



BARGE "KIRBY 31003B"

ULLAGE TRIM TABLE
FORMERLY "CTCO 354B"

	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	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
1 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
2 PORT	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
2 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
3 PORT	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-6/8	- 00-6/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
3 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4

(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 - 00-3/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 275'-03"

February 24, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 31003B"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 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	5,110.40	0	4,778.57	0	4,426.87	0	4,057.31	0	3,672.16	0	3,283.77	0	2,895.38		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,102.75	1/4	4,771.42	1/4	4,419.35	1/4	4,049.44	1/4	3,664.06	1/4	3,275.68	1/4	2,887.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,095.10	1/2	4,764.26	1/2	4,411.79	1/2	4,041.54	1/2	3,655.97	1/2	3,267.59	1/2	2,879.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,087.45	3/4	4,757.09	3/4	4,404.24	3/4	4,033.64	3/4	3,647.88	3/4	3,259.49	3/4	2,871.11		
1		1		1		1	5,079.80	1	4,749.93	1	4,396.69	1	4,025.75	1	3,639.79	1	3,251.40	1	2,863.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,072.14	1/4	4,742.76	1/4	4,389.14	1/4	4,017.85	1/4	3,631.70	1/4	3,243.31	1/4	2,854.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,065.39	1/2	4,735.57	1/2	4,381.56	1/2	4,009.92	1/2	3,623.61	1/2	3,235.22	1/2	2,846.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,058.63	3/4	4,728.38	3/4	4,373.98	3/4	4,002.00	3/4	3,615.52	3/4	3,227.13	3/4	2,838.74		
2		2		2		2	5,051.87	2	4,721.18	2	4,366.39	2	3,994.07	2	3,607.43	2	3,219.04	2	2,830.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,045.12	1/4	4,713.99	1/4	4,358.81	1/4	3,986.14	1/4	3,599.33	1/4	3,210.95	1/4	2,822.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,038.64	1/2	4,706.77	1/2	4,351.20	1/2	3,978.19	1/2	3,591.24	1/2	3,202.86	1/2	2,814.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,032.16	3/4	4,699.55	3/4	4,343.59	3/4	3,970.23	3/4	3,583.15	3/4	3,194.76	3/4	2,806.38		
3		3		3		3	5,025.68	3	4,692.33	3	4,335.98	3	3,962.28	3	3,575.06	3	3,186.67	3	2,798.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,019.20	1/4	4,685.11	1/4	4,328.37	1/4	3,954.32	1/4	3,566.97	1/4	3,178.58	1/4	2,790.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,012.69	1/2	4,677.86	1/2	4,320.74	1/2	3,946.34	1/2	3,558.88	1/2	3,170.49	1/2	2,782.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,006.18	3/4	4,670.61	3/4	4,313.10	3/4	3,938.36	3/4	3,550.79	3/4	3,162.40	3/4	2,774.01		
4		4		4		4	4,999.67	4	4,663.36	4	4,305.46	4	3,930.37	4	3,542.69	4	3,154.31	4	2,765.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,993.17	1/4	4,656.11	1/4	4,297.82	1/4	3,922.39	1/4	3,534.60	1/4	3,146.22	1/4	2,757.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,986.63	1/2	4,648.83	1/2	4,290.16	1/2	3,914.38	1/2	3,526.51	1/2	3,138.12	1/2	2,749.74		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,980.09	3/4	4,641.55	3/4	4,282.50	3/4	3,906.37	3/4	3,518.42	3/4	3,130.03	3/4	2,741.65		
5		5		5		5	4,973.55	5	4,634.28	5	4,274.84	5	3,898.35	5	3,510.33	5	3,121.94	5	2,733.55		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,967.02	1/4	4,627.00	1/4	4,267.18	1/4	3,890.34	1/4	3,502.24	1/4	3,113.85	1/4	2,725.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,960.45	1/2	4,619.68	1/2	4,259.49	1/2	3,882.30	1/2	3,494.15	1/2	3,105.76	1/2	2,717.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.88	3/4	4,612.37	3/4	4,251.81	3/4	3,874.26	3/4	3,486.05	3/4	3,097.67	3/4	2,709.28		
6		6		6		6	4,947.32	6	4,605.05	6	4,244.12	6	3,866.22	6	3,477.96	6	3,089.58	6	2,701.19		
1/4	1/4	1/4	5,274.83	1/4	4,940.75	1/4	4,597.74	1/4	4,236.43	1/4	3,858.18	1/4	3,469.87	1/4	3,081.48	1/4	2,693.10				
1/2	1/2	1/2	5,269.67	1/2	4,933.85	1/2	4,590.39	1/2	4,228.72	1/2	3,850.11	1/2	3,461.78	1/2	3,073.39	1/2	2,685.01				
3/4	3/4	3/4	5,264.52	3/4	4,926.95	3/4	4,583.05	3/4	4,221.00	3/4	3,842.04	3/4	3,453.69	3/4	3,065.30	3/4	2,676.91				
7		7		7		7	5,259.36	7	4,920.06	7	4,575.70	7	4,213.29	7	3,833.97	7	3,445.60	7	3,057.21	7	2,668.82
1/4	1/4	1/4	5,254.20	1/4	4,913.16	1/4	4,568.36	1/4	4,205.57	1/4	3,825.90	1/4	3,437.51	1/4	3,049.12	1/4	2,660.73				
1/2	1/2	1/2	5,247.02	1/2	4,906.13	1/2	4,560.98	1/2	4,197.83	1/2	3,817.80	1/2	3,429.41	1/2	3,041.03	1/2	2,652.64				
3/4	3/4	3/4	5,239.84	3/4	4,899.10	3/4	4,553.61	3/4	4,190.08	3/4	3,809.71	3/4	3,421.32	3/4	3,032.94	3/4	2,644.55				
8		8		8		8	5,232.66	8	4,892.07	8	4,546.24	8	4,182.34	8	3,801.62	8	3,413.23	8	3,024.84	8	2,636.46
1/4	1/4	1/4	5,225.48	1/4	4,885.04	1/4	4,538.86	1/4	4,174.60	1/4	3,793.53	1/4	3,405.14	1/4	3,016.75	1/4	2,628.37				
1/2	1/2	1/2	5,217.80	1/2	4,877.98	1/2	4,531.46	1/2	4,166.82	1/2	3,785.44	1/2	3,397.05	1/2	3,008.66	1/2	2,620.27				
3/4	3/4	3/4	5,210.11	3/4	4,870.92	3/4	4,524.06	3/4	4,159.05	3/4	3,777.34	3/4	3,388.96	3/4	3,000.57	3/4	2,612.18				
9		9		9		9	5,202.43	9	4,863.87	9	4,516.65	9	4,151.28	9	3,769.25	9	3,380.87	9	2,992.48	9	2,604.09
1/4	1/4	1/4	5,194.74	1/4	4,856.81	1/4	4,509.25	1/4	4,143.51	1/4	3,761.16	1/4	3,372.77	1/4	2,984.39	1/4	2,596.00				
1/2	1/2	1/2	5,187.05	1/2	4,849.72	1/2	4,501.79	1/2	4,135.70	1/2	3,753.07	1/2	3,364.68	1/2	2,976.30	1/2	2,587.91				
3/4	3/4	3/4	5,179.37	3/4	4,842.64	3/4	4,494.33	3/4	4,127.89	3/4	3,744.98	3/4	3,356.59	3/4	2,968.20	3/4	2,579.82				
10		10		10		10	5,171.68	10	4,835.55	10	4,486.88	10	4,120.08	10	3,736.89	10	3,348.50	10	2,960.11	10	2,571.73
1/4	1/4	1/4	5,164.00	1/4	4,828.46	1/4	4,479.42	1/4	4,112.27	1/4	3,728.80	1/4	3,340.41	1/4	2,952.02	1/4	2,563.63				
1/2	1/2	1/2	5,156.34	1/2	4,821.35	1/2	4,471.92	1/2	4,104.43	1/2	3,720.70	1/2	3,332.32	1/2	2,943.93	1/2	2,555.54				
3/4	3/4	3/4	5,148.68	3/4	4,814.23	3/4	4,464.43	3/4	4,096.59	3/4	3,712.61	3/4	3,324.23	3/4	2,935.84	3/4	2,547.45				
11		11		11		11	5,141.02	11	4,807.12	11	4,456.94	11	4,088.75	11	3,704.52	11	3,316.13	11	2,927.75	11	2,539.36
1/4	1/4	1/4	5,133.36	1/4	4,800.00	1/4	4,449.44	1/4	4,080.91	1/4	3,696.43	1/4	3,308.04	1/4	2,919.66	1/4	2,531.27				
1/2	1/2	1/2	5,125.71	1/2	4,792.86	1/2	4,441.92	1/2	4,073.04	1/2	3,688.34	1/2	3,299.95	1/2	2,911.56	1/2	2,523.18				
3/4	3/4	3/4	5,118.05	3/4	4,785.71	3/4	4,434.39	3/4	4,065.17	3/4	3,680.25	3/4	3,291.86	3/4	2,903.47	3/4	2,515.09				

