,487.45
7		7		7	4,825.96	7	4,511.82	7	4,193.24	7	3,855.06	7	3,511.41	7	3,167.77	7	2,824.12	7	2,480.29
1/4		1/4		1/4	4,819.93	1/4	4,505.40	1/4	4,186.36	1/4	3,847.90	1/4	3,504.26	1/4	3,160.61	1/4	2,816.96	1/4	2,473.12
1/2		1/2		1/2	4,813.90	1/2	4,498.98	1/2	4,179.49	1/2	3,840.74	1/2	3,497.10	1/2	3,153.45	1/2	2,809.80	1/2	2,465.96
3/4		3/4		3/4	4,807.87	3/4	4,492.55	3/4	4,172.62	3/4	3,833.58	3/4	3,489.94	3/4	3,146.30	3/4	2,802.63	3/4	2,458.80
8		8		8	4,801.84	8	4,486.13	8	4,165.74	8	3,826.42	8	3,482.78	8	3,139.14	8	2,795.47	8	2,451.63
1/4		1/4		1/4	4,794.92	1/4	4,479.65	1/4	4,158.83	1/4	3,819.26	1/4	3,475.62	1/4	3,131.98	1/4	2,788.31	1/4	2,444.47
1/2		1/2		1/2	4,788.00	1/2	4,473.17	1/2	4,151.92	1/2	3,812.10	1/2	3,468.46	1/2	3,124.82	1/2	2,781.14	1/2	2,437.31
3/4		3/4		3/4	4,781.07	3/4	4,466.69	3/4	4,145.01	3/4	3,804.94	3/4	3,461.30	3/4	3,117.66	3/4	2,773.98	3/4	2,430.14
9		9		9	4,774.15	9	4,460.20	9	4,138.10	9	3,797.78	9	3,454.14	9	3,110.50	9	2,766.82	9	2,422.98
1/4		1/4		1/4	4,767.05	1/4	4,453.68	1/4	4,131.16	1/4	3,790.62	1/4	3,446.98	1/4	3,103.34	1/4	2,759.66	1/4	2,415.82
1/2		1/2		1/2	4,759.94	1/2	4,447.16	1/2	4,124.22	1/2	3,783.46	1/2	3,439.82	1/2	3,096.18	1/2	2,752.49	1/2	2,408.65
3/4		3/4		3/4	4,752.84	3/4	4,440.63	3/4	4,117.28	3/4	3,776.30	3/4	3,432.66	3/4	3,089.02	3/4	2,745.33	3/4	2,401.49
10		10		10	4,745.74	10	4,434.11	10	4,110.34	10	3,769.15	10	3,425.50	10	3,081.86	10	2,738.17	10	2,394.33
1/4		1/4		1/4	4,738.64	1/4	4,427.55	1/4	4,103.36	1/4	3,761.99	1/4	3,418.34	1/4	3,074.70	1/4	2,731.00	1/4	2,387.16
1/2		1/2		1/2	4,731.54	1/2	4,420.98	1/2	4,096.39	1/2	3,754.83	1/2	3,411.19	1/2	3,067.54	1/2	2,723.84	1/2	2,380.00
3/4		3/4		3/4	4,724.43	3/4	4,414.42	3/4	4,089.42	3/4	3,747.67	3/4	3,404.03	3/4	3,060.38	3/4	2,716.68	3/4	2,372.84
11		11		11	4,717.33	11	4,407.86	11	4,082.44	11	3,740.51	11	3,396.87	11	3,053.23	11	2,709.51	11	2,365.67
1/4		1/4		1/4	4,710.23	1/4	4,401.26	1/4	4,075.44	1/4	3,733.35	1/4	3,389.71	1/4	3,046.07	1/4	2,702.35	1/4	2,358.51
1/2		1/2		1/2	4,703.13	1/2	4,394.67	1/2	4,068.43	1/2	3,726.19	1/2	3,382.55	1/2	3,038.91	1/2	2,695.19	1/2	2,351.35
3/4		3/4		3/4	4,696.03	3/4	4,388.07	3/4	4,061.43	3/4	3,719.03	3/4	3,375.39	3/4	3,031.75	3/4	2,688.02	3/4	2,344.18

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 40'-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 27734"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 16'-10"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,337.02	0	1,993.18	0	1,655.15	0	1,311.24	0	974.10	0	637.81	0	293.91	0		0		0	
1/4	2,329.86	1/4	1,986.02	1/4	1,647.98	1/4	1,304.07	1/4	967.24	1/4	630.65	1/4	286.75	1/4	1/4	1/4		1/4	1/4
1/2	2,322.69	1/2	1,978.86	1/2	1,640.82	1/2	1,296.91	1/2	960.38	1/2	623.48	1/2	279.59	1/2	1/2	1/2		1/2	1/2
3/4	2,315.53	3/4	1,971.69	3/4	1,633.65	3/4	1,289.75	3/4	953.52	3/4	616.32	3/4	272.42	3/4	3/4	3/4		3/4	3/4
1	2,308.37	1	1,964.53	1	1,626.49	1	1,282.58	1	946.66	1	609.15	1	265.26	1	1	1		1	1
1/4	2,301.20	1/4	1,957.87	1/4	1,619.32	1/4	1,275.42	1/4	939.80	1/4	601.99	1/4	258.09	1/4	1/4	1/4		1/4	1/4
1/2	2,294.04	1/2	1,951.22	1/2	1,612.16	1/2	1,268.25	1/2	932.94	1/2	594.82	1/2	250.93	1/2	1/2	1/2		1/2	1/2
3/4	2,286.88	3/4	1,944.56	3/4	1,604.99	3/4	1,261.09	3/4	926.08	3/4	587.66	3/4	243.76	3/4	3/4	3/4		3/4	3/4
2	2,279.71	2	1,937.91	2	1,597.83	2	1,253.92	2	919.22	2	580.49	2	236.60	2	2	2		2	2
1/4	2,272.55	1/4	1,931.42	1/4	1,590.66	1/4	1,246.76	1/4	912.36	1/4	573.33	1/4	229.43	1/4	1/4	1/4		1/4	1/4
1/2	2,265.39	1/2	1,924.94	1/2	1,583.50	1/2	1,239.59	1/2	905.50	1/2	566.17	1/2	222.27	1/2	1/2	1/2		1/2	1/2
3/4	2,258.22	3/4	1,918.45	3/4	1,576.33	3/4	1,232.43	3/4	898.64	3/4	559.00	3/4	215.10	3/4	3/4	3/4		3/4	3/4
3	2,251.06	3	1,911.97	3	1,569.17	3	1,225.26	3	891.78	3	551.84	3	207.94	3	3	3		3	3
1/4	2,243.90	1/4	1,905.00	1/4	1,562.00	1/4	1,218.10	1/4	884.92	1/4	544.67	1/4	200.78	1/4	1/4	1/4		1/4	1/4
1/2	2,236.73	1/2	1,898.03	1/2	1,554.84	1/2	1,210.93	1/2	878.06	1/2	537.51	1/2	193.61	1/2	1/2	1/2		1/2	1/2
3/4	2,229.57	3/4	1,891.06	3/4	1,547.67	3/4	1,203.77	3/4	871.20	3/4	530.34	3/4	186.45	3/4	3/4	3/4		3/4	3/4
4	2,222.41	4	1,884.10	4	1,540.51	4	1,196.60	4	864.34	4	523.18	4	179.28	4	4	4		4	4
1/4	2,215.24	1/4	1,876.97	1/4	1,533.35	1/4	1,189.44	1/4	857.47	1/4	516.01	1/4	172.12	1/4	1/4	1/4		1/4	1/4
1/2	2,208.08	1/2	1,869.84	1/2	1,526.18	1/2	1,182.27	1/2	850.61	1/2	508.85	1/2	164.95	1/2	1/2	1/2		1/2	1/2
3/4	2,200.92	3/4	1,862.71	3/4	1,519.02	3/4	1,175.11	3/4	843.75	3/4	501.68	3/4	157.79	3/4	3/4	3/4		3/4	3/4
5	2,193.75	5	1,855.58	5	1,511.85	5	1,167.95	5	836.89	5	494.52	5	150.62	5	5	5		5	5
1/4	2,186.59	1/4	1,848.45	1/4	1,504.69	1/4	1,160.78	1/4	830.03	1/4	487.36	1/4	143.46	1/4	1/4	1/4		1/4	1/4
1/2	2,179.43	1/2	1,841.32	1/2	1,497.52	1/2	1,153.62	1/2	823.17	1/2	480.19	1/2	136.30	1/2	1/2	1/2		1/2	1/2
3/4	2,172.26	3/4	1,834.19	3/4	1,490.36	3/4	1,146.45	3/4	816.31	3/4	473.03	3/4	129.13	3/4	3/4	3/4		3/4	3/4
6	2,165.10	6	1,827.06	6	1,483.19	6	1,139.29	6	809.45	6	465.86	6	121.97	6	6	6		6	6
1/4	2,157.94	1/4	1,819.91	1/4	1,476.03	1/4	1,132.33	1/4	802.36	1/4	458.70	1/4	114.81	1/4	1/4	1/4		1/4	1/4
1/2	2,150.77	1/2	1,812.75	1/2	1,468.86	1/2	1,125.38	1/2	795.28	1/2	451.53	1/2	107.66	1/2	1/2	1/2		1/2	1/2
3/4	2,143.61	3/4	1,805.59	3/4	1,461.70	3/4	1,118.43	3/4	788.19	3/4	444.37	3/4	100.50	3/4	3/4	3/4		3/4	3/4
7	2,136.45	7	1,798.44	7	1,454.53	7	1,111.48	7	781.10	7	437.20	7	93.34	7	7	7		7	7
1/4	2,129.28	1/4	1,791.27	1/4	1,447.37	1/4	1,104.59	1/4	773.94	1/4	430.04	1/4	86.21	1/4	1/4	1/4		1/4	1/4
1/2	2,122.12	1/2	1,784.11	1/2	1,440.20	1/2	1,097.71	1/2	766.77	1/2	422.88	1/2	79.07	1/2	1/2	1/2		1/2	1/2
3/4	2,114.96	3/4	1,776.95	3/4	1,433.04	3/4	1,090.83	3/4	759.61	3/4	415.71	3/4	71.94	3/4	3/4	3/4		3/4	3/4
8	2,107.79	8	1,769.78	8	1,425.87	8	1,083.95	8	752.44	8	408.55	8	64.80	8	8	8		8	8
1/4	2,100.63	1/4	1,762.62	1/4	1,418.71	1/4	1,077.08	1/4	745.28	1/4	401.38	1/4	58.32	1/4	1/4	1/4		1/4	1/4
1/2	2,093.47	1/2	1,755.45	1/2	1,411.55	1/2	1,070.21	1/2	738.11	1/2	394.22	1/2	51.83	1/2	1/2	1/2		1/2	1/2
3/4	2,086.30	3/4	1,748.29	3/4	1,404.38	3/4	1,063.34	3/4	730.95	3/4	387.05	3/4	45.35	3/4	3/4	3/4		3/4	3/4
9	2,079.14	9	1,741.12	9	1,397.22	9	1,056.46	9	723.78	9	379.89	9	38.87	9	9	9		9	9
1/4	2,071.98	1/4	1,733.96	1/4	1,390.05	1/4	1,049.60	1/4	716.62	1/4	372.72	1/4	33.94	1/4	1/4	1/4		1/4	1/4
1/2	2,064.81	1/2	1,726.79	1/2	1,382.89	1/2	1,042.73	1/2	709.46	1/2	365.56	1/2	29.02	1/2	1/2	1/2		1/2	1/2
3/4	2,057.65	3/4	1,719.63	3/4	1,375.72	3/4	1,035.86	3/4	702.29	3/4	358.39	3/4	24.09	3/4	3/4	3/4		3/4	3/4
10	2,050.49	10	1,712.46	10	1,368.56	10	1,028.99	10	695.13	10	351.23	10	19.17	10	10	10		10	10
1/4	2,043.33	1/4	1,705.30	1/4	1,361.39	1/4	1,022.13	1/4	687.96	1/4	344.07	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,036.16	1/2	1,698.13	1/2	1,354.23	1/2	1,015.27	1/2	680.80	1/2	336.90	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,029.00	3/4	1,690.97	3/4	1,347.06	3/4	1,008.41	3/4	673.63	3/4	329.74	3/4		3/4	3/4	3/4		3/4	3/4
11	2,021.84	11	1,683.80	11	1,339.90	11	1,001.54	11	666.47	11	322.57	11		11	11	11		11	11
1/4	2,014.67	1/4	1,676.64	1/4	1,332.73	1/4	994.68	1/4	659.30	1/4	315.41	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,007.51	1/2	1,669.47	1/2	1,325.57	1/2	987.82	1/2	652.14	1/2	308.24	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,000.35	3/4	1,662.31	3/4	1,318.40	3/4	980.96	3/4	644.97	3/4	301.08	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 PMA  
 RECALCULATED: 12/03/2019 PMA  
 NAME CHANGE: 12/03/2019 PMA

