



BARGE "KIRBY 27020"

ULLAGE TRIM TABLE
FORMERLY: CTCO 359

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-06"

October 22, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 27020"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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	4,151.78	0	3,888.77	0	3,600.44	0	3,290.68	0	2,962.55	0	2,631.32	0	2,300.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,145.32	1/4	3,882.99	1/4	3,594.18	1/4	3,284.00	1/4	2,955.65	1/4	2,624.42	1/4	2,293.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,138.86	1/2	3,877.20	1/2	3,587.91	1/2	3,277.32	1/2	2,948.75	1/2	2,617.52	1/2	2,286.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,132.40	3/4	3,871.41	3/4	3,581.65	3/4	3,270.64	3/4	2,941.85	3/4	2,610.62	3/4	2,279.38		
1		1		1		1	4,127.39	1	3,865.59	1	3,575.36	1	3,263.93	1	2,934.95	1	2,603.72	1	2,272.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,122.38	1/4	3,859.76	1/4	3,569.07	1/4	3,257.22	1/4	2,928.05	1/4	2,596.82	1/4	2,265.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,117.37	1/2	3,853.94	1/2	3,562.78	1/2	3,250.51	1/2	2,921.15	1/2	2,589.92	1/2	2,258.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,112.35	3/4	3,848.11	3/4	3,556.49	3/4	3,243.80	3/4	2,914.25	3/4	2,583.02	3/4	2,251.78		
2		2		2		2	4,107.31	2	3,842.25	2	3,550.17	2	3,237.05	2	2,907.35	2	2,576.11	2	2,244.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,102.27	1/4	3,836.40	1/4	3,543.85	1/4	3,230.30	1/4	2,900.45	1/4	2,569.21	1/4	2,237.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,097.23	1/2	3,830.54	1/2	3,537.53	1/2	3,223.54	1/2	2,893.55	1/2	2,562.31	1/2	2,231.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,092.19	3/4	3,824.68	3/4	3,531.21	3/4	3,216.79	3/4	2,886.65	3/4	2,555.41	3/4	2,224.18		
3		3		3		3	4,087.11	3	3,818.78	3	3,524.85	3	3,210.01	3	2,879.75	3	2,548.51	3	2,217.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,082.02	1/4	3,812.88	1/4	3,518.48	1/4	3,203.23	1/4	2,872.84	1/4	2,541.61	1/4	2,210.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,076.94	1/2	3,806.99	1/2	3,512.12	1/2	3,196.45	1/2	2,865.94	1/2	2,534.71	1/2	2,203.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,071.85	3/4	3,801.09	3/4	3,505.76	3/4	3,189.66	3/4	2,859.04	3/4	2,527.81	3/4	2,196.58		
4		4		4		4	4,066.74	4	3,795.16	4	3,499.38	4	3,182.85	4	2,852.14	4	2,520.91	4	2,189.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,061.63	1/4	3,789.23	1/4	3,492.99	1/4	3,176.04	1/4	2,845.24	1/4	2,514.01	1/4	2,182.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,056.51	1/2	3,783.30	1/2	3,486.61	1/2	3,169.22	1/2	2,838.34	1/2	2,507.11	1/2	2,175.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,051.40	3/4	3,777.37	3/4	3,480.23	3/4	3,162.41	3/4	2,831.44	3/4	2,500.21	3/4	2,168.97		
5		5		5		5	4,046.26	5	3,771.39	5	3,473.80	5	3,155.56	5	2,824.54	5	2,493.31	5	2,162.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,041.11	1/4	3,765.41	1/4	3,467.38	1/4	3,148.71	1/4	2,817.64	1/4	2,486.41	1/4	2,155.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,035.97	1/2	3,759.43	1/2	3,460.96	1/2	3,141.85	1/2	2,810.74	1/2	2,479.51	1/2	2,148.27		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,030.82	3/4	3,753.45	3/4	3,454.53	3/4	3,135.00	3/4	2,803.84	3/4	2,472.60	3/4	2,141.37		
6		6		6		6	4,025.23	6	3,747.44	6	3,448.08	6	3,128.12	6	2,796.94	6	2,465.70	6	2,134.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,019.64	1/4	3,741.43	1/4	3,441.62	1/4	3,121.23	1/4	2,790.04	1/4	2,458.80	1/4	2,127.57		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,014.05	1/2	3,735.42	1/2	3,435.17	1/2	3,114.35	1/2	2,783.14	1/2	2,451.90	1/2	2,120.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,008.46	3/4	3,729.41	3/4	3,428.71	3/4	3,107.47	3/4	2,776.24	3/4	2,445.00	3/4	2,113.77		
7		7		7		7	4,281.37	7	4,002.84	7	3,723.36	7	3,422.21	7	3,100.57	7	2,769.33	7	2,438.10	7	2,106.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,274.88	1/4	3,997.22	1/4	3,717.32	1/4	3,415.72	1/4	3,093.67	1/4	2,762.43	1/4	2,431.20	1/4	2,099.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,268.38	1/2	3,991.60	1/2	3,711.28	1/2	3,409.22	1/2	3,086.77	1/2	2,755.53	1/2	2,424.30	1/2	2,093.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,261.89	3/4	3,985.98	3/4	3,705.24	3/4	3,402.72	3/4	3,079.87	3/4	2,748.63	3/4	2,417.40	3/4	2,086.17
8		8		8		8	4,255.39	8	3,980.32	8	3,699.16	8	3,396.19	8	3,072.97	8	2,741.73	8	2,410.50	8	2,079.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,248.90	1/4	3,974.65	1/4	3,693.08	1/4	3,389.67	1/4	3,066.06	1/4	2,734.83	1/4	2,403.60	1/4	2,072.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,242.40	1/2	3,968.99	1/2	3,687.00	1/2	3,383.14	1/2	3,059.16	1/2	2,727.93	1/2	2,396.70	1/2	2,065.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,235.91	3/4	3,963.33	3/4	3,680.92	3/4	3,376.62	3/4	3,052.26	3/4	2,721.03	3/4	2,389.80	3/4	2,058.56
9		9		9		9	4,229.41	9	3,957.64	9	3,674.77	9	3,370.05	9	3,045.36	9	2,714.13	9	2,382.90	9	2,051.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,222.92	1/4	3,951.95	1/4	3,668.62	1/4	3,363.48	1/4	3,038.46	1/4	2,707.23	1/4	2,375.99	1/4	2,044.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,216.42	1/2	3,946.25	1/2	3,662.47	1/2	3,356.91	1/2	3,031.56	1/2	2,700.33	1/2	2,369.09	1/2	2,037.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,209.93	3/4	3,940.56	3/4	3,656.33	3/4	3,350.35	3/4	3,024.66	3/4	2,693.43	3/4	2,362.19	3/4	2,030.96
10		10		10		10	4,203.47	10	3,934.82	10	3,650.14	10	3,343.74	10	3,017.76	10	2,686.53	10	2,355.29	10	2,024.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,197.01	1/4	3,929.09	1/4	3,643.95	1/4	3,337.13	1/4	3,010.86	1/4	2,679.63	1/4	2,348.39	1/4	2,017.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,190.55	1/2	3,923.35	1/2	3,637.76	1/2	3,330.52	1/2	3,003.96	1/2	2,672.72	1/2	2,341.49	1/2	2,010.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,184.08	3/4	3,917.62	3/4	3,631.57	3/4	3,323.92	3/4	2,997.06	3/4	2,665.82	3/4	2,334.59	3/4	2,003.36
11		11		11		11	4,177.62	11	3,911.85	11	3,625.36	11	3,317.28	11	2,990.16	11	2,658.92	11	2,327.69	11	1,996.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,171.16	1/4	3,906.09	1/4	3,619.14	1/4	3,310.64	1/4	2,983.26	1/4	2,652.02	1/4	2,320.79	1/4	1,989.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,164.70	1/2	3,900.32	1/2	3,612.92	1/2	3,304.00	1/2	2,976.36	1/2	2,645.12	1/2	2,313.89	1/2	1,982.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,158.24	3/4	3,894.56	3/4	3,606.70	3/4	3,297.36	3/4	2,969.45	3/4	2,638.22	3/4	2,306.99	3/4	1,975.75

