



BARGE "KIRBY 27731"

ULLAGE TRIM TABLE
FORMERLY "CTCO 328"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 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"

September 26, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 27731"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

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	4,931.12	0	4,603.63	0	4,255.17	0	3,890.58	0	3,524.94	0	3,158.77	0	2,792.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,924.27	1/4	4,596.58	1/4	4,247.67	1/4	3,882.96	1/4	3,517.32	1/4	3,151.14	1/4	2,784.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,917.43	1/2	4,589.52	1/2	4,240.18	1/2	3,875.34	1/2	3,509.69	1/2	3,143.51	1/2	2,777.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,910.59	3/4	4,582.47	3/4	4,232.69	3/4	3,867.73	3/4	3,502.06	3/4	3,135.88	3/4	2,769.59		
1		1		1		1	4,903.96	1	4,575.39	1	4,225.16	1	3,860.11	1	3,494.44	1	3,128.25	1	2,761.96		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,897.33	1/4	4,568.30	1/4	4,217.63	1/4	3,852.49	1/4	3,486.81	1/4	3,120.62	1/4	2,754.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,890.70	1/2	4,561.21	1/2	4,210.10	1/2	3,844.88	1/2	3,479.18	1/2	3,113.00	1/2	2,746.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,884.07	3/4	4,554.13	3/4	4,202.57	3/4	3,837.26	3/4	3,471.55	3/4	3,105.37	3/4	2,739.06		
2		2		2		2	4,877.41	2	4,547.01	2	4,195.01	2	3,829.64	2	3,463.92	2	3,097.74	2	2,731.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,870.75	1/4	4,539.89	1/4	4,187.44	1/4	3,822.02	1/4	3,456.29	1/4	3,090.11	1/4	2,723.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,864.09	1/2	4,532.77	1/2	4,179.88	1/2	3,814.41	1/2	3,448.66	1/2	3,082.48	1/2	2,716.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,857.43	3/4	4,525.65	3/4	4,172.32	3/4	3,806.79	3/4	3,441.03	3/4	3,074.85	3/4	2,708.53		
3		3		3		3	4,850.73	3	4,518.49	3	4,164.72	3	3,799.17	3	3,433.40	3	3,067.22	3	2,700.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,844.03	1/4	4,511.34	1/4	4,157.13	1/4	3,791.56	1/4	3,425.78	1/4	3,059.59	1/4	2,693.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,837.33	1/2	4,504.19	1/2	4,149.53	1/2	3,783.94	1/2	3,418.15	1/2	3,051.96	1/2	2,685.63		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,830.63	3/4	4,497.03	3/4	4,141.93	3/4	3,776.32	3/4	3,410.52	3/4	3,044.34	3/4	2,678.00		
4		4		4		4	4,823.90	4	4,489.85	4	4,134.32	4	3,768.70	4	3,402.89	4	3,036.71	4	2,670.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,817.16	1/4	4,482.66	1/4	4,126.71	1/4	3,761.09	1/4	3,395.26	1/4	3,029.08	1/4	2,662.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,810.43	1/2	4,475.47	1/2	4,119.09	1/2	3,753.47	1/2	3,387.63	1/2	3,021.45	1/2	2,655.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,803.69	3/4	4,468.28	3/4	4,111.48	3/4	3,745.85	3/4	3,380.00	3/4	3,013.82	3/4	2,647.47		
5		5		5		5	4,796.92	5	4,461.06	5	4,103.86	5	3,738.23	5	3,372.37	5	3,006.19	5	2,639.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,790.15	1/4	4,453.84	1/4	4,096.24	1/4	3,730.62	1/4	3,364.75	1/4	2,998.56	1/4	2,632.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,783.38	1/2	4,446.62	1/2	4,088.63	1/2	3,723.00	1/2	3,357.12	1/2	2,990.93	1/2	2,624.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,776.62	3/4	4,439.40	3/4	4,081.01	3/4	3,715.38	3/4	3,349.49	3/4	2,983.31	3/4	2,616.93		
6		6		6		6	4,769.81	6	4,432.14	6	4,073.39	6	3,707.77	6	3,341.86	6	2,975.67	6	2,609.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,763.01	1/4	4,424.88	1/4	4,065.77	1/4	3,700.15	1/4	3,334.23	1/4	2,968.04	1/4	2,601.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.21	1/2	4,417.61	1/2	4,058.16	1/2	3,692.53	1/2	3,326.60	1/2	2,960.41	1/2	2,594.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,083.84	3/4	4,749.41	3/4	4,410.35	3/4	4,050.54	3/4	3,684.91	3/4	3,318.97	3/4	2,952.78	3/4	2,586.40
7		7		7		7	5,077.42	7	4,742.57	7	4,403.04	7	4,042.92	7	3,677.30	7	3,311.34	7	2,945.15	7	2,578.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,071.00	1/4	4,735.73	1/4	4,395.73	1/4	4,035.31	1/4	3,669.68	1/4	3,303.72	1/4	2,937.52	1/4	2,571.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,064.58	1/2	4,728.90	1/2	4,388.41	1/2	4,027.69	1/2	3,662.06	1/2	3,296.09	1/2	2,929.88	1/2	2,563.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,058.16	3/4	4,722.06	3/4	4,381.10	3/4	4,020.07	3/4	3,654.45	3/4	3,288.46	3/4	2,922.25	3/4	2,555.87
8		8		8		8	5,050.79	8	4,715.16	8	4,373.75	8	4,012.45	8	3,646.83	8	3,280.83	8	2,914.62	8	2,548.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,043.42	1/4	4,708.26	1/4	4,366.40	1/4	4,004.84	1/4	3,639.21	1/4	3,273.20	1/4	2,906.98	1/4	2,540.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,036.05	1/2	4,701.36	1/2	4,359.04	1/2	3,997.22	1/2	3,631.59	1/2	3,265.57	1/2	2,899.35	1/2	2,532.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,028.68	3/4	4,694.46	3/4	4,351.69	3/4	3,989.60	3/4	3,623.98	3/4	3,257.94	3/4	2,891.72	3/4	2,525.34
9		9		9		9	5,021.12	9	4,687.52	9	4,344.31	9	3,981.99	9	3,616.36	9	3,250.31	9	2,884.09	9	2,517.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,013.56	1/4	4,680.58	1/4	4,336.92	1/4	3,974.37	1/4	3,608.74	1/4	3,242.68	1/4	2,876.45	1/4	2,510.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,006.00	1/2	4,673.63	1/2	4,329.54	1/2	3,966.75	1/2	3,601.13	1/2	3,235.06	1/2	2,868.82	1/2	2,502.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,998.44	3/4	4,666.69	3/4	4,322.15	3/4	3,959.13	3/4	3,593.51	3/4	3,227.43	3/4	2,861.19	3/4	2,494.81
10		10		10		10	4,990.88	10	4,659.71	10	4,314.73	10	3,951.52	10	3,585.89	10	3,219.80	10	2,853.55	10	2,487.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,983.32	1/4	4,652.72	1/4	4,307.31	1/4	3,943.90	1/4	3,578.27	1/4	3,212.17	1/4	2,845.92	1/4	2,479.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,975.76	1/2	4,645.74	1/2	4,299.89	1/2	3,936.28	1/2	3,570.66	1/2	3,204.54	1/2	2,838.29	1/2	2,471.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,968.20	3/4	4,638.76	3/4	4,292.47	3/4	3,928.66	3/4	3,563.04	3/4	3,196.91	3/4	2,830.65	3/4	2,464.28
11		11		11		11	4,960.64	11	4,631.74	11	4,285.02	11	3,921.05	11	3,555.42	11	3,189.28	11	2,823.02	11	2,456.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,953.08	1/4	4,624.72	1/4	4,277.57	1/4	3,913.43	1/4	3,547.80	1/4	3,181.65	1/4	2,815.39	1/4	2,449.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,945.52	1/2	4,617.70	1/2	4,270.11	1/2	3,905.81	1/2	3,540.19	1/2	3,174.03	1/2	2,807.76	1/2	2,441.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,937.96	3/4	4,610.68	3/4	4,262.66	3/4	3,898.20	3/4	3,532.57	3/4	3,166.40	3/4	2,800.12	3/4	2,433.74

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.
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BARGE "KIRBY 27731"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

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	2,426.11	0	2,059.73	0	1,699.49	0	1,333.05	0	967.59	0	602.37	0	254.25	0		0		0	
1/4	2,418.48	1/4	2,052.10	1/4	1,691.86	1/4	1,325.41	1/4	960.01	1/4	594.74	1/4	247.52	1/4	1/4		1/4		1/4
1/2	2,410.85	1/2	2,044.47	1/2	1,684.23	1/2	1,317.78	1/2	952.43	1/2	587.11	1/2	240.80	1/2	1/2		1/2		1/2
3/4	2,403.21	3/4	2,036.83	3/4	1,676.59	3/4	1,310.15	3/4	944.84	3/4	579.47	3/4	234.07	3/4	3/4		3/4		3/4
1	2,395.58	1	2,029.74	1	1,668.96	1	1,302.51	1	937.26	1	571.85	1	227.44	1	1		1		1
1/4	2,387.95	1/4	2,022.65	1/4	1,661.32	1/4	1,294.88	1/4	929.68	1/4	564.22	1/4	220.80	1/4	1/4		1/4		1/4
1/2	2,380.31	1/2	2,015.56	1/2	1,653.69	1/2	1,287.24	1/2	922.09	1/2	556.59	1/2	214.16	1/2	1/2		1/2		1/2
3/4	2,372.68	3/4	2,008.46	3/4	1,646.05	3/4	1,279.61	3/4	914.51	3/4	548.97	3/4	207.52	3/4	3/4		3/4		3/4
2	2,365.05	2	2,001.55	2	1,638.42	2	1,271.97	2	906.93	2	541.39	2	200.97	2	2		2		2
1/4	2,357.41	1/4	1,994.64	1/4	1,630.79	1/4	1,264.34	1/4	899.34	1/4	533.80	1/4	194.42	1/4	1/4		1/4		1/4
1/2	2,349.78	1/2	1,987.73	1/2	1,623.15	1/2	1,256.71	1/2	891.76	1/2	526.22	1/2	187.87	1/2	1/2		1/2		1/2
3/4	2,342.15	3/4	1,980.82	3/4	1,615.52	3/4	1,249.07	3/4	884.18	3/4	518.64	3/4	181.32	3/4	3/4		3/4		3/4
3	2,334.52	3	1,973.39	3	1,607.88	3	1,241.44	3	876.59	3	511.13	3	174.86	3	3		3		3
1/4	2,326.88	1/4	1,965.96	1/4	1,600.25	1/4	1,233.80	1/4	869.01	1/4	503.63	1/4	168.39	1/4	1/4		1/4		1/4
1/2	2,319.25	1/2	1,958.54	1/2	1,592.61	1/2	1,226.17	1/2	861.43	1/2	496.13	1/2	161.93	1/2	1/2		1/2		1/2
3/4	2,311.62	3/4	1,951.11	3/4	1,584.98	3/4	1,218.53	3/4	853.84	3/4	488.62	3/4	155.46	3/4	3/4		3/4		3/4
4	2,303.98	4	1,943.51	4	1,577.35	4	1,210.90	4	846.26	4	481.20	4	149.09	4	4		4		4
1/4	2,296.35	1/4	1,935.91	1/4	1,569.71	1/4	1,203.27	1/4	838.68	1/4	473.79	1/4	142.72	1/4	1/4		1/4		1/4
1/2	2,288.72	1/2	1,928.31	1/2	1,562.08	1/2	1,195.63	1/2	831.09	1/2	466.37	1/2	136.34	1/2	1/2		1/2		1/2
3/4	2,281.09	3/4	1,920.71	3/4	1,554.44	3/4	1,188.00	3/4	823.51	3/4	458.95	3/4	129.97	3/4	3/4		3/4		3/4
5	2,273.45	5	1,913.12	5	1,546.81	5	1,180.36	5	815.93	5	451.62	5	123.69	5	5		5		5
1/4	2,265.82	1/4	1,905.52	1/4	1,539.17	1/4	1,172.73	1/4	808.34	1/4	444.29	1/4	117.41	1/4	1/4		1/4		1/4
1/2	2,258.19	1/2	1,897.92	1/2	1,531.54	1/2	1,165.09	1/2	800.76	1/2	436.96	1/2	111.13	1/2	1/2		1/2		1/2
3/4	2,250.55	3/4	1,890.32	3/4	1,523.91	3/4	1,157.46	3/4	793.18	3/4	429.63	3/4	104.85	3/4	3/4		3/4		3/4
6	2,242.92	6	1,882.69	6	1,516.27	6	1,149.85	6	785.56	6	422.38	6	98.67	6	6		6		6
1/4	2,235.29	1/4	1,875.07	1/4	1,508.64	1/4	1,142.24	1/4	777.93	1/4	415.14	1/4	92.48	1/4	1/4		1/4		1/4
1/2	2,227.66	1/2	1,867.44	1/2	1,501.00	1/2	1,134.62	1/2	770.31	1/2	407.90	1/2	86.30	1/2	1/2		1/2		1/2
3/4	2,220.02	3/4	1,859.82	3/4	1,493.37	3/4	1,127.01	3/4	762.69	3/4	400.65	3/4	80.12	3/4	3/4		3/4		3/4
7	2,212.39	7	1,852.18	7	1,485.73	7	1,119.41	7	755.06	7	393.49	7	74.04	7	7		7		7
1/4	2,204.76	1/4	1,844.55	1/4	1,478.10	1/4	1,111.80	1/4	747.42	1/4	386.34	1/4	67.96	1/4	1/4		1/4		1/4
1/2	2,197.12	1/2	1,836.91	1/2	1,470.47	1/2	1,104.20	1/2	739.79	1/2	379.18	1/2	61.89	1/2	1/2		1/2		1/2
3/4	2,189.49	3/4	1,829.28	3/4	1,462.83	3/4	1,096.59	3/4	732.15	3/4	372.02	3/4	55.81	3/4	3/4		3/4		3/4
8	2,181.86	8	1,821.64	8	1,455.20	8	1,089.00	8	724.52	8	364.95	8	50.52	8	8		8		8
1/4	2,174.23	1/4	1,814.01	1/4	1,447.56	1/4	1,081.40	1/4	716.89	1/4	357.88	1/4	45.23	1/4	1/4		1/4		1/4
1/2	2,166.59	1/2	1,806.38	1/2	1,439.93	1/2	1,073.81	1/2	709.25	1/2	350.81	1/2	39.93	1/2	1/2		1/2		1/2
3/4	2,158.96	3/4	1,798.74	3/4	1,432.29	3/4	1,066.22	3/4	701.62	3/4	343.74	3/4	34.64	3/4	3/4		3/4		3/4
9	2,151.33	9	1,791.11	9	1,424.66	9	1,058.62	9	693.98	9	336.76	9	30.75	9	9		9		9
1/4	2,143.69	1/4	1,783.47	1/4	1,417.03	1/4	1,051.03	1/4	686.35	1/4	329.77	1/4	26.87	1/4	1/4		1/4		1/4
1/2	2,136.06	1/2	1,775.84	1/2	1,409.39	1/2	1,043.44	1/2	678.72	1/2	322.79	1/2	22.99	1/2	1/2		1/2		1/2
3/4	2,128.43	3/4	1,768.20	3/4	1,401.76	3/4	1,035.85	3/4	671.08	3/4	315.80	3/4	19.11	3/4	3/4		3/4		3/4
10	2,120.80	10	1,760.57	10	1,394.12	10	1,028.27	10	663.45	10	308.91	10		10	10		10		10
1/4	2,113.16	1/4	1,752.93	1/4	1,386.49	1/4	1,020.68	1/4	655.81	1/4	302.01	1/4		1/4	1/4		1/4		1/4
1/2	2,105.53	1/2	1,745.30	1/2	1,378.85	1/2	1,013.10	1/2	648.18	1/2	295.11	1/2		1/2	1/2		1/2		1/2
3/4	2,097.90	3/4	1,737.67	3/4	1,371.22	3/4	1,005.51	3/4	640.55	3/4	288.21	3/4		3/4	3/4		3/4		3/4
11	2,090.26	11	1,730.03	11	1,363.59	11	997.93	11	632.91	11	281.40	11		11	11		11		11
1/4	2,082.63	1/4	1,722.40	1/4	1,355.95	1/4	990.35	1/4	625.28	1/4	274.59	1/4		1/4	1/4		1/4		1/4
1/2	2,075.00	1/2	1,714.76	1/2	1,348.32	1/2	982.76	1/2	617.64	1/2	267.78	1/2		1/2	1/2		1/2		1/2
3/4	2,067.36	3/4	1,707.13	3/4	1,340.68	3/4	975.18	3/4	610.01	3/4	260.97	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 PMA
RECALCULATED: 09/26/2019 PMA
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