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 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
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BARGE "KIRBY 31003B"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 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	2,506.99	0	2,118.61	0	1,730.22	0	1,341.83	0	953.45	0	566.53	0	178.41	0		0		0	
1/4	2,498.90	1/4	2,110.52	1/4	1,722.13	1/4	1,333.74	1/4	945.35	1/4	558.47	1/4	170.32	1/4	1/4		1/4		1/4
1/2	2,490.81	1/2	2,102.42	1/2	1,714.04	1/2	1,325.65	1/2	937.26	1/2	550.41	1/2	162.23	1/2	1/2		1/2		1/2
3/4	2,482.72	3/4	2,094.33	3/4	1,705.95	3/4	1,317.56	3/4	929.17	3/4	542.34	3/4	154.14	3/4	3/4		3/4		3/4
1	2,474.63	1	2,086.24	1	1,697.85	1	1,309.47	1	921.08	1	534.28	1	146.04	1	1		1		1
1/4	2,466.54	1/4	2,078.15	1/4	1,689.76	1/4	1,301.38	1/4	912.99	1/4	526.21	1/4	137.95	1/4	1/4		1/4		1/4
1/2	2,458.45	1/2	2,070.06	1/2	1,681.67	1/2	1,293.28	1/2	904.90	1/2	518.14	1/2	129.86	1/2	1/2		1/2		1/2
3/4	2,450.35	3/4	2,061.97	3/4	1,673.58	3/4	1,285.19	3/4	896.81	3/4	510.08	3/4	121.77	3/4	3/4		3/4		3/4
2	2,442.26	2	2,053.88	2	1,665.49	2	1,277.10	2	888.71	2	502.01	2	113.68	2	2		2		2
1/4	2,434.17	1/4	2,045.78	1/4	1,657.40	1/4	1,269.01	1/4	880.62	1/4	493.94	1/4	105.59	1/4	1/4		1/4		1/4
1/2	2,426.08	1/2	2,037.69	1/2	1,649.31	1/2	1,260.92	1/2	872.56	1/2	485.86	1/2	97.50	1/2	1/2		1/2		1/2
3/4	2,417.99	3/4	2,029.60	3/4	1,641.21	3/4	1,252.83	3/4	864.49	3/4	477.77	3/4	89.41	3/4	3/4		3/4		3/4
3	2,409.90	3	2,021.51	3	1,633.12	3	1,244.74	3	856.42	3	469.69	3	81.31	3	3		3		3
1/4	2,401.81	1/4	2,013.42	1/4	1,625.03	1/4	1,236.64	1/4	848.36	1/4	461.60	1/4	73.22	1/4	1/4		1/4		1/4
1/2	2,393.72	1/2	2,005.33	1/2	1,616.94	1/2	1,228.55	1/2	840.30	1/2	453.51	1/2	65.89	1/2	1/2		1/2		1/2
3/4	2,385.62	3/4	1,997.24	3/4	1,608.85	3/4	1,220.46	3/4	832.25	3/4	445.42	3/4	58.56	3/4	3/4		3/4		3/4
4	2,377.53	4	1,989.15	4	1,600.76	4	1,212.37	4	824.19	4	437.33	4	51.22	4	4		4		4
1/4	2,369.44	1/4	1,981.05	1/4	1,592.67	1/4	1,204.28	1/4	816.14	1/4	429.24	1/4	43.89	1/4	1/4		1/4		1/4
1/2	2,361.35	1/2	1,972.96	1/2	1,584.58	1/2	1,196.19	1/2	808.09	1/2	421.15	1/2	38.33	1/2	1/2		1/2		1/2
3/4	2,353.26	3/4	1,964.87	3/4	1,576.48	3/4	1,188.10	3/4	800.04	3/4	413.05	3/4	32.76	3/4	3/4		3/4		3/4
5	2,345.17	5	1,956.78	5	1,568.39	5	1,180.01	5	791.99	5	404.96	5	27.20	5	5		5		5
1/4	2,337.08	1/4	1,948.69	1/4	1,560.30	1/4	1,171.91	1/4	783.93	1/4	396.87	1/4	21.64	1/4	1/4		1/4		1/4
1/2	2,328.98	1/2	1,940.60	1/2	1,552.21	1/2	1,163.82	1/2	775.88	1/2	388.78	1/2		1/2	1/2		1/2		1/2
3/4	2,320.89	3/4	1,932.51	3/4	1,544.12	3/4	1,155.73	3/4	767.83	3/4	380.69	3/4		3/4	3/4		3/4		3/4
6	2,312.80	6	1,924.41	6	1,536.03	6	1,147.64	6	759.78	6	372.60	6		6	6		6		6
1/4	2,304.71	1/4	1,916.32	1/4	1,527.94	1/4	1,139.55	1/4	751.73	1/4	364.51	1/4		1/4	1/4		1/4		1/4
1/2	2,296.62	1/2	1,908.23	1/2	1,519.84	1/2	1,131.46	1/2	743.68	1/2	356.42	1/2		1/2	1/2		1/2		1/2
3/4	2,288.53	3/4	1,900.14	3/4	1,511.75	3/4	1,123.37	3/4	735.62	3/4	348.32	3/4		3/4	3/4		3/4		3/4
7	2,280.44	7	1,892.05	7	1,503.66	7	1,115.27	7	727.57	7	340.23	7		7	7		7		7
1/4	2,272.34	1/4	1,883.96	1/4	1,495.57	1/4	1,107.18	1/4	719.52	1/4	332.14	1/4		1/4	1/4		1/4		1/4
1/2	2,264.25	1/2	1,875.87	1/2	1,487.48	1/2	1,099.09	1/2	711.47	1/2	324.05	1/2		1/2	1/2		1/2		1/2
3/4	2,256.16	3/4	1,867.77	3/4	1,479.39	3/4	1,091.00	3/4	703.42	3/4	315.96	3/4		3/4	3/4		3/4		3/4
8	2,248.07	8	1,859.68	8	1,471.30	8	1,082.91	8	695.37	8	307.87	8		8	8		8		8
1/4	2,239.98	1/4	1,851.59	1/4	1,463.20	1/4	1,074.82	1/4	687.32	1/4	299.78	1/4		1/4	1/4		1/4		1/4
1/2	2,231.89	1/2	1,843.50	1/2	1,455.11	1/2	1,066.73	1/2	679.26	1/2	291.69	1/2		1/2	1/2		1/2		1/2
3/4	2,223.80	3/4	1,835.41	3/4	1,447.02	3/4	1,058.63	3/4	671.21	3/4	283.59	3/4		3/4	3/4		3/4		3/4
9	2,215.70	9	1,827.32	9	1,438.93	9	1,050.54	9	663.16	9	275.50	9		9	9		9		9
1/4	2,207.61	1/4	1,819.23	1/4	1,430.84	1/4	1,042.45	1/4	655.11	1/4	267.41	1/4		1/4	1/4		1/4		1/4
1/2	2,199.52	1/2	1,811.13	1/2	1,422.75	1/2	1,034.36	1/2	647.06	1/2	259.32	1/2		1/2	1/2		1/2		1/2
3/4	2,191.43	3/4	1,803.04	3/4	1,414.66	3/4	1,026.27	3/4	639.01	3/4	251.23	3/4		3/4	3/4		3/4		3/4
10	2,183.34	10	1,794.95	10	1,406.56	10	1,018.18	10	630.96	10	243.14	10		10	10		10		10
1/4	2,175.25	1/4	1,786.86	1/4	1,398.47	1/4	1,010.09	1/4	622.91	1/4	235.05	1/4		1/4	1/4		1/4		1/4
1/2	2,167.16	1/2	1,778.77	1/2	1,390.38	1/2	1,001.99	1/2	614.85	1/2	226.96	1/2		1/2	1/2		1/2		1/2
3/4	2,159.06	3/4	1,770.68	3/4	1,382.29	3/4	993.90	3/4	606.80	3/4	218.87	3/4		3/4	3/4		3/4		3/4
11	2,150.97	11	1,762.59	11	1,374.20	11	985.81	11	598.75	11	210.77	11		11	11		11		11
1/4	2,142.88	1/4	1,754.49	1/4	1,366.11	1/4	977.72	1/4	590.70	1/4	202.68	1/4		1/4	1/4		1/4		1/4
1/2	2,134.79	1/2	1,746.40	1/2	1,358.02	1/2	969.63	1/2	582.64	1/2	194.59	1/2		1/2	1/2		1/2		1/2
3/4	2,126.70	3/4	1,738.31	3/4	1,349.92	3/4	961.54	3/4	574.59	3/4	186.50	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2014 CL
RECALCULATED: 02/24/2020 PMA
NAME CHANGE: 02/24/2020