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'-06" OFF CENTERLINE AND 45'-00" 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 27020"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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	1,968.85	0	1,637.62	0	1,306.39	0	975.57	0	660.22	0	369.54	0	100.57	0		0		0	
1/4	1,961.95	1/4	1,630.72	1/4	1,299.49	1/4	968.77	1/4	653.90	1/4	363.73	1/4	95.22	1/4	1/4		1/4		1/4
1/2	1,955.05	1/2	1,623.82	1/2	1,292.58	1/2	961.97	1/2	647.59	1/2	357.91	1/2	89.86	1/2	1/2		1/2		1/2
3/4	1,948.15	3/4	1,616.92	3/4	1,285.68	3/4	955.17	3/4	641.27	3/4	352.10	3/4	84.50	3/4	3/4		3/4		3/4
1	1,941.25	1	1,610.02	1	1,278.78	1	948.41	1	634.99	1	346.33	1	79.19	1	1		1		1
1/4	1,934.35	1/4	1,603.12	1/4	1,271.88	1/4	941.65	1/4	628.71	1/4	340.55	1/4	73.87	1/4	1/4		1/4		1/4
1/2	1,927.45	1/2	1,596.22	1/2	1,264.98	1/2	934.89	1/2	622.43	1/2	334.78	1/2	68.55	1/2	1/2		1/2		1/2
3/4	1,920.55	3/4	1,589.31	3/4	1,258.08	3/4	928.13	3/4	616.15	3/4	329.00	3/4	63.24	3/4	3/4		3/4		3/4
2	1,913.65	2	1,582.41	2	1,251.18	2	921.41	2	609.94	2	323.25	2	57.96	2	2		2		2
1/4	1,906.75	1/4	1,575.51	1/4	1,244.28	1/4	914.69	1/4	603.74	1/4	317.49	1/4	52.69	1/4	1/4		1/4		1/4
1/2	1,899.85	1/2	1,568.61	1/2	1,237.38	1/2	907.97	1/2	597.53	1/2	311.73	1/2	47.41	1/2	1/2		1/2		1/2
3/4	1,892.95	3/4	1,561.71	3/4	1,230.48	3/4	901.25	3/4	591.33	3/4	305.97	3/4	42.13	3/4	3/4		3/4		3/4
3	1,886.04	3	1,554.81	3	1,223.58	3	894.57	3	585.17	3	300.26	3	37.76	3	3		3		3
1/4	1,879.14	1/4	1,547.91	1/4	1,216.68	1/4	887.89	1/4	579.01	1/4	294.54	1/4	33.39	1/4	1/4		1/4		1/4
1/2	1,872.24	1/2	1,541.01	1/2	1,209.78	1/2	881.21	1/2	572.85	1/2	288.82	1/2	29.01	1/2	1/2		1/2		1/2
3/4	1,865.34	3/4	1,534.11	3/4	1,202.88	3/4	874.53	3/4	566.69	3/4	283.11	3/4	24.64	3/4	3/4		3/4		3/4
4	1,858.44	4	1,527.21	4	1,195.97	4	867.89	4	560.57	4	277.43	4	22.03	4	4		4		4
1/4	1,851.54	1/4	1,520.31	1/4	1,189.07	1/4	861.25	1/4	554.45	1/4	271.75	1/4	19.42	1/4	1/4		1/4		1/4
1/2	1,844.64	1/2	1,513.41	1/2	1,182.17	1/2	854.61	1/2	548.33	1/2	266.07	1/2	16.81	1/2	1/2		1/2		1/2
3/4	1,837.74	3/4	1,506.51	3/4	1,175.27	3/4	847.97	3/4	542.21	3/4	260.40	3/4	14.20	3/4	3/4		3/4		3/4
5	1,830.84	5	1,499.61	5	1,168.37	5	841.37	5	536.13	5	254.76	5		5	5		5		5
1/4	1,823.94	1/4	1,492.70	1/4	1,161.47	1/4	834.77	1/4	530.06	1/4	249.12	1/4		1/4	1/4		1/4		1/4
1/2	1,817.04	1/2	1,485.80	1/2	1,154.57	1/2	828.17	1/2	523.98	1/2	243.49	1/2		1/2	1/2		1/2		1/2
3/4	1,810.14	3/4	1,478.90	3/4	1,147.67	3/4	821.57	3/4	517.90	3/4	237.85	3/4		3/4	3/4		3/4		3/4
6	1,803.24	6	1,472.00	6	1,140.77	6	815.01	6	511.86	6	232.25	6		6	6		6		6
1/4	1,796.34	1/4	1,465.10	1/4	1,133.87	1/4	808.45	1/4	505.82	1/4	226.65	1/4		1/4	1/4		1/4		1/4
1/2	1,789.44	1/2	1,458.20	1/2	1,126.97	1/2	801.89	1/2	499.78	1/2	221.06	1/2		1/2	1/2		1/2		1/2
3/4	1,782.53	3/4	1,451.30	3/4	1,120.07	3/4	795.33	3/4	493.74	3/4	215.46	3/4		3/4	3/4		3/4		3/4
7	1,775.63	7	1,444.40	7	1,113.17	7	788.81	7	487.74	7	209.90	7		7	7		7		7
1/4	1,768.73	1/4	1,437.50	1/4	1,106.27	1/4	782.29	1/4	481.75	1/4	204.35	1/4		1/4	1/4		1/4		1/4
1/2	1,761.83	1/2	1,430.60	1/2	1,099.37	1/2	775.77	1/2	475.75	1/2	198.79	1/2		1/2	1/2		1/2		1/2
3/4	1,754.93	3/4	1,423.70	3/4	1,092.46	3/4	769.25	3/4	469.75	3/4	193.23	3/4		3/4	3/4		3/4		3/4
8	1,748.03	8	1,416.80	8	1,085.56	8	762.77	8	463.79	8	187.72	8		8	8		8		8
1/4	1,741.13	1/4	1,409.90	1/4	1,078.66	1/4	756.29	1/4	457.84	1/4	182.20	1/4		1/4	1/4		1/4		1/4
1/2	1,734.23	1/2	1,403.00	1/2	1,071.76	1/2	749.81	1/2	451.88	1/2	176.68	1/2		1/2	1/2		1/2		1/2
3/4	1,727.33	3/4	1,396.10	3/4	1,064.86	3/4	743.33	3/4	445.92	3/4	171.17	3/4		3/4	3/4		3/4		3/4
9	1,720.43	9	1,389.19	9	1,057.96	9	736.90	9	440.00	9	165.69	9		9	9		9		9
1/4	1,713.53	1/4	1,382.29	1/4	1,051.06	1/4	730.46	1/4	434.08	1/4	160.21	1/4		1/4	1/4		1/4		1/4
1/2	1,706.63	1/2	1,375.39	1/2	1,044.16	1/2	724.02	1/2	428.17	1/2	154.74	1/2		1/2	1/2		1/2		1/2
3/4	1,699.73	3/4	1,368.49	3/4	1,037.26	3/4	717.58	3/4	422.25	3/4	149.26	3/4		3/4	3/4		3/4		3/4
10	1,692.83	10	1,361.59	10	1,030.38	10	711.18	10	416.37	10	143.82	10		10	10		10		10
1/4	1,685.92	1/4	1,354.69	1/4	1,023.50	1/4	704.78	1/4	410.49	1/4	138.39	1/4		1/4	1/4		1/4		1/4
1/2	1,679.02	1/2	1,347.79	1/2	1,016.62	1/2	698.38	1/2	404.61	1/2	132.95	1/2		1/2	1/2		1/2		1/2
3/4	1,672.12	3/4	1,340.89	3/4	1,009.74	3/4	691.98	3/4	398.73	3/4	127.51	3/4		3/4	3/4		3/4		3/4
11	1,665.22	11	1,333.99	11	1,002.90	11	685.62	11	392.89	11	122.12	11		11	11		11		11
1/4	1,658.32	1/4	1,327.09	1/4	996.06	1/4	679.26	1/4	387.04	1/4	116.72	1/4		1/4	1/4		1/4		1/4
1/2	1,651.42	1/2	1,320.19	1/2	989.21	1/2	672.90	1/2	381.20	1/2	111.33	1/2		1/2	1/2		1/2		1/2
3/4	1,644.52	3/4	1,313.29	3/4	982.37	3/4	666.54	3/4	375.35	3/4	105.93	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2014 PMA
RECALCULATED: 10/26/19 PMA
NAME CHANGE: 10/26/2019 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "KIRBY 27020"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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		0	4,152.11	0	3,889.20	0	3,600.94	0	3,291.25	0	2,963.14	0	2,631.96	0	2,300.77
1/4		1/4		1/4		1/4	4,145.65	1/4	3,883.41	1/4	3,594.68	1/4	3,284.57	1/4	2,956.25	1/4	2,625.06	1/4	2,293.87
1/2		1/2		1/2		1/2	4,139.19	1/2	3,877.63	1/2	3,588.42	1/2	3,277.89	1/2	2,949.35	1/2	2,618.16	1/2	2,286.97
3/4		3/4		3/4		3/4	4,132.73	3/4	3,871.84	3/4	3,582.16	3/4	3,271.21	3/4	2,942.45	3/4	2,611.26	3/4	2,280.07
1		1		1		1	4,127.72	1	3,866.02	1	3,575.87	1	3,264.50	1	2,935.55	1	2,604.36	1	2,273.17
1/4		1/4		1/4		1/4	4,122.71	1/4	3,860.20	1/4	3,569.58	1/4	3,257.79	1/4	2,928.65	1/4	2,597.46	1/4	2,266.28
1/2		1/2		1/2		1/2	4,117.70	1/2	3,854.37	1/2	3,563.30	1/2	3,251.08	1/2	2,921.75	1/2	2,590.56	1/2	2,259.38
3/4		3/4		3/4		3/4	4,112.70	3/4	3,848.55	3/4	3,557.01	3/4	3,244.38	3/4	2,914.85	3/4	2,583.66	3/4	2,252.48
2		2		2		2	4,107.66	2	3,842.69	2	3,550.69	2	3,237.62	2	2,907.95	2	2,576.76	2	2,245.58
1/4		1/4		1/4		1/4	4,102.62	1/4	3,836.84	1/4	3,544.37	1/4	3,230.87	1/4	2,901.05	1/4	2,569.86	1/4	2,238.68
1/2		1/2		1/2		1/2	4,097.58	1/2	3,830.98	1/2	3,538.05	1/2	3,224.12	1/2	2,894.15	1/2	2,562.96	1/2	2,231.78
3/4		3/4		3/4		3/4	4,092.54	3/4	3,825.12	3/4	3,531.72	3/4	3,217.37	3/4	2,887.25	3/4	2,556.06	3/4	2,224.88
3		3		3		3	4,087.46	3	3,819.23	3	3,525.37	3	3,210.59	3	2,880.35	3	2,549.16	3	2,217.98
1/4		1/4		1/4		1/4	4,082.37	1/4	3,813.33	1/4	3,519.01	1/4	3,203.81	1/4	2,873.45	1/4	2,542.26	1/4	2,211.08
1/2		1/2		1/2		1/2	4,077.29	1/2	3,807.44	1/2	3,512.65	1/2	3,197.03	1/2	2,866.55	1/2	2,535.36	1/2	2,204.18
3/4		3/4		3/4		3/4	4,072.21	3/4	3,801.54	3/4	3,506.29	3/4	3,190.25	3/4	2,859.65	3/4	2,528.46	3/4	2,197.28
4		4		4		4	4,067.10	4	3,795.61	4	3,499.90	4	3,183.43	4	2,852.75	4	2,521.56	4	2,190.38
1/4		1/4		1/4		1/4	4,061.99	1/4	3,789.68	1/4	3,493.52	1/4	3,176.62	1/4	2,845.85	1/4	2,514.66	1/4	2,183.48
1/2		1/2		1/2		1/2	4,056.88	1/2	3,783.76	1/2	3,487.14	1/2	3,169.81	1/2	2,838.95	1/2	2,507.76	1/2	2,176.58
3/4		3/4		3/4		3/4	4,051.77	3/4	3,777.83	3/4	3,480.76	3/4	3,163.00	3/4	2,832.05	3/4	2,500.86	3/4	2,169.68
5		5		5		5	4,046.63	5	3,771.85	5	3,474.33	5	3,156.14	5	2,825.15	5	2,493.97	5	2,162.78
1/4		1/4		1/4		1/4	4,041.48	1/4	3,765.87	1/4	3,467.91	1/4	3,149.29	1/4	2,818.25	1/4	2,487.07	1/4	2,155.88
1/2		1/2		1/2		1/2	4,036.34	1/2	3,759.89	1/2	3,461.49	1/2	3,142.44	1/2	2,811.35	1/2	2,480.17	1/2	2,148.98
3/4		3/4		3/4		3/4	4,031.20	3/4	3,753.91	3/4	3,455.07	3/4	3,135.59	3/4	2,804.45	3/4	2,473.27	3/4	2,142.08
6		6		6		6	4,025.61	6	3,747.90	6	3,448.61	6	3,128.70	6	2,797.55	6	2,466.37	6	2,135.18
1/4		1/4		1/4		1/4	4,020.02	1/4	3,741.89	1/4	3,442.16	1/4	3,121.81	1/4	2,790.65	1/4	2,459.47	1/4	2,128.28
1/2		1/2		1/2		1/2	4,014.44	1/2	3,735.89	1/2	3,435.70	1/2	3,114.93	1/2	2,783.75	1/2	2,452.57	1/2	2,121.38
3/4		3/4		3/4	4,288.17	3/4	4,008.85	3/4	3,729.88	3/4	3,429.25	3/4	3,108.04	3/4	2,776.85	3/4	2,445.67	3/4	2,114.48
7		7		7	4,281.68	7	4,003.23	7	3,723.84	7	3,422.75	7	3,101.14	7	2,769.95	7	2,438.77	7	2,107.58
1/4		1/4		1/4	4,275.18	1/4	3,997.61	1/4	3,717.80	1/4	3,416.26	1/4	3,094.24	1/4	2,763.05	1/4	2,431.87	1/4	2,100.68
1/2		1/2		1/2	4,268.69	1/2	3,991.99	1/2	3,711.76	1/2	3,409.76	1/2	3,087.34	1/2	2,756.15	1/2	2,424.97	1/2	2,093.78
3/4		3/4		3/4	4,262.19	3/4	3,986.37	3/4	3,705.72	3/4	3,403.26	3/4	3,080.44	3/4	2,749.25	3/4	2,418.07	3/4	2,086.88
8		8		8	4,255.70	8	3,980.71	8	3,699.64	8	3,396.74	8	3,073.54	8	2,742.35	8	2,411.17	8	2,079.98
1/4		1/4		1/4	4,249.21	1/4	3,975.05	1/4	3,693.56	1/4	3,390.22	1/4	3,066.64	1/4	2,735.45	1/4	2,404.27	1/4	2,073.08
1/2		1/2		1/2	4,242.71	1/2	3,969.39	1/2	3,687.48	1/2	3,383.69	1/2	3,059.74	1/2	2,728.55	1/2	2,397.37	1/2	2,066.18
3/4		3/4		3/4	4,236.22	3/4	3,963.73	3/4	3,681.40	3/4	3,377.17	3/4	3,052.84	3/4	2,721.66	3/4	2,390.47	3/4	2,059.28
9		9		9	4,229.72	9	3,958.04	9	3,675.25	9	3,370.60	9	3,045.94	9	2,714.76	9	2,383.57	9	2,052.38
1/4		1/4		1/4	4,223.23	1/4	3,952.35	1/4	3,669.11	1/4	3,364.03	1/4	3,039.04	1/4	2,707.86	1/4	2,376.67	1/4	2,045.48
1/2		1/2		1/2	4,216.74	1/2	3,946.66	1/2	3,662.96	1/2	3,357.47	1/2	3,032.14	1/2	2,700.96	1/2	2,369.77	1/2	2,038.58
3/4		3/4		3/4	4,210.24	3/4	3,940.97	3/4	3,656.82	3/4	3,350.90	3/4	3,025.24	3/4	2,694.06	3/4	2,362.87	3/4	2,031.69
10		10		10	4,203.78	10	3,935.23	10	3,650.63	10	3,344.29	10	3,018.34	10	2,687.16	10	2,355.97	10	2,024.79
1/4		1/4		1/4	4,197.32	1/4	3,929.50	1/4	3,644.44	1/4	3,337.69	1/4	3,011.44	1/4	2,680.26	1/4	2,349.07	1/4	2,017.89
1/2		1/2		1/2	4,190.86	1/2	3,923.77	1/2	3,638.26	1/2	3,331.08	1/2	3,004.54	1/2	2,673.36	1/2	2,342.17	1/2	2,010.99
3/4		3/4		3/4	4,184.40	3/4	3,918.03	3/4	3,632.07	3/4	3,324.48	3/4	2,997.64	3/4	2,666.46	3/4	2,335.27	3/4	2,004.09
11		11		11	4,177.94	11	3,912.27	11	3,625.85	11	3,317.84	11	2,990.74	11	2,659.56	11	2,328.37	11	1,997.19
1/4		1/4		1/4	4,171.49	1/4	3,906.51	1/4	3,619.64	1/4	3,311.20	1/4	2,983.84	1/4	2,652.66	1/4	2,321.47	1/4	1,990.29
1/2		1/2		1/2	4,165.03	1/2	3,900.75	1/2	3,613.42	1/2	3,304.56	1/2	2,976.94	1/2	2,645.76	1/2	2,314.57	1/2	1,983.39
3/4		3/4		3/4	4,158.57	3/4	3,894.98	3/4	3,607.20	3/4	3,297.93	3/4	2,970.04	3/4	2,638.86	3/4	2,307.67	3/4	1,976.49