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



BARGE "KIRBY 27731"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

GAUGE HEIGHT 16'-10 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,940.72	0	4,612.98	0	4,265.47	0	3,901.27	0	3,535.74	0	3,170.20	0	2,804.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,933.16	1/4	4,605.96	1/4	4,258.02	1/4	3,893.66	1/4	3,528.12	1/4	3,162.59	1/4	2,796.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,926.32	1/2	4,598.91	1/2	4,250.53	1/2	3,886.04	1/2	3,520.51	1/2	3,154.97	1/2	2,789.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,919.48	3/4	4,591.86	3/4	4,243.04	3/4	3,878.42	3/4	3,512.89	3/4	3,147.36	3/4	2,781.72		
1	1	1	1	1	1	1	4,912.64	1	4,584.81	1	4,235.55	1	3,870.81	1	3,505.27	1	3,139.74	1	2,774.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,905.79	1/4	4,577.76	1/4	4,228.06	1/4	3,863.19	1/4	3,497.66	1/4	3,132.13	1/4	2,766.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,899.17	1/2	4,570.67	1/2	4,220.53	1/2	3,855.58	1/2	3,490.04	1/2	3,124.51	1/2	2,758.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,892.54	3/4	4,563.59	3/4	4,213.00	3/4	3,847.96	3/4	3,482.43	3/4	3,116.89	3/4	2,751.24		
2	2	2	2	2	2	2	4,885.91	2	4,556.50	2	4,205.48	2	3,840.35	2	3,474.81	2	3,109.28	2	2,743.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,879.28	1/4	4,549.42	1/4	4,197.95	1/4	3,832.73	1/4	3,467.20	1/4	3,101.66	1/4	2,736.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,872.62	1/2	4,542.30	1/2	4,190.39	1/2	3,825.12	1/2	3,459.58	1/2	3,094.05	1/2	2,728.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,865.96	3/4	4,535.18	3/4	4,182.83	3/4	3,817.50	3/4	3,451.97	3/4	3,086.43	3/4	2,720.77		
3	3	3	3	3	3	3	4,859.31	3	4,528.06	3	4,175.27	3	3,809.89	3	3,444.35	3	3,078.82	3	2,713.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,852.65	1/4	4,520.95	1/4	4,167.71	1/4	3,802.27	1/4	3,436.74	1/4	3,071.20	1/4	2,705.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,845.95	1/2	4,513.79	1/2	4,160.11	1/2	3,794.66	1/2	3,429.12	1/2	3,063.59	1/2	2,697.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,839.25	3/4	4,506.64	3/4	4,152.52	3/4	3,787.04	3/4	3,421.51	3/4	3,055.97	3/4	2,690.29		
4	4	4	4	4	4	4	4,832.55	4	4,499.49	4	4,144.92	4	3,779.43	4	3,413.89	4	3,048.36	4	2,682.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,825.86	1/4	4,492.34	1/4	4,137.33	1/4	3,771.81	1/4	3,406.28	1/4	3,040.74	1/4	2,675.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,819.12	1/2	4,485.15	1/2	4,129.72	1/2	3,764.20	1/2	3,398.66	1/2	3,033.13	1/2	2,667.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,812.39	3/4	4,477.97	3/4	4,122.11	3/4	3,756.58	3/4	3,391.05	3/4	3,025.51	3/4	2,659.81		
5	5	5	5	5	5	5	4,805.66	5	4,470.78	5	4,114.50	5	3,748.96	5	3,383.43	5	3,017.90	5	2,652.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,798.92	1/4	4,463.60	1/4	4,106.88	1/4	3,741.35	1/4	3,375.81	1/4	3,010.28	1/4	2,644.57		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,792.16	1/2	4,456.38	1/2	4,099.27	1/2	3,733.73	1/2	3,368.20	1/2	3,002.67	1/2	2,636.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,785.39	3/4	4,449.16	3/4	4,091.65	3/4	3,726.12	3/4	3,360.58	3/4	2,995.05	3/4	2,629.34		
6	6	6	6	6	6	6	4,778.62	6	4,441.94	6	4,084.04	6	3,718.50	6	3,352.97	6	2,987.43	6	2,621.72		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,771.85	1/4	4,434.72	1/4	4,076.42	1/4	3,710.89	1/4	3,345.35	1/4	2,979.82	1/4	2,614.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,765.05	1/2	4,427.46	1/2	4,068.81	1/2	3,703.27	1/2	3,337.74	1/2	2,972.20	1/2	2,606.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,758.25	3/4	4,420.20	3/4	4,061.19	3/4	3,695.66	3/4	3,330.12	3/4	2,964.58	3/4	2,598.86		
7	7	7	7	7	7	7	4,751.45	7	4,412.94	7	4,053.58	7	3,688.04	7	3,322.51	7	2,956.96	7	2,591.24		
1/4	1/4	1/4	5,078.99	1/4	4,744.65	1/4	4,405.68	1/4	4,045.96	1/4	3,680.43	1/4	3,314.89	1/4	2,949.35	1/4	2,583.62				
1/2	1/2	1/2	5,072.57	1/2	4,737.82	1/2	4,398.37	1/2	4,038.35	1/2	3,672.81	1/2	3,307.28	1/2	2,941.73	1/2	2,576.00				
3/4	3/4	3/4	5,066.16	3/4	4,730.98	3/4	4,391.06	3/4	4,030.73	3/4	3,665.20	3/4	3,299.66	3/4	2,934.11	3/4	2,568.38				
8	8	8	5,059.74	8	4,724.15	8	4,383.75	8	4,023.12	8	3,657.58	8	3,292.05	8	2,926.49	8	2,560.76				
1/4	1/4	1/4	5,053.33	1/4	4,717.31	1/4	4,376.44	1/4	4,015.50	1/4	3,649.97	1/4	3,284.43	1/4	2,918.87	1/4	2,553.14				
1/2	1/2	1/2	5,045.96	1/2	4,710.42	1/2	4,369.09	1/2	4,007.88	1/2	3,642.35	1/2	3,276.82	1/2	2,911.25	1/2	2,545.52				
3/4	3/4	3/4	5,038.59	3/4	4,703.52	3/4	4,361.74	3/4	4,000.27	3/4	3,634.74	3/4	3,269.20	3/4	2,903.63	3/4	2,537.90				
9	9	9	5,031.22	9	4,696.62	9	4,354.38	9	3,992.65	9	3,627.12	9	3,261.59	9	2,896.01	9	2,530.28				
1/4	1/4	1/4	5,023.86	1/4	4,689.72	1/4	4,347.03	1/4	3,985.04	1/4	3,619.50	1/4	3,253.97	1/4	2,888.39	1/4	2,522.66				
1/2	1/2	1/2	5,016.30	1/2	4,682.78	1/2	4,339.65	1/2	3,977.42	1/2	3,611.89	1/2	3,246.35	1/2	2,880.77	1/2	2,515.05				
3/4	3/4	3/4	5,008.74	3/4	4,675.84	3/4	4,332.27	3/4	3,969.81	3/4	3,604.27	3/4	3,238.74	3/4	2,873.15	3/4	2,507.43				
10	10	10	5,001.18	10	4,668.90	10	4,324.88	10	3,962.19	10	3,596.66	10	3,231.12	10	2,865.53	10	2,499.81				
1/4	1/4	1/4	4,993.62	1/4	4,661.96	1/4	4,317.50	1/4	3,954.58	1/4	3,589.04	1/4	3,223.51	1/4	2,857.91	1/4	2,492.19				
1/2	1/2	1/2	4,986.06	1/2	4,654.97	1/2	4,310.08	1/2	3,946.96	1/2	3,581.43	1/2	3,215.89	1/2	2,850.29	1/2	2,484.57				
3/4	3/4	3/4	4,978.51	3/4	4,647.99	3/4	4,302.66	3/4	3,939.35	3/4	3,573.81	3/4	3,208.28	3/4	2,842.68	3/4	2,476.95				
11	11	11	4,970.95	11	4,641.01	11	4,295.25	11	3,931.73	11	3,566.20	11	3,200.66	11	2,835.06	11	2,469.33				
1/4	1/4	1/4	4,963.39	1/4	4,634.03	1/4	4,287.83	1/4	3,924.12	1/4	3,558.58	1/4	3,193.05	1/4	2,827.44	1/4	2,461.71				
1/2	1/2	1/2	4,955.83	1/2	4,627.01	1/2	4,280.38	1/2	3,916.50	1/2	3,550.97	1/2	3,185.43	1/2	2,819.82	1/2	2,454.09				
3/4	3/4	3/4	4,948.28	3/4	4,620.00	3/4	4,272.93	3/4	3,908.89	3/4	3,543.35	3/4	3,177.82	3/4	2,812.20	3/4	2,446.47				

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 27731"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