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "KIRBY 31003B"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 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	5,114.54	0	4,782.55	0	4,431.57	0	4,062.70	0	3,678.15	0	3,290.11	0	2,902.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,106.90	1/4	4,775.41	1/4	4,424.06	1/4	4,054.84	1/4	3,670.07	1/4	3,282.02	1/4	2,893.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,099.25	1/2	4,768.27	1/2	4,416.54	1/2	4,046.98	1/2	3,661.99	1/2	3,273.94	1/2	2,885.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,091.61	3/4	4,761.12	3/4	4,409.00	3/4	4,039.09	3/4	3,653.90	3/4	3,265.85	3/4	2,877.81		
1		1		1		1	5,083.97	1	4,753.96	1	4,401.45	1	4,031.20	1	3,645.82	1	3,257.77	1	2,869.72		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,076.32	1/4	4,746.80	1/4	4,393.91	1/4	4,023.31	1/4	3,637.73	1/4	3,249.69	1/4	2,861.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,068.68	1/2	4,739.64	1/2	4,386.36	1/2	4,015.42	1/2	3,629.65	1/2	3,241.60	1/2	2,853.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,061.93	3/4	4,732.45	3/4	4,378.79	3/4	4,007.50	3/4	3,621.56	3/4	3,233.52	3/4	2,845.47		
2		2		2		2	5,055.18	2	4,725.27	2	4,371.21	2	3,999.58	2	3,613.48	2	3,225.43	2	2,837.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,048.43	1/4	4,718.08	1/4	4,363.64	1/4	3,991.66	1/4	3,605.40	1/4	3,217.35	1/4	2,829.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,041.68	1/2	4,710.90	1/2	4,356.07	1/2	3,983.74	1/2	3,597.31	1/2	3,209.26	1/2	2,821.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,035.21	3/4	4,703.69	3/4	4,348.46	3/4	3,975.79	3/4	3,589.23	3/4	3,201.18	3/4	2,813.13		
3		3		3		3	5,028.73	3	4,696.47	3	4,340.86	3	3,967.85	3	3,581.14	3	3,193.10	3	2,805.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,022.26	1/4	4,689.26	1/4	4,333.26	1/4	3,959.90	1/4	3,573.06	1/4	3,185.01	1/4	2,796.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,015.79	1/2	4,682.05	1/2	4,325.66	1/2	3,951.95	1/2	3,564.97	1/2	3,176.93	1/2	2,788.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,009.29	3/4	4,674.80	3/4	4,318.03	3/4	3,943.98	3/4	3,556.89	3/4	3,168.84	3/4	2,780.80		
4		4		4		4	5,002.79	4	4,667.56	4	4,310.39	4	3,936.00	4	3,548.81	4	3,160.76	4	2,772.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,996.29	1/4	4,660.32	1/4	4,302.76	1/4	3,928.02	1/4	3,540.72	1/4	3,152.67	1/4	2,764.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,989.78	1/2	4,653.08	1/2	4,295.13	1/2	3,920.05	1/2	3,532.64	1/2	3,144.59	1/2	2,756.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,983.25	3/4	4,645.80	3/4	4,287.48	3/4	3,912.04	3/4	3,524.55	3/4	3,136.51	3/4	2,748.46		
5		5		5		5	4,976.72	5	4,638.53	5	4,279.83	5	3,904.04	5	3,516.47	5	3,128.42	5	2,740.38		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,970.19	1/4	4,631.26	1/4	4,272.17	1/4	3,896.03	1/4	3,508.38	1/4	3,120.34	1/4	2,732.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,963.66	1/2	4,623.99	1/2	4,264.52	1/2	3,888.03	1/2	3,500.30	1/2	3,112.25	1/2	2,724.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,957.11	3/4	4,616.68	3/4	4,256.84	3/4	3,879.99	3/4	3,492.22	3/4	3,104.17	3/4	2,716.12		
6		6		6		6	4,950.55	6	4,609.38	6	4,249.16	6	3,871.96	6	3,484.13	6	3,096.08	6	2,708.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,943.99	1/4	4,602.07	1/4	4,241.48	1/4	3,863.92	1/4	3,476.05	1/4	3,088.00	1/4	2,699.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,271.18	1/2	4,937.43	1/2	4,594.76	1/2	4,233.80	1/2	3,855.89	1/2	3,467.96	1/2	3,079.92	1/2	2,691.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,266.03	3/4	4,930.54	3/4	4,587.42	3/4	4,226.09	3/4	3,847.83	3/4	3,459.88	3/4	3,071.83	3/4	2,683.79
7		7		7		7	5,260.87	7	4,923.65	7	4,580.09	7	4,218.39	7	3,839.76	7	3,451.79	7	3,063.75	7	2,675.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,255.72	1/4	4,916.75	1/4	4,572.75	1/4	4,210.68	1/4	3,831.70	1/4	3,443.71	1/4	3,055.66	1/4	2,667.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,250.57	1/2	4,909.86	1/2	4,565.41	1/2	4,202.97	1/2	3,823.64	1/2	3,435.63	1/2	3,047.58	1/2	2,659.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,243.39	3/4	4,902.84	3/4	4,558.04	3/4	4,195.23	3/4	3,815.56	3/4	3,427.54	3/4	3,039.49	3/4	2,651.45
8		8		8		8	5,236.22	8	4,895.82	8	4,550.68	8	4,187.50	8	3,807.49	8	3,419.46	8	3,031.41	8	2,643.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,229.05	1/4	4,888.80	1/4	4,543.31	1/4	4,179.76	1/4	3,799.41	1/4	3,411.37	1/4	3,023.33	1/4	2,635.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,221.87	1/2	4,881.77	1/2	4,535.94	1/2	4,172.02	1/2	3,791.33	1/2	3,403.29	1/2	3,015.24	1/2	2,627.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,214.19	3/4	4,874.72	3/4	4,528.55	3/4	4,164.26	3/4	3,783.25	3/4	3,395.20	3/4	3,007.16	3/4	2,619.11
9		9		9		9	5,206.52	9	4,867.67	9	4,521.15	9	4,156.49	9	3,775.17	9	3,387.12	9	2,999.07	9	2,611.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,198.84	1/4	4,860.62	1/4	4,513.75	1/4	4,148.73	1/4	3,767.08	1/4	3,379.04	1/4	2,990.99	1/4	2,602.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,191.16	1/2	4,853.57	1/2	4,506.36	1/2	4,140.96	1/2	3,759.00	1/2	3,370.95	1/2	2,982.90	1/2	2,594.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,183.48	3/4	4,846.49	3/4	4,498.91	3/4	4,133.16	3/4	3,750.91	3/4	3,362.87	3/4	2,974.82	3/4	2,586.77
10		10		10		10	5,175.80	10	4,839.41	10	4,491.46	10	4,125.36	10	3,742.83	10	3,354.78	10	2,966.74	10	2,578.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,168.12	1/4	4,832.33	1/4	4,484.01	1/4	4,117.56	1/4	3,734.74	1/4	3,346.70	1/4	2,958.65	1/4	2,570.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,160.44	1/2	4,825.25	1/2	4,476.56	1/2	4,109.75	1/2	3,726.66	1/2	3,338.61	1/2	2,950.57	1/2	2,562.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,152.79	3/4	4,818.15	3/4	4,469.07	3/4	4,101.92	3/4	3,718.58	3/4	3,330.53	3/4	2,942.48	3/4	2,554.44
11		11		11		11	5,145.14	11	4,811.04	11	4,461.58	11	4,094.09	11	3,710.49	11	3,322.45	11	2,934.40	11	2,546.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,137.49	1/4	4,803.93	1/4	4,454.09	1/4	4,086.26	1/4	3,702.41	1/4	3,314.36	1/4	2,926.31	1/4	2,538.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,129.83	1/2	4,796.82	1/2	4,446.61	1/2	4,078.42	1/2	3,694.32	1/2	3,306.28	1/2	2,918.23	1/2	2,530.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,122.19	3/4	4,789.68	3/4	4,439.09	3/4	4,070.56	3/4	3,686.24	3/4	3,298.19	3/4	2,910.15	3/4	2,522.10

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 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 31003B"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,514.02	0	2,125.97	0	1,737.92	0	1,349.88	0	961.83	0	574.34	0	186.34	0		0		0		0	
1/4	2,505.93	1/4	2,117.88	1/4	1,729.84	1/4	1,341.79	1/4	953.75	1/4	566.27	1/4	178.25	1/4	1/4	1/4		1/4		1/4	
1/2	2,497.85	1/2	2,109.80	1/2	1,721.75	1/2	1,333.71	1/2	945.66	1/2	558.19	1/2	170.17	1/2	1/2	1/2		1/2		1/2	
3/4	2,489.76	3/4	2,101.72	3/4	1,713.67	3/4	1,325.62	3/4	937.58	3/4	550.11	3/4	162.09	3/4	3/4	3/4		3/4		3/4	
1	2,481.68	1	2,093.63	1	1,705.59	1	1,317.54	1	929.49	1	542.03	1	154.00	1	1	1		1		1	
1/4	2,473.59	1/4	2,085.55	1/4	1,697.50	1/4	1,309.45	1/4	921.41	1/4	533.95	1/4	145.92	1/4	1/4	1/4		1/4		1/4	
1/2	2,465.51	1/2	2,077.46	1/2	1,689.42	1/2	1,301.37	1/2	913.32	1/2	525.87	1/2	137.83	1/2	1/2	1/2		1/2		1/2	
3/4	2,457.42	3/4	2,069.38	3/4	1,681.33	3/4	1,293.29	3/4	905.24	3/4	517.78	3/4	129.75	3/4	3/4	3/4		3/4		3/4	
2	2,449.34	2	2,061.29	2	1,673.25	2	1,285.20	2	897.16	2	509.70	2	121.67	2	2	2		2		2	
1/4	2,441.26	1/4	2,053.21	1/4	1,665.16	1/4	1,277.12	1/4	889.07	1/4	501.61	1/4	113.58	1/4	1/4	1/4		1/4		1/4	
1/2	2,433.17	1/2	2,045.13	1/2	1,657.08	1/2	1,269.03	1/2	880.99	1/2	493.53	1/2	105.50	1/2	1/2	1/2		1/2		1/2	
3/4	2,425.09	3/4	2,037.04	3/4	1,648.99	3/4	1,260.95	3/4	872.91	3/4	485.45	3/4	97.41	3/4	3/4	3/4		3/4		3/4	
3	2,417.00	3	2,028.96	3	1,640.91	3	1,252.86	3	864.83	3	477.36	3	89.33	3	3	3		3		3	
1/4	2,408.92	1/4	2,020.87	1/4	1,632.83	1/4	1,244.78	1/4	856.75	1/4	469.28	1/4	81.25	1/4	1/4	1/4		1/4		1/4	
1/2	2,400.83	1/2	2,012.79	1/2	1,624.74	1/2	1,236.70	1/2	848.68	1/2	461.19	1/2	73.16	1/2	1/2	1/2		1/2		1/2	
3/4	2,392.75	3/4	2,004.70	3/4	1,616.66	3/4	1,228.61	3/4	840.61	3/4	453.11	3/4	65.84	3/4	3/4	3/4		3/4		3/4	
4	2,384.67	4	1,996.62	4	1,608.57	4	1,220.53	4	832.54	4	445.03	4	58.51	4	4	4		4		4	
1/4	2,376.58	1/4	1,988.54	1/4	1,600.49	1/4	1,212.44	1/4	824.47	1/4	436.94	1/4	51.18	1/4	1/4	1/4		1/4		1/4	
1/2	2,368.50	1/2	1,980.45	1/2	1,592.40	1/2	1,204.36	1/2	816.40	1/2	428.86	1/2	43.85	1/2	1/2	1/2		1/2		1/2	
3/4	2,360.41	3/4	1,972.37	3/4	1,584.32	3/4	1,196.27	3/4	808.33	3/4	420.77	3/4	38.30	3/4	3/4	3/4		3/4		3/4	
5	2,352.33	5	1,964.28	5	1,576.24	5	1,188.19	5	800.26	5	412.69	5	32.74	5	5	5		5		5	
1/4	2,344.24	1/4	1,956.20	1/4	1,568.15	1/4	1,180.11	1/4	792.19	1/4	404.61	1/4	27.18	1/4	1/4	1/4		1/4		1/4	
1/2	2,336.16	1/2	1,948.11	1/2	1,560.07	1/2	1,172.02	1/2	784.12	1/2	396.52	1/2	21.62	1/2	1/2	1/2		1/2		1/2	
3/4	2,328.08	3/4	1,940.03	3/4	1,551.98	3/4	1,163.94	3/4	776.05	3/4	388.44	3/4		3/4	3/4	3/4		3/4		3/4	
6	2,319.99	6	1,931.95	6	1,543.90	6	1,155.85	6	767.99	6	380.35	6		6	6	6		6		6	
1/4	2,311.91	1/4	1,923.86	1/4	1,535.81	1/4	1,147.77	1/4	759.92	1/4	372.27	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,303.82	1/2	1,915.78	1/2	1,527.73	1/2	1,139.68	1/2	751.85	1/2	364.19	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,295.74	3/4	1,907.69	3/4	1,519.65	3/4	1,131.60	3/4	743.78	3/4	356.10	3/4		3/4	3/4	3/4		3/4		3/4	
7	2,287.65	7	1,899.61	7	1,511.56	7	1,123.52	7	735.71	7	348.02	7		7	7	7		7		7	
1/4	2,279.57	1/4	1,891.52	1/4	1,503.48	1/4	1,115.43	1/4	727.64	1/4	339.93	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,271.49	1/2	1,883.44	1/2	1,495.39	1/2	1,107.35	1/2	719.57	1/2	331.85	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,263.40	3/4	1,875.36	3/4	1,487.31	3/4	1,099.26	3/4	711.51	3/4	323.77	3/4		3/4	3/4	3/4		3/4		3/4	
8	2,255.32	8	1,867.27	8	1,479.22	8	1,091.18	8	703.44	8	315.68	8		8	8	8		8		8	
1/4	2,247.23	1/4	1,859.19	1/4	1,471.14	1/4	1,083.09	1/4	695.37	1/4	307.60	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,239.15	1/2	1,851.10	1/2	1,463.06	1/2	1,075.01	1/2	687.30	1/2	299.51	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,231.06	3/4	1,843.02	3/4	1,454.97	3/4	1,066.93	3/4	679.24	3/4	291.43	3/4		3/4	3/4	3/4		3/4		3/4	
9	2,222.98	9	1,834.93	9	1,446.89	9	1,058.84	9	671.17	9	283.35	9		9	9	9		9		9	
1/4	2,214.90	1/4	1,826.85	1/4	1,438.80	1/4	1,050.76	1/4	663.10	1/4	275.26	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,206.81	1/2	1,818.77	1/2	1,430.72	1/2	1,042.67	1/2	655.03	1/2	267.18	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,198.73	3/4	1,810.68	3/4	1,422.63	3/4	1,034.59	3/4	646.97	3/4	259.09	3/4		3/4	3/4	3/4		3/4		3/4	
10	2,190.64	10	1,802.60	10	1,414.55	10	1,026.50	10	638.90	10	251.01	10		10	10	10		10		10	
1/4	2,182.56	1/4	1,794.51	1/4	1,406.47	1/4	1,018.42	1/4	630.83	1/4	242.93	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,174.47	1/2	1,786.43	1/2	1,398.38	1/2	1,010.34	1/2	622.76	1/2	234.84	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,166.39	3/4	1,778.34	3/4	1,390.30	3/4	1,002.25	3/4	614.69	3/4	226.76	3/4		3/4	3/4	3/4		3/4		3/4	
11	2,158.31	11	1,770.26	11	1,382.21	11	994.17	11	606.62	11	218.67	11		11	11	11		11		11	
1/4	2,150.22	1/4	1,762.18	1/4	1,374.13	1/4	986.08	1/4	598.56	1/4	210.59	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,142.14	1/2	1,754.09	1/2	1,366.04	1/2	978.00	1/2	590.49	1/2	202.51	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,134.05	3/4	1,746.01	3/4	1,357.96	3/4	969.91	3/4	582.41	3/4	194.42	3/4		3/4	3/4	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2014 CL
RECALCULATED: 02/24/2020 PMA
NAME CHANGE: 02/24/2020