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'-06" OFF CENTERLINE AND 45'-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 27020"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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	1,969.59	0	1,638.40	0	1,307.22	0	976.45	0	661.16	0	369.57	0	100.53	0		0		0	
1/4	1,962.69	1/4	1,631.50	1/4	1,300.32	1/4	969.65	1/4	654.84	1/4	363.74	1/4	95.18	1/4	1/4	1/4		1/4	
1/2	1,955.79	1/2	1,624.60	1/2	1,293.42	1/2	962.85	1/2	648.52	1/2	357.90	1/2	89.82	1/2	1/2	1/2		1/2	
3/4	1,948.89	3/4	1,617.70	3/4	1,286.52	3/4	956.05	3/4	642.21	3/4	352.07	3/4	84.47	3/4	3/4	3/4		3/4	
1	1,941.99	1	1,610.80	1	1,279.62	1	949.29	1	635.93	1	346.27	1	79.16	1	1	1		1	
1/4	1,935.09	1/4	1,603.90	1/4	1,272.72	1/4	942.54	1/4	629.65	1/4	340.47	1/4	73.84	1/4	1/4	1/4		1/4	
1/2	1,928.19	1/2	1,597.00	1/2	1,265.82	1/2	935.78	1/2	623.37	1/2	334.68	1/2	68.53	1/2	1/2	1/2		1/2	
3/4	1,921.29	3/4	1,590.10	3/4	1,258.92	3/4	929.02	3/4	617.10	3/4	328.88	3/4	63.21	3/4	3/4	3/4		3/4	
2	1,914.39	2	1,583.20	2	1,252.02	2	922.30	2	610.87	2	323.13	2	57.94	2	2	2		2	
1/4	1,907.49	1/4	1,576.31	1/4	1,245.12	1/4	915.58	1/4	604.64	1/4	317.37	1/4	52.67	1/4	1/4	1/4		1/4	
1/2	1,900.59	1/2	1,569.41	1/2	1,238.22	1/2	908.86	1/2	598.41	1/2	311.62	1/2	47.39	1/2	1/2	1/2		1/2	
3/4	1,893.69	3/4	1,562.51	3/4	1,231.32	3/4	902.14	3/4	592.18	3/4	305.86	3/4	42.12	3/4	3/4	3/4		3/4	
3	1,886.79	3	1,555.61	3	1,224.42	3	895.46	3	586.00	3	300.15	3	37.75	3	3	3		3	
1/4	1,879.89	1/4	1,548.71	1/4	1,217.52	1/4	888.78	1/4	579.82	1/4	294.43	1/4	33.37	1/4	1/4	1/4		1/4	
1/2	1,872.99	1/2	1,541.81	1/2	1,210.62	1/2	882.10	1/2	573.64	1/2	288.71	1/2	29.00	1/2	1/2	1/2		1/2	
3/4	1,866.09	3/4	1,534.91	3/4	1,203.72	3/4	875.42	3/4	567.46	3/4	283.00	3/4	24.63	3/4	3/4	3/4		3/4	
4	1,859.19	4	1,528.01	4	1,196.82	4	868.79	4	561.31	4	277.32	4	22.02	4	4	4		4	
1/4	1,852.29	1/4	1,521.11	1/4	1,189.92	1/4	862.15	1/4	555.17	1/4	271.65	1/4	19.42	1/4	1/4	1/4		1/4	
1/2	1,845.39	1/2	1,514.21	1/2	1,183.02	1/2	855.51	1/2	549.03	1/2	265.97	1/2	16.81	1/2	1/2	1/2		1/2	
3/4	1,838.49	3/4	1,507.31	3/4	1,176.12	3/4	848.87	3/4	542.89	3/4	260.30	3/4	14.20	3/4	3/4	3/4		3/4	
5	1,831.59	5	1,500.41	5	1,169.22	5	842.27	5	536.79	5	254.66	5		5	5	5		5	
1/4	1,824.69	1/4	1,493.51	1/4	1,162.32	1/4	835.67	1/4	530.69	1/4	249.03	1/4		1/4	1/4	1/4		1/4	
1/2	1,817.79	1/2	1,486.61	1/2	1,155.42	1/2	829.07	1/2	524.59	1/2	243.39	1/2		1/2	1/2	1/2		1/2	
3/4	1,810.89	3/4	1,479.71	3/4	1,148.52	3/4	822.47	3/4	518.49	3/4	237.76	3/4		3/4	3/4	3/4		3/4	
6	1,804.00	6	1,472.81	6	1,141.62	6	815.92	6	512.42	6	232.16	6		6	6	6		6	
1/4	1,797.10	1/4	1,465.91	1/4	1,134.72	1/4	809.36	1/4	506.36	1/4	226.57	1/4		1/4	1/4	1/4		1/4	
1/2	1,790.20	1/2	1,459.01	1/2	1,127.82	1/2	802.80	1/2	500.30	1/2	220.97	1/2		1/2	1/2	1/2		1/2	
3/4	1,783.30	3/4	1,452.11	3/4	1,120.92	3/4	796.24	3/4	494.24	3/4	215.38	3/4		3/4	3/4	3/4		3/4	
7	1,776.40	7	1,445.21	7	1,114.03	7	789.72	7	488.22	7	209.82	7		7	7	7		7	
1/4	1,769.50	1/4	1,438.31	1/4	1,107.13	1/4	783.20	1/4	482.20	1/4	204.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,762.60	1/2	1,431.41	1/2	1,100.23	1/2	776.68	1/2	476.18	1/2	198.71	1/2		1/2	1/2	1/2		1/2	
3/4	1,755.70	3/4	1,424.51	3/4	1,093.33	3/4	770.17	3/4	470.16	3/4	193.16	3/4		3/4	3/4	3/4		3/4	
8	1,748.80	8	1,417.61	8	1,086.43	8	763.69	8	464.18	8	187.64	8		8	8	8		8	
1/4	1,741.90	1/4	1,410.71	1/4	1,079.53	1/4	757.21	1/4	458.20	1/4	182.13	1/4		1/4	1/4	1/4		1/4	
1/2	1,735.00	1/2	1,403.81	1/2	1,072.63	1/2	750.73	1/2	452.22	1/2	176.61	1/2		1/2	1/2	1/2		1/2	
3/4	1,728.10	3/4	1,396.91	3/4	1,065.73	3/4	744.25	3/4	446.24	3/4	171.10	3/4		3/4	3/4	3/4		3/4	
9	1,721.20	9	1,390.01	9	1,058.83	9	737.82	9	440.30	9	165.62	9		9	9	9		9	
1/4	1,714.30	1/4	1,383.11	1/4	1,051.93	1/4	731.38	1/4	434.36	1/4	160.15	1/4		1/4	1/4	1/4		1/4	
1/2	1,707.40	1/2	1,376.21	1/2	1,045.03	1/2	724.94	1/2	428.42	1/2	154.68	1/2		1/2	1/2	1/2		1/2	
3/4	1,700.50	3/4	1,369.31	3/4	1,038.13	3/4	718.50	3/4	422.48	3/4	149.20	3/4		3/4	3/4	3/4		3/4	
10	1,693.60	10	1,362.41	10	1,031.25	10	712.10	10	416.58	10	143.77	10		10	10	10		10	
1/4	1,686.70	1/4	1,355.51	1/4	1,024.37	1/4	705.70	1/4	410.68	1/4	138.33	1/4		1/4	1/4	1/4		1/4	
1/2	1,679.80	1/2	1,348.61	1/2	1,017.49	1/2	699.31	1/2	404.78	1/2	132.90	1/2		1/2	1/2	1/2		1/2	
3/4	1,672.90	3/4	1,341.72	3/4	1,010.61	3/4	692.91	3/4	398.88	3/4	127.46	3/4		3/4	3/4	3/4		3/4	
11	1,666.00	11	1,334.82	11	1,003.77	11	686.55	11	393.01	11	122.07	11		11	11	11		11	
1/4	1,659.10	1/4	1,327.92	1/4	996.93	1/4	680.19	1/4	387.14	1/4	116.67	1/4		1/4	1/4	1/4		1/4	
1/2	1,652.20	1/2	1,321.02	1/2	990.09	1/2	673.84	1/2	381.28	1/2	111.28	1/2		1/2	1/2	1/2		1/2	
3/4	1,645.30	3/4	1,314.12	3/4	983.25	3/4	667.48	3/4	375.41	3/4	105.89	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2014 PMA
RECALCULATED: 10/26/2019 PMA
NAME CHANGE: 10/26/2019 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "KIRBY 27020"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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	5,008.93	0	4,702.43	0	4,363.55	0	3,999.70	0	3,614.77	0	3,226.75	0	2,838.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,001.36	1/4	4,695.65	1/4	4,356.21	1/4	3,991.87	1/4	3,606.69	1/4	3,218.66	1/4	2,830.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,995.50	1/2	4,688.82	1/2	4,348.84	1/2	3,984.01	1/2	3,598.60	1/2	3,210.58	1/2	2,822.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,989.63	3/4	4,682.00	3/4	4,341.48	3/4	3,976.15	3/4	3,590.52	3/4	3,202.49	3/4	2,814.47
1		1		1		1	4,983.76	1	4,675.18	1	4,334.11	1	3,968.29	1	3,582.44	1	3,194.41	1	2,806.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,977.89	1/4	4,668.35	1/4	4,326.74	1/4	3,960.43	1/4	3,574.35	1/4	3,186.33	1/4	2,798.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,971.98	1/2	4,661.49	1/2	4,319.33	1/2	3,952.52	1/2	3,566.27	1/2	3,178.24	1/2	2,790.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,966.08	3/4	4,654.63	3/4	4,311.93	3/4	3,944.61	3/4	3,558.19	3/4	3,170.16	3/4	2,782.13
2		2		2		2	4,960.17	2	4,647.77	2	4,304.52	2	3,936.70	2	3,550.10	2	3,162.07	2	2,774.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.26	1/4	4,640.90	1/4	4,297.12	1/4	3,928.79	1/4	3,542.02	1/4	3,153.99	1/4	2,765.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,948.31	1/2	4,633.99	1/2	4,289.66	1/2	3,920.84	1/2	3,533.93	1/2	3,145.91	1/2	2,757.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,942.35	3/4	4,627.09	3/4	4,282.21	3/4	3,912.90	3/4	3,525.85	3/4	3,137.82	3/4	2,749.80
3		3		3		3	4,936.40	3	4,620.18	3	4,274.76	3	3,904.95	3	3,517.77	3	3,129.74	3	2,741.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,930.44	1/4	4,613.27	1/4	4,267.31	1/4	3,897.01	1/4	3,509.68	1/4	3,121.65	1/4	2,733.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,924.45	1/2	4,606.32	1/2	4,259.83	1/2	3,889.03	1/2	3,501.60	1/2	3,113.57	1/2	2,725.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,918.46	3/4	4,599.38	3/4	4,252.35	3/4	3,881.05	3/4	3,493.51	3/4	3,105.49	3/4	2,717.46
4		4		4		4	4,912.47	4	4,592.43	4	4,244.87	4	3,873.06	4	3,485.43	4	3,097.40	4	2,709.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,906.49	1/4	4,585.49	1/4	4,237.40	1/4	3,865.08	1/4	3,477.35	1/4	3,089.32	1/4	2,701.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,900.46	1/2	4,578.48	1/2	4,229.87	1/2	3,857.05	1/2	3,469.26	1/2	3,081.23	1/2	2,693.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,894.43	3/4	4,571.47	3/4	4,222.34	3/4	3,849.03	3/4	3,461.18	3/4	3,073.15	3/4	2,685.12
5		5		5		5	4,888.41	5	4,564.47	5	4,214.82	5	3,841.00	5	3,453.09	5	3,065.07	5	2,677.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,882.38	1/4	4,557.46	1/4	4,207.29	1/4	3,832.97	1/4	3,445.01	1/4	3,056.98	1/4	2,668.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,875.83	1/2	4,550.42	1/2	4,199.73	1/2	3,824.90	1/2	3,436.93	1/2	3,048.90	1/2	2,660.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,869.28	3/4	4,543.38	3/4	4,192.17	3/4	3,816.84	3/4	3,428.84	3/4	3,040.82	3/4	2,652.79
6		6		6		6	4,862.74	6	4,536.34	6	4,184.61	6	3,808.77	6	3,420.76	6	3,032.73	6	2,644.70
1/4	1/4	1/4	1 1/4	1/4	5,183.49	1/4	4,856.19	1/4	4,529.30	1/4	4,177.05	1/4	3,800.70	1/4	3,412.67	1/4	3,024.65	1/4	2,636.62
1/2	1/2	1/2	1/2	1/2	5,175.88	1/2	4,849.60	1/2	4,522.22	1/2	4,169.43	1/2	3,792.62	1/2	3,404.59	1/2	3,016.56	1/2	2,628.54
3/4	3/4	3/4	3/4	3/4	5,168.27	3/4	4,843.02	3/4	4,515.14	3/4	4,161.82	3/4	3,784.53	3/4	3,396.51	3/4	3,008.48	3/4	2,620.45
7		7		7	5,160.66	7	4,836.43	7	4,508.07	7	4,154.21	7	3,776.45	7	3,388.42	7	3,000.40	7	2,612.37
1/4	1/4	1/4	1/4	1/4	5,153.05	1/4	4,829.85	1/4	4,500.99	1/4	4,146.60	1/4	3,768.37	1/4	3,380.34	1/4	2,992.31	1/4	2,604.28
1/2	1/2	1/2	1/2	1/2	5,145.45	1/2	4,823.22	1/2	4,493.87	1/2	4,138.95	1/2	3,760.28	1/2	3,372.26	1/2	2,984.23	1/2	2,596.20
3/4	3/4	3/4	3/4	3/4	5,137.84	3/4	4,816.58	3/4	4,486.74	3/4	4,131.31	3/4	3,752.20	3/4	3,364.17	3/4	2,976.14	3/4	2,588.12
8		8		8	5,130.23	8	4,809.95	8	4,479.62	8	4,123.66	8	3,744.11	8	3,356.09	8	2,968.06	8	2,580.03
1/4	1/4	1/4	1/4	1/4	5,122.62	1/4	4,803.32	1/4	4,472.50	1/4	4,116.02	1/4	3,736.03	1/4	3,348.00	1/4	2,959.98	1/4	2,571.95
1/2	1/2	1/2	1/2	1/2	5,115.01	1/2	4,796.65	1/2	4,465.29	1/2	4,108.32	1/2	3,727.95	1/2	3,339.92	1/2	2,951.89	1/2	2,563.87
3/4	3/4	3/4	3/4	3/4	5,107.40	3/4	4,789.98	3/4	4,458.09	3/4	4,100.63	3/4	3,719.86	3/4	3,331.84	3/4	2,943.81	3/4	2,555.78
9		9		9	5,099.79	9	4,783.31	9	4,450.89	9	4,092.94	9	3,711.78	9	3,323.75	9	2,935.72	9	2,547.70
1/4	1/4	1/4	1/4	1/4	5,092.18	1/4	4,776.64	1/4	4,443.69	1/4	4,085.24	1/4	3,703.70	1/4	3,315.67	1/4	2,927.64	1/4	2,539.61
1/2	1/2	1/2	1/2	1/2	5,084.62	1/2	4,769.93	1/2	4,436.44	1/2	4,077.50	1/2	3,695.61	1/2	3,307.58	1/2	2,919.56	1/2	2,531.53
3/4	3/4	3/4	3/4	3/4	5,077.05	3/4	4,763.21	3/4	4,429.19	3/4	4,069.76	3/4	3,687.53	3/4	3,299.50	3/4	2,911.47	3/4	2,523.45
10		10		10	5,069.48	10	4,756.49	10	4,421.94	10	4,062.02	10	3,679.44	10	3,291.42	10	2,903.39	10	2,515.36
1/4	1/4	1/4	1/4	1/4	5,061.91	1/4	4,749.77	1/4	4,414.69	1/4	4,054.28	1/4	3,671.36	1/4	3,283.33	1/4	2,895.31	1/4	2,507.28
1/2	1/2	1/2	1/2	1/2	5,054.34	1/2	4,743.02	1/2	4,407.41	1/2	4,046.50	1/2	3,663.28	1/2	3,275.25	1/2	2,887.22	1/2	2,499.19
3/4	3/4	3/4	3/4	3/4	5,046.77	3/4	4,736.27	3/4	4,400.12	3/4	4,038.73	3/4	3,655.19	3/4	3,267.16	3/4	2,879.14	3/4	2,491.11
11		11		11	5,039.21	11	4,729.51	11	4,392.84	11	4,030.95	11	3,647.11	11	3,259.08	11	2,871.05	11	2,483.03
1/4	1/4	1/4	1/4	1/4	5,031.64	1/4	4,722.76	1/4	4,385.55	1/4	4,023.17	1/4	3,639.02	1/4	3,251.00	1/4	2,862.97	1/4	2,474.94
1/2	1/2	1/2	1/2	1/2	5,024.07	1/2	4,715.98	1/2	4,378.22	1/2	4,015.35	1/2	3,630.94	1/2	3,242.91	1/2	2,854.89	1/2	2,466.86
3/4	3/4	3/4	3/4	3/4	5,016.50	3/4	4,709.20	3/4	4,370.88	3/4	4,007.52	3/4	3,622.86	3/4	3,234.83	3/4	2,846.80	3/4	2,458.77