GAUGE HEIGHT 16'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,438.85	0	2,073.13	0	1,713.55	0	1,347.75	0	982.09	0	616.66	0	267.49	0		0		0	
1/4	2,431.23	1/4	2,065.51	1/4	1,705.93	1/4	1,340.13	1/4	974.48	1/4	609.04	1/4	260.70	1/4	1/4		1/4		1/4
1/2	2,423.61	1/2	2,057.89	1/2	1,698.31	1/2	1,332.51	1/2	966.87	1/2	601.41	1/2	253.99	1/2	1/2		1/2		1/2
3/4	2,415.99	3/4	2,050.27	3/4	1,690.68	3/4	1,324.89	3/4	959.27	3/4	593.79	3/4	247.27	3/4	3/4		3/4		3/4
1	2,408.38	1	2,042.65	1	1,683.06	1	1,317.27	1	951.66	1	586.17	1	240.56	1	1		1		1
1/4	2,400.76	1/4	2,035.03	1/4	1,675.44	1/4	1,309.64	1/4	944.05	1/4	578.55	1/4	233.85	1/4	1/4		1/4		1/4
1/2	2,393.14	1/2	2,027.95	1/2	1,667.82	1/2	1,302.02	1/2	936.45	1/2	570.95	1/2	227.23	1/2	1/2		1/2		1/2
3/4	2,385.52	3/4	2,020.87	3/4	1,660.20	3/4	1,294.40	3/4	928.84	3/4	563.34	3/4	220.60	3/4	3/4		3/4		3/4
2	2,377.90	2	2,013.79	2	1,652.58	2	1,286.78	2	921.23	2	555.73	2	213.98	2	2		2		2
1/4	2,370.28	1/4	2,006.71	1/4	1,644.96	1/4	1,279.16	1/4	913.62	1/4	548.13	1/4	207.35	1/4	1/4		1/4		1/4
1/2	2,362.66	1/2	1,999.82	1/2	1,637.34	1/2	1,271.54	1/2	906.02	1/2	540.56	1/2	200.82	1/2	1/2		1/2		1/2
3/4	2,355.04	3/4	1,992.92	3/4	1,629.72	3/4	1,263.92	3/4	898.41	3/4	533.00	3/4	194.28	3/4	3/4		3/4		3/4
3	2,347.42	3	1,986.02	3	1,622.10	3	1,256.30	3	890.80	3	525.44	3	187.74	3	3		3		3
1/4	2,339.80	1/4	1,979.12	1/4	1,614.48	1/4	1,248.68	1/4	883.20	1/4	517.88	1/4	181.20	1/4	1/4		1/4		1/4
1/2	2,332.18	1/2	1,971.71	1/2	1,606.86	1/2	1,241.06	1/2	875.59	1/2	510.39	1/2	174.75	1/2	1/2		1/2		1/2
3/4	2,324.56	3/4	1,964.29	3/4	1,599.23	3/4	1,233.44	3/4	867.98	3/4	502.90	3/4	168.30	3/4	3/4		3/4		3/4
4	2,316.94	4	1,956.88	4	1,591.61	4	1,225.82	4	860.38	4	495.41	4	161.85	4	4		4		4
1/4	2,309.32	1/4	1,949.47	1/4	1,583.99	1/4	1,218.19	1/4	852.77	1/4	487.92	1/4	155.40	1/4	1/4		1/4		1/4
1/2	2,301.71	1/2	1,941.88	1/2	1,576.37	1/2	1,210.57	1/2	845.16	1/2	480.52	1/2	149.04	1/2	1/2		1/2		1/2
3/4	2,294.09	3/4	1,934.30	3/4	1,568.75	3/4	1,202.95	3/4	837.56	3/4	473.12	3/4	142.67	3/4	3/4		3/4		3/4
5	2,286.47	5	1,926.71	5	1,561.13	5	1,195.33	5	829.95	5	465.71	5	136.31	5	5		5		5
1/4	2,278.85	1/4	1,919.13	1/4	1,553.51	1/4	1,187.71	1/4	822.34	1/4	458.31	1/4	129.94	1/4	1/4		1/4		1/4
1/2	2,271.23	1/2	1,911.54	1/2	1,545.89	1/2	1,180.09	1/2	814.74	1/2	450.99	1/2	123.66	1/2	1/2		1/2		1/2
3/4	2,263.61	3/4	1,903.96	3/4	1,538.27	3/4	1,172.47	3/4	807.13	3/4	443.67	3/4	117.39	3/4	3/4		3/4		3/4
6	2,255.99	6	1,896.37	6	1,530.65	6	1,164.85	6	799.52	6	436.36	6	111.11	6	6		6		6
1/4	2,248.37	1/4	1,888.78	1/4	1,523.03	1/4	1,157.23	1/4	791.91	1/4	429.04	1/4	104.83	1/4	1/4		1/4		1/4
1/2	2,240.75	1/2	1,881.17	1/2	1,515.41	1/2	1,149.61	1/2	784.30	1/2	421.81	1/2	98.65	1/2	1/2		1/2		1/2
3/4	2,233.13	3/4	1,873.56	3/4	1,507.79	3/4	1,141.99	3/4	776.68	3/4	414.58	3/4	92.47	3/4	3/4		3/4		3/4
7	2,225.51	7	1,865.95	7	1,500.16	7	1,134.37	7	769.06	7	407.35	7	86.29	7	7		7		7
1/4	2,217.89	1/4	1,858.34	1/4	1,492.54	1/4	1,126.75	1/4	761.45	1/4	400.12	1/4	80.10	1/4	1/4		1/4		1/4
1/2	2,210.27	1/2	1,850.72	1/2	1,484.92	1/2	1,119.12	1/2	753.82	1/2	392.97	1/2	74.03	1/2	1/2		1/2		1/2
3/4	2,202.65	3/4	1,843.10	3/4	1,477.30	3/4	1,111.50	3/4	746.20	3/4	385.83	3/4	67.95	3/4	3/4		3/4		3/4
8	2,195.03	8	1,835.48	8	1,469.68	8	1,103.88	8	738.58	8	378.68	8	61.88	8	8		8		8
1/4	2,187.42	1/4	1,827.86	1/4	1,462.06	1/4	1,096.26	1/4	730.96	1/4	371.54	1/4	55.81	1/4	1/4		1/4		1/4
1/2	2,179.80	1/2	1,820.24	1/2	1,454.44	1/2	1,088.65	1/2	723.34	1/2	364.48	1/2	50.51	1/2	1/2		1/2		1/2
3/4	2,172.18	3/4	1,812.62	3/4	1,446.82	3/4	1,081.03	3/4	715.72	3/4	357.42	3/4	45.22	3/4	3/4		3/4		3/4
9	2,164.56	9	1,805.00	9	1,439.20	9	1,073.41	9	708.10	9	350.37	9	39.93	9	9		9		9
1/4	2,156.94	1/4	1,797.38	1/4	1,431.58	1/4	1,065.80	1/4	700.48	1/4	343.31	1/4	34.63	1/4	1/4		1/4		1/4
1/2	2,149.32	1/2	1,789.75	1/2	1,423.96	1/2	1,058.18	1/2	692.86	1/2	336.34	1/2	30.75	1/2	1/2		1/2		1/2
3/4	2,141.70	3/4	1,782.13	3/4	1,416.34	3/4	1,050.57	3/4	685.24	3/4	329.37	3/4	26.87	3/4	3/4		3/4		3/4
10	2,134.08	10	1,774.51	10	1,408.71	10	1,042.96	10	677.62	10	322.40	10	22.99	10	10		10		10
1/4	2,126.46	1/4	1,766.89	1/4	1,401.09	1/4	1,035.34	1/4	670.00	1/4	315.42	1/4	19.10	1/4	1/4		1/4		1/4
1/2	2,118.84	1/2	1,759.27	1/2	1,393.47	1/2	1,027.73	1/2	662.38	1/2	308.54	1/2		1/2	1/2		1/2		1/2
3/4	2,111.22	3/4	1,751.65	3/4	1,385.85	3/4	1,020.12	3/4	654.76	3/4	301.66	3/4		3/4	3/4		3/4		3/4
11	2,103.60	11	1,744.03	11	1,378.23	11	1,012.52	11	647.14	11	294.77	11		11	11		11		11
1/4	2,095.98	1/4	1,736.41	1/4	1,370.61	1/4	1,004.91	1/4	639.52	1/4	287.89	1/4		1/4	1/4		1/4		1/4
1/2	2,088.36	1/2	1,728.79	1/2	1,362.99	1/2	997.30	1/2	631.90	1/2	281.09	1/2		1/2	1/2		1/2		1/2
3/4	2,080.75	3/4	1,721.17	3/4	1,355.37	3/4	989.69	3/4	624.28	3/4	274.29	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 PMA
RECALCULATED: 09/26/2019 PMA
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

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



BARGE "KIRBY 27731"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

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
1/4		1/4		1/4		1/4	4,686.05	1/4	4,378.17	1/4	4,050.45	1/4	3,707.52	1/4	3,363.62	1/4	3,019.72	1/4	2,675.72
1/2		1/2		1/2		1/2	4,679.62	1/2	4,371.54	1/2	4,043.40	1/2	3,700.36	1/2	3,356.46	1/2	3,012.56	1/2	2,668.55
3/4		3/4		3/4		3/4	4,673.18	3/4	4,364.91	3/4	4,036.36	3/4	3,693.19	3/4	3,349.29	3/4	3,005.39	3/4	2,661.39
1		1		1		1	4,666.75	1	4,358.27	1	4,029.31	1	3,686.03	1	3,342.13	1	2,998.23	1	2,654.22
1/4		1/4		1/4		1/4	4,660.52	1/4	4,351.61	1/4	4,022.23	1/4	3,678.86	1/4	3,334.96	1/4	2,991.06	1/4	2,647.05
1/2		1/2		1/2		1/2	4,654.29	1/2	4,344.95	1/2	4,015.14	1/2	3,671.70	1/2	3,327.80	1/2	2,983.90	1/2	2,639.88
3/4		3/4		3/4		3/4	4,648.05	3/4	4,338.28	3/4	4,008.06	3/4	3,664.53	3/4	3,320.63	3/4	2,976.73	3/4	2,632.71
2		2		2		2	4,641.82	2	4,331.62	2	4,000.98	2	3,657.37	2	3,313.47	2	2,969.57	2	2,625.54
1/4		1/4		1/4		1/4	4,635.56	1/4	4,324.92	1/4	3,993.87	1/4	3,650.20	1/4	3,306.30	1/4	2,962.40	1/4	2,618.37
1/2		1/2		1/2		1/2	4,629.30	1/2	4,318.23	1/2	3,986.75	1/2	3,643.04	1/2	3,299.14	1/2	2,955.24	1/2	2,611.21
3/4		3/4		3/4		3/4	4,623.04	3/4	4,311.53	3/4	3,979.64	3/4	3,635.88	3/4	3,291.97	3/4	2,948.07	3/4	2,604.04
3		3		3		3	4,616.78	3	4,304.84	3	3,972.53	3	3,628.71	3	3,284.81	3	2,940.91	3	2,596.87
1/4		1/4		1/4		1/4	4,610.48	1/4	4,298.11	1/4	3,965.38	1/4	3,621.55	1/4	3,277.65	1/4	2,933.74	1/4	2,589.70
1/2		1/2		1/2		1/2	4,604.19	1/2	4,291.38	1/2	3,958.24	1/2	3,614.38	1/2	3,270.48	1/2	2,926.58	1/2	2,582.53
3/4		3/4		3/4		3/4	4,597.89	3/4	4,284.66	3/4	3,951.09	3/4	3,607.22	3/4	3,263.32	3/4	2,919.42	3/4	2,575.36
4		4		4		4	4,591.59	4	4,277.93	4	3,943.95	4	3,600.05	4	3,256.15	4	2,912.25	4	2,568.19
1/4		1/4		1/4		1/4	4,585.26	1/4	4,271.17	1/4	3,936.78	1/4	3,592.89	1/4	3,248.99	1/4	2,905.09	1/4	2,561.02
1/2		1/2		1/2		1/2	4,578.93	1/2	4,264.41	1/2	3,929.62	1/2	3,585.72	1/2	3,241.82	1/2	2,897.92	1/2	2,553.86
3/4		3/4		3/4		3/4	4,572.60	3/4	4,257.65	3/4	3,922.46	3/4	3,578.56	3/4	3,234.66	3/4	2,890.76	3/4	2,546.69
5		5		5		5	4,566.27	5	4,250.89	5	3,915.29	5	3,571.39	5	3,227.49	5	2,883.59	5	2,539.52
1/4		1/4		1/4		1/4	4,559.91	1/4	4,244.10	1/4	3,908.13	1/4	3,564.23	1/4	3,220.33	1/4	2,876.43	1/4	2,532.35
1/2		1/2		1/2		1/2	4,553.54	1/2	4,237.31	1/2	3,900.97	1/2	3,557.06	1/2	3,213.16	1/2	2,869.26	1/2	2,525.18
3/4		3/4		3/4		3/4	4,547.18	3/4	4,230.52	3/4	3,893.80	3/4	3,549.90	3/4	3,206.00	3/4	2,862.10	3/4	2,518.01
6		6		6		6	4,540.82	6	4,223.73	6	3,886.64	6	3,542.74	6	3,198.83	6	2,854.93	6	2,510.84
1/4		1/4		1/4		1/4	4,534.42	1/4	4,216.90	1/4	3,879.47	1/4	3,535.57	1/4	3,191.67	1/4	2,847.77	1/4	2,503.67
1/2		1/2		1/2		1/2	4,528.03	1/2	4,210.07	1/2	3,872.31	1/2	3,528.41	1/2	3,184.51	1/2	2,840.60	1/2	2,496.51
3/4		3/4		3/4		3/4	4,521.63	3/4	4,203.25	3/4	3,865.14	3/4	3,521.24	3/4	3,177.34	3/4	2,833.43	3/4	2,489.34
7		7		7	4,829.62	7	4,515.24	7	4,196.42	7	3,857.98	7	3,514.08	7	3,170.18	7	2,826.27	7	2,482.17
1/4		1/4		1/4	4,823.59	1/4	4,508.81	1/4	4,189.54	1/4	3,850.81	1/4	3,506.91	1/4	3,163.01	1/4	2,819.10	1/4	2,475.00
1/2		1/2		1/2	4,817.55	1/2	4,502.39	1/2	4,182.66	1/2	3,843.65	1/2	3,499.75	1/2	3,155.85	1/2	2,811.93	1/2	2,467.83
3/4		3/4		3/4	4,811.52	3/4	4,495.96	3/4	4,175.78	3/4	3,836.48	3/4	3,492.58	3/4	3,148.68	3/4	2,804.76	3/4	2,460.66
8		8		8	4,805.49	8	4,489.54	8	4,168.90	8	3,829.32	8	3,485.42	8	3,141.52	8	2,797.59	8	2,453.49
1/4		1/4		1/4	4,798.56	1/4	4,483.05	1/4	4,161.99	1/4	3,822.15	1/4	3,478.25	1/4	3,134.35	1/4	2,790.42	1/4	2,446.33
1/2		1/2		1/2	4,791.63	1/2	4,476.56	1/2	4,155.07	1/2	3,814.99	1/2	3,471.09	1/2	3,127.19	1/2	2,783.25	1/2	2,439.16
3/4		3/4		3/4	4,784.70	3/4	4,470.07	3/4	4,148.16	3/4	3,807.83	3/4	3,463.92	3/4	3,120.02	3/4	2,776.09	3/4	2,431.99
9		9		9	4,777.77	9	4,463.59	9	4,141.24	9	3,800.66	9	3,456.76	9	3,112.86	9	2,768.92	9	2,424.82
1/4		1/4		1/4	4,770.66	1/4	4,457.06	1/4	4,134.30	1/4	3,793.50	1/4	3,449.60	1/4	3,105.69	1/4	2,761.75	1/4	2,417.65
1/2		1/2		1/2	4,763.55	1/2	4,450.53	1/2	4,127.35	1/2	3,786.33	1/2	3,442.43	1/2	3,098.53	1/2	2,754.58	1/2	2,410.48
3/4		3/4		3/4	4,756.45	3/4	4,444.00	3/4	4,120.40	3/4	3,779.17	3/4	3,435.27	3/4	3,091.37	3/4	2,747.41	3/4	2,403.31
10		10		10	4,749.34	10	4,437.47	10	4,113.46	10	3,772.00	10	3,428.10	10	3,084.20	10	2,740.24	10	2,396.14
1/4		1/4		1/4	4,742.23	1/4	4,430.90	1/4	4,106.48	1/4	3,764.84	1/4	3,420.94	1/4	3,077.04	1/4	2,733.07	1/4	2,388.98
1/2		1/2		1/2	4,735.12	1/2	4,424.34	1/2	4,099.50	1/2	3,757.67	1/2	3,413.77	1/2	3,069.87	1/2	2,725.90	1/2	2,381.81
3/4		3/4		3/4	4,728.02	3/4	4,417.77	3/4	4,092.52	3/4	3,750.51	3/4	3,406.61	3/4	3,062.71	3/4	2,718.74	3/4	2,374.64
11		11		11	4,720.91	11	4,411.20	11	4,085.54	11	3,743.34	11	3,399.44	11	3,055.54	11	2,711.57	11	2,367.47
1/4		1/4		1/4	4,713.80	1/4	4,404.60	1/4	4,078.53	1/4	3,736.18	1/4	3,392.28	1/4	3,048.38	1/4	2,704.40	1/4	2,360.30
1/2		1/2		1/2	4,706.70	1/2	4,398.00	1/2	4,071.52	1/2	3,729.02	1/2	3,385.11	1/2	3,041.21	1/2	2,697.23	1/2	2,353.13
3/4		3/4		3/4	4,699.59	3/4	4,391.40	3/4	4,064.51	3/4	3,721.85	3/4	3,377.95	3/4	3,034.05	3/4	2,690.06	3/4	2,345.96