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 12/2019

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



# BARGE "KIRBY 27734"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

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		
							4,696.48		4,388.80		4,061.31		3,718.65		3,375.01		3,031.36		2,687.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,690.05	1/4	4,382.17	1/4	4,054.27	1/4	3,711.50	1/4	3,367.85	1/4	3,024.20	1/4	2,680.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,683.62	1/2	4,375.54	1/2	4,047.23	1/2	3,704.34	1/2	3,360.69	1/2	3,017.04	1/2	2,673.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,677.19	3/4	4,368.91	3/4	4,040.18	3/4	3,697.18	3/4	3,353.53	3/4	3,009.88	3/4	2,666.14		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,670.96</b>	<b>1</b>	<b>4,362.26</b>	<b>1</b>	<b>4,033.11</b>	<b>1</b>	<b>3,690.02</b>	<b>1</b>	<b>3,346.37</b>	<b>1</b>	<b>3,002.72</b>	<b>1</b>	<b>2,658.97</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,664.73	1/4	4,355.60	1/4	4,026.03	1/4	3,682.86	1/4	3,339.21	1/4	2,995.57	1/4	2,651.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.51	1/2	4,348.94	1/2	4,018.96	1/2	3,675.70	1/2	3,332.05	1/2	2,988.41	1/2	2,644.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,652.28	3/4	4,342.28	3/4	4,011.88	3/4	3,668.54	3/4	3,324.89	3/4	2,981.25	3/4	2,637.48		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,646.02</b>	<b>2</b>	<b>4,335.59</b>	<b>2</b>	<b>4,004.77</b>	<b>2</b>	<b>3,661.38</b>	<b>2</b>	<b>3,317.73</b>	<b>2</b>	<b>2,974.09</b>	<b>2</b>	<b>2,630.32</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,639.76	1/4	4,328.90	1/4	3,997.66	1/4	3,654.22	1/4	3,310.57	1/4	2,966.93	1/4	2,623.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,633.51	1/2	4,322.21	1/2	3,990.56	1/2	3,647.06	1/2	3,303.41	1/2	2,959.77	1/2	2,615.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,627.25	3/4	4,315.51	3/4	3,983.45	3/4	3,639.90	3/4	3,296.26	3/4	2,952.61	3/4	2,608.83		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,620.96</b>	<b>3</b>	<b>4,308.79</b>	<b>3</b>	<b>3,976.31</b>	<b>3</b>	<b>3,632.74</b>	<b>3</b>	<b>3,289.10</b>	<b>3</b>	<b>2,945.45</b>	<b>3</b>	<b>2,601.67</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,614.66	1/4	4,302.07	1/4	3,969.17	1/4	3,625.58	1/4	3,281.94	1/4	2,938.29	1/4	2,594.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,608.37	1/2	4,295.35	1/2	3,962.03	1/2	3,618.42	1/2	3,274.78	1/2	2,931.13	1/2	2,587.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,602.08	3/4	4,288.62	3/4	3,954.89	3/4	3,611.26	3/4	3,267.62	3/4	2,923.97	3/4	2,580.18		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,595.75</b>	<b>4</b>	<b>4,281.87</b>	<b>4</b>	<b>3,947.74</b>	<b>4</b>	<b>3,604.11</b>	<b>4</b>	<b>3,260.46</b>	<b>4</b>	<b>2,916.81</b>	<b>4</b>	<b>2,573.01</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,589.42	1/4	4,275.12	1/4	3,940.58	1/4	3,596.95	1/4	3,253.30	1/4	2,909.65	1/4	2,565.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,583.10	1/2	4,268.36	1/2	3,933.43	1/2	3,589.79	1/2	3,246.14	1/2	2,902.49	1/2	2,558.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.77	3/4	4,261.61	3/4	3,926.27	3/4	3,582.63	3/4	3,238.98	3/4	2,895.33	3/4	2,551.52		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,570.41</b>	<b>5</b>	<b>4,254.82</b>	<b>5</b>	<b>3,919.11</b>	<b>5</b>	<b>3,575.47</b>	<b>5</b>	<b>3,231.82</b>	<b>5</b>	<b>2,888.18</b>	<b>5</b>	<b>2,544.36</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,564.05	1/4	4,248.04	1/4	3,911.96	1/4	3,568.31	1/4	3,224.66	1/4	2,881.02	1/4	2,537.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,557.69	1/2	4,241.25	1/2	3,904.80	1/2	3,561.15	1/2	3,217.50	1/2	2,873.86	1/2	2,530.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,551.34	3/4	4,234.46	3/4	3,897.64	3/4	3,553.99	3/4	3,210.34	3/4	2,866.70	3/4	2,522.87		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,544.95</b>	<b>6</b>	<b>4,227.64</b>	<b>6</b>	<b>3,890.48</b>	<b>6</b>	<b>3,546.83</b>	<b>6</b>	<b>3,203.18</b>	<b>6</b>	<b>2,859.54</b>	<b>6</b>	<b>2,515.71</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,538.56	1/4	4,220.82	1/4	3,883.32	1/4	3,539.67	1/4	3,196.03	1/4	2,852.38	1/4	2,508.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,532.17	1/2	4,213.99	1/2	3,876.16	1/2	3,532.51	1/2	3,188.87	1/2	2,845.22	1/2	2,501.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,839.93	3/4	4,525.78	3/4	4,207.17	3/4	3,869.00	3/4	3,525.35	3/4	3,181.71	3/4	2,838.05	3/4	2,494.22
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,833.90</b>	<b>7</b>	<b>4,519.35</b>	<b>7</b>	<b>4,200.30</b>	<b>7</b>	<b>3,861.84</b>	<b>7</b>	<b>3,518.19</b>	<b>7</b>	<b>3,174.55</b>	<b>7</b>	<b>2,830.89</b>	<b>7</b>	<b>2,487.05</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,827.88	1/4	4,512.93	1/4	4,193.42	1/4	3,854.68	1/4	3,511.03	1/4	3,167.39	1/4	2,823.73	1/4	2,479.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,821.85	1/2	4,506.51	1/2	4,186.55	1/2	3,847.52	1/2	3,503.88	1/2	3,160.23	1/2	2,816.56	1/2	2,472.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,815.82	3/4	4,500.09	3/4	4,179.68	3/4	3,840.36	3/4	3,496.72	3/4	3,153.07	3/4	2,809.40	3/4	2,465.56
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,808.90</b>	<b>8</b>	<b>4,493.61</b>	<b>8</b>	<b>4,172.77</b>	<b>8</b>	<b>3,833.20</b>	<b>8</b>	<b>3,489.56</b>	<b>8</b>	<b>3,145.91</b>	<b>8</b>	<b>2,802.24</b>	<b>8</b>	<b>2,458.40</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,801.97	1/4	4,487.12	1/4	4,165.86	1/4	3,826.04	1/4	3,482.40	1/4	3,138.75	1/4	2,795.07	1/4	2,451.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,795.05	1/2	4,480.64	1/2	4,158.95	1/2	3,818.88	1/2	3,475.24	1/2	3,131.59	1/2	2,787.91	1/2	2,444.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,788.13	3/4	4,474.16	3/4	4,152.04	3/4	3,811.73	3/4	3,468.08	3/4	3,124.43	3/4	2,780.75	3/4	2,436.91
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,781.03</b>	<b>9</b>	<b>4,467.63</b>	<b>9</b>	<b>4,145.10</b>	<b>9</b>	<b>3,804.57</b>	<b>9</b>	<b>3,460.92</b>	<b>9</b>	<b>3,117.27</b>	<b>9</b>	<b>2,773.58</b>	<b>9</b>	<b>2,429.75</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,773.92	1/4	4,461.11	1/4	4,138.15	1/4	3,797.41	1/4	3,453.76	1/4	3,110.11	1/4	2,766.42	1/4	2,422.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,766.82	1/2	4,454.58	1/2	4,131.21	1/2	3,790.25	1/2	3,446.60	1/2	3,102.95	1/2	2,759.26	1/2	2,415.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,759.72	3/4	4,448.06	3/4	4,124.27	3/4	3,783.09	3/4	3,439.44	3/4	3,095.80	3/4	2,752.09	3/4	2,408.26
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,752.62</b>	<b>10</b>	<b>4,441.50</b>	<b>10</b>	<b>4,117.30</b>	<b>10</b>	<b>3,775.93</b>	<b>10</b>	<b>3,432.28</b>	<b>10</b>	<b>3,088.64</b>	<b>10</b>	<b>2,744.93</b>	<b>10</b>	<b>2,401.09</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,745.51	1/4	4,434.93	1/4	4,110.32	1/4	3,768.77	1/4	3,425.12	1/4	3,081.48	1/4	2,737.77	1/4	2,393.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,738.41	1/2	4,428.37	1/2	4,103.35	1/2	3,761.61	1/2	3,417.96	1/2	3,074.32	1/2	2,730.60	1/2	2,386.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,731.31	3/4	4,421.81	3/4	4,096.38	3/4	3,754.45	3/4	3,410.80	3/4	3,067.16	3/4	2,723.44	3/4	2,379.60
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,724.21</b>	<b>11</b>	<b>4,415.21</b>	<b>11</b>	<b>4,089.37</b>	<b>11</b>	<b>3,747.29</b>	<b>11</b>	<b>3,403.65</b>	<b>11</b>	<b>3,060.00</b>	<b>11</b>	<b>2,716.28</b>	<b>11</b>	<b>2,372.44</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.11	1/4	4,408.62	1/4	4,082.37	1/4	3,740.13	1/4	3,396.49	1/4	3,052.84	1/4	2,709.12	1/4	2,365.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,710.01	1/2	4,402.02	1/2	4,075.36	1/2	3,732.97	1/2	3,389.33	1/2	3,045.68	1/2	2,701.95	1/2	2,358.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,702.90	3/4	4,395.42	3/4	4,068.36	3/4	3,725.81	3/4	3,382.17	3/4	3,038.52	3/4	2,694.79	3/4	2,350.95