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'-06" OFF CENTERLINE AND 51'-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 27020"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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	2,450.69	0	2,062.66	0	1,674.64	0	1,286.61	0	898.58	0	524.93	0	137.83	0		0		0	
1/4	2,442.61	1/4	2,054.58	1/4	1,666.55	1/4	1,278.53	1/4	890.50	1/4	517.15	1/4	129.75	1/4	1/4	1/4		1/4	1/4
1/2	2,434.52	1/2	2,046.50	1/2	1,658.47	1/2	1,270.44	1/2	882.57	1/2	509.22	1/2	121.66	1/2	1/2	1/2		1/2	1/2
3/4	2,426.44	3/4	2,038.41	3/4	1,650.38	3/4	1,262.36	3/4	874.64	3/4	501.29	3/4	113.58	3/4	3/4	3/4		3/4	3/4
1	2,418.36	1	2,030.33	1	1,642.30	1	1,254.27	1	866.71	1	493.36	1	105.49	1	1	1		1	1
1/4	2,410.27	1/4	2,022.24	1/4	1,634.22	1/4	1,246.19	1/4	858.78	1/4	485.42	1/4	97.41	1/4	1/4	1/4		1/4	1/4
1/2	2,402.19	1/2	2,014.16	1/2	1,626.13	1/2	1,238.11	1/2	851.01	1/2	477.34	1/2	89.33	1/2	1/2	1/2		1/2	1/2
3/4	2,394.10	3/4	2,006.08	3/4	1,618.05	3/4	1,230.02	3/4	843.24	3/4	469.26	3/4	81.24	3/4	3/4	3/4		3/4	3/4
2	2,386.02	2	1,997.99	2	1,609.97	2	1,221.94	2	835.47	2	461.17	2	73.16	2	2	2		2	2
1/4	2,377.94	1/4	1,989.91	1/4	1,601.88	1/4	1,213.85	1/4	827.70	1/4	453.09	1/4	65.08	1/4	1/4	1/4		1/4	1/4
1/2	2,369.85	1/2	1,981.82	1/2	1,593.80	1/2	1,205.77	1/2	819.94	1/2	445.01	1/2	58.00	1/2	1/2	1/2		1/2	1/2
3/4	2,361.77	3/4	1,973.74	3/4	1,585.71	3/4	1,197.69	3/4	812.18	3/4	436.92	3/4	50.93	3/4	3/4	3/4		3/4	3/4
3	2,353.68	3	1,965.66	3	1,577.63	3	1,189.60	3	804.42	3	428.84	3	43.85	3	3	3		3	3
1/4	2,345.60	1/4	1,957.57	1/4	1,569.55	1/4	1,181.52	1/4	796.65	1/4	420.76	1/4	36.78	1/4	1/4	1/4		1/4	1/4
1/2	2,337.52	1/2	1,949.49	1/2	1,561.46	1/2	1,173.43	1/2	788.89	1/2	412.67	1/2	31.73	1/2	1/2	1/2		1/2	1/2
3/4	2,329.43	3/4	1,941.40	3/4	1,553.38	3/4	1,165.35	3/4	781.13	3/4	404.59	3/4	26.68	3/4	3/4	3/4		3/4	3/4
4	2,321.35	4	1,933.32	4	1,545.29	4	1,157.27	4	773.37	4	396.50	4	21.62	4	4	4		4	4
1/4	2,313.26	1/4	1,925.24	1/4	1,537.21	1/4	1,149.18	1/4	765.61	1/4	388.42	1/4	16.57	1/4	1/4	1/4		1/4	1/4
1/2	2,305.18	1/2	1,917.15	1/2	1,529.13	1/2	1,141.10	1/2	757.84	1/2	380.34	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,297.10	3/4	1,909.07	3/4	1,521.04	3/4	1,133.01	3/4	750.08	3/4	372.25	3/4		3/4	3/4	3/4		3/4	3/4
5	2,289.01	5	1,900.99	5	1,512.96	5	1,124.93	5	742.32	5	364.17	5		5	5	5		5	5
1/4	2,280.93	1/4	1,892.90	1/4	1,504.87	1/4	1,116.85	1/4	734.56	1/4	356.09	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,272.84	1/2	1,884.82	1/2	1,496.79	1/2	1,108.76	1/2	726.80	1/2	348.00	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,264.76	3/4	1,876.73	3/4	1,488.71	3/4	1,100.68	3/4	719.04	3/4	339.92	3/4		3/4	3/4	3/4		3/4	3/4
6	2,256.68	6	1,868.65	6	1,480.62	6	1,092.60	6	711.27	6	331.84	6		6	6	6		6	6
1/4	2,248.59	1/4	1,860.57	1/4	1,472.54	1/4	1,084.51	1/4	703.51	1/4	323.75	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,240.51	1/2	1,852.48	1/2	1,464.45	1/2	1,076.43	1/2	695.75	1/2	315.67	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,232.43	3/4	1,844.40	3/4	1,456.37	3/4	1,068.34	3/4	687.99	3/4	307.58	3/4		3/4	3/4	3/4		3/4	3/4
7	2,224.34	7	1,836.31	7	1,448.29	7	1,060.26	7	680.23	7	299.50	7		7	7	7		7	7
1/4	2,216.26	1/4	1,828.23	1/4	1,440.20	1/4	1,052.18	1/4	672.47	1/4	291.42	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,208.17	1/2	1,820.15	1/2	1,432.12	1/2	1,044.09	1/2	664.71	1/2	283.33	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,200.09	3/4	1,812.06	3/4	1,424.04	3/4	1,036.01	3/4	656.95	3/4	275.25	3/4		3/4	3/4	3/4		3/4	3/4
8	2,192.01	8	1,803.98	8	1,415.95	8	1,027.92	8	649.19	8	267.17	8		8	8	8		8	8
1/4	2,183.92	1/4	1,795.89	1/4	1,407.87	1/4	1,019.84	1/4	641.43	1/4	259.08	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,175.84	1/2	1,787.81	1/2	1,399.78	1/2	1,011.76	1/2	633.67	1/2	251.00	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,167.75	3/4	1,779.73	3/4	1,391.70	3/4	1,003.67	3/4	625.90	3/4	242.92	3/4		3/4	3/4	3/4		3/4	3/4
9	2,159.67	9	1,771.64	9	1,383.62	9	995.59	9	618.14	9	234.83	9		9	9	9		9	9
1/4	2,151.59	1/4	1,763.56	1/4	1,375.53	1/4	987.50	1/4	610.38	1/4	226.75	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,143.50	1/2	1,755.48	1/2	1,367.45	1/2	979.42	1/2	602.62	1/2	218.67	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,135.42	3/4	1,747.39	3/4	1,359.36	3/4	971.34	3/4	594.86	3/4	210.58	3/4		3/4	3/4	3/4		3/4	3/4
10	2,127.33	10	1,739.31	10	1,351.28	10	963.25	10	587.09	10	202.50	10		10	10	10		10	10
1/4	2,119.25	1/4	1,731.22	1/4	1,343.20	1/4	955.17	1/4	579.33	1/4	194.41	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,111.17	1/2	1,723.14	1/2	1,335.11	1/2	947.09	1/2	571.56	1/2	186.33	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,103.08	3/4	1,715.06	3/4	1,327.03	3/4	939.00	3/4	563.80	3/4	178.25	3/4		3/4	3/4	3/4		3/4	3/4
11	2,095.00	11	1,706.97	11	1,318.94	11	930.92	11	556.03	11	170.16	11		11	11	11		11	11
1/4	2,086.92	1/4	1,698.89	1/4	1,310.86	1/4	922.83	1/4	548.26	1/4	162.08	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,078.83	1/2	1,690.80	1/2	1,302.78	1/2	914.75	1/2	540.48	1/2	154.00	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,070.75	3/4	1,682.72	3/4	1,294.69	3/4	906.67	3/4	532.70	3/4	145.91	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2014 PMA
RECALCULATED: 10/26/2019 PMA
NAME CHANGE: 10/26/2019 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "KIRBY 27020"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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	5,033.58	0	4,726.08	0	4,387.57	0	4,024.03	0	3,639.17	0	3,250.97	0	2,862.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,026.01	1/4	4,719.30	1/4	4,380.23	1/4	4,016.20	1/4	3,631.09	1/4	3,242.89	1/4	2,854.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,018.43	1/2	4,712.52	1/2	4,372.89	1/2	4,008.37	1/2	3,623.00	1/2	3,234.80	1/2	2,846.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,012.56	3/4	4,705.69	3/4	4,365.52	3/4	4,000.50	3/4	3,614.91	3/4	3,226.71	3/4	2,838.51
1		1		1		1	5,006.69	1	4,698.86	1	4,358.15	1	3,992.64	1	3,606.82	1	3,218.62	1	2,830.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,000.81	1/4	4,692.03	1/4	4,350.77	1/4	3,984.77	1/4	3,598.74	1/4	3,210.54	1/4	2,822.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,994.94	1/2	4,685.20	1/2	4,343.40	1/2	3,976.91	1/2	3,590.65	1/2	3,202.45	1/2	2,814.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,989.03	3/4	4,678.34	3/4	4,335.99	3/4	3,969.00	3/4	3,582.56	3/4	3,194.36	3/4	2,806.16
2		2		2		2	4,983.12	2	4,671.47	2	4,328.58	2	3,961.08	2	3,574.47	2	3,186.27	2	2,798.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,977.21	1/4	4,664.60	1/4	4,321.17	1/4	3,953.17	1/4	3,566.39	1/4	3,178.19	1/4	2,789.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,971.30	1/2	4,657.74	1/2	4,313.76	1/2	3,945.25	1/2	3,558.30	1/2	3,170.10	1/2	2,781.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,965.34	3/4	4,650.83	3/4	4,306.31	3/4	3,937.30	3/4	3,550.21	3/4	3,162.01	3/4	2,773.81
3		3		3		3	4,959.38	3	4,643.91	3	4,298.85	3	3,929.36	3	3,542.12	3	3,153.92	3	2,765.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,953.42	1/4	4,637.00	1/4	4,291.39	1/4	3,921.41	1/4	3,534.04	1/4	3,145.84	1/4	2,757.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,947.46	1/2	4,630.09	1/2	4,283.94	1/2	3,913.46	1/2	3,525.95	1/2	3,137.75	1/2	2,749.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,941.46	3/4	4,623.14	3/4	4,276.46	3/4	3,905.47	3/4	3,517.86	3/4	3,129.66	3/4	2,741.46
4		4		4		4	4,935.47	4	4,616.19	4	4,268.97	4	3,897.49	4	3,509.77	4	3,121.57	4	2,733.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,929.48	1/4	4,609.24	1/4	4,261.49	1/4	3,889.50	1/4	3,501.69	1/4	3,113.49	1/4	2,725.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,923.48	1/2	4,602.29	1/2	4,254.01	1/2	3,881.52	1/2	3,493.60	1/2	3,105.40	1/2	2,717.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,917.45	3/4	4,595.28	3/4	4,246.48	3/4	3,873.49	3/4	3,485.51	3/4	3,097.31	3/4	2,709.11
5		5		5		5	4,911.42	5	4,588.27	5	4,238.95	5	3,865.46	5	3,477.42	5	3,089.22	5	2,701.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,905.39	1/4	4,581.26	1/4	4,231.42	1/4	3,857.42	1/4	3,469.34	1/4	3,081.14	1/4	2,692.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,899.36	1/2	4,574.25	1/2	4,223.89	1/2	3,849.39	1/2	3,461.25	1/2	3,073.05	1/2	2,684.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,892.81	3/4	4,567.20	3/4	4,216.33	3/4	3,841.32	3/4	3,453.16	3/4	3,064.96	3/4	2,676.76
6		6		6		6	4,886.26	6	4,560.16	6	4,208.76	6	3,833.25	6	3,445.07	6	3,056.87	6	2,668.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,879.71	1/4	4,553.11	1/4	4,201.20	1/4	3,825.17	1/4	3,436.99	1/4	3,048.79	1/4	2,660.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,200.65	1/2	4,873.15	1/2	4,546.07	1/2	4,193.63	1/2	3,817.10	1/2	3,428.90	1/2	3,040.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,193.04	3/4	4,866.57	3/4	4,538.99	3/4	4,186.01	3/4	3,809.01	3/4	3,420.81	3/4	3,032.61
7		7		7		7	5,185.42	7	4,859.98	7	4,531.91	7	4,178.40	7	3,800.92	7	3,412.72	7	3,024.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,177.81	1/4	4,853.39	1/4	4,524.83	1/4	4,170.78	1/4	3,792.84	1/4	3,404.64	1/4	3,016.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,170.20	1/2	4,846.80	1/2	4,517.74	1/2	4,163.17	1/2	3,784.75	1/2	3,396.55	1/2	3,008.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,162.59	3/4	4,840.16	3/4	4,510.62	3/4	4,155.52	3/4	3,776.66	3/4	3,388.46	3/4	3,000.26
8		8		8		8	5,154.97	8	4,833.52	8	4,503.49	8	4,147.87	8	3,768.57	8	3,380.37	8	2,992.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,147.36	1/4	4,826.89	1/4	4,496.36	1/4	4,140.22	1/4	3,760.49	1/4	3,372.29	1/4	2,984.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,139.75	1/2	4,820.25	1/2	4,489.23	1/2	4,132.57	1/2	3,752.40	1/2	3,364.20	1/2	2,976.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,132.14	3/4	4,813.58	3/4	4,482.03	3/4	4,124.87	3/4	3,744.31	3/4	3,356.11	3/4	2,967.91
9		9		9		9	5,124.52	9	4,806.91	9	4,474.82	9	4,117.18	9	3,736.22	9	3,348.02	9	2,959.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,116.91	1/4	4,800.23	1/4	4,467.62	1/4	4,109.48	1/4	3,728.14	1/4	3,339.94	1/4	2,951.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,109.30	1/2	4,793.56	1/2	4,460.41	1/2	4,101.78	1/2	3,720.05	1/2	3,331.85	1/2	2,943.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,101.73	3/4	4,786.84	3/4	4,453.16	3/4	4,094.04	3/4	3,711.96	3/4	3,323.76	3/4	2,935.56
10		10		10		10	5,094.15	10	4,780.12	10	4,445.91	10	4,086.29	10	3,703.87	10	3,315.67	10	2,927.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,086.58	1/4	4,773.39	1/4	4,438.65	1/4	4,078.55	1/4	3,695.79	1/4	3,307.59	1/4	2,919.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,079.01	1/2	4,766.67	1/2	4,431.40	1/2	4,070.81	1/2	3,687.70	1/2	3,299.50	1/2	2,911.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,071.44	3/4	4,759.91	3/4	4,424.11	3/4	4,063.03	3/4	3,679.61	3/4	3,291.41	3/4	2,903.21
11		11		11		11	5,063.87	11	4,753.16	11	4,416.82	11	4,055.24	11	3,671.52	11	3,283.32	11	2,895.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,056.29	1/4	4,746.40	1/4	4,409.54	1/4	4,047.46	1/4	3,663.44	1/4	3,275.24	1/4	2,887.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,048.72	1/2	4,739.64	1/2	4,402.25	1/2	4,039.68	1/2	3,655.35	1/2	3,267.15	1/2	2,878.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,041.15	3/4	4,732.86	3/4	4,394.91	3/4	4,031.85	3/4	3,647.26	3/4	3,259.06	3/4	2,870.86