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 40'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 27731"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

GAUGE HEIGHT 16'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,338.79	0	1,994.70	0	1,656.40	0	1,312.24	0	974.85	0	638.30	0	294.14	0		0		0	
1/4	2,331.63	1/4	1,987.53	1/4	1,649.23	1/4	1,305.07	1/4	967.98	1/4	631.13	1/4	286.97	1/4	1/4	1/4		1/4	
1/2	2,324.46	1/2	1,980.36	1/2	1,642.06	1/2	1,297.90	1/2	961.11	1/2	623.96	1/2	279.80	1/2	1/2	1/2		1/2	
3/4	2,317.29	3/4	1,973.19	3/4	1,634.89	3/4	1,290.73	3/4	954.25	3/4	616.79	3/4	272.63	3/4	3/4	3/4		3/4	
1	2,310.12	1	1,966.02	1	1,627.72	1	1,283.56	1	947.38	1	609.62	1	265.46	1	1	1		1	
1/4	2,302.95	1/4	1,959.36	1/4	1,620.55	1/4	1,276.39	1/4	940.52	1/4	602.45	1/4	258.29	1/4	1/4	1/4		1/4	
1/2	2,295.78	1/2	1,952.70	1/2	1,613.38	1/2	1,269.22	1/2	933.65	1/2	595.28	1/2	251.12	1/2	1/2	1/2		1/2	
3/4	2,288.61	3/4	1,946.04	3/4	1,606.21	3/4	1,262.05	3/4	926.79	3/4	588.11	3/4	243.95	3/4	3/4	3/4		3/4	
2	2,281.45	2	1,939.38	2	1,599.04	2	1,254.88	2	919.92	2	580.94	2	236.78	2	2	2		2	
1/4	2,274.28	1/4	1,932.89	1/4	1,591.87	1/4	1,247.71	1/4	913.05	1/4	573.77	1/4	229.61	1/4	1/4	1/4		1/4	
1/2	2,267.11	1/2	1,926.40	1/2	1,584.70	1/2	1,240.54	1/2	906.19	1/2	566.60	1/2	222.44	1/2	1/2	1/2		1/2	
3/4	2,259.94	3/4	1,919.91	3/4	1,577.53	3/4	1,233.37	3/4	899.32	3/4	559.43	3/4	215.27	3/4	3/4	3/4		3/4	
3	2,252.77	3	1,913.42	3	1,570.36	3	1,226.20	3	892.46	3	552.26	3	208.10	3	3	3		3	
1/4	2,245.60	1/4	1,906.45	1/4	1,563.19	1/4	1,219.03	1/4	885.59	1/4	545.09	1/4	200.93	1/4	1/4	1/4		1/4	
1/2	2,238.43	1/2	1,899.48	1/2	1,556.02	1/2	1,211.86	1/2	878.73	1/2	537.92	1/2	193.76	1/2	1/2	1/2		1/2	
3/4	2,231.26	3/4	1,892.50	3/4	1,548.85	3/4	1,204.69	3/4	871.86	3/4	530.75	3/4	186.59	3/4	3/4	3/4		3/4	
4	2,224.10	4	1,885.53	4	1,541.68	4	1,197.52	4	865.00	4	523.58	4	179.42	4	4	4		4	
1/4	2,216.93	1/4	1,878.39	1/4	1,534.51	1/4	1,190.35	1/4	858.13	1/4	516.41	1/4	172.25	1/4	1/4	1/4		1/4	
1/2	2,209.76	1/2	1,871.26	1/2	1,527.34	1/2	1,183.18	1/2	851.26	1/2	509.24	1/2	165.08	1/2	1/2	1/2		1/2	
3/4	2,202.59	3/4	1,864.12	3/4	1,520.17	3/4	1,176.01	3/4	844.40	3/4	502.07	3/4	157.91	3/4	3/4	3/4		3/4	
5	2,195.42	5	1,856.99	5	1,513.00	5	1,168.84	5	837.53	5	494.90	5	150.74	5	5	5		5	
1/4	2,188.25	1/4	1,849.86	1/4	1,505.83	1/4	1,161.67	1/4	830.67	1/4	487.73	1/4	143.58	1/4	1/4	1/4		1/4	
1/2	2,181.08	1/2	1,842.72	1/2	1,498.66	1/2	1,154.50	1/2	823.80	1/2	480.56	1/2	136.41	1/2	1/2	1/2		1/2	
3/4	2,173.91	3/4	1,835.59	3/4	1,491.49	3/4	1,147.33	3/4	816.94	3/4	473.39	3/4	129.24	3/4	3/4	3/4		3/4	
6	2,166.75	6	1,828.45	6	1,484.32	6	1,140.16	6	810.07	6	466.22	6	122.07	6	6	6		6	
1/4	2,159.58	1/4	1,821.29	1/4	1,477.15	1/4	1,133.20	1/4	802.98	1/4	459.05	1/4	114.91	1/4	1/4	1/4		1/4	
1/2	2,152.41	1/2	1,814.13	1/2	1,469.98	1/2	1,126.24	1/2	795.88	1/2	451.88	1/2	107.74	1/2	1/2	1/2		1/2	
3/4	2,145.24	3/4	1,806.97	3/4	1,462.81	3/4	1,119.28	3/4	788.79	3/4	444.71	3/4	100.58	3/4	3/4	3/4		3/4	
7	2,138.07	7	1,799.80	7	1,455.64	7	1,112.32	7	781.70	7	437.54	7	93.42	7	7	7		7	
1/4	2,130.90	1/4	1,792.63	1/4	1,448.47	1/4	1,105.44	1/4	774.53	1/4	430.37	1/4	86.28	1/4	1/4	1/4		1/4	
1/2	2,123.73	1/2	1,785.46	1/2	1,441.30	1/2	1,098.55	1/2	767.36	1/2	423.20	1/2	79.14	1/2	1/2	1/2		1/2	
3/4	2,116.57	3/4	1,778.29	3/4	1,434.13	3/4	1,091.66	3/4	760.19	3/4	416.03	3/4	72.00	3/4	3/4	3/4		3/4	
8	2,109.40	8	1,771.12	8	1,426.96	8	1,084.78	8	753.02	8	408.86	8	64.86	8	8	8		8	
1/4	2,102.23	1/4	1,763.95	1/4	1,419.79	1/4	1,077.90	1/4	745.85	1/4	401.69	1/4	58.37	1/4	1/4	1/4		1/4	
1/2	2,095.06	1/2	1,756.78	1/2	1,412.62	1/2	1,071.02	1/2	738.68	1/2	394.52	1/2	51.88	1/2	1/2	1/2		1/2	
3/4	2,087.89	3/4	1,749.61	3/4	1,405.45	3/4	1,064.15	3/4	731.51	3/4	387.35	3/4	45.39	3/4	3/4	3/4		3/4	
9	2,080.72	9	1,742.44	9	1,398.28	9	1,057.27	9	724.34	9	380.18	9	38.90	9	9	9		9	
1/4	2,073.55	1/4	1,735.27	1/4	1,391.11	1/4	1,050.40	1/4	717.17	1/4	373.01	1/4	33.98	1/4	1/4	1/4		1/4	
1/2	2,066.38	1/2	1,728.10	1/2	1,383.94	1/2	1,043.52	1/2	710.00	1/2	365.84	1/2	29.05	1/2	1/2	1/2		1/2	
3/4	2,059.22	3/4	1,720.93	3/4	1,376.77	3/4	1,036.65	3/4	702.83	3/4	358.67	3/4	24.12	3/4	3/4	3/4		3/4	
10	2,052.05	10	1,713.76	10	1,369.60	10	1,029.78	10	695.66	10	351.50	10	19.19	10	10	10		10	
1/4	2,044.88	1/4	1,706.59	1/4	1,362.43	1/4	1,022.91	1/4	688.49	1/4	344.33	1/4		1/4	1/4	1/4		1/4	
1/2	2,037.71	1/2	1,699.42	1/2	1,355.26	1/2	1,016.04	1/2	681.32	1/2	337.16	1/2		1/2	1/2	1/2		1/2	
3/4	2,030.54	3/4	1,692.25	3/4	1,348.09	3/4	1,009.18	3/4	674.15	3/4	329.99	3/4		3/4	3/4	3/4		3/4	
11	2,023.37	11	1,685.08	11	1,340.92	11	1,002.31	11	666.98	11	322.82	11		11	11	11		11	
1/4	2,016.20	1/4	1,677.91	1/4	1,333.75	1/4	995.44	1/4	659.81	1/4	315.65	1/4		1/4	1/4	1/4		1/4	
1/2	2,009.03	1/2	1,670.74	1/2	1,326.58	1/2	988.58	1/2	652.64	1/2	308.48	1/2		1/2	1/2	1/2		1/2	
3/4	2,001.87	3/4	1,663.57	3/4	1,319.41	3/4	981.71	3/4	645.47	3/4	301.31	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 PMA
RECALCULATED: 09/26/2019 PMA
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