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "KIRBY 31003B"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 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	5,094.76	0	4,765.12	0	4,414.62	0	4,045.97	0	3,661.60	0	3,273.75	0	2,885.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,087.20	1/4	4,758.00	1/4	4,407.11	1/4	4,038.12	1/4	3,653.52	1/4	3,265.67	1/4	2,877.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,079.63	1/2	4,750.87	1/2	4,399.60	1/2	4,030.26	1/2	3,645.44	1/2	3,257.59	1/2	2,869.74		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,072.07	3/4	4,743.72	3/4	4,392.05	3/4	4,022.37	3/4	3,637.36	3/4	3,249.51	3/4	2,861.66		
1		1		1		1	5,064.50	1	4,736.58	1	4,384.51	1	4,014.49	1	3,629.28	1	3,241.43	1	2,853.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,056.94	1/4	4,729.43	1/4	4,376.97	1/4	4,006.60	1/4	3,621.20	1/4	3,233.35	1/4	2,845.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,049.37	1/2	4,722.28	1/2	4,369.43	1/2	3,998.71	1/2	3,613.12	1/2	3,225.27	1/2	2,837.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,042.70	3/4	4,715.11	3/4	4,361.86	3/4	3,990.80	3/4	3,605.04	3/4	3,217.19	3/4	2,829.34		
2		2		2		2	5,036.03	2	4,707.94	2	4,354.29	2	3,982.88	2	3,596.96	2	3,209.11	2	2,821.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,029.36	1/4	4,700.76	1/4	4,346.72	1/4	3,974.97	1/4	3,588.88	1/4	3,201.03	1/4	2,813.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,022.69	1/2	4,693.59	1/2	4,339.15	1/2	3,967.05	1/2	3,580.80	1/2	3,192.95	1/2	2,805.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,016.30	3/4	4,686.39	3/4	4,331.55	3/4	3,959.11	3/4	3,572.72	3/4	3,184.87	3/4	2,797.02		
3		3		3		3	5,009.91	3	4,679.19	3	4,323.96	3	3,951.17	3	3,564.64	3	3,176.79	3	2,788.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,003.51	1/4	4,671.98	1/4	4,316.36	1/4	3,943.22	1/4	3,556.56	1/4	3,168.71	1/4	2,780.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,997.12	1/2	4,664.78	1/2	4,308.76	1/2	3,935.28	1/2	3,548.48	1/2	3,160.63	1/2	2,772.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,990.70	3/4	4,657.55	3/4	4,301.13	3/4	3,927.31	3/4	3,540.40	3/4	3,152.55	3/4	2,764.70		
4		4		4		4	4,984.28	4	4,650.32	4	4,293.50	4	3,919.34	4	3,532.32	4	3,144.47	4	2,756.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,977.85	1/4	4,643.09	1/4	4,285.88	1/4	3,911.36	1/4	3,524.24	1/4	3,136.39	1/4	2,748.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,971.43	1/2	4,635.86	1/2	4,278.25	1/2	3,903.39	1/2	3,516.16	1/2	3,128.31	1/2	2,740.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,964.98	3/4	4,628.60	3/4	4,270.60	3/4	3,895.39	3/4	3,508.08	3/4	3,120.23	3/4	2,732.38		
5		5		5		5	4,958.53	5	4,621.34	5	4,262.95	5	3,887.39	5	3,500.00	5	3,112.15	5	2,724.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,952.08	1/4	4,614.08	1/4	4,255.31	1/4	3,879.39	1/4	3,491.92	1/4	3,104.07	1/4	2,716.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,945.63	1/2	4,606.82	1/2	4,247.66	1/2	3,871.39	1/2	3,483.84	1/2	3,095.99	1/2	2,708.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,939.15	3/4	4,599.53	3/4	4,239.99	3/4	3,863.36	3/4	3,475.76	3/4	3,087.91	3/4	2,700.06		
6		6		6		6	4,932.67	6	4,592.23	6	4,232.31	6	3,855.33	6	3,467.68	6	3,079.83	6	2,691.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,926.19	1/4	4,584.93	1/4	4,224.64	1/4	3,847.30	1/4	3,459.60	1/4	3,071.75	1/4	2,683.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,249.76	1/2	4,919.71	1/2	4,577.64	1/2	4,216.96	1/2	3,839.27	1/2	3,451.52	1/2	3,063.67	1/2	2,675.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,244.68	3/4	4,912.84	3/4	4,570.31	3/4	4,209.26	3/4	3,831.21	3/4	3,443.44	3/4	3,055.59	3/4	2,667.74
7		7		7		7	5,239.60	7	4,905.98	7	4,562.98	7	4,201.56	7	3,823.15	7	3,435.36	7	3,047.51	7	2,659.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,234.52	1/4	4,899.12	1/4	4,555.65	1/4	4,193.86	1/4	3,815.09	1/4	3,427.28	1/4	3,039.43	1/4	2,651.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,229.44	1/2	4,892.25	1/2	4,548.33	1/2	4,186.15	1/2	3,807.03	1/2	3,419.20	1/2	3,031.35	1/2	2,643.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,222.34	3/4	4,885.24	3/4	4,540.97	3/4	4,178.42	3/4	3,798.96	3/4	3,411.12	3/4	3,023.27	3/4	2,635.42
8		8		8		8	5,215.24	8	4,878.23	8	4,533.61	8	4,170.69	8	3,790.88	8	3,403.04	8	3,015.19	8	2,627.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,208.14	1/4	4,871.22	1/4	4,526.26	1/4	4,162.96	1/4	3,782.80	1/4	3,394.96	1/4	3,007.11	1/4	2,619.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,201.04	1/2	4,864.21	1/2	4,518.90	1/2	4,155.23	1/2	3,774.73	1/2	3,386.88	1/2	2,999.03	1/2	2,611.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,193.44	3/4	4,857.17	3/4	4,511.51	3/4	4,147.47	3/4	3,766.65	3/4	3,378.80	3/4	2,990.95	3/4	2,603.10
9		9		9		9	5,185.83	9	4,850.12	9	4,504.13	9	4,139.71	9	3,758.57	9	3,370.72	9	2,982.87	9	2,595.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,178.22	1/4	4,843.08	1/4	4,496.74	1/4	4,131.95	1/4	3,750.49	1/4	3,362.64	1/4	2,974.79	1/4	2,586.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,170.62	1/2	4,836.04	1/2	4,489.36	1/2	4,124.19	1/2	3,742.41	1/2	3,354.56	1/2	2,966.71	1/2	2,578.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,163.01	3/4	4,828.97	3/4	4,481.91	3/4	4,116.39	3/4	3,734.33	3/4	3,346.48	3/4	2,958.63	3/4	2,570.78
10		10		10		10	5,155.41	10	4,821.91	10	4,474.47	10	4,108.60	10	3,726.24	10	3,338.40	10	2,950.55	10	2,562.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,147.80	1/4	4,814.84	1/4	4,467.02	1/4	4,100.80	1/4	3,718.16	1/4	3,330.32	1/4	2,942.47	1/4	2,554.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,140.20	1/2	4,807.77	1/2	4,459.58	1/2	4,093.00	1/2	3,710.08	1/2	3,322.23	1/2	2,934.39	1/2	2,546.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,132.62	3/4	4,800.67	3/4	4,452.10	3/4	4,085.17	3/4	3,702.00	3/4	3,314.15	3/4	2,926.31	3/4	2,538.46
11		11		11		11	5,125.05	11	4,793.57	11	4,444.61	11	4,077.35	11	3,693.92	11	3,306.07	11	2,918.22	11	2,530.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,117.47	1/4	4,786.47	1/4	4,437.13	1/4	4,069.52	1/4	3,685.84	1/4	3,297.99	1/4	2,910.14	1/4	2,522.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,109.89	1/2	4,779.38	1/2	4,429.64	1/2	4,061.69	1/2	3,677.76	1/2	3,289.91	1/2	2,902.06	1/2	2,514.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,102.33	3/4	4,772.25	3/4	4,422.13	3/4	4,053.83	3/4	3,669.68	3/4	3,281.83	3/4	2,893.98	3/4	2,506.13