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'-06" OFF CENTERLINE AND 51'-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 27020"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,474.57	0	2,086.37	0	1,698.17	0	1,309.97	0	921.77	0	534.16	0	145.97	0		0		0	
1/4	2,466.49	1/4	2,078.29	1/4	1,690.09	1/4	1,301.89	1/4	913.69	1/4	526.07	1/4	137.88	1/4	1/4	1/4		1/4	
1/2	2,458.40	1/2	2,070.20	1/2	1,682.00	1/2	1,293.80	1/2	905.60	1/2	517.99	1/2	129.80	1/2	1/2	1/2		1/2	
3/4	2,450.31	3/4	2,062.11	3/4	1,673.91	3/4	1,285.71	3/4	897.51	3/4	509.90	3/4	121.71	3/4	3/4	3/4		3/4	
1	2,442.22	1	2,054.02	1	1,665.82	1	1,277.62	1	889.42	1	501.81	1	113.62	1	1	1		1	
1/4	2,434.14	1/4	2,045.94	1/4	1,657.74	1/4	1,269.54	1/4	881.34	1/4	493.72	1/4	105.53	1/4	1/4	1/4		1/4	
1/2	2,426.05	1/2	2,037.85	1/2	1,649.65	1/2	1,261.45	1/2	873.25	1/2	485.64	1/2	97.45	1/2	1/2	1/2		1/2	
3/4	2,417.96	3/4	2,029.76	3/4	1,641.56	3/4	1,253.36	3/4	865.17	3/4	477.55	3/4	89.36	3/4	3/4	3/4		3/4	
2	2,409.87	2	2,021.67	2	1,633.47	2	1,245.27	2	857.09	2	469.46	2	81.27	2	2	2		2	
1/4	2,401.79	1/4	2,013.59	1/4	1,625.39	1/4	1,237.19	1/4	849.01	1/4	461.37	1/4	73.18	1/4	1/4	1/4		1/4	
1/2	2,393.70	1/2	2,005.50	1/2	1,617.30	1/2	1,229.10	1/2	840.94	1/2	453.29	1/2	65.10	1/2	1/2	1/2		1/2	
3/4	2,385.61	3/4	1,997.41	3/4	1,609.21	3/4	1,221.01	3/4	832.86	3/4	445.20	3/4	58.02	3/4	3/4	3/4		3/4	
3	2,377.52	3	1,989.32	3	1,601.12	3	1,212.92	3	824.79	3	437.11	3	50.94	3	3	3		3	
1/4	2,369.44	1/4	1,981.24	1/4	1,593.04	1/4	1,204.84	1/4	816.72	1/4	429.03	1/4	43.86	1/4	1/4	1/4		1/4	
1/2	2,361.35	1/2	1,973.15	1/2	1,584.95	1/2	1,196.75	1/2	808.65	1/2	420.94	1/2	36.79	1/2	1/2	1/2		1/2	
3/4	2,353.26	3/4	1,965.06	3/4	1,576.86	3/4	1,188.66	3/4	800.58	3/4	412.85	3/4	31.73	3/4	3/4	3/4		3/4	
4	2,345.17	4	1,956.97	4	1,568.77	4	1,180.57	4	792.50	4	404.76	4	26.68	4	4	4		4	
1/4	2,337.09	1/4	1,948.89	1/4	1,560.69	1/4	1,172.49	1/4	784.43	1/4	396.68	1/4	21.62	1/4	1/4	1/4		1/4	
1/2	2,329.00	1/2	1,940.80	1/2	1,552.60	1/2	1,164.40	1/2	776.36	1/2	388.59	1/2	16.57	1/2	1/2	1/2		1/2	
3/4	2,320.91	3/4	1,932.71	3/4	1,544.51	3/4	1,156.31	3/4	768.29	3/4	380.50	3/4		3/4	3/4	3/4		3/4	
5	2,312.82	5	1,924.62	5	1,536.42	5	1,148.22	5	760.22	5	372.41	5		5	5	5		5	
1/4	2,304.74	1/4	1,916.54	1/4	1,528.34	1/4	1,140.14	1/4	752.15	1/4	364.33	1/4		1/4	1/4	1/4		1/4	
1/2	2,296.65	1/2	1,908.45	1/2	1,520.25	1/2	1,132.05	1/2	744.07	1/2	356.24	1/2		1/2	1/2	1/2		1/2	
3/4	2,288.56	3/4	1,900.36	3/4	1,512.16	3/4	1,123.96	3/4	736.00	3/4	348.15	3/4		3/4	3/4	3/4		3/4	
6	2,280.47	6	1,892.27	6	1,504.07	6	1,115.87	6	727.93	6	340.06	6		6	6	6		6	
1/4	2,272.39	1/4	1,884.19	1/4	1,495.99	1/4	1,107.79	1/4	719.86	1/4	331.98	1/4		1/4	1/4	1/4		1/4	
1/2	2,264.30	1/2	1,876.10	1/2	1,487.90	1/2	1,099.70	1/2	711.79	1/2	323.89	1/2		1/2	1/2	1/2		1/2	
3/4	2,256.21	3/4	1,868.01	3/4	1,479.81	3/4	1,091.61	3/4	703.72	3/4	315.80	3/4		3/4	3/4	3/4		3/4	
7	2,248.12	7	1,859.92	7	1,471.72	7	1,083.52	7	695.65	7	307.72	7		7	7	7		7	
1/4	2,240.04	1/4	1,851.84	1/4	1,463.64	1/4	1,075.44	1/4	687.58	1/4	299.63	1/4		1/4	1/4	1/4		1/4	
1/2	2,231.95	1/2	1,843.75	1/2	1,455.55	1/2	1,067.35	1/2	679.50	1/2	291.54	1/2		1/2	1/2	1/2		1/2	
3/4	2,223.86	3/4	1,835.66	3/4	1,447.46	3/4	1,059.26	3/4	671.43	3/4	283.45	3/4		3/4	3/4	3/4		3/4	
8	2,215.77	8	1,827.57	8	1,439.37	8	1,051.17	8	663.36	8	275.37	8		8	8	8		8	
1/4	2,207.69	1/4	1,819.49	1/4	1,431.29	1/4	1,043.09	1/4	655.29	1/4	267.28	1/4		1/4	1/4	1/4		1/4	
1/2	2,199.60	1/2	1,811.40	1/2	1,423.20	1/2	1,035.00	1/2	647.22	1/2	259.19	1/2		1/2	1/2	1/2		1/2	
3/4	2,191.51	3/4	1,803.31	3/4	1,415.11	3/4	1,026.91	3/4	639.15	3/4	251.10	3/4		3/4	3/4	3/4		3/4	
9	2,183.42	9	1,795.22	9	1,407.02	9	1,018.82	9	631.08	9	243.02	9		9	9	9		9	
1/4	2,175.34	1/4	1,787.14	1/4	1,398.94	1/4	1,010.74	1/4	623.01	1/4	234.93	1/4		1/4	1/4	1/4		1/4	
1/2	2,167.25	1/2	1,779.05	1/2	1,390.85	1/2	1,002.65	1/2	614.93	1/2	226.84	1/2		1/2	1/2	1/2		1/2	
3/4	2,159.16	3/4	1,770.96	3/4	1,382.76	3/4	994.56	3/4	606.86	3/4	218.76	3/4		3/4	3/4	3/4		3/4	
10	2,151.07	10	1,762.87	10	1,374.67	10	986.47	10	598.79	10	210.68	10		10	10	10		10	
1/4	2,142.99	1/4	1,754.79	1/4	1,366.59	1/4	978.39	1/4	590.72	1/4	202.58	1/4		1/4	1/4	1/4		1/4	
1/2	2,134.90	1/2	1,746.70	1/2	1,358.50	1/2	970.30	1/2	582.65	1/2	194.49	1/2		1/2	1/2	1/2		1/2	
3/4	2,126.81	3/4	1,738.61	3/4	1,350.41	3/4	962.21	3/4	574.57	3/4	186.41	3/4		3/4	3/4	3/4		3/4	
11	2,118.72	11	1,730.52	11	1,342.32	11	954.12	11	566.49	11	178.32	11		11	11	11		11	
1/4	2,110.64	1/4	1,722.44	1/4	1,334.24	1/4	946.04	1/4	558.41	1/4	170.23	1/4		1/4	1/4	1/4		1/4	
1/2	2,102.55	1/2	1,714.35	1/2	1,326.15	1/2	937.95	1/2	550.33	1/2	162.14	1/2		1/2	1/2	1/2		1/2	
3/4	2,094.46	3/4	1,706.26	3/4	1,318.06	3/4	929.86	3/4	542.25	3/4	154.06	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2014 PMA
RECALCULATED: 10/26/2019 PMA
NAME CHANGE: 10/26/2019 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "KIRBY 27020"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 1/2"