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



BARGE "KIRBY 27731"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

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		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,707.66	0	4,399.86	0	4,072.47	0	3,729.57	0	3,385.58	0	3,041.59	0	2,697.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,701.22	1/4	4,393.23	1/4	4,065.42	1/4	3,722.40	1/4	3,378.41	1/4	3,034.42	1/4	2,690.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,694.78	1/2	4,386.60	1/2	4,058.37	1/2	3,715.24	1/2	3,371.25	1/2	3,027.25	1/2	2,683.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,688.35	3/4	4,379.96	3/4	4,051.32	3/4	3,708.07	3/4	3,364.08	3/4	3,020.09	3/4	2,675.99		
1	1	1	1	1	1	1	4,681.91	1	4,373.33	1	4,044.27	1	3,700.90	1	3,356.91	1	3,012.92	1	2,668.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,675.68	1/4	4,366.66	1/4	4,037.18	1/4	3,693.74	1/4	3,349.75	1/4	3,005.75	1/4	2,661.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,669.45	1/2	4,360.00	1/2	4,030.10	1/2	3,686.57	1/2	3,342.58	1/2	2,998.59	1/2	2,654.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,663.21	3/4	4,353.33	3/4	4,023.01	3/4	3,679.41	3/4	3,335.41	3/4	2,991.42	3/4	2,647.31		
2	2	2	2	2	2	2	4,656.98	2	4,346.66	2	4,015.93	2	3,672.24	2	3,328.25	2	2,984.25	2	2,640.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,650.71	1/4	4,339.97	1/4	4,008.82	1/4	3,665.07	1/4	3,321.08	1/4	2,977.09	1/4	2,632.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,644.45	1/2	4,333.27	1/2	4,001.70	1/2	3,657.91	1/2	3,313.91	1/2	2,969.92	1/2	2,625.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,638.19	3/4	4,326.57	3/4	3,994.59	3/4	3,650.74	3/4	3,306.75	3/4	2,962.76	3/4	2,618.63		
3	3	3	3	3	3	3	4,631.93	3	4,319.87	3	3,987.47	3	3,643.57	3	3,299.58	3	2,955.59	3	2,611.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,625.63	1/4	4,313.14	1/4	3,980.32	1/4	3,636.41	1/4	3,292.41	1/4	2,948.42	1/4	2,604.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,619.33	1/2	4,306.42	1/2	3,973.18	1/2	3,629.24	1/2	3,285.25	1/2	2,941.26	1/2	2,597.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,613.03	3/4	4,299.69	3/4	3,966.03	3/4	3,622.07	3/4	3,278.08	3/4	2,934.09	3/4	2,589.95		
4	4	4	4	4	4	4	4,606.73	4	4,292.96	4	3,958.88	4	3,614.91	4	3,270.91	4	2,926.92	4	2,582.77		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,600.39	1/4	4,286.20	1/4	3,951.72	1/4	3,607.74	1/4	3,263.75	1/4	2,919.76	1/4	2,575.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,594.06	1/2	4,279.44	1/2	3,944.56	1/2	3,600.57	1/2	3,256.58	1/2	2,912.59	1/2	2,568.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,587.73	3/4	4,272.67	3/4	3,937.40	3/4	3,593.41	3/4	3,249.42	3/4	2,905.42	3/4	2,561.26		
5	5	5	5	5	5	5	4,581.39	5	4,265.91	5	3,930.23	5	3,586.24	5	3,242.25	5	2,898.26	5	2,554.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,575.03	1/4	4,259.12	1/4	3,923.07	1/4	3,579.07	1/4	3,235.08	1/4	2,891.09	1/4	2,546.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,568.66	1/2	4,252.33	1/2	3,915.90	1/2	3,571.91	1/2	3,227.92	1/2	2,883.92	1/2	2,539.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,562.30	3/4	4,245.53	3/4	3,908.73	3/4	3,564.74	3/4	3,220.75	3/4	2,876.76	3/4	2,532.58		
6	6	6	6	6	6	6	4,555.93	6	4,238.74	6	3,901.57	6	3,557.57	6	3,213.58	6	2,869.59	6	2,525.41		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,549.54	1/4	4,231.91	1/4	3,894.40	1/4	3,550.41	1/4	3,206.42	1/4	2,862.42	1/4	2,518.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,543.14	1/2	4,225.08	1/2	3,887.23	1/2	3,543.24	1/2	3,199.25	1/2	2,855.25	1/2	2,511.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,536.74	3/4	4,218.25	3/4	3,880.07	3/4	3,536.08	3/4	3,192.08	3/4	2,848.08	3/4	2,503.90		
7	7	7	4,844.82	7	4,530.35	7	4,211.42	7	3,872.90	7	3,528.91	7	3,184.92	7	2,840.91	7	2,496.73				
1/4	1/4	1/4	4,838.79	1/4	4,523.92	1/4	4,204.54	1/4	3,865.73	1/4	3,521.74	1/4	3,177.75	1/4	2,833.74	1/4	2,489.56				
1/2	1/2	1/2	4,832.75	1/2	4,517.49	1/2	4,197.66	1/2	3,858.57	1/2	3,514.58	1/2	3,170.58	1/2	2,826.57	1/2	2,482.39				
3/4	3/4	3/4	4,826.72	3/4	4,511.06	3/4	4,190.78	3/4	3,851.40	3/4	3,507.41	3/4	3,163.42	3/4	2,819.40	3/4	2,475.22				
8	8	8	4,820.69	8	4,504.63	8	4,183.90	8	3,844.23	8	3,500.24	8	3,156.25	8	2,812.23	8	2,468.05				
1/4	1/4	1/4	4,813.76	1/4	4,498.15	1/4	4,176.98	1/4	3,837.07	1/4	3,493.08	1/4	3,149.08	1/4	2,805.06	1/4	2,460.88				
1/2	1/2	1/2	4,806.83	1/2	4,491.66	1/2	4,170.07	1/2	3,829.90	1/2	3,485.91	1/2	3,141.92	1/2	2,797.89	1/2	2,453.71				
3/4	3/4	3/4	4,799.90	3/4	4,485.17	3/4	4,163.15	3/4	3,822.74	3/4	3,478.74	3/4	3,134.75	3/4	2,790.72	3/4	2,446.54				
9	9	9	4,792.96	9	4,478.68	9	4,156.23	9	3,815.57	9	3,471.58	9	3,127.58	9	2,783.55	9	2,439.36				
1/4	1/4	1/4	4,785.86	1/4	4,472.14	1/4	4,149.28	1/4	3,808.40	1/4	3,464.41	1/4	3,120.42	1/4	2,776.38	1/4	2,432.19				
1/2	1/2	1/2	4,778.75	1/2	4,465.61	1/2	4,142.33	1/2	3,801.24	1/2	3,457.24	1/2	3,113.25	1/2	2,769.21	1/2	2,425.02				
3/4	3/4	3/4	4,771.64	3/4	4,459.08	3/4	4,135.38	3/4	3,794.07	3/4	3,450.08	3/4	3,106.09	3/4	2,762.04	3/4	2,417.85				
10	10	10	4,764.53	10	4,452.55	10	4,128.44	10	3,786.90	10	3,442.91	10	3,098.92	10	2,754.87	10	2,410.68				
1/4	1/4	1/4	4,757.42	1/4	4,445.98	1/4	4,121.46	1/4	3,779.74	1/4	3,435.74	1/4	3,091.75	1/4	2,747.70	1/4	2,403.51				
1/2	1/2	1/2	4,750.31	1/2	4,439.41	1/2	4,114.47	1/2	3,772.57	1/2	3,428.58	1/2	3,084.59	1/2	2,740.53	1/2	2,396.34				
3/4	3/4	3/4	4,743.20	3/4	4,432.84	3/4	4,107.49	3/4	3,765.40	3/4	3,421.41	3/4	3,077.42	3/4	2,733.36	3/4	2,389.17				
11	11	11	4,736.09	11	4,426.28	11	4,100.51	11	3,758.24	11	3,414.24	11	3,070.25	11	2,726.18	11	2,382.00				
1/4	1/4	1/4	4,728.98	1/4	4,419.67	1/4	4,093.50	1/4	3,751.07	1/4	3,407.08	1/4	3,063.09	1/4	2,719.01	1/4	2,374.83				
1/2	1/2	1/2	4,721.87	1/2	4,413.07	1/2	4,086.49	1/2	3,743.90	1/2	3,399.91	1/2	3,055.92	1/2	2,711.84	1/2	2,367.66				
3/4	3/4	3/4	4,714.76	3/4	4,406.47	3/4	4,079.48	3/4	3,736.74	3/4	3,392.75	3/4	3,048.75	3/4	2,704.67	3/4	2,360.49				

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 27731"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