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 51'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 31003B"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 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	2,498.05	0	2,110.20	0	1,722.36	0	1,334.51	0	946.66	0	571.29	0	186.24	0		0		0	
1/4	2,489.97	1/4	2,102.12	1/4	1,714.28	1/4	1,326.43	1/4	938.58	1/4	563.53	1/4	178.16	1/4	1/4		1/4		1/4
1/2	2,481.89	1/2	2,094.04	1/2	1,706.19	1/2	1,318.35	1/2	930.50	1/2	555.77	1/2	170.08	1/2	1/2		1/2		1/2
3/4	2,473.81	3/4	2,085.96	3/4	1,698.11	3/4	1,310.27	3/4	922.42	3/4	548.00	3/4	162.00	3/4	3/4		3/4		3/4
1	2,465.73	1	2,077.88	1	1,690.03	1	1,302.18	1	914.34	1	540.22	1	153.92	1	1		1		1
1/4	2,457.65	1/4	2,069.80	1/4	1,681.95	1/4	1,294.10	1/4	906.26	1/4	532.45	1/4	145.84	1/4	1/4		1/4		1/4
1/2	2,449.57	1/2	2,061.72	1/2	1,673.87	1/2	1,286.02	1/2	898.17	1/2	524.68	1/2	137.76	1/2	1/2		1/2		1/2
3/4	2,441.49	3/4	2,053.64	3/4	1,665.79	3/4	1,277.94	3/4	890.21	3/4	516.79	3/4	129.68	3/4	3/4		3/4		3/4
2	2,433.41	2	2,045.56	2	1,657.71	2	1,269.86	2	882.24	2	508.90	2	121.60	2	2		2		2
1/4	2,425.33	1/4	2,037.48	1/4	1,649.63	1/4	1,261.78	1/4	874.28	1/4	501.02	1/4	113.52	1/4	1/4		1/4		1/4
1/2	2,417.25	1/2	2,029.40	1/2	1,641.55	1/2	1,253.70	1/2	866.31	1/2	493.13	1/2	105.44	1/2	1/2		1/2		1/2
3/4	2,409.17	3/4	2,021.32	3/4	1,633.47	3/4	1,245.62	3/4	858.51	3/4	485.08	3/4	97.36	3/4	3/4		3/4		3/4
3	2,401.09	3	2,013.24	3	1,625.39	3	1,237.54	3	850.70	3	477.04	3	89.28	3	3		3		3
1/4	2,393.01	1/4	2,005.16	1/4	1,617.31	1/4	1,229.46	1/4	842.90	1/4	469.00	1/4	81.20	1/4	1/4		1/4		1/4
1/2	2,384.93	1/2	1,997.08	1/2	1,609.23	1/2	1,221.38	1/2	835.09	1/2	460.96	1/2	73.12	1/2	1/2		1/2		1/2
3/4	2,376.85	3/4	1,989.00	3/4	1,601.15	3/4	1,213.30	3/4	827.33	3/4	452.88	3/4	65.00	3/4	3/4		3/4		3/4
4	2,368.77	4	1,980.92	4	1,593.07	4	1,205.22	4	819.57	4	444.80	4	58.48	4	4		4		4
1/4	2,360.69	1/4	1,972.84	1/4	1,584.99	1/4	1,197.14	1/4	811.81	1/4	436.72	1/4	51.15	1/4	1/4		1/4		1/4
1/2	2,352.61	1/2	1,964.76	1/2	1,576.91	1/2	1,189.06	1/2	804.05	1/2	428.64	1/2	43.83	1/2	1/2		1/2		1/2
3/4	2,344.53	3/4	1,956.68	3/4	1,568.83	3/4	1,180.98	3/4	796.29	3/4	420.56	3/4	38.27	3/4	3/4		3/4		3/4
5	2,336.45	5	1,948.60	5	1,560.75	5	1,172.90	5	788.53	5	412.48	5	32.72	5	5		5		5
1/4	2,328.37	1/4	1,940.52	1/4	1,552.67	1/4	1,164.82	1/4	780.77	1/4	404.40	1/4	27.16	1/4	1/4		1/4		1/4
1/2	2,320.29	1/2	1,932.44	1/2	1,544.59	1/2	1,156.74	1/2	773.02	1/2	396.32	1/2	21.61	1/2	1/2		1/2		1/2
3/4	2,312.21	3/4	1,924.36	3/4	1,536.51	3/4	1,148.66	3/4	765.26	3/4	388.24	3/4		3/4	3/4		3/4		3/4
6	2,304.13	6	1,916.28	6	1,528.43	6	1,140.58	6	757.50	6	380.16	6		6	6		6		6
1/4	2,296.05	1/4	1,908.20	1/4	1,520.35	1/4	1,132.50	1/4	749.74	1/4	372.08	1/4		1/4	1/4		1/4		1/4
1/2	2,287.97	1/2	1,900.12	1/2	1,512.27	1/2	1,124.42	1/2	741.98	1/2	364.00	1/2		1/2	1/2		1/2		1/2
3/4	2,279.89	3/4	1,892.04	3/4	1,504.19	3/4	1,116.34	3/4	734.22	3/4	355.92	3/4		3/4	3/4		3/4		3/4
7	2,271.81	7	1,883.96	7	1,496.11	7	1,108.26	7	726.47	7	347.84	7		7	7		7		7
1/4	2,263.73	1/4	1,875.88	1/4	1,488.03	1/4	1,100.18	1/4	718.71	1/4	339.76	1/4		1/4	1/4		1/4		1/4
1/2	2,255.65	1/2	1,867.80	1/2	1,479.95	1/2	1,092.10	1/2	710.95	1/2	331.68	1/2		1/2	1/2		1/2		1/2
3/4	2,247.57	3/4	1,859.72	3/4	1,471.87	3/4	1,084.02	3/4	703.19	3/4	323.60	3/4		3/4	3/4		3/4		3/4
8	2,239.49	8	1,851.64	8	1,463.79	8	1,075.94	8	695.43	8	315.52	8		8	8		8		8
1/4	2,231.41	1/4	1,843.56	1/4	1,455.71	1/4	1,067.86	1/4	687.68	1/4	307.44	1/4		1/4	1/4		1/4		1/4
1/2	2,223.33	1/2	1,835.48	1/2	1,447.63	1/2	1,059.78	1/2	679.92	1/2	299.36	1/2		1/2	1/2		1/2		1/2
3/4	2,215.25	3/4	1,827.40	3/4	1,439.55	3/4	1,051.70	3/4	672.16	3/4	291.28	3/4		3/4	3/4		3/4		3/4
9	2,207.17	9	1,819.32	9	1,431.47	9	1,043.62	9	664.40	9	283.20	9		9	9		9		9
1/4	2,199.09	1/4	1,811.24	1/4	1,423.39	1/4	1,035.54	1/4	656.65	1/4	275.12	1/4		1/4	1/4		1/4		1/4
1/2	2,191.01	1/2	1,803.16	1/2	1,415.31	1/2	1,027.46	1/2	648.89	1/2	267.04	1/2		1/2	1/2		1/2		1/2
3/4	2,182.93	3/4	1,795.08	3/4	1,407.23	3/4	1,019.38	3/4	641.13	3/4	258.96	3/4		3/4	3/4		3/4		3/4
10	2,174.85	10	1,787.00	10	1,399.15	10	1,011.30	10	633.37	10	250.88	10		10	10		10		10
1/4	2,166.77	1/4	1,778.92	1/4	1,391.07	1/4	1,003.22	1/4	625.61	1/4	242.80	1/4		1/4	1/4		1/4		1/4
1/2	2,158.69	1/2	1,770.84	1/2	1,382.99	1/2	995.14	1/2	617.86	1/2	234.72	1/2		1/2	1/2		1/2		1/2
3/4	2,150.61	3/4	1,762.76	3/4	1,374.91	3/4	987.06	3/4	610.10	3/4	226.64	3/4		3/4	3/4		3/4		3/4
11	2,142.53	11	1,754.68	11	1,366.83	11	978.98	11	602.34	11	218.56	11		11	11		11		11
1/4	2,134.45	1/4	1,746.60	1/4	1,358.75	1/4	970.90	1/4	594.58	1/4	210.48	1/4		1/4	1/4		1/4		1/4
1/2	2,126.37	1/2	1,738.52	1/2	1,350.67	1/2	962.82	1/2	586.82	1/2	202.40	1/2		1/2	1/2		1/2		1/2
3/4	2,118.29	3/4	1,730.44	3/4	1,342.59	3/4	954.74	3/4	579.06	3/4	194.32	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2014 CL
RECALCULATED: 02/24/2020 PMA
NAME CHANGE: 02/24/2020