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
							4,283.99		4,084.27		3,865.53		3,623.77		3,360.76		3,008.40		2,647.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,278.50	1/4	4,079.96	1/4	3,860.72	1/4	3,618.46	1/4	3,355.23	1/4	3,000.90	1/4	2,640.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,273.02	1/2	4,075.65	1/2	3,855.90	1/2	3,613.16	1/2	3,349.69	1/2	2,993.39	1/2	2,632.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,269.12	3/4	4,071.30	3/4	3,851.05	3/4	3,607.82	3/4	3,343.16	3/4	2,985.88	3/4	2,625.25		
1	1	1	1	1	1	1	4,066.21	1	4,066.95	1	3,846.21	1	3,602.48	1	3,336.64	1	2,978.37	1	2,617.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,261.31	1/4	4,062.59	1/4	3,841.36	1/4	3,597.14	1/4	3,330.11	1/4	2,970.85	1/4	2,610.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,257.40	1/2	4,058.24	1/2	3,836.51	1/2	3,591.80	1/2	3,323.59	1/2	2,963.34	1/2	2,602.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,253.46	3/4	4,053.85	3/4	3,831.63	3/4	3,586.42	3/4	3,316.07	3/4	2,955.83	3/4	2,595.19		
2	2	2	2	2	2	2	4,049.52	2	4,049.47	2	3,826.75	2	3,581.03	2	3,308.56	2	2,948.31	2	2,587.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,245.59	1/4	4,045.08	1/4	3,821.87	1/4	3,575.65	1/4	3,301.05	1/4	2,940.80	1/4	2,580.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,241.65	1/2	4,040.69	1/2	3,816.98	1/2	3,570.26	1/2	3,293.54	1/2	2,933.29	1/2	2,572.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,237.66	3/4	4,036.26	3/4	3,812.06	3/4	3,564.84	3/4	3,286.03	3/4	2,925.78	3/4	2,565.13		
3	3	3	3	3	3	3	4,033.68	3	4,031.82	3	3,807.14	3	3,559.43	3	3,278.52	3	2,918.26	3	2,557.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,229.69	1/4	4,027.39	1/4	3,802.21	1/4	3,554.01	1/4	3,271.00	1/4	2,910.75	1/4	2,550.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,225.71	1/2	4,022.96	1/2	3,797.29	1/2	3,548.60	1/2	3,263.49	1/2	2,903.24	1/2	2,542.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,221.69	3/4	4,018.49	3/4	3,792.34	3/4	3,543.14	3/4	3,255.99	3/4	2,895.72	3/4	2,535.04		
4	4	4	4	4	4	4	4,017.68	4	4,014.03	4	3,787.38	4	3,537.69	4	3,248.49	4	2,888.21	4	2,527.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,213.66	1/4	4,009.56	1/4	3,782.43	1/4	3,532.24	1/4	3,240.98	1/4	2,880.70	1/4	2,520.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,209.64	1/2	4,005.10	1/2	3,777.48	1/2	3,526.79	1/2	3,233.48	1/2	2,873.18	1/2	2,512.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,205.59	3/4	4,000.58	3/4	3,772.49	3/4	3,521.30	3/4	3,225.98	3/4	2,865.67	3/4	2,504.95		
5	5	5	5	5	5	5	4,201.54	5	3,996.06	5	3,767.49	5	3,515.80	5	3,218.48	5	2,858.16	5	2,497.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,197.49	1/4	3,991.54	1/4	3,762.49	1/4	3,510.31	1/4	3,210.97	1/4	2,850.64	1/4	2,489.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,193.44	1/2	3,987.02	1/2	3,757.50	1/2	3,504.81	1/2	3,203.47	1/2	2,843.13	1/2	2,482.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,189.35	3/4	3,982.47	3/4	3,752.47	3/4	3,499.29	3/4	3,195.97	3/4	2,835.62	3/4	2,474.86		
6	6	6	6	6	6	6	4,185.25	6	3,977.91	6	3,747.44	6	3,493.76	6	3,188.46	6	2,828.10	6	2,467.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,181.16	1/4	3,973.36	1/4	3,742.41	1/4	3,488.23	1/4	3,180.96	1/4	2,820.59	1/4	2,459.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,408.93	1/2	4,177.07	1/2	3,968.81	1/2	3,737.38	1/2	3,482.70	1/2	3,173.46	1/2	2,813.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,402.43	3/4	4,172.94	3/4	3,964.23	3/4	3,732.31	3/4	3,477.15	3/4	3,165.96	3/4	2,805.56		
7	7	7	7	7	7	7	4,395.93	7	4,168.81	7	3,959.64	7	3,727.23	7	3,471.61	7	3,158.45	7	2,798.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,389.43	1/4	4,164.68	1/4	3,955.05	1/4	3,722.16	1/4	3,466.06	1/4	3,150.95	1/4	2,790.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,382.93	1/2	4,160.55	1/2	3,950.47	1/2	3,717.08	1/2	3,460.51	1/2	3,143.45	1/2	2,783.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,377.41	3/4	4,156.38	3/4	3,945.84	3/4	3,711.97	3/4	3,454.96	3/4	3,135.95	3/4	2,775.51		
8	8	8	8	8	8	8	4,371.90	8	4,152.21	8	3,941.21	8	3,706.87	8	3,449.42	8	3,128.44	8	2,768.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,366.39	1/4	4,148.04	1/4	3,936.58	1/4	3,701.76	1/4	3,443.87	1/4	3,120.94	1/4	2,760.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,360.88	1/2	4,143.86	1/2	3,931.95	1/2	3,696.65	1/2	3,438.32	1/2	3,113.44	1/2	2,752.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,355.36	3/4	4,139.66	3/4	3,927.26	3/4	3,691.50	3/4	3,432.77	3/4	3,105.93	3/4	2,745.46		
9	9	9	9	9	9	9	4,349.85	9	4,135.45	9	3,922.57	9	3,686.35	9	3,427.23	9	3,098.43	9	2,737.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,344.34	1/4	4,131.25	1/4	3,917.88	1/4	3,681.21	1/4	3,421.68	1/4	3,090.93	1/4	2,730.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,338.83	1/2	4,127.04	1/2	3,913.19	1/2	3,676.06	1/2	3,416.13	1/2	3,083.43	1/2	2,722.92		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,333.34	3/4	4,122.79	3/4	3,908.45	3/4	3,670.86	3/4	3,410.60	3/4	3,075.92	3/4	2,715.41		
10	10	10	10	10	10	10	4,327.86	10	4,118.53	10	3,903.71	10	3,665.67	10	3,405.06	10	3,068.42	10	2,707.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,322.38	1/4	4,114.28	1/4	3,898.98	1/4	3,660.48	1/4	3,399.52	1/4	3,060.92	1/4	2,700.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,316.89	1/2	4,110.03	1/2	3,894.24	1/2	3,655.29	1/2	3,393.99	1/2	3,053.42	1/2	2,692.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,311.41	3/4	4,105.75	3/4	3,889.47	3/4	3,650.06	3/4	3,388.45	3/4	3,045.91	3/4	2,685.35		
11	11	11	11	11	11	11	4,305.92	11	4,101.46	11	3,884.70	11	3,644.83	11	3,382.91	11	3,038.41	11	2,677.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,300.44	1/4	4,097.18	1/4	3,879.93	1/4	3,639.61	1/4	3,377.37	1/4	3,030.91	1/4	2,670.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,294.96	1/2	4,092.90	1/2	3,875.16	1/2	3,634.38	1/2	3,371.84	1/2	3,023.40	1/2	2,662.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,289.47	3/4	4,088.58	3/4	3,870.35	3/4	3,629.07	3/4	3,366.30	3/4	3,015.90	3/4	2,655.30		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-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 27020"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,286.80	0	1,925.72	0	1,565.64	0	1,204.85	0	843.92	0	495.85	0	135.84	0		0		0	
1/4	2,279.28	1/4	1,918.20	1/4	1,558.15	1/4	1,197.33	1/4	836.40	1/4	488.61	1/4	128.32	1/4	1/4		1/4		1/4
1/2	2,271.75	1/2	1,910.67	1/2	1,550.65	1/2	1,189.81	1/2	828.89	1/2	481.38	1/2	120.79	1/2	1/2		1/2		1/2
3/4	2,264.23	3/4	1,903.15	3/4	1,543.15	3/4	1,182.29	3/4	821.50	3/4	474.00	3/4	113.27	3/4	3/4		3/4		3/4
1	2,256.71	1	1,895.63	1	1,535.65	1	1,174.77	1	814.12	1	466.63	1	105.75	1	1		1		1
1/4	2,249.19	1/4	1,888.11	1/4	1,528.15	1/4	1,167.25	1/4	806.73	1/4	459.25	1/4	98.22	1/4	1/4		1/4		1/4
1/2	2,241.66	1/2	1,880.58	1/2	1,520.65	1/2	1,159.73	1/2	799.35	1/2	451.88	1/2	90.70	1/2	1/2		1/2		1/2
3/4	2,234.14	3/4	1,873.09	3/4	1,513.13	3/4	1,152.21	3/4	792.11	3/4	444.35	3/4	83.17	3/4	3/4		3/4		3/4
2	2,226.62	2	1,865.59	2	1,505.61	2	1,144.69	2	784.87	2	436.83	2	75.65	2	2		2		2
1/4	2,219.10	1/4	1,858.09	1/4	1,498.09	1/4	1,137.17	1/4	777.63	1/4	429.30	1/4	68.12	1/4	1/4		1/4		1/4
1/2	2,211.57	1/2	1,850.59	1/2	1,490.58	1/2	1,129.65	1/2	770.39	1/2	421.78	1/2	60.60	1/2	1/2		1/2		1/2
3/4	2,204.05	3/4	1,843.09	3/4	1,483.06	3/4	1,122.13	3/4	763.15	3/4	414.25	3/4	54.01	3/4	3/4		3/4		3/4
3	2,196.53	3	1,835.59	3	1,475.54	3	1,114.62	3	755.92	3	406.73	3	47.43	3	3		3		3
1/4	2,189.01	1/4	1,828.09	1/4	1,468.02	1/4	1,107.10	1/4	748.69	1/4	399.21	1/4	40.84	1/4	1/4		1/4		1/4
1/2	2,181.48	1/2	1,820.60	1/2	1,460.50	1/2	1,099.58	1/2	741.45	1/2	391.68	1/2	34.26	1/2	1/2		1/2		1/2
3/4	2,173.96	3/4	1,813.10	3/4	1,452.98	3/4	1,092.06	3/4	734.23	3/4	384.16	3/4	29.56	3/4	3/4		3/4		3/4
4	2,166.44	4	1,805.60	4	1,445.46	4	1,084.54	4	727.01	4	376.63	4	24.85	4	4		4		4
1/4	2,158.92	1/4	1,798.10	1/4	1,437.94	1/4	1,077.02	1/4	719.79	1/4	369.11	1/4	20.15	1/4	1/4		1/4		1/4
1/2	2,151.39	1/2	1,790.60	1/2	1,430.42	1/2	1,069.50	1/2	712.57	1/2	361.58	1/2	15.45	1/2	1/2		1/2		1/2
3/4	2,143.87	3/4	1,783.10	3/4	1,422.90	3/4	1,061.98	3/4	705.34	3/4	354.06	3/4		3/4	3/4		3/4		3/4
5	2,136.35	5	1,775.60	5	1,415.38	5	1,054.46	5	698.12	5	346.53	5		5	5		5		5
1/4	2,128.83	1/4	1,768.11	1/4	1,407.86	1/4	1,046.94	1/4	690.90	1/4	339.01	1/4		1/4	1/4		1/4		1/4
1/2	2,121.30	1/2	1,760.61	1/2	1,400.34	1/2	1,039.42	1/2	683.68	1/2	331.48	1/2		1/2	1/2		1/2		1/2
3/4	2,113.78	3/4	1,753.11	3/4	1,392.83	3/4	1,031.90	3/4	676.45	3/4	323.96	3/4		3/4	3/4		3/4		3/4
6	2,106.26	6	1,745.61	6	1,385.31	6	1,024.38	6	669.23	6	316.43	6		6	6		6		6
1/4	2,098.74	1/4	1,738.11	1/4	1,377.79	1/4	1,016.87	1/4	662.01	1/4	308.91	1/4		1/4	1/4		1/4		1/4
1/2	2,091.21	1/2	1,730.61	1/2	1,370.27	1/2	1,009.35	1/2	654.79	1/2	301.39	1/2		1/2	1/2		1/2		1/2
3/4	2,083.69	3/4	1,723.11	3/4	1,362.75	3/4	1,001.83	3/4	647.57	3/4	293.86	3/4		3/4	3/4		3/4		3/4
7	2,076.17	7	1,715.62	7	1,355.23	7	994.31	7	640.35	7	286.34	7		7	7		7		7
1/4	2,068.65	1/4	1,708.12	1/4	1,347.71	1/4	986.79	1/4	633.12	1/4	278.81	1/4		1/4	1/4		1/4		1/4
1/2	2,061.12	1/2	1,700.62	1/2	1,340.19	1/2	979.27	1/2	625.90	1/2	271.29	1/2		1/2	1/2		1/2		1/2
3/4	2,053.60	3/4	1,693.12	3/4	1,332.67	3/4	971.75	3/4	618.68	3/4	263.76	3/4		3/4	3/4		3/4		3/4
8	2,046.08	8	1,685.62	8	1,325.15	8	964.23	8	611.46	8	256.24	8		8	8		8		8
1/4	2,038.56	1/4	1,678.12	1/4	1,317.63	1/4	956.71	1/4	604.24	1/4	248.71	1/4		1/4	1/4		1/4		1/4
1/2	2,031.03	1/2	1,670.62	1/2	1,310.11	1/2	949.19	1/2	597.02	1/2	241.19	1/2		1/2	1/2		1/2		1/2
3/4	2,023.51	3/4	1,663.13	3/4	1,302.60	3/4	941.67	3/4	589.80	3/4	233.66	3/4		3/4	3/4		3/4		3/4
9	2,015.99	9	1,655.63	9	1,295.08	9	934.15	9	582.57	9	226.14	9		9	9		9		9
1/4	2,008.47	1/4	1,648.13	1/4	1,287.56	1/4	926.64	1/4	575.35	1/4	218.61	1/4		1/4	1/4		1/4		1/4
1/2	2,000.94	1/2	1,640.63	1/2	1,280.04	1/2	919.12	1/2	568.13	1/2	211.09	1/2		1/2	1/2		1/2		1/2
3/4	1,993.42	3/4	1,633.13	3/4	1,272.52	3/4	911.60	3/4	560.91	3/4	203.57	3/4		3/4	3/4		3/4		3/4
10	1,985.90	10	1,625.63	10	1,265.00	10	904.08	10	553.69	10	196.04	10		10	10		10		10
1/4	1,978.38	1/4	1,618.13	1/4	1,257.48	1/4	896.56	1/4	546.46	1/4	188.52	1/4		1/4	1/4		1/4		1/4
1/2	1,970.85	1/2	1,610.64	1/2	1,249.96	1/2	889.04	1/2	539.24	1/2	180.99	1/2		1/2	1/2		1/2		1/2
3/4	1,963.33	3/4	1,603.14	3/4	1,242.44	3/4	881.52	3/4	532.01	3/4	173.47	3/4		3/4	3/4		3/4		3/4
11	1,955.81	11	1,595.64	11	1,234.92	11	874.00	11	524.78	11	165.94	11		11	11		11		11
1/4	1,948.29	1/4	1,588.14	1/4	1,227.40	1/4	866.48	1/4	517.55	1/4	158.42	1/4		1/4	1/4		1/4		1/4
1/2	1,940.76	1/2	1,580.64	1/2	1,219.88	1/2	858.96	1/2	510.33	1/2	150.89	1/2		1/2	1/2		1/2		1/2
3/4	1,933.24	3/4	1,573.14	3/4	1,212.36	3/4	851.44	3/4	503.09	3/4	143.37	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2014 PMA
RECALCULATED: 10/26/2019 PMA
NAME CHANGE: 10/26/2019 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "KIRBY 27020"