GAUGE HEIGHT 16'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,353.32	0	2,009.13	0	1,670.75	0	1,326.50	0	982.38	0	638.45	0	294.21	0		0		0	
1/4	2,346.15	1/4	2,001.96	1/4	1,663.57	1/4	1,319.32	1/4	975.22	1/4	631.28	1/4	287.04	1/4	1/4	1/4		1/4	1/4
1/2	2,338.98	1/2	1,994.79	1/2	1,656.40	1/2	1,312.15	1/2	968.06	1/2	624.11	1/2	279.87	1/2	1/2	1/2		1/2	1/2
3/4	2,331.81	3/4	1,987.62	3/4	1,649.23	3/4	1,304.98	3/4	960.90	3/4	616.94	3/4	272.70	3/4	3/4	3/4		3/4	3/4
1	2,324.64	1	1,980.45	1	1,642.06	1	1,297.81	1	953.74	1	609.77	1	265.52	1	1	1		1	1
1/4	2,317.47	1/4	1,973.79	1/4	1,634.89	1/4	1,290.64	1/4	946.58	1/4	602.59	1/4	258.35	1/4	1/4	1/4		1/4	1/4
1/2	2,310.30	1/2	1,967.13	1/2	1,627.72	1/2	1,283.46	1/2	939.43	1/2	595.42	1/2	251.18	1/2	1/2	1/2		1/2	1/2
3/4	2,303.13	3/4	1,960.47	3/4	1,620.54	3/4	1,276.29	3/4	932.27	3/4	588.25	3/4	244.01	3/4	3/4	3/4		3/4	3/4
2	2,295.95	2	1,953.80	2	1,613.37	2	1,269.12	2	925.11	2	581.08	2	236.84	2	2	2		2	2
1/4	2,288.78	1/4	1,947.31	1/4	1,606.20	1/4	1,261.95	1/4	917.95	1/4	573.91	1/4	229.67	1/4	1/4	1/4		1/4	1/4
1/2	2,281.61	1/2	1,940.82	1/2	1,599.03	1/2	1,254.78	1/2	910.79	1/2	566.74	1/2	222.49	1/2	1/2	1/2		1/2	1/2
3/4	2,274.44	3/4	1,934.33	3/4	1,591.86	3/4	1,247.60	3/4	903.63	3/4	559.56	3/4	215.32	3/4	3/4	3/4		3/4	3/4
3	2,267.27	3	1,927.84	3	1,584.68	3	1,240.43	3	896.47	3	552.39	3	208.15	3	3	3		3	3
1/4	2,260.10	1/4	1,920.86	1/4	1,577.51	1/4	1,233.26	1/4	889.31	1/4	545.22	1/4	200.98	1/4	1/4	1/4		1/4	1/4
1/2	2,252.93	1/2	1,913.88	1/2	1,570.34	1/2	1,226.09	1/2	882.15	1/2	538.05	1/2	193.81	1/2	1/2	1/2		1/2	1/2
3/4	2,245.76	3/4	1,906.91	3/4	1,563.17	3/4	1,218.92	3/4	874.99	3/4	530.88	3/4	186.64	3/4	3/4	3/4		3/4	3/4
4	2,238.59	4	1,899.93	4	1,556.00	4	1,211.75	4	867.84	4	523.71	4	179.46	4	4	4		4	4
1/4	2,231.42	1/4	1,892.80	1/4	1,548.82	1/4	1,204.57	1/4	860.68	1/4	516.53	1/4	172.29	1/4	1/4	1/4		1/4	1/4
1/2	2,224.25	1/2	1,885.66	1/2	1,541.65	1/2	1,197.40	1/2	853.52	1/2	509.36	1/2	165.12	1/2	1/2	1/2		1/2	1/2
3/4	2,217.08	3/4	1,878.52	3/4	1,534.48	3/4	1,190.23	3/4	846.36	3/4	502.19	3/4	157.95	3/4	3/4	3/4		3/4	3/4
5	2,209.91	5	1,871.39	5	1,527.31	5	1,183.06	5	839.20	5	495.02	5	150.78	5	5	5		5	5
1/4	2,202.74	1/4	1,864.25	1/4	1,520.14	1/4	1,175.89	1/4	832.04	1/4	487.85	1/4	143.61	1/4	1/4	1/4		1/4	1/4
1/2	2,195.57	1/2	1,857.11	1/2	1,512.97	1/2	1,168.71	1/2	824.88	1/2	480.68	1/2	136.44	1/2	1/2	1/2		1/2	1/2
3/4	2,188.40	3/4	1,849.98	3/4	1,505.79	3/4	1,161.54	3/4	817.72	3/4	473.50	3/4	129.26	3/4	3/4	3/4		3/4	3/4
6	2,181.23	6	1,842.84	6	1,498.62	6	1,154.37	6	810.56	6	466.33	6	122.09	6	6	6		6	6
1/4	2,174.06	1/4	1,835.68	1/4	1,491.45	1/4	1,147.20	1/4	803.39	1/4	459.16	1/4	114.93	1/4	1/4	1/4		1/4	1/4
1/2	2,166.89	1/2	1,828.51	1/2	1,484.28	1/2	1,140.03	1/2	796.23	1/2	451.99	1/2	107.77	1/2	1/2	1/2		1/2	1/2
3/4	2,159.72	3/4	1,821.35	3/4	1,477.11	3/4	1,132.85	3/4	789.06	3/4	444.82	3/4	100.60	3/4	3/4	3/4		3/4	3/4
7	2,152.54	7	1,814.18	7	1,469.93	7	1,125.68	7	781.89	7	437.65	7	93.44	7	7	7		7	7
1/4	2,145.37	1/4	1,807.01	1/4	1,462.76	1/4	1,118.51	1/4	774.72	1/4	430.47	1/4	86.30	1/4	1/4	1/4		1/4	1/4
1/2	2,138.20	1/2	1,799.84	1/2	1,455.59	1/2	1,111.34	1/2	767.54	1/2	423.30	1/2	79.15	1/2	1/2	1/2		1/2	1/2
3/4	2,131.03	3/4	1,792.67	3/4	1,448.42	3/4	1,104.17	3/4	760.37	3/4	416.13	3/4	72.01	3/4	3/4	3/4		3/4	3/4
8	2,123.86	8	1,785.50	8	1,441.25	8	1,096.99	8	753.20	8	408.96	8	64.87	8	8	8		8	8
1/4	2,116.69	1/4	1,778.33	1/4	1,434.07	1/4	1,089.83	1/4	746.03	1/4	401.79	1/4	58.38	1/4	1/4	1/4		1/4	1/4
1/2	2,109.52	1/2	1,771.15	1/2	1,426.90	1/2	1,082.66	1/2	738.86	1/2	394.62	1/2	51.89	1/2	1/2	1/2		1/2	1/2
3/4	2,102.35	3/4	1,763.98	3/4	1,419.73	3/4	1,075.49	3/4	731.68	3/4	387.44	3/4	45.40	3/4	3/4	3/4		3/4	3/4
9	2,095.18	9	1,756.81	9	1,412.56	9	1,068.32	9	724.51	9	380.27	9	38.91	9	9	9		9	9
1/4	2,088.01	1/4	1,749.64	1/4	1,405.39	1/4	1,061.16	1/4	717.34	1/4	373.10	1/4	33.98	1/4	1/4	1/4		1/4	1/4
1/2	2,080.84	1/2	1,742.47	1/2	1,398.21	1/2	1,053.99	1/2	710.17	1/2	365.93	1/2	29.05	1/2	1/2	1/2		1/2	1/2
3/4	2,073.67	3/4	1,735.29	3/4	1,391.04	3/4	1,046.82	3/4	703.00	3/4	358.76	3/4	24.12	3/4	3/4	3/4		3/4	3/4
10	2,066.50	10	1,728.12	10	1,383.87	10	1,039.66	10	695.83	10	351.58	10	19.19	10	10	10		10	10
1/4	2,059.33	1/4	1,720.95	1/4	1,376.70	1/4	1,032.50	1/4	688.65	1/4	344.41	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,052.16	1/2	1,713.78	1/2	1,369.53	1/2	1,025.34	1/2	681.48	1/2	337.24	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,044.99	3/4	1,706.61	3/4	1,362.36	3/4	1,018.18	3/4	674.31	3/4	330.07	3/4		3/4	3/4	3/4		3/4	3/4
11	2,037.82	11	1,699.43	11	1,355.18	11	1,011.02	11	667.14	11	322.90	11		11	11	11		11	11
1/4	2,030.65	1/4	1,692.26	1/4	1,348.01	1/4	1,003.86	1/4	659.97	1/4	315.73	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,023.48	1/2	1,685.09	1/2	1,340.84	1/2	996.70	1/2	652.80	1/2	308.55	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,016.31	3/4	1,677.92	3/4	1,333.67	3/4	989.54	3/4	645.62	3/4	301.38	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 PMA
RECALCULATED: 09/26/2019 PMA
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

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



BARGE "KIRBY 27731"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

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	4,337.07	0	4,162.49	0	3,976.46	0	3,781.74	0	3,551.58	0	3,189.32	0	2,826.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,333.42	1/4	4,158.72	1/4	3,972.45	1/4	3,777.67	1/4	3,544.04	1/4	3,181.76	1/4	2,818.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,329.78	1/2	4,154.96	1/2	3,968.45	1/2	3,773.60	1/2	3,536.50	1/2	3,174.20	1/2	2,811.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,326.13	3/4	4,151.19	3/4	3,964.45	3/4	3,769.53	3/4	3,528.95	3/4	3,166.64	3/4	2,803.66		
1		1		1		1	4,322.60	1	4,147.41	1	3,960.43	1	3,765.47	1	3,521.41	1	3,159.08	1	2,796.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,319.06	1/4	4,143.63	1/4	3,956.41	1/4	3,761.40	1/4	3,513.87	1/4	3,151.52	1/4	2,788.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,315.53	1/2	4,139.85	1/2	3,952.39	1/2	3,757.33	1/2	3,506.33	1/2	3,143.96	1/2	2,780.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,312.00	3/4	4,136.07	3/4	3,948.37	3/4	3,753.26	3/4	3,498.79	3/4	3,136.40	3/4	2,773.40		
2		2		2		2	4,308.45	2	4,132.27	2	3,944.33	2	3,749.19	2	3,491.25	2	3,128.84	2	2,765.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,304.90	1/4	4,128.47	1/4	3,940.29	1/4	3,745.13	1/4	3,483.71	1/4	3,121.28	1/4	2,758.28		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,301.35	1/2	4,124.67	1/2	3,936.25	1/2	3,741.06	1/2	3,476.17	1/2	3,113.72	1/2	2,750.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,297.81	3/4	4,120.87	3/4	3,932.21	3/4	3,736.99	3/4	3,468.63	3/4	3,106.16	3/4	2,743.15		
3		3		3		3	4,294.24	3	4,117.05	3	3,928.15	3	3,732.92	3	3,461.09	3	3,098.60	3	2,735.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,290.67	1/4	4,113.23	1/4	3,924.10	1/4	3,728.85	1/4	3,453.55	1/4	3,091.03	1/4	2,728.02		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,287.10	1/2	4,109.41	1/2	3,920.04	1/2	3,724.78	1/2	3,446.01	1/2	3,083.47	1/2	2,720.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,283.53	3/4	4,105.60	3/4	3,915.98	3/4	3,720.72	3/4	3,438.47	3/4	3,075.91	3/4	2,712.90		
4		4		4		4	4,279.94	4	4,101.76	4	3,911.92	4	3,716.65	4	3,430.93	4	3,068.35	4	2,705.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,276.35	1/4	4,097.93	1/4	3,907.85	1/4	3,712.58	1/4	3,423.39	1/4	3,060.79	1/4	2,697.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,272.76	1/2	4,094.09	1/2	3,903.78	1/2	3,708.51	1/2	3,415.85	1/2	3,053.23	1/2	2,690.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,269.18	3/4	4,090.25	3/4	3,899.72	3/4	3,704.44	3/4	3,408.31	3/4	3,045.67	3/4	2,682.64		
5		5		5		5	4,265.57	5	4,086.40	5	3,895.65	5	3,700.38	5	3,400.77	5	3,038.11	5	2,675.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,261.96	1/4	4,082.55	1/4	3,891.58	1/4	3,696.31	1/4	3,393.23	1/4	3,030.55	1/4	2,667.52		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,258.36	1/2	4,078.69	1/2	3,887.51	1/2	3,692.24	1/2	3,385.69	1/2	3,022.99	1/2	2,659.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,254.75	3/4	4,074.84	3/4	3,883.44	3/4	3,688.17	3/4	3,378.15	3/4	3,015.43	3/4	2,652.39		
6		6		6		6	4,251.13	6	4,070.96	6	3,879.38	6	3,684.10	6	3,370.61	6	3,007.87	6	2,644.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,247.50	1/4	4,067.09	1/4	3,875.31	1/4	3,680.03	1/4	3,363.07	1/4	3,000.30	1/4	2,637.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,243.88	1/2	4,063.21	1/2	3,871.24	1/2	3,675.97	1/2	3,355.53	1/2	2,992.74	1/2	2,629.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,240.25	3/4	4,059.34	3/4	3,867.17	3/4	3,671.90	3/4	3,347.99	3/4	2,985.18	3/4	2,622.11		
7		7		7		7	4,413.11	7	4,236.61	7	4,055.43	7	3,863.10	7	3,667.83	7	3,340.45	7	2,977.62	7	2,614.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,410.21	1/4	4,232.97	1/4	4,051.53	1/4	3,859.04	1/4	3,663.76	1/4	3,332.91	1/4	2,970.05	1/4	2,606.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,407.32	1/2	4,229.33	1/2	4,047.62	1/2	3,854.97	1/2	3,659.69	1/2	3,325.37	1/2	2,962.49	1/2	2,599.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,404.43	3/4	4,225.69	3/4	4,043.72	3/4	3,850.90	3/4	3,655.63	3/4	3,317.83	3/4	2,954.93	3/4	2,591.83
8		8		8		8	4,400.59	8	4,222.01	8	4,039.79	8	3,846.83	8	3,651.56	8	3,310.28	8	2,947.36	8	2,584.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,396.75	1/4	4,218.32	1/4	4,035.86	1/4	3,842.76	1/4	3,647.49	1/4	3,302.72	1/4	2,939.80	1/4	2,576.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,392.91	1/2	4,214.64	1/2	4,031.94	1/2	3,838.69	1/2	3,643.42	1/2	3,295.17	1/2	2,932.24	1/2	2,569.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,389.07	3/4	4,210.96	3/4	4,028.01	3/4	3,834.63	3/4	3,639.35	3/4	3,287.61	3/4	2,924.67	3/4	2,561.55
9		9		9		9	4,385.04	9	4,207.26	9	4,024.07	9	3,830.56	9	3,633.97	9	3,280.05	9	2,917.11	9	2,553.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,381.01	1/4	4,203.55	1/4	4,020.12	1/4	3,826.49	1/4	3,628.58	1/4	3,272.49	1/4	2,909.55	1/4	2,546.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,376.98	1/2	4,199.85	1/2	4,016.18	1/2	3,822.42	1/2	3,623.20	1/2	3,264.93	1/2	2,901.98	1/2	2,538.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,372.95	3/4	4,196.14	3/4	4,012.23	3/4	3,818.35	3/4	3,617.81	3/4	3,257.37	3/4	2,894.42	3/4	2,531.27
10		10		10		10	4,368.92	10	4,192.41	10	4,008.27	10	3,814.29	10	3,610.69	10	3,249.81	10	2,886.86	10	2,523.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,364.89	1/4	4,188.69	1/4	4,004.31	1/4	3,810.22	1/4	3,603.57	1/4	3,242.25	1/4	2,879.29	1/4	2,516.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,360.86	1/2	4,184.96	1/2	4,000.34	1/2	3,806.15	1/2	3,596.45	1/2	3,234.69	1/2	2,871.73	1/2	2,508.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,356.83	3/4	4,181.23	3/4	3,996.38	3/4	3,802.08	3/4	3,589.33	3/4	3,227.13	3/4	2,864.17	3/4	2,501.10
11		11		11		11	4,352.80	11	4,177.49	11	3,992.40	11	3,798.01	11	3,581.78	11	3,219.57	11	2,856.60	11	2,493.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,348.77	1/4	4,173.74	1/4	3,988.42	1/4	3,793.94	1/4	3,574.23	1/4	3,212.01	1/4	2,849.04	1/4	2,486.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,344.74	1/2	4,170.00	1/2	3,984.44	1/2	3,789.88	1/2	3,566.68	1/2	3,204.45	1/2	2,841.47	1/2	2,478.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,340.72	3/4	4,166.25	3/4	3,980.46	3/4	3,785.81	3/4	3,559.12	3/4	3,196.88	3/4	2,833.91	3/4	2,470.97

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 27731"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