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 40'-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 27734"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 16'-09 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,343.79	0	1,999.95	0	1,661.90	0	1,318.00	0	974.24	0	630.65	0	286.76	0		0		0			
1/4	2,336.62	1/4	1,992.79	1/4	1,654.74	1/4	1,310.83	1/4	967.09	1/4	623.49	1/4	279.59	1/4	1/4	1/4		1/4		1/4	
1/2	2,329.46	1/2	1,985.62	1/2	1,647.58	1/2	1,303.67	1/2	959.94	1/2	616.32	1/2	272.43	1/2	1/2	1/2		1/2		1/2	
3/4	2,322.30	3/4	1,978.46	3/4	1,640.41	3/4	1,296.50	3/4	952.79	3/4	609.16	3/4	265.26	3/4	3/4	3/4		3/4		3/4	
1	2,315.13	1	1,971.80	1	1,633.25	1	1,289.34	1	945.64	1	602.00	1	258.10	1	1	1		1		1	
1/4	2,307.97	1/4	1,965.15	1/4	1,626.08	1/4	1,282.18	1/4	938.48	1/4	594.83	1/4	250.94	1/4	1/4	1/4		1/4		1/4	
1/2	2,300.81	1/2	1,958.49	1/2	1,618.92	1/2	1,275.01	1/2	931.33	1/2	587.67	1/2	243.77	1/2	1/2	1/2		1/2		1/2	
3/4	2,293.64	3/4	1,951.84	3/4	1,611.75	3/4	1,267.85	3/4	924.18	3/4	580.50	3/4	236.61	3/4	3/4	3/4		3/4		3/4	
2	2,286.48	2	1,945.35	2	1,604.59	2	1,260.68	2	917.03	2	573.34	2	229.44	2	2	2		2		2	
1/4	2,279.32	1/4	1,938.87	1/4	1,597.42	1/4	1,253.52	1/4	909.88	1/4	566.17	1/4	222.28	1/4	1/4	1/4		1/4		1/4	
1/2	2,272.15	1/2	1,932.38	1/2	1,590.26	1/2	1,246.35	1/2	902.72	1/2	559.01	1/2	215.11	1/2	1/2	1/2		1/2		1/2	
3/4	2,264.99	3/4	1,925.89	3/4	1,583.09	3/4	1,239.19	3/4	895.57	3/4	551.84	3/4	207.95	3/4	3/4	3/4		3/4		3/4	
3	2,257.83	3	1,918.93	3	1,575.93	3	1,232.02	3	888.42	3	544.68	3	200.78	3	3	3		3		3	
1/4	2,250.66	1/4	1,911.96	1/4	1,568.76	1/4	1,224.86	1/4	881.27	1/4	537.52	1/4	193.62	1/4	1/4	1/4		1/4		1/4	
1/2	2,243.50	1/2	1,904.99	1/2	1,561.60	1/2	1,217.69	1/2	874.12	1/2	530.35	1/2	186.45	1/2	1/2	1/2		1/2		1/2	
3/4	2,236.34	3/4	1,898.02	3/4	1,554.43	3/4	1,210.53	3/4	866.97	3/4	523.19	3/4	179.29	3/4	3/4	3/4		3/4		3/4	
4	2,229.17	4	1,890.89	4	1,547.27	4	1,203.36	4	859.81	4	516.02	4	172.13	4	4	4		4		4	
1/4	2,222.01	1/4	1,883.76	1/4	1,540.10	1/4	1,196.20	1/4	852.66	1/4	508.86	1/4	164.96	1/4	1/4	1/4		1/4		1/4	
1/2	2,214.85	1/2	1,876.63	1/2	1,532.94	1/2	1,189.03	1/2	845.51	1/2	501.69	1/2	157.80	1/2	1/2	1/2		1/2		1/2	
3/4	2,207.68	3/4	1,869.50	3/4	1,525.78	3/4	1,181.87	3/4	838.36	3/4	494.53	3/4	150.63	3/4	3/4	3/4		3/4		3/4	
5	2,200.52	5	1,862.37	5	1,518.61	5	1,174.70	5	831.21	5	487.36	5	143.47	5	5	5		5		5	
1/4	2,193.36	1/4	1,855.24	1/4	1,511.45	1/4	1,167.54	1/4	824.05	1/4	480.20	1/4	136.31	1/4	1/4	1/4		1/4		1/4	
1/2	2,186.19	1/2	1,848.12	1/2	1,504.28	1/2	1,160.38	1/2	816.90	1/2	473.03	1/2	129.14	1/2	1/2	1/2		1/2		1/2	
3/4	2,179.03	3/4	1,840.99	3/4	1,497.12	3/4	1,153.21	3/4	809.75	3/4	465.87	3/4	121.98	3/4	3/4	3/4		3/4		3/4	
6	2,171.87	6	1,833.83	6	1,489.95	6	1,146.05	6	802.59	6	458.71	6	114.82	6	6	6		6		6	
1/4	2,164.70	1/4	1,826.67	1/4	1,482.79	1/4	1,138.88	1/4	795.43	1/4	451.54	1/4	107.67	1/4	1/4	1/4		1/4		1/4	
1/2	2,157.54	1/2	1,819.52	1/2	1,475.62	1/2	1,131.72	1/2	788.27	1/2	444.38	1/2	100.51	1/2	1/2	1/2		1/2		1/2	
3/4	2,150.38	3/4	1,812.36	3/4	1,468.46	3/4	1,124.55	3/4	781.11	3/4	437.21	3/4	93.35	3/4	3/4	3/4		3/4		3/4	
7	2,143.21	7	1,805.20	7	1,461.29	7	1,117.39	7	773.94	7	430.05	7	86.22	7	7	7		7		7	
1/4	2,136.05	1/4	1,798.03	1/4	1,454.13	1/4	1,110.22	1/4	766.78	1/4	422.88	1/4	79.08	1/4	1/4	1/4		1/4		1/4	
1/2	2,128.89	1/2	1,790.87	1/2	1,446.96	1/2	1,103.06	1/2	759.61	1/2	415.72	1/2	71.94	1/2	1/2	1/2		1/2		1/2	
3/4	2,121.72	3/4	1,783.70	3/4	1,439.80	3/4	1,095.89	3/4	752.45	3/4	408.55	3/4	64.81	3/4	3/4	3/4		3/4		3/4	
8	2,114.56	8	1,776.54	8	1,432.63	8	1,088.73	8	745.29	8	401.39	8	58.33	8	8	8		8		8	
1/4	2,107.40	1/4	1,769.38	1/4	1,425.47	1/4	1,081.57	1/4	738.12	1/4	394.23	1/4	51.84	1/4	1/4	1/4		1/4		1/4	
1/2	2,100.23	1/2	1,762.21	1/2	1,418.30	1/2	1,074.41	1/2	730.96	1/2	387.06	1/2	45.36	1/2	1/2	1/2		1/2		1/2	
3/4	2,093.07	3/4	1,755.05	3/4	1,411.14	3/4	1,067.25	3/4	723.79	3/4	379.90	3/4	38.88	3/4	3/4	3/4		3/4		3/4	
9	2,085.91	9	1,747.88	9	1,403.98	9	1,060.09	9	716.63	9	372.73	9	33.95	9	9	9		9		9	
1/4	2,078.74	1/4	1,740.72	1/4	1,396.81	1/4	1,052.93	1/4	709.46	1/4	365.57	1/4	29.03	1/4	1/4	1/4		1/4		1/4	
1/2	2,071.58	1/2	1,733.55	1/2	1,389.65	1/2	1,045.77	1/2	702.30	1/2	358.40	1/2	24.10	1/2	1/2	1/2		1/2		1/2	
3/4	2,064.42	3/4	1,726.39	3/4	1,382.48	3/4	1,038.61	3/4	695.13	3/4	351.24	3/4	19.17	3/4	3/4	3/4		3/4		3/4	
10	2,057.25	10	1,719.22	10	1,375.32	10	1,031.46	10	687.97	10	344.07	10		10	10	10		10		10	
1/4	2,050.09	1/4	1,712.06	1/4	1,368.15	1/4	1,024.31	1/4	680.81	1/4	336.91	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,042.93	1/2	1,704.89	1/2	1,360.99	1/2	1,017.15	1/2	673.64	1/2	329.74	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,035.76	3/4	1,697.73	3/4	1,353.82	3/4	1,010.00	3/4	666.48	3/4	322.58	3/4		3/4	3/4	3/4		3/4		3/4	
11	2,028.60	11	1,690.56	11	1,346.66	11	1,002.85	11	659.31	11	315.42	11		11	11	11		11		11	
1/4	2,021.44	1/4	1,683.40	1/4	1,339.49	1/4	995.70	1/4	652.15	1/4	308.25	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,014.27	1/2	1,676.23	1/2	1,332.33	1/2	988.55	1/2	644.98	1/2	301.09	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,007.11	3/4	1,669.07	3/4	1,325.16	3/4	981.39	3/4	637.82	3/4	293.92	3/4		3/4	3/4	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 PMA  
RECALCULATED: 12/03/2019 PMA  
NAME CHANGE: 12/03/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2019