3 STBD ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
1/4		1/4		1/4		1/4	4,277.50	1/4	4,077.03	1/4	3,854.54	1/4	3,610.06	1/4	3,346.42	1/4	2,989.75	1/4	2,629.24		
1/2		1/2		1/2		1/2	4,273.53	1/2	4,072.61	1/2	3,849.65	1/2	3,604.72	1/2	3,339.88	1/2	2,982.24	1/2	2,621.73		
3/4		3/4		3/4		3/4	4,269.56	3/4	4,068.18	3/4	3,844.77	3/4	3,599.38	3/4	3,333.35	3/4	2,974.73	3/4	2,614.22		
1	1	1	1	1	1	1	4,063.59	1	4,063.76	1	3,839.89	1	3,594.04	1	3,326.81	1	2,967.21	1	2,606.71		
1/4		1/4		1/4		1/4	4,261.63	1/4	4,059.33	1/4	3,835.01	1/4	3,588.70	1/4	3,320.27	1/4	2,959.70	1/4	2,599.20		
1/2		1/2		1/2		1/2	4,257.62	1/2	4,054.87	1/2	3,830.09	1/2	3,583.31	1/2	3,312.76	1/2	2,952.19	1/2	2,591.69		
3/4		3/4		3/4		3/4	4,253.62	3/4	4,050.41	3/4	3,825.17	3/4	3,577.92	3/4	3,305.25	3/4	2,944.68	3/4	2,584.18		
2	2	2	2	2	2	2	4,249.62	2	4,045.95	2	3,820.25	2	3,572.54	2	3,297.73	2	2,937.17	2	2,576.67		
1/4		1/4		1/4		1/4	4,245.62	1/4	4,041.49	1/4	3,815.34	1/4	3,567.15	1/4	3,290.22	1/4	2,929.66	1/4	2,569.16		
1/2		1/2		1/2		1/2	4,241.57	1/2	4,036.99	1/2	3,810.37	1/2	3,561.73	1/2	3,282.71	1/2	2,922.15	1/2	2,561.65		
3/4		3/4		3/4		3/4	4,237.52	3/4	4,032.49	3/4	3,805.41	3/4	3,556.31	3/4	3,275.19	3/4	2,914.64	3/4	2,554.14		
3	3	3	3	3	3	3	4,233.47	3	4,027.98	3	3,800.45	3	3,550.90	3	3,267.68	3	2,907.13	3	2,546.63		
1/4		1/4		1/4		1/4	4,229.42	1/4	4,023.48	1/4	3,795.49	1/4	3,545.48	1/4	3,260.16	1/4	2,899.62	1/4	2,539.12		
1/2		1/2		1/2		1/2	4,225.34	1/2	4,018.94	1/2	3,790.50	1/2	3,540.02	1/2	3,252.65	1/2	2,892.11	1/2	2,531.62		
3/4		3/4		3/4		3/4	4,221.26	3/4	4,014.40	3/4	3,785.50	3/4	3,534.57	3/4	3,245.14	3/4	2,884.60	3/4	2,524.12		
4	4	4	4	4	4	4	4,217.18	4	4,009.86	4	3,780.51	4	3,529.12	4	3,237.62	4	2,877.09	4	2,516.63		
1/4		1/4		1/4		1/4	4,213.10	1/4	4,005.33	1/4	3,775.51	1/4	3,523.67	1/4	3,230.11	1/4	2,869.58	1/4	2,509.13		
1/2		1/2		1/2		1/2	4,208.99	1/2	4,000.74	1/2	3,770.47	1/2	3,518.17	1/2	3,222.60	1/2	2,862.07	1/2	2,501.63		
3/4		3/4		3/4		3/4	4,204.87	3/4	3,996.16	3/4	3,765.44	3/4	3,512.68	3/4	3,215.08	3/4	2,854.56	3/4	2,494.13		
5	5	5	5	5	5	5	4,200.76	5	3,991.57	5	3,760.40	5	3,507.18	5	3,207.57	5	2,847.05	5	2,486.64		
1/4		1/4		1/4		1/4	4,196.64	1/4	3,986.99	1/4	3,755.36	1/4	3,501.68	1/4	3,200.05	1/4	2,839.54	1/4	2,479.14		
1/2		1/2		1/2		1/2	4,192.48	1/2	3,982.38	1/2	3,750.28	1/2	3,496.15	1/2	3,192.54	1/2	2,832.03	1/2	2,471.64		
3/4		3/4		3/4		3/4	4,188.33	3/4	3,977.76	3/4	3,745.21	3/4	3,490.62	3/4	3,185.03	3/4	2,824.52	3/4	2,464.15		
6	6	6	6	6	6	6	4,184.17	6	3,973.15	6	3,740.14	6	3,485.09	6	3,177.51	6	2,817.00	6	2,456.65		
1/4		1/4		1/4		1/4	4,414.60	1/4	4,180.01	1/4	3,968.53	1/4	3,735.07	1/4	3,479.56	1/4	3,170.00	1/4	2,809.49	1/4	2,449.15
1/2		1/2		1/2		1/2	4,408.06	1/2	4,175.82	1/2	3,963.88	1/2	3,729.95	1/2	3,474.02	1/2	3,162.49	1/2	2,801.98	1/2	2,441.66
3/4		3/4		3/4		3/4	4,401.53	3/4	4,171.63	3/4	3,959.23	3/4	3,724.83	3/4	3,468.47	3/4	3,154.98	3/4	2,794.47	3/4	2,434.16
7	7	7	7	7	7	7	4,394.99	7	4,167.44	7	3,954.58	7	3,719.71	7	3,462.92	7	3,147.47	7	2,786.96	7	2,426.66
1/4		1/4		1/4		1/4	4,388.46	1/4	4,163.24	1/4	3,949.93	1/4	3,714.59	1/4	3,457.37	1/4	3,139.96	1/4	2,779.45	1/4	2,419.16
1/2		1/2		1/2		1/2	4,382.91	1/2	4,159.01	1/2	3,945.24	1/2	3,709.44	1/2	3,451.83	1/2	3,132.45	1/2	2,771.94	1/2	2,411.67
3/4		3/4		3/4		3/4	4,377.36	3/4	4,154.77	3/4	3,940.55	3/4	3,704.29	3/4	3,446.28	3/4	3,124.94	3/4	2,764.43	3/4	2,404.17
8	8	8	8	8	8	8	4,371.81	8	4,150.53	8	3,935.85	8	3,699.14	8	3,440.73	8	3,117.42	8	2,756.92	8	2,396.67
1/4		1/4		1/4		1/4	4,366.26	1/4	4,146.30	1/4	3,931.16	1/4	3,693.99	1/4	3,435.18	1/4	3,109.91	1/4	2,749.41	1/4	2,389.18
1/2		1/2		1/2		1/2	4,360.72	1/2	4,142.03	1/2	3,926.43	1/2	3,688.80	1/2	3,429.64	1/2	3,102.40	1/2	2,741.90	1/2	2,381.68
3/4		3/4		3/4		3/4	4,355.17	3/4	4,137.76	3/4	3,921.71	3/4	3,683.62	3/4	3,424.09	3/4	3,094.89	3/4	2,734.39	3/4	2,374.18
9	9	9	9	9	9	9	4,349.62	9	4,133.49	9	3,916.98	9	3,678.43	9	3,418.54	9	3,087.38	9	2,726.88	9	2,366.69
1/4		1/4		1/4		1/4	4,344.07	1/4	4,129.22	1/4	3,912.25	1/4	3,673.25	1/4	3,412.99	1/4	3,079.87	1/4	2,719.37	1/4	2,359.19
1/2		1/2		1/2		1/2	4,338.53	1/2	4,124.90	1/2	3,907.48	1/2	3,668.02	1/2	3,407.44	1/2	3,072.36	1/2	2,711.86	1/2	2,351.69
3/4		3/4		3/4		3/4	4,332.98	3/4	4,120.59	3/4	3,902.71	3/4	3,662.79	3/4	3,401.90	3/4	3,064.85	3/4	2,704.35	3/4	2,344.19
10	10	10	10	10	10	10	4,327.43	10	4,116.27	10	3,897.94	10	3,657.56	10	3,396.35	10	3,057.34	10	2,696.84	10	2,336.70
1/4		1/4		1/4		1/4	4,321.88	1/4	4,111.95	1/4	3,893.16	1/4	3,652.34	1/4	3,390.80	1/4	3,049.83	1/4	2,689.33	1/4	2,329.20
1/2		1/2		1/2		1/2	4,316.34	1/2	4,107.60	1/2	3,888.36	1/2	3,647.07	1/2	3,385.25	1/2	3,042.32	1/2	2,681.82	1/2	2,321.70
3/4		3/4		3/4		3/4	4,310.79	3/4	4,103.26	3/4	3,883.55	3/4	3,641.81	3/4	3,379.71	3/4	3,034.81	3/4	2,674.31	3/4	2,314.21
11	11	11	11	11	11	11	4,305.24	11	4,098.91	11	3,878.75	11	3,636.55	11	3,374.16	11	3,027.30	11	2,666.79	11	2,306.71
1/4		1/4		1/4		1/4	4,299.69	1/4	4,094.56	1/4	3,873.94	1/4	3,631.29	1/4	3,368.61	1/4	3,019.79	1/4	2,659.28	1/4	2,299.21
1/2		1/2		1/2		1/2	4,294.14	1/2	4,090.18	1/2	3,869.09	1/2	3,625.98	1/2	3,363.06	1/2	3,012.28	1/2	2,651.77	1/2	2,291.70
3/4		3/4		3/4		3/4	4,288.60	3/4	4,085.80	3/4	3,864.24	3/4	3,620.67	3/4	3,357.52	3/4	3,004.77	3/4	2,644.26	3/4	2,284.19

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'-06" OFF CENTERLINE AND 45'-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 27020"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 359"

GAUGE HEIGHT 16'-04 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	2,276.67	0	1,916.02	0	1,557.14	0	1,197.46	0	836.81	0	488.08	0	128.19	0		0		0	
1/4	2,269.16	1/4	1,908.51	1/4	1,549.68	1/4	1,189.94	1/4	829.30	1/4	480.82	1/4	120.68	1/4	1/4	1/4		1/4	
1/2	2,261.64	1/2	1,900.99	1/2	1,542.22	1/2	1,182.43	1/2	821.91	1/2	473.43	1/2	113.17	1/2	1/2	1/2		1/2	
3/4	2,254.13	3/4	1,893.48	3/4	1,534.77	3/4	1,174.92	3/4	814.52	3/4	466.04	3/4	105.65	3/4	3/4	3/4		3/4	
1	2,246.62	1	1,885.96	1	1,527.31	1	1,167.40	1	807.13	1	458.65	1	98.14	1	1	1		1	
1/4	2,239.10	1/4	1,878.45	1/4	1,519.85	1/4	1,159.89	1/4	799.75	1/4	451.27	1/4	90.63	1/4	1/4	1/4		1/4	
1/2	2,231.59	1/2	1,870.94	1/2	1,512.40	1/2	1,152.38	1/2	792.49	1/2	443.75	1/2	83.11	1/2	1/2	1/2		1/2	
3/4	2,224.08	3/4	1,863.42	3/4	1,504.94	3/4	1,144.86	3/4	785.24	3/4	436.24	3/4	75.60	3/4	3/4	3/4		3/4	
2	2,216.56	2	1,855.91	2	1,497.48	2	1,137.35	2	777.99	2	428.73	2	68.09	2	2	2		2	
1/4	2,209.05	1/4	1,848.40	1/4	1,490.03	1/4	1,129.84	1/4	770.73	1/4	421.21	1/4	60.57	1/4	1/4	1/4		1/4	
1/2	2,201.54	1/2	1,840.88	1/2	1,482.57	1/2	1,122.32	1/2	763.49	1/2	413.70	1/2	54.00	1/2	1/2	1/2		1/2	
3/4	2,194.02	3/4	1,833.37	3/4	1,475.11	3/4	1,114.81	3/4	756.24	3/4	406.19	3/4	47.43	3/4	3/4	3/4		3/4	
3	2,186.51	3	1,825.86	3	1,467.66	3	1,107.30	3	749.00	3	398.67	3	40.85	3	3	3		3	
1/4	2,178.99	1/4	1,818.34	1/4	1,460.20	1/4	1,099.78	1/4	741.75	1/4	391.16	1/4	34.28	1/4	1/4	1/4		1/4	
1/2	2,171.48	1/2	1,810.83	1/2	1,452.75	1/2	1,092.27	1/2	734.50	1/2	383.65	1/2	29.57	1/2	1/2	1/2		1/2	
3/4	2,163.97	3/4	1,803.31	3/4	1,445.29	3/4	1,084.75	3/4	727.26	3/4	376.13	3/4	24.87	3/4	3/4	3/4		3/4	
4	2,156.45	4	1,795.80	4	1,437.83	4	1,077.24	4	720.01	4	368.62	4	20.17	4	4	4		4	
1/4	2,148.94	1/4	1,788.29	1/4	1,430.38	1/4	1,069.73	1/4	712.77	1/4	361.11	1/4	15.46	1/4	1/4	1/4		1/4	
1/2	2,141.43	1/2	1,780.83	1/2	1,422.86	1/2	1,062.21	1/2	705.52	1/2	353.59	1/2		1/2	1/2	1/2		1/2	
3/4	2,133.91	3/4	1,773.37	3/4	1,415.35	3/4	1,054.70	3/4	698.27	3/4	346.08	3/4		3/4	3/4	3/4		3/4	
5	2,126.40	5	1,765.92	5	1,407.84	5	1,047.19	5	691.03	5	338.57	5		5	5	5		5	
1/4	2,118.89	1/4	1,758.46	1/4	1,400.32	1/4	1,039.67	1/4	683.78	1/4	331.05	1/4		1/4	1/4	1/4		1/4	
1/2	2,111.37	1/2	1,751.01	1/2	1,392.81	1/2	1,032.16	1/2	676.54	1/2	323.54	1/2		1/2	1/2	1/2		1/2	
3/4	2,103.86	3/4	1,743.55	3/4	1,385.29	3/4	1,024.65	3/4	669.29	3/4	316.03	3/4		3/4	3/4	3/4		3/4	
6	2,096.35	6	1,736.09	6	1,377.78	6	1,017.13	6	662.04	6	308.51	6		6	6	6		6	
1/4	2,088.83	1/4	1,728.64	1/4	1,370.27	1/4	1,009.62	1/4	654.80	1/4	301.00	1/4		1/4	1/4	1/4		1/4	
1/2	2,081.32	1/2	1,721.18	1/2	1,362.75	1/2	1,002.11	1/2	647.55	1/2	293.49	1/2		1/2	1/2	1/2		1/2	
3/4	2,073.80	3/4	1,713.72	3/4	1,355.24	3/4	994.59	3/4	640.31	3/4	285.97	3/4		3/4	3/4	3/4		3/4	
7	2,066.29	7	1,706.27	7	1,347.73	7	987.08	7	633.06	7	278.46	7		7	7	7		7	
1/4	2,058.78	1/4	1,698.81	1/4	1,340.21	1/4	979.57	1/4	625.82	1/4	270.95	1/4		1/4	1/4	1/4		1/4	
1/2	2,051.26	1/2	1,691.35	1/2	1,332.70	1/2	972.05	1/2	618.57	1/2	263.43	1/2		1/2	1/2	1/2		1/2	
3/4	2,043.75	3/4	1,683.90	3/4	1,325.19	3/4	964.54	3/4	611.33	3/4	255.92	3/4		3/4	3/4	3/4		3/4	
8	2,036.24	8	1,676.44	8	1,317.67	8	957.03	8	604.08	8	248.41	8		8	8	8		8	
1/4	2,028.72	1/4	1,668.98	1/4	1,310.16	1/4	949.51	1/4	596.84	1/4	240.89	1/4		1/4	1/4	1/4		1/4	
1/2	2,021.21	1/2	1,661.53	1/2	1,302.65	1/2	942.00	1/2	589.59	1/2	233.38	1/2		1/2	1/2	1/2		1/2	
3/4	2,013.70	3/4	1,654.07	3/4	1,295.13	3/4	934.48	3/4	582.35	3/4	225.87	3/4		3/4	3/4	3/4		3/4	
9	2,006.18	9	1,646.61	9	1,287.62	9	926.97	9	575.10	9	218.35	9		9	9	9		9	
1/4	1,998.67	1/4	1,639.16	1/4	1,280.11	1/4	919.46	1/4	567.86	1/4	210.84	1/4		1/4	1/4	1/4		1/4	
1/2	1,991.15	1/2	1,631.70	1/2	1,272.59	1/2	911.94	1/2	560.61	1/2	203.33	1/2		1/2	1/2	1/2		1/2	
3/4	1,983.64	3/4	1,624.24	3/4	1,265.08	3/4	904.43	3/4	553.36	3/4	195.81	3/4		3/4	3/4	3/4		3/4	
10	1,976.13	10	1,616.79	10	1,257.57	10	896.92	10	546.12	10	188.30	10		10	10	10		10	
1/4	1,968.61	1/4	1,609.33	1/4	1,250.05	1/4	889.40	1/4	538.87	1/4	180.79	1/4		1/4	1/4	1/4		1/4	
1/2	1,961.10	1/2	1,601.88	1/2	1,242.54	1/2	881.89	1/2	531.62	1/2	173.27	1/2		1/2	1/2	1/2		1/2	
3/4	1,953.59	3/4	1,594.42	3/4	1,235.02	3/4	874.38	3/4	524.37	3/4	165.76	3/4		3/4	3/4	3/4		3/4	
11	1,946.07	11	1,586.96	11	1,227.51	11	866.86	11	517.11	11	158.25	11		11	11	11		11	
1/4	1,938.56	1/4	1,579.51	1/4	1,220.00	1/4	859.35	1/4	509.86	1/4	150.73	1/4		1/4	1/4	1/4		1/4	
1/2	1,931.05	1/2	1,572.05	1/2	1,212.48	1/2	851.84	1/2	502.60	1/2	143.22	1/2		1/2	1/2	1/2		1/2	
3/4	1,923.53	3/4	1,564.59	3/4	1,204.97	3/4	844.32	3/4	495.34	3/4	135.71	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 08/15/2014 PMA
RECALCULATED: 10/26/2019 PMA
NAME CHANGE: 10/26/2019 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 27020"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	191	0	383	0	574	0	765	0		0		0		0		0	
1/4	4	1/4	195	1/4	386	1/4	578	1/4	769	1/4		1/4		1/4		1/4		1/4	
1/2	8	1/2	199	1/2	390	1/2	582	1/2	773	1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	203	3/4	394	3/4	586	3/4	777	3/4		3/4		3/4		3/4		3/4	
1	16	1	207	1	398	1	590	1	781	1		1		1		1		1	
1/4	20	1/4	211	1/4	402	1/4	594	1/4	785	1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	215	1/2	406	1/2	598	1/2	789	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	219	3/4	410	3/4	602	3/4	793	3/4		3/4		3/4		3/4		3/4	
2	32	2	223	2	414	2	606	2	797	2		2		2		2		2	
1/4	36	1/4	227	1/4	418	1/4	610	1/4	801	1/4		1/4		1/4		1/4		1/4	
1/2	40	1/2	231	1/2	422	1/2	614	1/2	805	1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	235	3/4	426	3/4	618	3/4	809	3/4		3/4		3/4		3/4		3/4	
3	48	3	239	3	430	3	622	3	813	3		3		3		3		3	
1/4	52	1/4	243	1/4	434	1/4	626	1/4	817	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	247	1/2	438	1/2	630	1/2	821	1/2		1/2		1/2		1/2		1/2	
3/4	60	3/4	251	3/4	442	3/4	634	3/4	825	3/4		3/4		3/4		3/4		3/4	
4	64	4	255	4	446	4	638	4	829	4		4		4		4		4	
1/4	68	1/4	259	1/4	450	1/4	641	1/4	833	1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	263	1/2	454	1/2	645	1/2	837	1/2		1/2		1/2		1/2		1/2	
3/4	76	3/4	267	3/4	458	3/4	649	3/4	841	3/4		3/4		3/4		3/4		3/4	
5	80	5	271	5	462	5	653	5	845	5		5		5		5		5	
1/4	84	1/4	275	1/4	466	1/4	657	1/4	849	1/4		1/4		1/4		1/4		1/4	
1/2	88	1/2	279	1/2	470	1/2	661	1/2	853	1/2		1/2		1/2		1/2		1/2	
3/4	92	3/4	283	3/4	474	3/4	665	3/4	857	3/4		3/4		3/4		3/4		3/4	
6	96	6	287	6	478	6	669	6		6		6		6		6		6	
1/4	100	1/4	291	1/4	482	1/4	673	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	104	1/2	295	1/2	486	1/2	677	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	108	3/4	299	3/4	490	3/4	681	3/4		3/4		3/4		3/4		3/4		3/4	
7	112	7	303	7	494	7	685	7		7		7		7		7		7	
1/4	116	1/4	307	1/4	498	1/4	689	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120	1/2	311	1/2	502	1/2	693	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	124	3/4	315	3/4	506	3/4	697	3/4		3/4		3/4		3/4		3/4		3/4	
8	128	8	319	8	510	8	701	8		8		8		8		8		8	
1/4	131	1/4	323	1/4	514	1/4	705	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	327	1/2	518	1/2	709	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	139	3/4	331	3/4	522	3/4	713	3/4		3/4		3/4		3/4		3/4		3/4	
9	143	9	335	9	526	9	717	9		9		9		9		9		9	
1/4	147	1/4	339	1/4	530	1/4	721	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151	1/2	343	1/2	534	1/2	725	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155	3/4	347	3/4	538	3/4	729	3/4		3/4		3/4		3/4		3/4		3/4	
10	159	10	351	10	542	10	733	10		10		10		10		10		10	
1/4	163	1/4	355	1/4	546	1/4	737	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167	1/2	359	1/2	550	1/2	741	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	171	3/4	363	3/4	554	3/4	745	3/4		3/4		3/4		3/4		3/4		3/4	
11	175	11	367	11	558	11	749	11		11		11		11		11		11	
1/4	179	1/4	371	1/4	562	1/4	753	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	183	1/2	375	1/2	566	1/2	757	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	187	3/4	379	3/4	570	3/4	761	3/4		3/4		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.