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	2,463.44	0	2,102.48	0	1,746.71	0	1,383.24	0	1,025.07	0	667.01	0	303.38	0		0		0	
1/4	2,455.91	1/4	2,094.97	1/4	1,739.14	1/4	1,375.67	1/4	1,017.73	1/4	659.44	1/4	295.81	1/4	1/4		1/4		1/4
1/2	2,448.37	1/2	2,087.46	1/2	1,731.56	1/2	1,368.10	1/2	1,010.38	1/2	651.86	1/2	288.23	1/2	1/2		1/2		1/2
3/4	2,440.84	3/4	2,079.95	3/4	1,723.99	3/4	1,360.53	3/4	1,003.04	3/4	644.28	3/4	280.66	3/4	3/4		3/4		3/4
1	2,433.31	1	2,072.98	1	1,716.42	1	1,352.95	1	995.70	1	636.71	1	273.08	1	1		1		1
1/4	2,425.78	1/4	2,066.01	1/4	1,708.85	1/4	1,345.38	1/4	988.35	1/4	629.13	1/4	265.51	1/4	1/4		1/4		1/4
1/2	2,418.24	1/2	2,059.04	1/2	1,701.27	1/2	1,337.81	1/2	981.01	1/2	621.55	1/2	257.93	1/2	1/2		1/2		1/2
3/4	2,410.71	3/4	2,052.07	3/4	1,693.70	3/4	1,330.24	3/4	973.67	3/4	613.98	3/4	250.36	3/4	3/4		3/4		3/4
2	2,403.18	2	2,045.28	2	1,686.13	2	1,322.66	2	966.33	2	606.40	2	242.78	2	2		2		2
1/4	2,395.65	1/4	2,038.49	1/4	1,678.56	1/4	1,315.09	1/4	958.98	1/4	598.83	1/4	235.21	1/4	1/4		1/4		1/4
1/2	2,388.12	1/2	2,031.70	1/2	1,670.99	1/2	1,307.52	1/2	951.64	1/2	591.25	1/2	227.63	1/2	1/2		1/2		1/2
3/4	2,380.58	3/4	2,024.91	3/4	1,663.41	3/4	1,299.95	3/4	944.30	3/4	583.67	3/4	220.05	3/4	3/4		3/4		3/4
3	2,373.05	3	2,017.61	3	1,655.84	3	1,292.38	3	936.96	3	576.10	3	212.48	3	3		3		3
1/4	2,365.52	1/4	2,010.30	1/4	1,648.27	1/4	1,284.80	1/4	929.61	1/4	568.52	1/4	204.90	1/4	1/4		1/4		1/4
1/2	2,357.99	1/2	2,003.00	1/2	1,640.70	1/2	1,277.23	1/2	922.27	1/2	560.94	1/2	197.32	1/2	1/2		1/2		1/2
3/4	2,350.46	3/4	1,995.70	3/4	1,633.12	3/4	1,269.66	3/4	914.93	3/4	553.37	3/4	189.75	3/4	3/4		3/4		3/4
4	2,342.92	4	1,988.22	4	1,625.55	4	1,262.09	4	907.58	4	545.79	4	182.17	4	4		4		4
1/4	2,335.39	1/4	1,980.75	1/4	1,617.98	1/4	1,254.51	1/4	900.24	1/4	538.22	1/4	174.59	1/4	1/4		1/4		1/4
1/2	2,327.86	1/2	1,973.28	1/2	1,610.41	1/2	1,246.94	1/2	892.90	1/2	530.64	1/2	167.02	1/2	1/2		1/2		1/2
3/4	2,320.33	3/4	1,965.80	3/4	1,602.84	3/4	1,239.37	3/4	885.56	3/4	523.06	3/4	159.44	3/4	3/4		3/4		3/4
5	2,312.79	5	1,958.33	5	1,595.26	5	1,231.80	5	878.21	5	515.49	5	151.86	5	5		5		5
1/4	2,305.26	1/4	1,950.85	1/4	1,587.69	1/4	1,224.23	1/4	870.87	1/4	507.91	1/4	144.29	1/4	1/4		1/4		1/4
1/2	2,297.73	1/2	1,943.38	1/2	1,580.12	1/2	1,216.65	1/2	863.53	1/2	500.33	1/2	136.71	1/2	1/2		1/2		1/2
3/4	2,290.20	3/4	1,935.91	3/4	1,572.55	3/4	1,209.08	3/4	856.19	3/4	492.76	3/4	129.13	3/4	3/4		3/4		3/4
6	2,282.68	6	1,928.36	6	1,564.97	6	1,201.67	6	848.67	6	485.18	6	121.56	6	6		6		6
1/4	2,275.17	1/4	1,920.82	1/4	1,557.40	1/4	1,194.25	1/4	841.15	1/4	477.61	1/4	113.99	1/4	1/4		1/4		1/4
1/2	2,267.66	1/2	1,913.27	1/2	1,549.83	1/2	1,186.84	1/2	833.63	1/2	470.03	1/2	106.41	1/2	1/2		1/2		1/2
3/4	2,260.14	3/4	1,905.72	3/4	1,542.26	3/4	1,179.42	3/4	826.11	3/4	462.46	3/4	98.84	3/4	3/4		3/4		3/4
7	2,252.63	7	1,898.15	7	1,534.69	7	1,172.06	7	818.54	7	454.88	7	91.28	7	7		7		7
1/4	2,245.13	1/4	1,890.58	1/4	1,527.11	1/4	1,164.70	1/4	810.96	1/4	447.31	1/4	83.73	1/4	1/4		1/4		1/4
1/2	2,237.62	1/2	1,883.01	1/2	1,519.54	1/2	1,157.34	1/2	803.39	1/2	439.73	1/2	76.17	1/2	1/2		1/2		1/2
3/4	2,230.11	3/4	1,875.43	3/4	1,511.97	3/4	1,149.97	3/4	795.81	3/4	432.16	3/4	68.61	3/4	3/4		3/4		3/4
8	2,222.60	8	1,867.86	8	1,504.40	8	1,142.62	8	788.23	8	424.58	8	61.75	8	8		8		8
1/4	2,215.09	1/4	1,860.29	1/4	1,496.82	1/4	1,135.27	1/4	780.66	1/4	417.01	1/4	54.88	1/4	1/4		1/4		1/4
1/2	2,207.59	1/2	1,852.72	1/2	1,489.25	1/2	1,127.91	1/2	773.08	1/2	409.43	1/2	48.02	1/2	1/2		1/2		1/2
3/4	2,200.08	3/4	1,845.15	3/4	1,481.68	3/4	1,120.56	3/4	765.50	3/4	401.86	3/4	41.15	3/4	3/4		3/4		3/4
9	2,192.57	9	1,837.57	9	1,474.11	9	1,113.21	9	757.93	9	394.28	9	35.93	9	9		9		9
1/4	2,185.06	1/4	1,830.00	1/4	1,466.54	1/4	1,105.86	1/4	750.35	1/4	386.71	1/4	30.72	1/4	1/4		1/4		1/4
1/2	2,177.56	1/2	1,822.43	1/2	1,458.96	1/2	1,098.51	1/2	742.78	1/2	379.13	1/2	25.50	1/2	1/2		1/2		1/2
3/4	2,170.05	3/4	1,814.86	3/4	1,451.39	3/4	1,091.16	3/4	735.20	3/4	371.56	3/4	20.28	3/4	3/4		3/4		3/4
10	2,162.54	10	1,807.28	10	1,443.82	10	1,083.82	10	727.62	10	363.98	10		10	10		10		10
1/4	2,155.03	1/4	1,799.71	1/4	1,436.25	1/4	1,076.47	1/4	720.05	1/4	356.41	1/4		1/4	1/4		1/4		1/4
1/2	2,147.52	1/2	1,792.14	1/2	1,428.67	1/2	1,069.13	1/2	712.47	1/2	348.83	1/2		1/2	1/2		1/2		1/2
3/4	2,140.02	3/4	1,784.57	3/4	1,421.10	3/4	1,061.78	3/4	704.89	3/4	341.26	3/4		3/4	3/4		3/4		3/4
11	2,132.51	11	1,777.00	11	1,413.53	11	1,054.44	11	697.32	11	333.68	11		11	11		11		11
1/4	2,125.00	1/4	1,769.42	1/4	1,405.96	1/4	1,047.10	1/4	689.74	1/4	326.11	1/4		1/4	1/4		1/4		1/4
1/2	2,117.49	1/2	1,761.85	1/2	1,398.39	1/2	1,039.75	1/2	682.17	1/2	318.53	1/2		1/2	1/2		1/2		1/2
3/4	2,109.98	3/4	1,754.28	3/4	1,390.81	3/4	1,032.41	3/4	674.59	3/4	310.96	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 PMA
RECALCULATED: 09/26/2019 PMA
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