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "KIRBY 31003B"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 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	5,128.21	0	4,797.30	0	4,446.36	0	4,077.23	0	3,692.26	0	3,303.58	0	2,914.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,120.63	1/4	4,790.16	1/4	4,438.83	1/4	4,069.35	1/4	3,684.16	1/4	3,295.48	1/4	2,906.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,113.05	1/2	4,783.01	1/2	4,431.30	1/2	4,061.48	1/2	3,676.06	1/2	3,287.38	1/2	2,898.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,105.46	3/4	4,775.87	3/4	4,423.77	3/4	4,053.60	3/4	3,667.96	3/4	3,279.28	3/4	2,890.60
1		1		1		1	5,097.88	1	4,768.71	1	4,416.21	1	4,045.70	1	3,659.87	1	3,271.19	1	2,882.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,090.30	1/4	4,761.54	1/4	4,408.65	1/4	4,037.79	1/4	3,651.77	1/4	3,263.09	1/4	2,874.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,082.72	1/2	4,754.38	1/2	4,401.09	1/2	4,029.89	1/2	3,643.67	1/2	3,254.99	1/2	2,866.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,075.13	3/4	4,747.21	3/4	4,393.53	3/4	4,021.99	3/4	3,635.57	3/4	3,246.89	3/4	2,858.21
2		2		2		2	5,068.45	2	4,740.02	2	4,385.95	2	4,014.06	2	3,627.48	2	3,238.80	2	2,850.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,061.76	1/4	4,732.83	1/4	4,378.36	1/4	4,006.12	1/4	3,619.38	1/4	3,230.70	1/4	2,842.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,055.07	1/2	4,725.64	1/2	4,370.77	1/2	3,998.19	1/2	3,611.28	1/2	3,222.60	1/2	2,833.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,048.38	3/4	4,718.45	3/4	4,363.19	3/4	3,990.26	3/4	3,603.18	3/4	3,214.50	3/4	2,825.82
3		3		3		3	5,041.97	3	4,711.23	3	4,355.57	3	3,982.30	3	3,595.09	3	3,206.41	3	2,817.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,035.56	1/4	4,704.01	1/4	4,347.95	1/4	3,974.34	1/4	3,586.99	1/4	3,198.31	1/4	2,809.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,029.15	1/2	4,696.80	1/2	4,340.34	1/2	3,966.38	1/2	3,578.89	1/2	3,190.21	1/2	2,801.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,022.74	3/4	4,689.58	3/4	4,332.72	3/4	3,958.42	3/4	3,570.79	3/4	3,182.11	3/4	2,793.43
4		4		4		4	5,016.30	4	4,682.33	4	4,325.08	4	3,950.43	4	3,562.70	4	3,174.02	4	2,785.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,009.86	1/4	4,675.08	1/4	4,317.43	1/4	3,942.44	1/4	3,554.60	1/4	3,165.92	1/4	2,777.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,003.42	1/2	4,667.83	1/2	4,309.79	1/2	3,934.45	1/2	3,546.50	1/2	3,157.82	1/2	2,769.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,996.98	3/4	4,660.58	3/4	4,302.15	3/4	3,926.46	3/4	3,538.40	3/4	3,149.72	3/4	2,761.04
5		5		5		5	4,990.52	5	4,653.31	5	4,294.48	5	3,918.44	5	3,530.31	5	3,141.63	5	2,752.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,984.05	1/4	4,646.03	1/4	4,286.82	1/4	3,910.42	1/4	3,522.21	1/4	3,133.53	1/4	2,744.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,977.58	1/2	4,638.76	1/2	4,279.15	1/2	3,902.40	1/2	3,514.11	1/2	3,125.43	1/2	2,736.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,971.11	3/4	4,631.48	3/4	4,271.49	3/4	3,894.38	3/4	3,506.01	3/4	3,117.33	3/4	2,728.65
6		6		6		6	4,964.62	6	4,624.17	6	4,263.79	6	3,886.34	6	3,497.92	6	3,109.24	6	2,720.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,958.12	1/4	4,616.85	1/4	4,256.10	1/4	3,878.29	1/4	3,489.82	1/4	3,101.14	1/4	2,712.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,951.62	1/2	4,609.54	1/2	4,248.41	1/2	3,870.24	1/2	3,481.72	1/2	3,093.04	1/2	2,704.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,275.98	3/4	4,945.12	3/4	4,602.22	3/4	4,240.72	3/4	3,862.20	3/4	3,473.62	3/4	3,084.94
7		7		7		7	5,270.89	7	4,938.24	7	4,594.88	7	4,233.00	7	3,854.12	7	3,465.53	7	3,076.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,265.80	1/4	4,931.36	1/4	4,587.53	1/4	4,225.28	1/4	3,846.04	1/4	3,457.43	1/4	3,068.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,260.71	1/2	4,924.48	1/2	4,580.19	1/2	4,217.56	1/2	3,837.97	1/2	3,449.33	1/2	3,060.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,255.61	3/4	4,917.60	3/4	4,572.84	3/4	4,209.84	3/4	3,829.89	3/4	3,441.23	3/4	3,052.55
8		8		8		8	5,248.50	8	4,910.57	8	4,565.47	8	4,202.09	8	3,821.80	8	3,433.14	8	3,044.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,241.38	1/4	4,903.54	1/4	4,558.10	1/4	4,194.35	1/4	3,813.71	1/4	3,425.04	1/4	3,036.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,234.26	1/2	4,896.51	1/2	4,550.72	1/2	4,186.60	1/2	3,805.62	1/2	3,416.94	1/2	3,028.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,227.15	3/4	4,889.48	3/4	4,543.35	3/4	4,178.85	3/4	3,797.52	3/4	3,408.84	3/4	3,020.16
9		9		9		9	5,219.53	9	4,882.43	9	4,535.94	9	4,171.07	9	3,789.43	9	3,400.75	9	3,012.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,211.90	1/4	4,875.37	1/4	4,528.54	1/4	4,163.29	1/4	3,781.33	1/4	3,392.65	1/4	3,003.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,204.28	1/2	4,868.31	1/2	4,521.14	1/2	4,155.52	1/2	3,773.23	1/2	3,384.55	1/2	2,995.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,196.66	3/4	4,861.25	3/4	4,513.74	3/4	4,147.74	3/4	3,765.13	3/4	3,376.45	3/4	2,987.77
10		10		10		10	5,189.03	10	4,854.17	10	4,506.27	10	4,139.93	10	3,757.04	10	3,368.36	10	2,979.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,181.41	1/4	4,847.08	1/4	4,498.81	1/4	4,132.11	1/4	3,748.94	1/4	3,360.26	1/4	2,971.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,173.79	1/2	4,839.99	1/2	4,491.35	1/2	4,124.30	1/2	3,740.84	1/2	3,352.16	1/2	2,963.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,166.16	3/4	4,832.91	3/4	4,483.89	3/4	4,116.48	3/4	3,732.74	3/4	3,344.06	3/4	2,955.38
11		11		11		11	5,158.57	11	4,825.79	11	4,476.39	11	4,108.64	11	3,724.65	11	3,335.97	11	2,947.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,150.98	1/4	4,818.68	1/4	4,468.89	1/4	4,100.79	1/4	3,716.55	1/4	3,327.87	1/4	2,939.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,143.39	1/2	4,811.56	1/2	4,461.39	1/2	4,092.95	1/2	3,708.45	1/2	3,319.77	1/2	2,931.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,135.79	3/4	4,804.45	3/4	4,453.89	3/4	4,085.10	3/4	3,700.35	3/4	3,311.67	3/4	2,922.99

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 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 31003B"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-05 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	2,526.22	0	2,137.54	0	1,748.86	0	1,360.18	0	971.50	0	583.36	0	194.74	0		0		0	
1/4	2,518.12	1/4	2,129.44	1/4	1,740.76	1/4	1,352.08	1/4	963.40	1/4	575.28	1/4	186.64	1/4	1/4		1/4		1/4
1/2	2,510.02	1/2	2,121.34	1/2	1,732.66	1/2	1,343.98	1/2	955.30	1/2	567.19	1/2	178.54	1/2	1/2		1/2		1/2
3/4	2,501.92	3/4	2,113.24	3/4	1,724.56	3/4	1,335.88	3/4	947.20	3/4	559.10	3/4	170.44	3/4	3/4		3/4		3/4
1	2,493.83	1	2,105.15	1	1,716.47	1	1,327.79	1	939.11	1	551.01	1	162.35	1	1		1		1
1/4	2,485.73	1/4	2,097.05	1/4	1,708.37	1/4	1,319.69	1/4	931.01	1/4	542.91	1/4	154.25	1/4	1/4		1/4		1/4
1/2	2,477.63	1/2	2,088.95	1/2	1,700.27	1/2	1,311.59	1/2	922.91	1/2	534.82	1/2	146.15	1/2	1/2		1/2		1/2
3/4	2,469.53	3/4	2,080.85	3/4	1,692.17	3/4	1,303.49	3/4	914.81	3/4	526.72	3/4	138.06	3/4	3/4		3/4		3/4
2	2,461.44	2	2,072.76	2	1,684.08	2	1,295.40	2	906.72	2	518.62	2	129.96	2	2		2		2
1/4	2,453.34	1/4	2,064.66	1/4	1,675.98	1/4	1,287.30	1/4	898.62	1/4	510.53	1/4	121.86	1/4	1/4		1/4		1/4
1/2	2,445.24	1/2	2,056.56	1/2	1,667.88	1/2	1,279.20	1/2	890.52	1/2	502.43	1/2	113.76	1/2	1/2		1/2		1/2
3/4	2,437.14	3/4	2,048.46	3/4	1,659.78	3/4	1,271.10	3/4	882.42	3/4	494.33	3/4	105.67	3/4	3/4		3/4		3/4
3	2,429.05	3	2,040.37	3	1,651.69	3	1,263.01	3	874.33	3	486.24	3	97.57	3	3		3		3
1/4	2,420.95	1/4	2,032.27	1/4	1,643.59	1/4	1,254.91	1/4	866.24	1/4	478.14	1/4	89.47	1/4	1/4		1/4		1/4
1/2	2,412.85	1/2	2,024.17	1/2	1,635.49	1/2	1,246.81	1/2	858.15	1/2	470.04	1/2	81.38	1/2	1/2		1/2		1/2
3/4	2,404.75	3/4	2,016.07	3/4	1,627.39	3/4	1,238.71	3/4	850.06	3/4	461.94	3/4	73.28	3/4	3/4		3/4		3/4
4	2,396.66	4	2,007.98	4	1,619.30	4	1,230.62	4	841.98	4	453.85	4	65.94	4	4		4		4
1/4	2,388.56	1/4	1,999.88	1/4	1,611.20	1/4	1,222.52	1/4	833.90	1/4	445.75	1/4	58.60	1/4	1/4		1/4		1/4
1/2	2,380.46	1/2	1,991.78	1/2	1,603.10	1/2	1,214.42	1/2	825.81	1/2	437.65	1/2	51.26	1/2	1/2		1/2		1/2
3/4	2,372.36	3/4	1,983.68	3/4	1,595.00	3/4	1,206.32	3/4	817.73	3/4	429.56	3/4	43.92	3/4	3/4		3/4		3/4
5	2,364.27	5	1,975.59	5	1,586.91	5	1,198.23	5	809.65	5	421.46	5	38.36	5	5		5		5
1/4	2,356.17	1/4	1,967.49	1/4	1,578.81	1/4	1,190.13	1/4	801.57	1/4	413.36	1/4	32.79	1/4	1/4		1/4		1/4
1/2	2,348.07	1/2	1,959.39	1/2	1,570.71	1/2	1,182.03	1/2	793.48	1/2	405.26	1/2	27.22	1/2	1/2		1/2		1/2
3/4	2,339.97	3/4	1,951.29	3/4	1,562.61	3/4	1,173.93	3/4	785.40	3/4	397.17	3/4	21.65	3/4	3/4		3/4		3/4
6	2,331.88	6	1,943.20	6	1,554.52	6	1,165.84	6	777.32	6	389.07	6		6	6		6		6
1/4	2,323.78	1/4	1,935.10	1/4	1,546.42	1/4	1,157.74	1/4	769.24	1/4	380.97	1/4		1/4	1/4		1/4		1/4
1/2	2,315.68	1/2	1,927.00	1/2	1,538.32	1/2	1,149.64	1/2	761.16	1/2	372.87	1/2		1/2	1/2		1/2		1/2
3/4	2,307.58	3/4	1,918.90	3/4	1,530.22	3/4	1,141.54	3/4	753.07	3/4	364.78	3/4		3/4	3/4		3/4		3/4
7	2,299.49	7	1,910.81	7	1,522.13	7	1,133.45	7	744.99	7	356.68	7		7	7		7		7
1/4	2,291.39	1/4	1,902.71	1/4	1,514.03	1/4	1,125.35	1/4	736.91	1/4	348.58	1/4		1/4	1/4		1/4		1/4
1/2	2,283.29	1/2	1,894.61	1/2	1,505.93	1/2	1,117.25	1/2	728.83	1/2	340.49	1/2		1/2	1/2		1/2		1/2
3/4	2,275.19	3/4	1,886.51	3/4	1,497.83	3/4	1,109.15	3/4	720.75	3/4	332.39	3/4		3/4	3/4		3/4		3/4
8	2,267.10	8	1,878.42	8	1,489.74	8	1,101.06	8	712.67	8	324.29	8		8	8		8		8
1/4	2,259.00	1/4	1,870.32	1/4	1,481.64	1/4	1,092.96	1/4	704.59	1/4	316.19	1/4		1/4	1/4		1/4		1/4
1/2	2,250.90	1/2	1,862.22	1/2	1,473.54	1/2	1,084.86	1/2	696.51	1/2	308.10	1/2		1/2	1/2		1/2		1/2
3/4	2,242.80	3/4	1,854.12	3/4	1,465.44	3/4	1,076.76	3/4	688.42	3/4	300.00	3/4		3/4	3/4		3/4		3/4
9	2,234.71	9	1,846.03	9	1,457.35	9	1,068.67	9	680.34	9	291.90	9		9	9		9		9
1/4	2,226.61	1/4	1,837.93	1/4	1,449.25	1/4	1,060.57	1/4	672.26	1/4	283.81	1/4		1/4	1/4		1/4		1/4
1/2	2,218.51	1/2	1,829.83	1/2	1,441.15	1/2	1,052.47	1/2	664.18	1/2	275.71	1/2		1/2	1/2		1/2		1/2
3/4	2,210.41	3/4	1,821.73	3/4	1,433.05	3/4	1,044.37	3/4	656.10	3/4	267.61	3/4		3/4	3/4		3/4		3/4
10	2,202.32	10	1,813.64	10	1,424.96	10	1,036.28	10	648.02	10	259.51	10		10	10		10		10
1/4	2,194.22	1/4	1,805.54	1/4	1,416.86	1/4	1,028.18	1/4	639.94	1/4	251.42	1/4		1/4	1/4		1/4		1/4
1/2	2,186.12	1/2	1,797.44	1/2	1,408.76	1/2	1,020.08	1/2	631.86	1/2	243.32	1/2		1/2	1/2		1/2		1/2
3/4	2,178.02	3/4	1,789.34	3/4	1,400.66	3/4	1,011.98	3/4	623.78	3/4	235.22	3/4		3/4	3/4		3/4		3/4
11	2,169.93	11	1,781.25	11	1,392.57	11	1,003.89	11	615.69	11	227.13	11		11	11		11		11
1/4	2,161.83	1/4	1,773.15	1/4	1,384.47	1/4	995.79	1/4	607.61	1/4	219.03	1/4		1/4	1/4		1/4		1/4
1/2	2,153.73	1/2	1,765.05	1/2	1,376.37	1/2	987.69	1/2	599.53	1/2	210.93	1/2		1/2	1/2		1/2		1/2
3/4	2,145.63	3/4	1,756.95	3/4	1,368.27	3/4	979.59	3/4	591.45	3/4	202.83	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2014 CL
RECALCULATED: 02/24/2020 PMA
NAME CHANGE: 02/24/2020