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



# BARGE "KIRBY 27734"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

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	IN	0
1/4		1/4		1/4		1/4	4,346.94	1/4	4,172.22	1/4	3,986.16	1/4	3,791.23	1/4	3,564.23	1/4	3,201.47	1/4	2,837.97		
1/2		1/2		1/2		1/2	4,343.29	1/2	4,168.45	1/2	3,982.16	1/2	3,787.16	1/2	3,556.67	1/2	3,193.89	1/2	2,830.40		
3/4		3/4		3/4		3/4	4,339.63	3/4	4,164.68	3/4	3,978.15	3/4	3,783.09	3/4	3,549.12	3/4	3,186.32	3/4	2,822.82		
1		1		1		1	4,335.98	1	4,160.91	1	3,974.14	1	3,779.01	1	3,541.57	1	3,178.75	1	2,815.25		
1/4		1/4		1/4		1/4	4,332.33	1/4	4,157.14	1/4	3,970.13	1/4	3,774.94	1/4	3,534.01	1/4	3,171.18	1/4	2,807.68		
1/2		1/2		1/2		1/2	4,328.79	1/2	4,153.36	1/2	3,966.11	1/2	3,770.86	1/2	3,526.46	1/2	3,163.61	1/2	2,800.10		
3/4		3/4		3/4		3/4	4,325.26	3/4	4,149.57	3/4	3,962.08	3/4	3,766.79	3/4	3,518.91	3/4	3,156.04	3/4	2,792.53		
2		2		2		2	4,321.72	2	4,145.78	2	3,958.05	2	3,762.72	2	3,511.36	2	3,148.47	2	2,784.95		
1/4		1/4		1/4		1/4	4,318.18	1/4	4,142.00	1/4	3,954.03	1/4	3,758.64	1/4	3,503.81	1/4	3,140.89	1/4	2,777.38		
1/2		1/2		1/2		1/2	4,314.63	1/2	4,138.19	1/2	3,949.98	1/2	3,754.57	1/2	3,496.26	1/2	3,133.32	1/2	2,769.81		
3/4		3/4		3/4		3/4	4,311.07	3/4	4,134.39	3/4	3,945.94	3/4	3,750.49	3/4	3,488.71	3/4	3,125.75	3/4	2,762.23		
3		3		3		3	4,307.52	3	4,130.58	3	3,941.89	3	3,746.42	3	3,481.16	3	3,118.18	3	2,754.66		
1/4		1/4		1/4		1/4	4,303.97	1/4	4,126.77	1/4	3,937.85	1/4	3,742.35	1/4	3,473.61	1/4	3,110.61	1/4	2,747.08		
1/2		1/2		1/2		1/2	4,300.39	1/2	4,122.95	1/2	3,933.78	1/2	3,738.27	1/2	3,466.05	1/2	3,103.04	1/2	2,739.51		
3/4		3/4		3/4		3/4	4,296.82	3/4	4,119.13	3/4	3,929.72	3/4	3,734.20	3/4	3,458.50	3/4	3,095.47	3/4	2,731.93		
4		4		4		4	4,293.24	4	4,115.30	4	3,925.66	4	3,730.12	4	3,450.95	4	3,087.89	4	2,724.36		
1/4		1/4		1/4		1/4	4,289.67	1/4	4,111.48	1/4	3,921.59	1/4	3,726.05	1/4	3,443.40	1/4	3,080.32	1/4	2,716.79		
1/2		1/2		1/2		1/2	4,286.08	1/2	4,107.64	1/2	3,917.52	1/2	3,721.98	1/2	3,435.85	1/2	3,072.75	1/2	2,709.21		
3/4		3/4		3/4		3/4	4,282.48	3/4	4,103.80	3/4	3,913.45	3/4	3,717.90	3/4	3,428.30	3/4	3,065.18	3/4	2,701.64		
5		5		5		5	4,278.89	5	4,099.96	5	3,909.38	5	3,713.83	5	3,420.75	5	3,057.61	5	2,694.06		
1/4		1/4		1/4		1/4	4,275.30	1/4	4,096.12	1/4	3,905.31	1/4	3,709.75	1/4	3,413.20	1/4	3,050.04	1/4	2,686.49		
1/2		1/2		1/2		1/2	4,271.68	1/2	4,092.26	1/2	3,901.23	1/2	3,705.68	1/2	3,405.65	1/2	3,042.46	1/2	2,678.92		
3/4		3/4		3/4		3/4	4,268.07	3/4	4,088.40	3/4	3,897.16	3/4	3,701.61	3/4	3,398.10	3/4	3,034.89	3/4	2,671.34		
6		6		6		6	4,264.46	6	4,084.54	6	3,893.08	6	3,697.53	6	3,390.55	6	3,027.32	6	2,663.77		
1/4		1/4		1/4		1/4	4,260.85	1/4	4,080.68	1/4	3,889.01	1/4	3,693.46	1/4	3,383.00	1/4	3,019.75	1/4	2,656.19		
1/2		1/2		1/2		1/2	4,257.22	1/2	4,076.80	1/2	3,884.94	1/2	3,689.38	1/2	3,375.45	1/2	3,012.18	1/2	2,648.61		
3/4		3/4		3/4		3/4	4,253.59	3/4	4,072.92	3/4	3,880.86	3/4	3,685.31	3/4	3,367.89	3/4	3,004.60	3/4	2,641.03		
7		7		7		7	4,249.96	7	4,069.04	7	3,876.79	7	3,681.24	7	3,360.34	7	2,997.03	7	2,633.45		
1/4		1/4		1/4		1/4	4,422.33	1/4	4,246.33	1/4	4,065.16	1/4	3,872.71	1/4	3,677.16	1/4	3,352.79	1/4	2,989.46		
1/2		1/2		1/2		1/2	4,419.43	1/2	4,242.68	1/2	4,061.24	1/2	3,868.64	1/2	3,673.09	1/2	3,345.24	1/2	2,981.88		
3/4		3/4		3/4		3/4	4,416.54	3/4	4,239.04	3/4	4,057.33	3/4	3,864.57	3/4	3,669.01	3/4	3,337.69	3/4	2,974.31		
8		8		8		8	4,413.64	8	4,235.39	8	4,053.42	8	3,860.49	8	3,664.94	8	3,330.14	8	2,966.73		
1/4		1/4		1/4		1/4	4,410.74	1/4	4,231.74	1/4	4,049.51	1/4	3,856.42	1/4	3,660.87	1/4	3,322.59	1/4	2,959.16		
1/2		1/2		1/2		1/2	4,406.90	1/2	4,228.06	1/2	4,045.58	1/2	3,852.34	1/2	3,656.79	1/2	3,315.02	1/2	2,951.59		
3/4		3/4		3/4		3/4	4,403.05	3/4	4,224.37	3/4	4,041.65	3/4	3,848.27	3/4	3,652.72	3/4	3,307.46	3/4	2,944.01		
9		9		9		9	4,399.20	9	4,220.69	9	4,037.72	9	3,844.20	9	3,648.64	9	3,299.89	9	2,936.44		
1/4		1/4		1/4		1/4	4,395.36	1/4	4,217.00	1/4	4,033.78	1/4	3,840.12	1/4	3,644.57	1/4	3,292.32	1/4	2,928.86		
1/2		1/2		1/2		1/2	4,391.32	1/2	4,213.29	1/2	4,029.83	1/2	3,836.05	1/2	3,639.18	1/2	3,284.75	1/2	2,921.29		
3/4		3/4		3/4		3/4	4,387.29	3/4	4,209.58	3/4	4,025.88	3/4	3,831.97	3/4	3,633.78	3/4	3,277.18	3/4	2,913.72		
10		10		10		10	4,383.25	10	4,205.87	10	4,021.93	10	3,827.90	10	3,628.39	10	3,269.61	10	2,906.14		
1/4		1/4		1/4		1/4	4,379.22	1/4	4,202.16	1/4	4,017.98	1/4	3,823.83	1/4	3,623.00	1/4	3,262.04	1/4	2,898.57		
1/2		1/2		1/2		1/2	4,375.18	1/2	4,198.42	1/2	4,014.01	1/2	3,819.75	1/2	3,618.87	1/2	3,254.47	1/2	2,890.99		
3/4		3/4		3/4		3/4	4,371.15	3/4	4,194.69	3/4	4,010.05	3/4	3,815.68	3/4	3,608.74	3/4	3,246.90	3/4	2,883.42		
11		11		11		11	4,367.11	11	4,190.96	11	4,006.08	11	3,811.60	11	3,601.61	11	3,239.32	11	2,875.84		
1/4		1/4		1/4		1/4	4,363.08	1/4	4,187.23	1/4	4,002.11	1/4	3,807.53	1/4	3,594.48	1/4	3,231.75	1/4	2,868.27		
1/2		1/2		1/2		1/2	4,359.04	1/2	4,183.48	1/2	3,998.12	1/2	3,803.46	1/2	3,586.91	1/2	3,224.18	1/2	2,860.70		
3/4		3/4		3/4		3/4	4,355.01	3/4	4,179.73	3/4	3,994.14	3/4	3,799.38	3/4	3,579.35	3/4	3,216.61	3/4	2,853.12		
12		12		12		12	4,350.97	12	4,175.97	12	3,990.15	12	3,795.31	12	3,571.79	12	3,209.04	12	2,845.55		