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



BARGE "KIRBY 27731"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

GAUGE HEIGHT 16'-09 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,350.67	0	4,176.04	0	3,989.70	0	3,795.01	0	3,557.95	0	3,194.88	0	2,831.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,347.03	1/4	4,172.28	1/4	3,985.70	1/4	3,790.95	1/4	3,550.40	1/4	3,187.31	1/4	2,823.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,343.50	1/2	4,168.50	1/2	3,981.69	1/2	3,786.88	1/2	3,542.84	1/2	3,179.73	1/2	2,815.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,339.97	3/4	4,164.72	3/4	3,977.67	3/4	3,782.82	3/4	3,535.29	3/4	3,172.15	3/4	2,808.38		
1		1		1		1	4,336.45	1	4,160.94	1	3,973.65	1	3,778.75	1	3,527.73	1	3,164.58	1	2,800.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,332.92	1/4	4,157.16	1/4	3,969.63	1/4	3,774.69	1/4	3,520.17	1/4	3,157.00	1/4	2,793.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,329.37	1/2	4,153.37	1/2	3,965.60	1/2	3,770.62	1/2	3,512.62	1/2	3,149.42	1/2	2,785.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,325.83	3/4	4,149.57	3/4	3,961.56	3/4	3,766.56	3/4	3,505.06	3/4	3,141.85	3/4	2,778.07		
2		2		2		2	4,322.28	2	4,145.78	2	3,957.52	2	3,762.49	2	3,497.50	2	3,134.27	2	2,770.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,318.74	1/4	4,141.98	1/4	3,953.49	1/4	3,758.43	1/4	3,489.95	1/4	3,126.69	1/4	2,762.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,315.17	1/2	4,138.17	1/2	3,949.44	1/2	3,754.36	1/2	3,482.39	1/2	3,119.11	1/2	2,755.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,311.61	3/4	4,134.35	3/4	3,945.38	3/4	3,750.30	3/4	3,474.84	3/4	3,111.54	3/4	2,747.75		
3		3		3		3	4,308.04	3	4,130.54	3	3,941.33	3	3,746.23	3	3,467.28	3	3,103.96	3	2,740.17		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,304.48	1/4	4,126.72	1/4	3,937.27	1/4	3,742.17	1/4	3,459.72	1/4	3,096.38	1/4	2,732.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,300.89	1/2	4,122.89	1/2	3,933.21	1/2	3,738.10	1/2	3,452.17	1/2	3,088.81	1/2	2,725.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,297.31	3/4	4,119.06	3/4	3,929.15	3/4	3,734.04	3/4	3,444.61	3/4	3,081.23	3/4	2,717.43		
4		4		4		4	4,293.72	4	4,115.23	4	3,925.08	4	3,729.97	4	3,437.05	4	3,073.65	4	2,709.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,290.14	1/4	4,111.39	1/4	3,921.02	1/4	3,725.91	1/4	3,429.50	1/4	3,066.08	1/4	2,702.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,286.54	1/2	4,107.54	1/2	3,916.95	1/2	3,721.84	1/2	3,421.94	1/2	3,058.50	1/2	2,694.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,282.94	3/4	4,103.69	3/4	3,912.89	3/4	3,717.78	3/4	3,414.39	3/4	3,050.92	3/4	2,687.11		
5		5		5		5	4,279.33	5	4,099.84	5	3,908.83	5	3,713.71	5	3,406.83	5	3,043.35	5	2,679.53		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,275.73	1/4	4,095.99	1/4	3,904.76	1/4	3,709.65	1/4	3,399.27	1/4	3,035.77	1/4	2,671.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,272.11	1/2	4,092.12	1/2	3,900.70	1/2	3,705.59	1/2	3,391.72	1/2	3,028.19	1/2	2,664.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,268.49	3/4	4,088.25	3/4	3,896.63	3/4	3,701.52	3/4	3,384.16	3/4	3,020.61	3/4	2,656.78		
6		6		6		6	4,264.87	6	4,084.38	6	3,892.57	6	3,697.46	6	3,376.61	6	3,013.03	6	2,649.19		
1/4	1/4	1/4	4,436.81	1/4	4,261.25	1/4	4,080.51	1/4	3,888.50	1/4	3,693.39	1/4	3,369.05	1/4	3,005.45	1/4	2,641.61				
1/2	1/2	1/2	4,433.92	1/2	4,257.61	1/2	4,076.60	1/2	3,884.44	1/2	3,689.33	1/2	3,361.49	1/2	2,997.87	1/2	2,634.02				
3/4	3/4	3/4	4,431.04	3/4	4,253.97	3/4	4,072.70	3/4	3,880.37	3/4	3,685.26	3/4	3,353.94	3/4	2,990.29	3/4	2,626.44				
7		7		7		7	4,428.15	7	4,250.33	7	4,068.80	7	3,876.31	7	3,681.20	7	3,346.38	7	2,982.71	7	2,618.85
1/4	1/4	1/4	4,425.26	1/4	4,246.70	1/4	4,064.90	1/4	3,872.24	1/4	3,677.13	1/4	3,338.82	1/4	2,975.14	1/4	2,611.26				
1/2	1/2	1/2	4,421.42	1/2	4,243.02	1/2	4,060.98	1/2	3,868.18	1/2	3,673.07	1/2	3,331.25	1/2	2,967.56	1/2	2,603.68				
3/4	3/4	3/4	4,417.59	3/4	4,239.34	3/4	4,057.05	3/4	3,864.11	3/4	3,669.00	3/4	3,323.68	3/4	2,959.98	3/4	2,596.09				
8		8		8		8	4,413.75	8	4,235.66	8	4,053.13	8	3,860.05	8	3,664.94	8	3,316.11	8	2,952.40	8	2,588.50
1/4	1/4	1/4	4,409.91	1/4	4,231.99	1/4	4,049.21	1/4	3,855.98	1/4	3,660.87	1/4	3,308.54	1/4	2,944.82	1/4	2,580.92				
1/2	1/2	1/2	4,405.89	1/2	4,228.29	1/2	4,045.27	1/2	3,851.92	1/2	3,655.49	1/2	3,300.96	1/2	2,937.24	1/2	2,573.33				
3/4	3/4	3/4	4,401.86	3/4	4,224.58	3/4	4,041.32	3/4	3,847.85	3/4	3,650.11	3/4	3,293.38	3/4	2,929.66	3/4	2,565.74				
9		9		9		9	4,397.83	9	4,220.88	9	4,037.38	9	3,843.79	9	3,644.72	9	3,285.81	9	2,922.08	9	2,558.15
1/4	1/4	1/4	4,393.81	1/4	4,217.18	1/4	4,033.44	1/4	3,839.72	1/4	3,639.34	1/4	3,278.23	1/4	2,914.50	1/4	2,550.57				
1/2	1/2	1/2	4,389.78	1/2	4,213.46	1/2	4,029.48	1/2	3,835.66	1/2	3,632.22	1/2	3,270.65	1/2	2,906.92	1/2	2,542.98				
3/4	3/4	3/4	4,385.76	3/4	4,209.73	3/4	4,025.52	3/4	3,831.59	3/4	3,625.09	3/4	3,263.08	3/4	2,899.34	3/4	2,535.39				
10		10		10		10	4,381.73	10	4,206.01	10	4,021.56	10	3,827.53	10	3,617.97	10	3,255.50	10	2,891.76	10	2,527.81
1/4	1/4	1/4	4,377.71	1/4	4,202.29	1/4	4,017.61	1/4	3,823.46	1/4	3,610.85	1/4	3,247.92	1/4	2,884.18	1/4	2,520.22				
1/2	1/2	1/2	4,373.68	1/2	4,198.55	1/2	4,013.63	1/2	3,819.40	1/2	3,603.29	1/2	3,240.35	1/2	2,876.60	1/2	2,512.63				
3/4	3/4	3/4	4,369.65	3/4	4,194.80	3/4	4,009.65	3/4	3,815.33	3/4	3,595.74	3/4	3,232.77	3/4	2,869.02	3/4	2,505.05				
11		11		11		11	4,365.63	11	4,191.06	11	4,005.67	11	3,811.27	11	3,588.18	11	3,225.19	11	2,861.44	11	2,497.46
1/4	1/4	1/4	4,361.60	1/4	4,187.32	1/4	4,001.70	1/4	3,807.21	1/4	3,580.62	1/4	3,217.61	1/4	2,853.86	1/4	2,489.87				
1/2	1/2	1/2	4,357.96	1/2	4,183.56	1/2	3,997.70	1/2	3,803.14	1/2	3,573.07	1/2	3,210.04	1/2	2,846.28	1/2	2,482.29				
3/4	3/4	3/4	4,354.32	3/4	4,179.80	3/4	3,993.70	3/4	3,799.08	3/4	3,565.51	3/4	3,202.46	3/4	2,838.70	3/4	2,474.70				

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 27731"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 328"

GAUGE HEIGHT 16'-09 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	2,467.11	0	2,102.95	0	1,744.89	0	1,380.65	0	1,016.64	0	652.74	0	288.51	0		0			
1/4	2,459.53	1/4	2,095.36	1/4	1,737.30	1/4	1,373.07	1/4	1,009.06	1/4	645.15	1/4	280.93	1/4	1/4				1/4
1/2	2,451.94	1/2	2,088.31	1/2	1,729.71	1/2	1,365.48	1/2	1,001.49	1/2	637.57	1/2	273.34	1/2	1/2				1/2
3/4	2,444.35	3/4	2,081.26	3/4	1,722.12	3/4	1,357.89	3/4	993.92	3/4	629.98	3/4	265.75	3/4	3/4				3/4
1	2,436.77	1	2,074.21	1	1,714.53	1	1,350.30	1	986.34	1	622.39	1	258.16	1	1				1
1/4	2,429.18	1/4	2,067.17	1/4	1,706.95	1/4	1,342.71	1/4	978.77	1/4	614.80	1/4	250.57	1/4	1/4				1/4
1/2	2,421.59	1/2	2,060.30	1/2	1,699.36	1/2	1,335.13	1/2	971.20	1/2	607.21	1/2	242.99	1/2	1/2				1/2
3/4	2,414.01	3/4	2,053.43	3/4	1,691.77	3/4	1,327.54	3/4	963.62	3/4	599.63	3/4	235.40	3/4	3/4				3/4
2	2,406.42	2	2,046.56	2	1,684.18	2	1,319.95	2	956.05	2	592.04	2	227.81	2	2				2
1/4	2,398.83	1/4	2,039.69	1/4	1,676.59	1/4	1,312.36	1/4	948.48	1/4	584.45	1/4	220.22	1/4	1/4				1/4
1/2	2,391.25	1/2	2,032.31	1/2	1,669.01	1/2	1,304.77	1/2	940.91	1/2	576.86	1/2	212.63	1/2	1/2				1/2
3/4	2,383.66	3/4	2,024.93	3/4	1,661.42	3/4	1,297.18	3/4	933.33	3/4	569.27	3/4	205.04	3/4	3/4				3/4
3	2,376.07	3	2,017.55	3	1,653.83	3	1,289.60	3	925.76	3	561.69	3	197.46	3	3				3
1/4	2,368.48	1/4	2,010.16	1/4	1,646.24	1/4	1,282.01	1/4	918.19	1/4	554.10	1/4	189.87	1/4	1/4				1/4
1/2	2,360.90	1/2	2,002.61	1/2	1,638.65	1/2	1,274.42	1/2	910.61	1/2	546.51	1/2	182.28	1/2	1/2				1/2
3/4	2,353.31	3/4	1,995.06	3/4	1,631.06	3/4	1,266.83	3/4	903.04	3/4	538.92	3/4	174.69	3/4	3/4				3/4
4	2,345.72	4	1,987.51	4	1,623.48	4	1,259.24	4	895.47	4	531.33	4	167.10	4	4				4
1/4	2,338.14	1/4	1,979.95	1/4	1,615.89	1/4	1,251.65	1/4	887.89	1/4	523.75	1/4	159.52	1/4	1/4				1/4
1/2	2,330.55	1/2	1,972.40	1/2	1,608.30	1/2	1,244.07	1/2	880.32	1/2	516.16	1/2	151.93	1/2	1/2				1/2
3/4	2,322.96	3/4	1,964.85	3/4	1,600.71	3/4	1,236.48	3/4	872.75	3/4	508.57	3/4	144.34	3/4	3/4				3/4
5	2,315.38	5	1,957.29	5	1,593.12	5	1,228.89	5	865.18	5	500.98	5	136.76	5	5				5
1/4	2,307.79	1/4	1,949.74	1/4	1,585.54	1/4	1,221.30	1/4	857.60	1/4	493.39	1/4	129.17	1/4	1/4				1/4
1/2	2,300.20	1/2	1,942.16	1/2	1,577.95	1/2	1,213.71	1/2	850.02	1/2	485.80	1/2	121.59	1/2	1/2				1/2
3/4	2,292.62	3/4	1,934.58	3/4	1,570.36	3/4	1,206.13	3/4	842.44	3/4	478.22	3/4	114.01	3/4	3/4				3/4
6	2,285.03	6	1,927.00	6	1,562.77	6	1,198.54	6	834.85	6	470.63	6	106.43	6	6				6
1/4	2,277.44	1/4	1,919.42	1/4	1,555.18	1/4	1,190.95	1/4	827.27	1/4	463.04	1/4	98.85	1/4	1/4				1/4
1/2	2,269.86	1/2	1,911.83	1/2	1,547.59	1/2	1,183.36	1/2	819.68	1/2	455.45	1/2	91.29	1/2	1/2				1/2
3/4	2,262.27	3/4	1,904.24	3/4	1,540.01	3/4	1,175.77	3/4	812.09	3/4	447.86	3/4	83.73	3/4	3/4				3/4
7	2,254.68	7	1,896.65	7	1,532.42	7	1,168.18	7	804.50	7	440.28	7	76.18	7	7				7
1/4	2,247.10	1/4	1,889.06	1/4	1,524.83	1/4	1,160.60	1/4	796.92	1/4	432.69	1/4	68.62	1/4	1/4				1/4
1/2	2,239.51	1/2	1,881.48	1/2	1,517.24	1/2	1,153.01	1/2	789.33	1/2	425.10	1/2	61.75	1/2	1/2				1/2
3/4	2,231.92	3/4	1,873.89	3/4	1,509.65	3/4	1,145.43	3/4	781.74	3/4	417.51	3/4	54.89	3/4	3/4				3/4
8	2,224.34	8	1,866.30	8	1,502.07	8	1,137.85	8	774.15	8	409.92	8	48.02	8	8				8
1/4	2,216.75	1/4	1,858.71	1/4	1,494.48	1/4	1,130.27	1/4	766.56	1/4	402.34	1/4	41.15	1/4	1/4				1/4
1/2	2,209.16	1/2	1,851.12	1/2	1,486.89	1/2	1,122.69	1/2	758.98	1/2	394.75	1/2	35.94	1/2	1/2				1/2
3/4	2,201.58	3/4	1,843.53	3/4	1,479.30	3/4	1,115.11	3/4	751.39	3/4	387.16	3/4	30.72	3/4	3/4				3/4
9	2,193.99	9	1,835.95	9	1,471.71	9	1,107.53	9	743.80	9	379.57	9	25.50	9	9				9
1/4	2,186.40	1/4	1,828.36	1/4	1,464.12	1/4	1,099.95	1/4	736.21	1/4	371.98	1/4	20.28	1/4	1/4				1/4
1/2	2,178.81	1/2	1,820.77	1/2	1,456.54	1/2	1,092.37	1/2	728.62	1/2	364.40	1/2		1/2	1/2				1/2
3/4	2,171.23	3/4	1,813.18	3/4	1,448.95	3/4	1,084.80	3/4	721.04	3/4	356.81	3/4		3/4	3/4				3/4
10	2,163.64	10	1,805.59	10	1,441.36	10	1,077.22	10	713.45	10	349.22	10		10	10				10
1/4	2,156.05	1/4	1,798.01	1/4	1,433.77	1/4	1,069.65	1/4	705.86	1/4	341.63	1/4		1/4	1/4				1/4
1/2	2,148.47	1/2	1,790.42	1/2	1,426.18	1/2	1,062.07	1/2	698.27	1/2	334.04	1/2		1/2	1/2				1/2
3/4	2,140.88	3/4	1,782.83	3/4	1,418.60	3/4	1,054.50	3/4	690.68	3/4	326.45	3/4		3/4	3/4				3/4
11	2,133.29	11	1,775.24	11	1,411.01	11	1,046.93	11	683.10	11	318.87	11		11	11				11
1/4	2,125.71	1/4	1,767.65	1/4	1,403.42	1/4	1,039.35	1/4	675.51	1/4	311.28	1/4		1/4	1/4				1/4
1/2	2,118.12	1/2	1,760.06	1/2	1,395.83	1/2	1,031.78	1/2	667.92	1/2	303.69	1/2		1/2	1/2				1/2
3/4	2,110.53	3/4	1,752.48	3/4	1,388.24	3/4	1,024.21	3/4	660.33	3/4	296.10	3/4		3/4	3/4				3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2014 PMA
RECALCULATED: 09/26/2019 PMA
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019

PRECISION MEASUREMENT
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BARGE "KIRBY 27731"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 328"

GAUGE HEIGHT 6'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	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: 06/04/2014 SW
CALCULATED: 06/05/2014 CL
NAME CHANGE: 09/26/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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