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 31003B"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-06"

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
							5,141.26		4,796.25		4,445.81		4,077.66		3,692.15		3,303.34		2,914.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,133.20	1/4	4,789.11	1/4	4,438.30	1/4	4,069.80	1/4	3,684.05	1/4	3,295.24	1/4	2,906.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,125.15	1/2	4,781.96	1/2	4,430.78	1/2	4,061.94	1/2	3,675.94	1/2	3,287.15	1/2	2,898.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,117.09	3/4	4,774.82	3/4	4,423.27	3/4	4,054.08	3/4	3,667.83	3/4	3,279.05	3/4	2,890.03
1	1	1	1	1	1	1	5,109.04	1	4,767.68	1	4,415.75	1	4,046.22	1	3,659.72	1	3,270.96	1	2,881.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,100.98	1/4	4,760.52	1/4	4,408.21	1/4	4,038.30	1/4	3,651.61	1/4	3,262.86	1/4	2,873.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,092.93	1/2	4,753.35	1/2	4,400.66	1/2	4,030.39	1/2	3,643.51	1/2	3,254.77	1/2	2,865.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,084.87	3/4	4,746.19	3/4	4,393.12	3/4	4,022.47	3/4	3,635.40	3/4	3,246.67	3/4	2,857.61
2	2	2	2	2	2	2	5,076.82	2	4,739.02	2	4,385.58	2	4,014.56	2	3,627.29	2	3,238.58	2	2,849.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,069.66	1/4	4,731.83	1/4	4,378.00	1/4	4,006.61	1/4	3,619.18	1/4	3,230.47	1/4	2,841.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,062.50	1/2	4,724.64	1/2	4,370.43	1/2	3,998.66	1/2	3,611.08	1/2	3,222.37	1/2	2,833.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,055.34	3/4	4,717.45	3/4	4,362.86	3/4	3,990.71	3/4	3,602.97	3/4	3,214.26	3/4	2,825.19
3	3	3	3	3	3	3	5,048.18	3	4,710.26	3	4,355.29	3	3,982.75	3	3,594.86	3	3,206.16	3	2,817.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,041.30	1/4	4,703.04	1/4	4,347.68	1/4	3,974.77	1/4	3,586.76	1/4	3,198.06	1/4	2,808.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,034.41	1/2	4,695.82	1/2	4,340.08	1/2	3,966.79	1/2	3,578.65	1/2	3,189.95	1/2	2,800.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,027.53	3/4	4,688.60	3/4	4,332.48	3/4	3,958.81	3/4	3,570.54	3/4	3,181.84	3/4	2,792.77
4	4	4	4	4	4	4	5,020.65	4	4,681.38	4	4,324.88	4	3,950.83	4	3,562.44	4	3,173.74	4	2,784.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,013.73	1/4	4,674.13	1/4	4,317.25	1/4	3,942.82	1/4	3,554.33	1/4	3,165.63	1/4	2,776.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,006.82	1/2	4,666.88	1/2	4,309.62	1/2	3,934.81	1/2	3,546.23	1/2	3,157.53	1/2	2,768.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,999.91	3/4	4,659.63	3/4	4,301.99	3/4	3,926.81	3/4	3,538.12	3/4	3,149.42	3/4	2,760.32
5	5	5	5	5	5	5	4,993.00	5	4,652.38	5	4,294.36	5	3,918.80	5	3,530.02	5	3,141.31	5	2,752.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,986.06	1/4	4,645.10	1/4	4,286.71	1/4	3,910.76	1/4	3,521.92	1/4	3,133.21	1/4	2,744.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,979.12	1/2	4,637.83	1/2	4,279.05	1/2	3,902.72	1/2	3,513.82	1/2	3,125.10	1/2	2,735.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,972.18	3/4	4,630.55	3/4	4,271.40	3/4	3,894.68	3/4	3,505.73	3/4	3,117.00	3/4	2,727.86
6	6	6	6	6	6	6	4,965.24	6	4,623.27	6	4,263.75	6	3,886.64	6	3,497.63	6	3,108.89	6	2,719.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,958.27	1/4	4,615.96	1/4	4,256.07	1/4	3,878.58	1/4	3,489.53	1/4	3,100.79	1/4	2,711.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,951.30	1/2	4,608.64	1/2	4,248.39	1/2	3,870.51	1/2	3,481.44	1/2	3,092.68	1/2	2,703.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,944.33	3/4	4,601.33	3/4	4,240.71	3/4	3,862.44	3/4	3,473.34	3/4	3,084.57	3/4	2,695.40
7	7	7	5,290.67	7	4,937.36	7	4,594.02	7	4,233.03	7	3,854.38	7	3,465.25	7	3,076.47	7	2,687.29	7	2,687.29
1/4	1/4	1/4	5,285.12	1/4	4,930.36	1/4	4,586.68	1/4	4,225.32	1/4	3,846.28	1/4	3,457.15	1/4	3,068.36	1/4	2,679.17	1/4	2,679.17
1/2	1/2	1/2	5,279.57	1/2	4,923.36	1/2	4,579.33	1/2	4,217.61	1/2	3,838.19	1/2	3,449.06	1/2	3,060.26	1/2	2,671.06	1/2	2,671.06
3/4	3/4	3/4	5,274.02	3/4	4,916.37	3/4	4,571.99	3/4	4,209.91	3/4	3,830.09	3/4	3,440.96	3/4	3,052.15	3/4	2,662.94	3/4	2,662.94
8	8	8	5,268.47	8	4,909.37	8	4,564.65	8	4,202.20	8	3,822.00	8	3,432.86	8	3,044.04	8	2,654.83	8	2,654.83
1/4	1/4	1/4	5,260.90	1/4	4,902.34	1/4	4,557.28	1/4	4,194.46	1/4	3,813.88	1/4	3,424.77	1/4	3,035.94	1/4	2,646.71	1/4	2,646.71
1/2	1/2	1/2	5,253.32	1/2	4,895.31	1/2	4,549.90	1/2	4,186.72	1/2	3,805.77	1/2	3,416.67	1/2	3,027.83	1/2	2,638.60	1/2	2,638.60
3/4	3/4	3/4	5,245.74	3/4	4,888.29	3/4	4,542.53	3/4	4,178.99	3/4	3,797.65	3/4	3,408.58	3/4	3,019.73	3/4	2,630.48	3/4	2,630.48
9	9	9	5,238.17	9	4,881.26	9	4,535.16	9	4,171.25	9	3,789.54	9	3,400.48	9	3,011.62	9	2,622.37	9	2,622.37
1/4	1/4	1/4	5,230.09	1/4	4,874.20	1/4	4,527.76	1/4	4,163.48	1/4	3,781.42	1/4	3,392.39	1/4	3,003.52	1/4	2,614.25	1/4	2,614.25
1/2	1/2	1/2	5,222.00	1/2	4,867.15	1/2	4,520.36	1/2	4,155.72	1/2	3,773.30	1/2	3,384.29	1/2	2,995.41	1/2	2,606.14	1/2	2,606.14
3/4	3/4	3/4	5,213.92	3/4	4,860.09	3/4	4,512.96	3/4	4,147.95	3/4	3,765.18	3/4	3,376.20	3/4	2,987.30	3/4	2,598.02	3/4	2,598.02
10	10	10	5,205.84	10	4,853.04	10	4,505.56	10	4,140.19	10	3,757.07	10	3,368.10	10	2,979.20	10	2,589.91	10	2,589.91
1/4	1/4	1/4	5,197.75	1/4	4,845.95	1/4	4,498.11	1/4	4,132.39	1/4	3,748.95	1/4	3,360.01	1/4	2,971.09	1/4	2,581.79	1/4	2,581.79
1/2	1/2	1/2	5,189.67	1/2	4,838.87	1/2	4,490.66	1/2	4,124.58	1/2	3,740.83	1/2	3,351.91	1/2	2,962.99	1/2	2,573.68	1/2	2,573.68
3/4	3/4	3/4	5,181.59	3/4	4,831.78	3/4	4,483.21	3/4	4,116.78	3/4	3,732.71	3/4	3,343.82	3/4	2,954.88	3/4	2,565.56	3/4	2,565.56
11	11	11	5,173.51	11	4,824.70	11	4,475.76	11	4,108.98	11	3,724.59	11	3,335.72	11	2,946.78	11	2,557.45	11	2,557.45
1/4	1/4	1/4	5,165.44	1/4	4,817.59	1/4	4,468.27	1/4	4,101.15	1/4	3,716.48	1/4	3,327.62	1/4	2,938.67	1/4	2,549.33	1/4	2,549.33
1/2	1/2	1/2	5,157.38	1/2	4,810.47	1/2	4,460.78	1/2	4,093.32	1/2	3,708.37	1/2	3,319.53	1/2	2,930.56	1/2	2,541.21	1/2	2,541.21
3/4	3/4	3/4	5,149.32	3/4	4,803.36	3/4	4,453.30	3/4	4,085.49	3/4	3,700.26	3/4	3,311.43	3/4	2,922.46	3/4	2,533.10	3/4	2,533.10