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 27734"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 16'-10"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,474.51	0	2,113.01	0	1,756.79	0	1,392.81	0	1,033.89	0	675.56	0	311.40	0		0		0	
1/4	2,466.97	1/4	2,105.49	1/4	1,749.21	1/4	1,385.22	1/4	1,026.54	1/4	667.97	1/4	303.82	1/4	1/4		1/4		1/4
1/2	2,459.43	1/2	2,097.97	1/2	1,741.63	1/2	1,377.64	1/2	1,019.19	1/2	660.38	1/2	296.23	1/2	1/2		1/2		1/2
3/4	2,451.88	3/4	2,090.45	3/4	1,734.04	3/4	1,370.06	3/4	1,011.83	3/4	652.80	3/4	288.65	3/4	3/4		3/4		3/4
1	2,444.34	1	2,082.93	1	1,726.46	1	1,362.48	1	1,004.48	1	645.21	1	281.06	1	1		1		1
1/4	2,436.80	1/4	2,075.95	1/4	1,718.88	1/4	1,354.89	1/4	997.13	1/4	637.62	1/4	273.47	1/4	1/4		1/4		1/4
1/2	2,429.26	1/2	2,068.97	1/2	1,711.29	1/2	1,347.31	1/2	989.77	1/2	630.03	1/2	265.89	1/2	1/2		1/2		1/2
3/4	2,421.71	3/4	2,061.99	3/4	1,703.71	3/4	1,339.73	3/4	982.42	3/4	622.45	3/4	258.30	3/4	3/4		3/4		3/4
2	2,414.17	2	2,055.01	2	1,696.13	2	1,332.14	2	975.07	2	614.86	2	250.72	2	2		2		2
1/4	2,406.63	1/4	2,048.21	1/4	1,688.54	1/4	1,324.56	1/4	967.71	1/4	607.27	1/4	243.13	1/4	1/4		1/4		1/4
1/2	2,399.08	1/2	2,041.41	1/2	1,680.96	1/2	1,316.98	1/2	960.36	1/2	599.69	1/2	235.54	1/2	1/2		1/2		1/2
3/4	2,391.54	3/4	2,034.61	3/4	1,673.38	3/4	1,309.39	3/4	953.01	3/4	592.10	3/4	227.96	3/4	3/4		3/4		3/4
3	2,384.00	3	2,027.81	3	1,665.80	3	1,301.81	3	945.65	3	584.51	3	220.37	3	3		3		3
1/4	2,376.45	1/4	2,020.50	1/4	1,658.21	1/4	1,294.23	1/4	938.30	1/4	576.92	1/4	212.78	1/4	1/4		1/4		1/4
1/2	2,368.91	1/2	2,013.19	1/2	1,650.63	1/2	1,286.65	1/2	930.95	1/2	569.34	1/2	205.20	1/2	1/2		1/2		1/2
3/4	2,361.37	3/4	2,005.87	3/4	1,643.05	3/4	1,279.06	3/4	923.59	3/4	561.75	3/4	197.61	3/4	3/4		3/4		3/4
4	2,353.83	4	1,998.56	4	1,635.46	4	1,271.48	4	916.24	4	554.16	4	190.02	4	4		4		4
1/4	2,346.28	1/4	1,991.08	1/4	1,627.88	1/4	1,263.90	1/4	908.89	1/4	546.58	1/4	182.43	1/4	1/4		1/4		1/4
1/2	2,338.74	1/2	1,983.59	1/2	1,620.30	1/2	1,256.31	1/2	901.53	1/2	538.99	1/2	174.85	1/2	1/2		1/2		1/2
3/4	2,331.20	3/4	1,976.11	3/4	1,612.71	3/4	1,248.73	3/4	894.18	3/4	531.40	3/4	167.26	3/4	3/4		3/4		3/4
5	2,323.65	5	1,968.62	5	1,605.13	5	1,241.15	5	886.83	5	523.81	5	159.67	5	5		5		5
1/4	2,316.11	1/4	1,961.14	1/4	1,597.55	1/4	1,233.56	1/4	879.47	1/4	516.23	1/4	152.08	1/4	1/4		1/4		1/4
1/2	2,308.57	1/2	1,953.65	1/2	1,589.97	1/2	1,225.98	1/2	872.12	1/2	508.64	1/2	144.49	1/2	1/2		1/2		1/2
3/4	2,301.02	3/4	1,946.17	3/4	1,582.38	3/4	1,218.40	3/4	864.77	3/4	501.05	3/4	136.91	3/4	3/4		3/4		3/4
6	2,293.48	6	1,938.68	6	1,574.80	6	1,210.82	6	857.41	6	493.47	6	129.32	6	6		6		6
1/4	2,285.96	1/4	1,931.12	1/4	1,567.22	1/4	1,203.39	1/4	849.89	1/4	485.88	1/4	121.74	1/4	1/4		1/4		1/4
1/2	2,278.43	1/2	1,923.57	1/2	1,559.63	1/2	1,195.96	1/2	842.36	1/2	478.29	1/2	114.15	1/2	1/2		1/2		1/2
3/4	2,270.91	3/4	1,916.01	3/4	1,552.05	3/4	1,188.54	3/4	834.83	3/4	470.71	3/4	106.57	3/4	3/4		3/4		3/4
7	2,263.38	7	1,908.45	7	1,544.47	7	1,181.11	7	827.30	7	463.12	7	98.98	7	7		7		7
1/4	2,255.86	1/4	1,900.87	1/4	1,536.88	1/4	1,173.74	1/4	819.71	1/4	455.53	1/4	91.42	1/4	1/4		1/4		1/4
1/2	2,248.34	1/2	1,893.29	1/2	1,529.30	1/2	1,166.37	1/2	812.13	1/2	447.95	1/2	83.85	1/2	1/2		1/2		1/2
3/4	2,240.83	3/4	1,885.70	3/4	1,521.72	3/4	1,159.00	3/4	804.54	3/4	440.36	3/4	76.28	3/4	3/4		3/4		3/4
8	2,233.31	8	1,878.12	8	1,514.14	8	1,151.62	8	796.95	8	432.78	8	68.71	8	8		8		8
1/4	2,225.79	1/4	1,870.54	1/4	1,506.55	1/4	1,144.26	1/4	789.37	1/4	425.19	1/4	61.84	1/4	1/4		1/4		1/4
1/2	2,218.27	1/2	1,862.95	1/2	1,498.97	1/2	1,136.90	1/2	781.78	1/2	417.61	1/2	54.96	1/2	1/2		1/2		1/2
3/4	2,210.75	3/4	1,855.37	3/4	1,491.39	3/4	1,129.53	3/4	774.19	3/4	410.02	3/4	48.09	3/4	3/4		3/4		3/4
9	2,203.23	9	1,847.79	9	1,483.80	9	1,122.17	9	766.60	9	402.43	9	41.21	9	9		9		9
1/4	2,195.71	1/4	1,840.20	1/4	1,476.22	1/4	1,114.81	1/4	759.02	1/4	394.85	1/4	35.99	1/4	1/4		1/4		1/4
1/2	2,188.19	1/2	1,832.62	1/2	1,468.64	1/2	1,107.45	1/2	751.43	1/2	387.26	1/2	30.76	1/2	1/2		1/2		1/2
3/4	2,180.68	3/4	1,825.04	3/4	1,461.05	3/4	1,100.09	3/4	743.84	3/4	379.68	3/4	25.54	3/4	3/4		3/4		3/4
10	2,173.16	10	1,817.46	10	1,453.47	10	1,092.73	10	736.26	10	372.09	10	20.31	10	10		10		10
1/4	2,165.64	1/4	1,809.87	1/4	1,445.89	1/4	1,085.37	1/4	728.67	1/4	364.50	1/4		1/4	1/4		1/4		1/4
1/2	2,158.12	1/2	1,802.29	1/2	1,438.31	1/2	1,078.02	1/2	721.08	1/2	356.92	1/2		1/2	1/2		1/2		1/2
3/4	2,150.60	3/4	1,794.71	3/4	1,430.72	3/4	1,070.66	3/4	713.49	3/4	349.33	3/4		3/4	3/4		3/4		3/4
11	2,143.08	11	1,787.12	11	1,423.14	11	1,063.31	11	705.91	11	341.75	11		11	11		11		11
1/4	2,135.56	1/4	1,779.54	1/4	1,415.56	1/4	1,055.95	1/4	698.32	1/4	334.16	1/4		1/4	1/4		1/4		1/4
1/2	2,128.05	1/2	1,771.96	1/2	1,407.97	1/2	1,048.60	1/2	690.73	1/2	326.58	1/2		1/2	1/2		1/2		1/2
3/4	2,120.53	3/4	1,764.37	3/4	1,400.39	3/4	1,041.25	3/4	683.15	3/4	318.99	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 PMA  
RECALCULATED: 12/03/2019 PMA  
NAME CHANGE: 12/03/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2019