STRAPPED: 08/16/2014 PMA
CALCULATED: 08/16/2014 PMA
PRINTED: 10/26/2019 PMA

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 27020"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	1,049	0	2,069	0	3,032	0	3,939	0		0		0		0		0	
1/4	22	1/4	1,071	1/4	2,089	1/4	3,052	1/4	3,958	1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,093	1/2	2,110	1/2	3,071	1/2	3,976	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,115	3/4	2,131	3/4	3,090	3/4	3,994	3/4		3/4		3/4		3/4		3/4	
1	87	1	1,136	1	2,151	1	3,110	1	4,013	1		1		1		1		1	
1/4	109	1/4	1,158	1/4	2,172	1/4	3,129	1/4	4,031	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	1,180	1/2	2,192	1/2	3,149	1/2	4,049	1/2		1/2		1/2		1/2		1/2	
3/4	153	3/4	1,201	3/4	2,213	3/4	3,168	3/4	4,067	3/4		3/4		3/4		3/4		3/4	
2	175	2	1,223	2	2,233	2	3,187	2	4,085	2		2		2		2		2	
1/4	197	1/4	1,245	1/4	2,254	1/4	3,207	1/4	4,103	1/4		1/4		1/4		1/4		1/4	
1/2	219	1/2	1,266	1/2	2,274	1/2	3,226	1/2	4,121	1/2		1/2		1/2		1/2		1/2	
3/4	240	3/4	1,288	3/4	2,294	3/4	3,245	3/4	4,139	3/4		3/4		3/4		3/4		3/4	
3	262	3	1,309	3	2,315	3	3,264	3	4,157	3		3		3		3		3	
1/4	284	1/4	1,331	1/4	2,335	1/4	3,283	1/4	4,175	1/4		1/4		1/4		1/4		1/4	
1/2	306	1/2	1,352	1/2	2,355	1/2	3,303	1/2	4,193	1/2		1/2		1/2		1/2		1/2	
3/4	328	3/4	1,374	3/4	2,376	3/4	3,322	3/4	4,211	3/4		3/4		3/4		3/4		3/4	
4	350	4	1,395	4	2,396	4	3,341	4	4,229	4		4		4		4		4	
1/4	372	1/4	1,417	1/4	2,416	1/4	3,360	1/4	4,247	1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	1,438	1/2	2,437	1/2	3,379	1/2	4,265	1/2		1/2		1/2		1/2		1/2	
3/4	415	3/4	1,459	3/4	2,457	3/4	3,398	3/4	4,283	3/4		3/4		3/4		3/4		3/4	
5	437	5	1,481	5	2,477	5	3,417	5	4,301	5		5		5		5		5	
1/4	459	1/4	1,502	1/4	2,497	1/4	3,436	1/4	4,319	1/4		1/4		1/4		1/4		1/4	
1/2	481	1/2	1,523	1/2	2,517	1/2	3,455	1/2	4,337	1/2		1/2		1/2		1/2		1/2	
3/4	503	3/4	1,545	3/4	2,537	3/4	3,474	3/4		3/4		3/4		3/4		3/4		3/4	
6	525	6	1,566	6	2,557	6	3,493	6		6		6		6		6		6	
1/4	547	1/4	1,587	1/4	2,577	1/4	3,512	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	568	1/2	1,608	1/2	2,597	1/2	3,530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	590	3/4	1,630	3/4	2,618	3/4	3,549	3/4		3/4		3/4		3/4		3/4		3/4	
7	612	7	1,651	7	2,638	7	3,568	7		7		7		7		7		7	
1/4	634	1/4	1,672	1/4	2,657	1/4	3,587	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	656	1/2	1,693	1/2	2,677	1/2	3,606	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	678	3/4	1,714	3/4	2,697	3/4	3,624	3/4		3/4		3/4		3/4		3/4		3/4	
8	700	8	1,735	8	2,717	8	3,643	8		8		8		8		8		8	
1/4	721	1/4	1,756	1/4	2,737	1/4	3,662	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	743	1/2	1,777	1/2	2,757	1/2	3,681	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	765	3/4	1,798	3/4	2,777	3/4	3,699	3/4		3/4		3/4		3/4		3/4		3/4	
9	787	9	1,819	9	2,797	9	3,718	9		9		9		9		9		9	
1/4	809	1/4	1,840	1/4	2,816	1/4	3,736	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	831	1/2	1,861	1/2	2,836	1/2	3,755	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	853	3/4	1,882	3/4	2,856	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
10	874	10	1,903	10	2,875	10	3,792	10		10		10		10		10		10	
1/4	896	1/4	1,923	1/4	2,895	1/4	3,811	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	918	1/2	1,944	1/2	2,915	1/2	3,829	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	940	3/4	1,965	3/4	2,934	3/4	3,848	3/4		3/4		3/4		3/4		3/4		3/4	
11	962	11	1,986	11	2,954	11	3,866	11		11		11		11		11		11	
1/4	984	1/4	2,007	1/4	2,974	1/4	3,884	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,006	1/2	2,027	1/2	2,993	1/2	3,903	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,027	3/4	2,048	3/4	3,013	3/4	3,921	3/4		3/4		3/4		3/4		3/4		3/4	

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

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PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 27020"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	1,049	0	2,069	0	3,032	0	3,939	0		0		0		0		0	
1/4	22	1/4	1,071	1/4	2,089	1/4	3,052	1/4	3,958	1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,093	1/2	2,110	1/2	3,071	1/2	3,976	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,115	3/4	2,131	3/4	3,090	3/4	3,994	3/4		3/4		3/4		3/4		3/4	
1	87	1	1,136	1	2,151	1	3,110	1	4,013	1		1		1		1		1	
1/4	109	1/4	1,158	1/4	2,172	1/4	3,129	1/4	4,031	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	1,180	1/2	2,192	1/2	3,149	1/2	4,049	1/2		1/2		1/2		1/2		1/2	
3/4	153	3/4	1,201	3/4	2,213	3/4	3,168	3/4	4,067	3/4		3/4		3/4		3/4		3/4	
2	175	2	1,223	2	2,233	2	3,187	2	4,085	2		2		2		2		2	
1/4	197	1/4	1,245	1/4	2,254	1/4	3,207	1/4	4,103	1/4		1/4		1/4		1/4		1/4	
1/2	219	1/2	1,266	1/2	2,274	1/2	3,226	1/2	4,121	1/2		1/2		1/2		1/2		1/2	
3/4	240	3/4	1,288	3/4	2,294	3/4	3,245	3/4	4,139	3/4		3/4		3/4		3/4		3/4	
3	262	3	1,309	3	2,315	3	3,264	3	4,157	3		3		3		3		3	
1/4	284	1/4	1,331	1/4	2,335	1/4	3,283	1/4	4,175	1/4		1/4		1/4		1/4		1/4	
1/2	306	1/2	1,352	1/2	2,355	1/2	3,303	1/2	4,193	1/2		1/2		1/2		1/2		1/2	
3/4	328	3/4	1,374	3/4	2,376	3/4	3,322	3/4	4,211	3/4		3/4		3/4		3/4		3/4	
4	350	4	1,395	4	2,396	4	3,341	4	4,229	4		4		4		4		4	
1/4	372	1/4	1,417	1/4	2,416	1/4	3,360	1/4	4,247	1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	1,438	1/2	2,437	1/2	3,379	1/2	4,265	1/2		1/2		1/2		1/2		1/2	
3/4	415	3/4	1,459	3/4	2,457	3/4	3,398	3/4	4,283	3/4		3/4		3/4		3/4		3/4	
5	437	5	1,481	5	2,477	5	3,417	5	4,301	5		5		5		5		5	
1/4	459	1/4	1,502	1/4	2,497	1/4	3,436	1/4	4,319	1/4		1/4		1/4		1/4		1/4	
1/2	481	1/2	1,523	1/2	2,517	1/2	3,455	1/2	4,337	1/2		1/2		1/2		1/2		1/2	
3/4	503	3/4	1,545	3/4	2,537	3/4	3,474	3/4		3/4		3/4		3/4		3/4		3/4	
6	525	6	1,566	6	2,557	6	3,493	6		6		6		6		6		6	
1/4	547	1/4	1,587	1/4	2,577	1/4	3,512	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	568	1/2	1,608	1/2	2,597	1/2	3,530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	590	3/4	1,630	3/4	2,618	3/4	3,549	3/4		3/4		3/4		3/4		3/4		3/4	
7	612	7	1,651	7	2,638	7	3,568	7		7		7		7		7		7	
1/4	634	1/4	1,672	1/4	2,657	1/4	3,587	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	656	1/2	1,693	1/2	2,677	1/2	3,606	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	678	3/4	1,714	3/4	2,697	3/4	3,624	3/4		3/4		3/4		3/4		3/4		3/4	
8	700	8	1,735	8	2,717	8	3,643	8		8		8		8		8		8	
1/4	721	1/4	1,756	1/4	2,737	1/4	3,662	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	743	1/2	1,777	1/2	2,757	1/2	3,681	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	765	3/4	1,798	3/4	2,777	3/4	3,699	3/4		3/4		3/4		3/4		3/4		3/4	
9	787	9	1,819	9	2,797	9	3,718	9		9		9		9		9		9	
1/4	809	1/4	1,840	1/4	2,816	1/4	3,736	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	831	1/2	1,861	1/2	2,836	1/2	3,755	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	853	3/4	1,882	3/4	2,856	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
10	874	10	1,903	10	2,875	10	3,792	10		10		10		10		10		10	
1/4	896	1/4	1,923	1/4	2,895	1/4	3,811	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	918	1/2	1,944	1/2	2,915	1/2	3,829	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	940	3/4	1,965	3/4	2,934	3/4	3,848	3/4		3/4		3/4		3/4		3/4		3/4	
11	962	11	1,986	11	2,954	11	3,866	11		11		11		11		11		11	
1/4	984	1/4	2,007	1/4	2,974	1/4	3,884	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,006	1/2	2,027	1/2	2,993	1/2	3,903	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,027	3/4	2,048	3/4	3,013	3/4	3,921	3/4		3/4		3/4		3/4		3/4		3/4	

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