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



# BARGE "KIRBY 27734"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 16'-09 1/2"

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	4,358.47	0	4,183.78	0	3,997.51	0	3,802.70	0	3,568.91	0	3,205.51	0	2,841.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,354.82	1/4	4,180.02	1/4	3,993.50	1/4	3,798.63	1/4	3,561.34	1/4	3,197.93	1/4	2,833.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,351.18	1/2	4,176.25	1/2	3,989.50	1/2	3,794.56	1/2	3,553.78	1/2	3,190.34	1/2	2,826.23		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,347.64	3/4	4,172.47	3/4	3,985.48	3/4	3,790.49	3/4	3,546.22	3/4	3,182.76	3/4	2,818.64		
1		1		1		1	4,344.11	1	4,168.69	1	3,981.46	1	3,786.42	1	3,538.65	1	3,175.17	1	2,811.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,340.58	1/4	4,164.91	1/4	3,977.44	1/4	3,782.35	1/4	3,531.09	1/4	3,167.59	1/4	2,803.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,337.05	1/2	4,161.13	1/2	3,973.42	1/2	3,778.28	1/2	3,523.53	1/2	3,160.01	1/2	2,795.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,333.50	3/4	4,157.33	3/4	3,969.38	3/4	3,774.22	3/4	3,515.96	3/4	3,152.42	3/4	2,788.30		
2		2		2		2	4,329.95	2	4,153.53	2	3,965.34	2	3,770.15	2	3,508.40	2	3,144.84	2	2,780.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,326.40	1/4	4,149.73	1/4	3,961.30	1/4	3,766.08	1/4	3,500.84	1/4	3,137.25	1/4	2,773.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,322.86	1/2	4,145.93	1/2	3,957.26	1/2	3,762.01	1/2	3,493.27	1/2	3,129.67	1/2	2,765.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,319.29	3/4	4,142.11	3/4	3,953.20	3/4	3,757.94	3/4	3,485.71	3/4	3,122.09	3/4	2,757.95		
3		3		3		3	4,315.72	3	4,138.29	3	3,949.14	3	3,753.87	3	3,478.15	3	3,114.50	3	2,750.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,312.15	1/4	4,134.47	1/4	3,945.08	1/4	3,749.80	1/4	3,470.58	1/4	3,106.92	1/4	2,742.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,308.58	1/2	4,130.66	1/2	3,941.03	1/2	3,745.73	1/2	3,463.02	1/2	3,099.33	1/2	2,735.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,304.99	3/4	4,126.82	3/4	3,936.96	3/4	3,741.67	3/4	3,455.46	3/4	3,091.75	3/4	2,727.60		
4		4		4		4	4,301.41	4	4,122.98	4	3,932.89	4	3,737.60	4	3,447.89	4	3,084.17	4	2,720.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,297.82	1/4	4,119.15	1/4	3,928.82	1/4	3,733.53	1/4	3,440.33	1/4	3,076.58	1/4	2,712.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,294.23	1/2	4,115.31	1/2	3,924.76	1/2	3,729.46	1/2	3,432.77	1/2	3,069.00	1/2	2,704.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,290.62	3/4	4,111.46	3/4	3,920.69	3/4	3,725.39	3/4	3,425.20	3/4	3,061.41	3/4	2,697.26		
5		5		5		5	4,287.02	5	4,107.61	5	3,916.62	5	3,721.32	5	3,417.64	5	3,053.83	5	2,689.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,283.41	1/4	4,103.75	1/4	3,912.55	1/4	3,717.25	1/4	3,410.08	1/4	3,046.24	1/4	2,682.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,279.81	1/2	4,099.90	1/2	3,908.48	1/2	3,713.19	1/2	3,402.51	1/2	3,038.66	1/2	2,674.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,276.18	3/4	4,096.02	3/4	3,904.41	3/4	3,709.12	3/4	3,394.95	3/4	3,031.07	3/4	2,666.90		
6		6		6		6	4,272.56	6	4,092.15	6	3,900.35	6	3,705.05	6	3,387.39	6	3,023.49	6	2,659.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,268.93	1/4	4,088.27	1/4	3,896.28	1/4	3,700.98	1/4	3,379.82	1/4	3,015.90	1/4	2,651.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,441.04	1/2	4,265.31	1/2	4,084.40	1/2	3,892.21	1/2	3,696.91	1/2	3,372.26	1/2	3,008.31	1/2	2,644.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,438.15	3/4	4,261.67	3/4	4,080.49	3/4	3,888.14	3/4	3,692.84	3/4	3,364.70	3/4	3,000.73	3/4	2,636.53
7		7		7		7	4,435.26	7	4,258.03	7	4,076.58	7	3,884.07	7	3,688.77	7	3,357.13	7	2,993.14	7	2,628.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,432.37	1/4	4,254.39	1/4	4,072.68	1/4	3,880.00	1/4	3,684.70	1/4	3,349.57	1/4	2,985.55	1/4	2,621.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,429.48	1/2	4,250.74	1/2	4,068.77	1/2	3,875.93	1/2	3,680.64	1/2	3,342.01	1/2	2,977.97	1/2	2,613.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,425.64	3/4	4,247.06	3/4	4,064.85	3/4	3,871.86	3/4	3,676.57	3/4	3,334.43	3/4	2,970.38	3/4	2,606.16
8		8		8		8	4,421.80	8	4,243.38	8	4,060.92	8	3,867.80	8	3,672.50	8	3,326.85	8	2,962.79	8	2,598.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,417.96	1/4	4,239.70	1/4	4,056.99	1/4	3,863.73	1/4	3,668.43	1/4	3,319.27	1/4	2,955.21	1/4	2,590.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,414.12	1/2	4,236.02	1/2	4,053.07	1/2	3,859.66	1/2	3,664.36	1/2	3,311.69	1/2	2,947.62	1/2	2,583.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,410.09	3/4	4,232.32	3/4	4,049.12	3/4	3,855.59	3/4	3,658.97	3/4	3,304.10	3/4	2,940.03	3/4	2,575.78
9		9		9		9	4,406.06	9	4,228.61	9	4,045.18	9	3,851.52	9	3,653.58	9	3,296.52	9	2,932.45	9	2,568.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,402.03	1/4	4,224.91	1/4	4,041.23	1/4	3,847.45	1/4	3,648.20	1/4	3,288.94	1/4	2,924.86	1/4	2,560.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,398.00	1/2	4,221.20	1/2	4,037.29	1/2	3,843.38	1/2	3,642.81	1/2	3,281.35	1/2	2,917.27	1/2	2,553.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,393.97	3/4	4,217.47	3/4	4,033.32	3/4	3,839.31	3/4	3,635.68	3/4	3,273.77	3/4	2,909.69	3/4	2,545.40
10		10		10		10	4,389.94	10	4,213.75	10	4,029.36	10	3,835.25	10	3,628.55	10	3,266.18	10	2,902.10	10	2,537.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,385.91	1/4	4,210.02	1/4	4,025.40	1/4	3,831.18	1/4	3,621.42	1/4	3,258.60	1/4	2,894.51	1/4	2,530.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,381.88	1/2	4,206.29	1/2	4,021.43	1/2	3,827.11	1/2	3,614.29	1/2	3,251.02	1/2	2,886.93	1/2	2,522.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,377.85	3/4	4,202.55	3/4	4,017.45	3/4	3,823.04	3/4	3,606.72	3/4	3,243.43	3/4	2,879.34	3/4	2,515.03
11		11		11		11	4,373.82	11	4,198.80	11	4,013.47	11	3,818.97	11	3,599.16	11	3,235.85	11	2,871.75	11	2,507.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,369.79	1/4	4,195.06	1/4	4,009.49	1/4	3,814.90	1/4	3,591.60	1/4	3,228.26	1/4	2,864.17	1/4	2,499.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,365.76	1/2	4,191.31	1/2	4,005.51	1/2	3,810.83	1/2	3,584.03	1/2	3,220.68	1/2	2,856.58	1/2	2,492.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,362.11	3/4	4,187.55	3/4	4,001.51	3/4	3,806.77	3/4	3,576.47	3/4	3,213.09	3/4	2,848.99	3/4	2,484.65

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 27734"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 16'-09 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,477.06	0	2,112.54	0	1,754.15	0	1,389.56	0	1,025.18	0	660.95	0	296.38	0		0		0	
1/4	2,469.46	1/4	2,104.95	1/4	1,746.55	1/4	1,381.97	1/4	1,017.60	1/4	653.35	1/4	288.78	1/4	1/4		1/4		1/4
1/2	2,461.87	1/2	2,097.35	1/2	1,738.95	1/2	1,374.37	1/2	1,010.02	1/2	645.76	1/2	281.18	1/2	1/2		1/2		1/2
3/4	2,454.28	3/4	2,090.30	3/4	1,731.36	3/4	1,366.77	3/4	1,002.44	3/4	638.16	3/4	273.59	3/4	3/4		3/4		3/4
1	2,446.68	1	2,083.24	1	1,723.76	1	1,359.18	1	994.86	1	630.57	1	265.99	1	1		1		1
1/4	2,439.09	1/4	2,076.19	1/4	1,716.17	1/4	1,351.58	1/4	987.28	1/4	622.97	1/4	258.40	1/4	1/4		1/4		1/4
1/2	2,431.49	1/2	2,069.13	1/2	1,708.57	1/2	1,343.99	1/2	979.70	1/2	615.38	1/2	250.80	1/2	1/2		1/2		1/2
3/4	2,423.90	3/4	2,062.26	3/4	1,700.98	3/4	1,336.39	3/4	972.12	3/4	607.78	3/4	243.21	3/4	3/4		3/4		3/4
2	2,416.31	2	2,055.38	2	1,693.38	2	1,328.80	2	964.54	2	600.19	2	235.61	2	2		2		2
1/4	2,408.71	1/4	2,048.51	1/4	1,685.79	1/4	1,321.20	1/4	956.96	1/4	592.59	1/4	228.02	1/4	1/4		1/4		1/4
1/2	2,401.12	1/2	2,041.63	1/2	1,678.19	1/2	1,313.61	1/2	949.38	1/2	585.00	1/2	220.42	1/2	1/2		1/2		1/2
3/4	2,393.52	3/4	2,034.24	3/4	1,670.59	3/4	1,306.01	3/4	941.80	3/4	577.40	3/4	212.83	3/4	3/4		3/4		3/4
3	2,385.93	3	2,026.85	3	1,663.00	3	1,298.42	3	934.21	3	569.81	3	205.23	3	3		3		3
1/4	2,378.33	1/4	2,019.46	1/4	1,655.40	1/4	1,290.82	1/4	926.63	1/4	562.21	1/4	197.64	1/4	1/4		1/4		1/4
1/2	2,370.74	1/2	2,012.08	1/2	1,647.81	1/2	1,283.22	1/2	919.05	1/2	554.62	1/2	190.04	1/2	1/2		1/2		1/2
3/4	2,363.15	3/4	2,004.52	3/4	1,640.21	3/4	1,275.63	3/4	911.47	3/4	547.02	3/4	182.45	3/4	3/4		3/4		3/4
4	2,355.55	4	1,996.96	4	1,632.62	4	1,268.03	4	903.89	4	539.43	4	174.85	4	4		4		4
1/4	2,347.96	1/4	1,989.40	1/4	1,625.02	1/4	1,260.44	1/4	896.31	1/4	531.83	1/4	167.26	1/4	1/4		1/4		1/4
1/2	2,340.36	1/2	1,981.84	1/2	1,617.43	1/2	1,252.84	1/2	888.73	1/2	524.23	1/2	159.66	1/2	1/2		1/2		1/2
3/4	2,332.77	3/4	1,974.28	3/4	1,609.83	3/4	1,245.25	3/4	881.15	3/4	516.64	3/4	152.07	3/4	3/4		3/4		3/4
5	2,325.18	5	1,966.72	5	1,602.24	5	1,237.65	5	873.57	5	509.04	5	144.47	5	5		5		5
1/4	2,317.58	1/4	1,959.16	1/4	1,594.64	1/4	1,230.06	1/4	865.99	1/4	501.45	1/4	136.88	1/4	1/4		1/4		1/4
1/2	2,309.99	1/2	1,951.60	1/2	1,587.04	1/2	1,222.46	1/2	858.41	1/2	493.85	1/2	129.28	1/2	1/2		1/2		1/2
3/4	2,302.39	3/4	1,944.01	3/4	1,579.45	3/4	1,214.86	3/4	850.82	3/4	486.26	3/4	121.70	3/4	3/4		3/4		3/4
6	2,294.80	6	1,936.42	6	1,571.85	6	1,207.27	6	843.23	6	478.66	6	114.11	6	6		6		6
1/4	2,287.21	1/4	1,928.83	1/4	1,564.26	1/4	1,199.67	1/4	835.64	1/4	471.07	1/4	106.52	1/4	1/4		1/4		1/4
1/2	2,279.61	1/2	1,921.25	1/2	1,556.66	1/2	1,192.08	1/2	828.05	1/2	463.47	1/2	98.94	1/2	1/2		1/2		1/2
3/4	2,272.02	3/4	1,913.65	3/4	1,549.07	3/4	1,184.48	3/4	820.45	3/4	455.88	3/4	91.37	3/4	3/4		3/4		3/4
7	2,264.42	7	1,906.06	7	1,541.47	7	1,176.89	7	812.86	7	448.28	7	83.81	7	7		7		7
1/4	2,256.83	1/4	1,898.46	1/4	1,533.88	1/4	1,169.29	1/4	805.26	1/4	440.69	1/4	76.24	1/4	1/4		1/4		1/4
1/2	2,249.23	1/2	1,890.86	1/2	1,526.28	1/2	1,161.70	1/2	797.67	1/2	433.09	1/2	68.68	1/2	1/2		1/2		1/2
3/4	2,241.64	3/4	1,883.27	3/4	1,518.68	3/4	1,154.11	3/4	790.07	3/4	425.50	3/4	61.80	3/4	3/4		3/4		3/4
8	2,234.05	8	1,875.67	8	1,511.09	8	1,146.52	8	782.47	8	417.90	8	54.93	8	8		8		8
1/4	2,226.45	1/4	1,868.08	1/4	1,503.49	1/4	1,138.93	1/4	774.88	1/4	410.30	1/4	48.06	1/4	1/4		1/4		1/4
1/2	2,218.86	1/2	1,860.48	1/2	1,495.90	1/2	1,131.34	1/2	767.28	1/2	402.71	1/2	41.18	1/2	1/2		1/2		1/2
3/4	2,211.26	3/4	1,852.89	3/4	1,488.30	3/4	1,123.75	3/4	759.69	3/4	395.11	3/4	35.96	3/4	3/4		3/4		3/4
9	2,203.67	9	1,845.29	9	1,480.71	9	1,116.16	9	752.09	9	387.52	9	30.74	9	9		9		9
1/4	2,196.08	1/4	1,837.70	1/4	1,473.11	1/4	1,108.58	1/4	744.50	1/4	379.92	1/4	25.52	1/4	1/4		1/4		1/4
1/2	2,188.48	1/2	1,830.10	1/2	1,465.52	1/2	1,100.99	1/2	736.90	1/2	372.33	1/2	20.30	1/2	1/2		1/2		1/2
3/4	2,180.89	3/4	1,822.50	3/4	1,457.92	3/4	1,093.41	3/4	729.31	3/4	364.73	3/4		3/4	3/4		3/4		3/4
10	2,173.29	10	1,814.91	10	1,450.33	10	1,085.82	10	721.71	10	357.14	10		10	10		10		10
1/4	2,165.70	1/4	1,807.31	1/4	1,442.73	1/4	1,078.24	1/4	714.12	1/4	349.54	1/4		1/4	1/4		1/4		1/4
1/2	2,158.11	1/2	1,799.72	1/2	1,435.13	1/2	1,070.66	1/2	706.52	1/2	341.95	1/2		1/2	1/2		1/2		1/2
3/4	2,150.51	3/4	1,792.12	3/4	1,427.54	3/4	1,063.08	3/4	698.93	3/4	334.35	3/4		3/4	3/4		3/4		3/4
11	2,142.92	11	1,784.53	11	1,419.94	11	1,055.50	11	691.33	11	326.76	11		11	11		11		11
1/4	2,135.32	1/4	1,776.93	1/4	1,412.35	1/4	1,047.92	1/4	683.74	1/4	319.16	1/4		1/4	1/4		1/4		1/4
1/2	2,127.73	1/2	1,769.34	1/2	1,404.75	1/2	1,040.34	1/2	676.14	1/2	311.57	1/2		1/2	1/2		1/2		1/2
3/4	2,120.14	3/4	1,761.74	3/4	1,397.16	3/4	1,032.76	3/4	668.55	3/4	303.97	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 PMA  
RECALCULATED: 12/03/2019 PMA  
NAME CHANGE: 12/03/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2019

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



# BARGE "KIRBY 27734"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 331"

GAUGE HEIGHT 6'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,625	0	3,250	0	4,875	0	6,501	0	8,126	0	9,751	0		0		0	
1/4	34	1/4	1,659	1/4	3,284	1/4	4,909	1/4	6,534	1/4	8,160	1/4	9,785	1/4		1/4		1/4	
1/2	68	1/2	1,693	1/2	3,318	1/2	4,943	1/2	6,568	1/2	8,193	1/2	9,819	1/2		1/2		1/2	
3/4	102	3/4	1,727	3/4	3,352	3/4	4,977	3/4	6,602	3/4	8,227	3/4	9,852	3/4		3/4		3/4	
1	135	1	1,761	1	3,386	1	5,011	1	6,636	1	8,261	1	9,886	1		1		1	
1/4	169	1/4	1,794	1/4	3,420	1/4	5,045	1/4	6,670	1/4	8,295	1/4	9,920	1/4		1/4		1/4	
1/2	203	1/2	1,828	1/2	3,453	1/2	5,079	1/2	6,704	1/2	8,329	1/2	9,954	1/2		1/2		1/2	
3/4	237	3/4	1,862	3/4	3,487	3/4	5,112	3/4	6,738	3/4	8,363	3/4	9,988	3/4		3/4		3/4	
2	271	2	1,896	2	3,521	2	5,146	2	6,771	2	8,397	2	10,022	2		2		2	
1/4	305	1/4	1,930	1/4	3,555	1/4	5,180	1/4	6,805	1/4	8,430	1/4	10,056	1/4		1/4		1/4	
1/2	339	1/2	1,964	1/2	3,589	1/2	5,214	1/2	6,839	1/2	8,464	1/2	10,089	1/2		1/2		1/2	
3/4	372	3/4	1,998	3/4	3,623	3/4	5,248	3/4	6,873	3/4	8,498	3/4		3/4		3/4		3/4	
3	406	3	2,031	3	3,657	3	5,282	3	6,907	3	8,532	3		3		3		3	
1/4	440	1/4	2,065	1/4	3,690	1/4	5,316	1/4	6,941	1/4	8,566	1/4		1/4		1/4		1/4	
1/2	474	1/2	2,099	1/2	3,724	1/2	5,349	1/2	6,975	1/2	8,600	1/2		1/2		1/2		1/2	
3/4	508	3/4	2,133	3/4	3,758	3/4	5,383	3/4	7,008	3/4	8,634	3/4		3/4		3/4		3/4	
4	542	4	2,167	4	3,792	4	5,417	4	7,042	4	8,667	4		4		4		4	
1/4	576	1/4	2,201	1/4	3,826	1/4	5,451	1/4	7,076	1/4	8,701	1/4		1/4		1/4		1/4	
1/2	609	1/2	2,235	1/2	3,860	1/2	5,485	1/2	7,110	1/2	8,735	1/2		1/2		1/2		1/2	
3/4	643	3/4	2,268	3/4	3,894	3/4	5,519	3/4	7,144	3/4	8,769	3/4		3/4		3/4		3/4	
5	677	5	2,302	5	3,927	5	5,553	5	7,178	5	8,803	5		5		5		5	
1/4	711	1/4	2,336	1/4	3,961	1/4	5,586	1/4	7,212	1/4	8,837	1/4		1/4		1/4		1/4	
1/2	745	1/2	2,370	1/2	3,995	1/2	5,620	1/2	7,245	1/2	8,871	1/2		1/2		1/2		1/2	
3/4	779	3/4	2,404	3/4	4,029	3/4	5,654	3/4	7,279	3/4	8,904	3/4		3/4		3/4		3/4	
6	813	6	2,438	6	4,063	6	5,688	6	7,313	6	8,938	6		6		6		6	
1/4	846	1/4	2,472	1/4	4,097	1/4	5,722	1/4	7,347	1/4	8,972	1/4		1/4		1/4		1/4	
1/2	880	1/2	2,505	1/2	4,131	1/2	5,756	1/2	7,381	1/2	9,006	1/2		1/2		1/2		1/2	
3/4	914	3/4	2,539	3/4	4,164	3/4	5,790	3/4	7,415	3/4	9,040	3/4		3/4		3/4		3/4	
7	948	7	2,573	7	4,198	7	5,823	7	7,449	7	9,074	7		7		7		7	
1/4	982	1/4	2,607	1/4	4,232	1/4	5,857	1/4	7,482	1/4	9,108	1/4		1/4		1/4		1/4	
1/2	1,016	1/2	2,641	1/2	4,266	1/2	5,891	1/2	7,516	1/2	9,141	1/2		1/2		1/2		1/2	
3/4	1,050	3/4	2,675	3/4	4,300	3/4	5,925	3/4	7,550	3/4	9,175	3/4		3/4		3/4		3/4	
8	1,083	8	2,709	8	4,334	8	5,959	8	7,584	8	9,209	8		8		8		8	
1/4	1,117	1/4	2,742	1/4	4,368	1/4	5,993	1/4	7,618	1/4	9,243	1/4		1/4		1/4		1/4	
1/2	1,151	1/2	2,776	1/2	4,401	1/2	6,027	1/2	7,652	1/2	9,277	1/2		1/2		1/2		1/2	
3/4	1,185	3/4	2,810	3/4	4,435	3/4	6,060	3/4	7,686	3/4	9,311	3/4		3/4		3/4		3/4	
9	1,219	9	2,844	9	4,469	9	6,094	9	7,719	9	9,345	9		9		9		9	
1/4	1,253	1/4	2,878	1/4	4,503	1/4	6,128	1/4	7,753	1/4	9,378	1/4		1/4		1/4		1/4	
1/2	1,287	1/2	2,912	1/2	4,537	1/2	6,162	1/2	7,787	1/2	9,412	1/2		1/2		1/2		1/2	
3/4	1,320	3/4	2,946	3/4	4,571	3/4	6,196	3/4	7,821	3/4	9,446	3/4		3/4		3/4		3/4	
10	1,354	10	2,979	10	4,605	10	6,230	10	7,855	10	9,480	10		10		10		10	
1/4	1,388	1/4	3,013	1/4	4,638	1/4	6,264	1/4	7,889	1/4	9,514	1/4		1/4		1/4		1/4	
1/2	1,422	1/2	3,047	1/2	4,672	1/2	6,297	1/2	7,923	1/2	9,548	1/2		1/2		1/2		1/2	
3/4	1,456	3/4	3,081	3/4	4,706	3/4	6,331	3/4	7,956	3/4	9,582	3/4		3/4		3/4		3/4	
11	1,490	11	3,115	11	4,740	11	6,365	11	7,990	11	9,615	11		11		11		11	
1/4	1,524	1/4	3,149	1/4	4,774	1/4	6,399	1/4	8,024	1/4	9,649	1/4		1/4		1/4		1/4	
1/2	1,557	1/2	3,183	1/2	4,808	1/2	6,433	1/2	8,058	1/2	9,683	1/2		1/2		1/2		1/2	
3/4	1,591	3/4	3,216	3/4	4,842	3/4	6,467	3/4	8,092	3/4	9,717	3/4		3/4		3/4		3/4	

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.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER PIPE.

STRAPPED: 07/11/2014 CL  
CALCULATED: 07/12/2014 CL  
NAME CHANGE: 12/02/2019 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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