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 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 31003B"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-06"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,516.87	1/4	2,127.34	1/4	1,738.67	1/4	1,349.55	1/4	960.18	1/4	581.92	1/4	195.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,508.75	1/2	2,119.22	1/2	1,730.58	1/2	1,341.44	1/2	952.06	1/2	574.10	1/2	187.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,500.64	3/4	2,111.11	3/4	1,722.49	3/4	1,333.32	3/4	943.95	3/4	566.28	3/4	178.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
1	2,492.52	1	2,102.99	1	1,714.40	1	1,325.21	1	935.84	1	558.46	1	170.87	1	1	1	1	1	1	1	
1/4	2,484.41	1/4	2,094.88	1/4	1,706.30	1/4	1,317.10	1/4	927.73	1/4	550.63	1/4	162.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,476.29	1/2	2,086.76	1/2	1,698.21	1/2	1,308.99	1/2	919.62	1/2	542.80	1/2	154.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,468.18	3/4	2,078.65	3/4	1,690.12	3/4	1,300.88	3/4	911.51	3/4	534.97	3/4	146.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
2	2,460.06	2	2,070.53	2	1,682.03	2	1,292.76	2	903.39	2	527.14	2	138.40	2	2	2	2	2	2	2	
1/4	2,451.95	1/4	2,062.42	1/4	1,673.94	1/4	1,284.65	1/4	895.38	1/4	519.21	1/4	130.28	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,443.83	1/2	2,054.30	1/2	1,665.85	1/2	1,276.54	1/2	887.37	1/2	511.28	1/2	122.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,435.72	3/4	2,046.19	3/4	1,657.76	3/4	1,268.43	3/4	879.36	3/4	503.34	3/4	114.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
3	2,427.60	3	2,038.07	3	1,649.67	3	1,260.32	3	871.35	3	495.41	3	105.93	3	3	3	3	3	3	3	
1/4	2,419.49	1/4	2,029.97	1/4	1,641.56	1/4	1,252.20	1/4	863.48	1/4	487.33	1/4	97.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,411.37	1/2	2,021.88	1/2	1,633.45	1/2	1,244.09	1/2	855.61	1/2	479.25	1/2	89.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,403.26	3/4	2,013.78	3/4	1,625.35	3/4	1,235.98	3/4	847.74	3/4	471.17	3/4	81.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
4	2,395.14	4	2,005.68	4	1,617.24	4	1,227.87	4	839.87	4	463.09	4	73.46	4	4	4	4	4	4	4	
1/4	2,387.03	1/4	1,997.59	1/4	1,609.13	1/4	1,219.76	1/4	832.05	1/4	454.98	1/4	66.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,378.91	1/2	1,989.50	1/2	1,601.02	1/2	1,211.65	1/2	824.22	1/2	446.86	1/2	58.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,370.80	3/4	1,981.41	3/4	1,592.90	3/4	1,203.53	3/4	816.39	3/4	438.74	3/4	51.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
5	2,362.68	5	1,973.32	5	1,584.79	5	1,195.42	5	808.56	5	430.62	5	44.03	5	5	5	5	5	5	5	
1/4	2,354.57	1/4	1,965.23	1/4	1,576.68	1/4	1,187.31	1/4	800.74	1/4	422.51	1/4	38.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,346.45	1/2	1,957.13	1/2	1,568.57	1/2	1,179.20	1/2	792.93	1/2	414.39	1/2	32.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,338.33	3/4	1,949.04	3/4	1,560.46	3/4	1,171.09	3/4	785.11	3/4	406.27	3/4	27.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
6	2,330.22	6	1,940.95	6	1,552.35	6	1,162.97	6	777.29	6	398.15	6	21.71	6	6	6	6	6	6	6	
1/4	2,322.10	1/4	1,932.86	1/4	1,544.23	1/4	1,154.86	1/4	769.48	1/4	390.04	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,313.99	1/2	1,924.77	1/2	1,536.12	1/2	1,146.75	1/2	761.66	1/2	381.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,305.87	3/4	1,916.68	3/4	1,528.01	3/4	1,138.64	3/4	753.85	3/4	373.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
7	2,297.76	7	1,908.59	7	1,519.90	7	1,130.53	7	746.03	7	365.69	7		7	7	7	7	7	7	7	
1/4	2,289.64	1/4	1,900.50	1/4	1,511.79	1/4	1,122.41	1/4	738.21	1/4	357.57	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,281.53	1/2	1,892.40	1/2	1,503.67	1/2	1,114.30	1/2	730.40	1/2	349.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,273.41	3/4	1,884.31	3/4	1,495.56	3/4	1,106.19	3/4	722.58	3/4	341.33	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
8	2,265.30	8	1,876.22	8	1,487.45	8	1,098.08	8	714.77	8	333.22	8		8	8	8	8	8	8	8	
1/4	2,257.18	1/4	1,868.13	1/4	1,479.34	1/4	1,089.97	1/4	706.96	1/4	325.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,249.07	1/2	1,860.04	1/2	1,471.23	1/2	1,081.85	1/2	699.14	1/2	316.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,240.95	3/4	1,851.95	3/4	1,463.11	3/4	1,073.74	3/4	691.33	3/4	308.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
9	2,232.84	9	1,843.86	9	1,455.00	9	1,065.63	9	683.51	9	300.75	9		9	9	9	9	9	9	9	
1/4	2,224.72	1/4	1,835.77	1/4	1,446.89	1/4	1,057.52	1/4	675.70	1/4	292.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,216.61	1/2	1,827.67	1/2	1,438.78	1/2	1,049.41	1/2	667.88	1/2	284.51	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,208.49	3/4	1,819.58	3/4	1,430.67	3/4	1,041.30	3/4	660.07	3/4	276.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
10	2,200.38	10	1,811.49	10	1,422.55	10	1,033.18	10	652.26	10	268.28	10		10	10	10	10	10	10	10	
1/4	2,192.26	1/4	1,803.40	1/4	1,414.44	1/4	1,025.07	1/4	644.44	1/4	260.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,184.15	1/2	1,795.31	1/2	1,406.33	1/2	1,016.96	1/2	636.63	1/2	252.04	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,176.03	3/4	1,787.22	3/4	1,398.22	3/4	1,008.85	3/4	628.81	3/4	243.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
11	2,167.92	11	1,779.13	11	1,390.11	11	1,000.74	11	621.00	11	235.81	11		11	11	11	11	11	11	11	
1/4	2,159.80	1/4	1,771.03	1/4	1,382.00	1/4	992.62	1/4	613.18	1/4	227.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	2,151.69	1/2	1,762.94	1/2	1,373.88	1/2	984.51	1/2	605.37	1/2	219.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	2,143.57	3/4	1,754.85	3/4	1,365.77	3/4	976.40	3/4	597.55	3/4	211.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2014 CL
RECALCULATED: 02/24/2020 PMA
NAME CHANGE: 02/24/2020

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "KIRBY 31003B"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-06 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	5,134.89	0	4,787.34	0	4,435.69	0	4,067.47	0	3,683.42	0	3,295.63	0	2,908.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,126.80	1/4	4,780.20	1/4	4,428.20	1/4	4,059.64	1/4	3,675.33	1/4	3,287.56	1/4	2,900.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,118.71	1/2	4,773.02	1/2	4,420.68	1/2	4,051.77	1/2	3,667.24	1/2	3,279.48	1/2	2,891.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,110.62	3/4	4,765.84	3/4	4,413.16	3/4	4,043.91	3/4	3,659.15	3/4	3,271.41	3/4	2,883.89
1		1		1		1	5,102.54	1	4,758.67	1	4,405.64	1	4,036.04	1	3,651.07	1	3,263.34	1	2,875.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,094.45	1/4	4,751.49	1/4	4,398.12	1/4	4,028.17	1/4	3,642.98	1/4	3,255.26	1/4	2,867.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,086.36	1/2	4,744.29	1/2	4,390.57	1/2	4,020.28	1/2	3,634.89	1/2	3,247.19	1/2	2,859.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,078.27	3/4	4,737.09	3/4	4,383.02	3/4	4,012.39	3/4	3,626.80	3/4	3,239.11	3/4	2,851.59
2		2		2		2	5,070.18	2	4,729.88	2	4,375.47	2	4,004.49	2	3,618.71	2	3,231.04	2	2,843.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,062.10	1/4	4,722.68	1/4	4,367.92	1/4	3,996.60	1/4	3,610.63	1/4	3,222.97	1/4	2,835.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,054.90	1/2	4,715.45	1/2	4,360.34	1/2	3,988.68	1/2	3,602.54	1/2	3,214.89	1/2	2,827.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,047.71	3/4	4,708.21	3/4	4,352.77	3/4	3,980.75	3/4	3,594.45	3/4	3,206.82	3/4	2,819.30
3		3		3		3	5,040.52	3	4,700.98	3	4,345.19	3	3,972.83	3	3,586.36	3	3,198.75	3	2,811.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,033.32	1/4	4,693.75	1/4	4,337.61	1/4	3,964.91	1/4	3,578.27	1/4	3,190.67	1/4	2,803.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,026.41	1/2	4,686.49	1/2	4,330.00	1/2	3,956.96	1/2	3,570.19	1/2	3,182.60	1/2	2,795.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,019.49	3/4	4,679.23	3/4	4,322.40	3/4	3,949.00	3/4	3,562.11	3/4	3,174.53	3/4	2,787.00
4		4		4		4	5,012.57	4	4,671.96	4	4,314.79	4	3,941.05	4	3,554.03	4	3,166.45	4	2,778.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,005.66	1/4	4,664.70	1/4	4,307.18	1/4	3,933.10	1/4	3,545.95	1/4	3,158.38	1/4	2,770.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,998.71	1/2	4,657.41	1/2	4,299.55	1/2	3,925.12	1/2	3,537.88	1/2	3,150.31	1/2	2,762.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.77	3/4	4,650.12	3/4	4,291.91	3/4	3,917.14	3/4	3,529.80	3/4	3,142.23	3/4	2,754.71
5		5		5		5	4,984.82	5	4,642.83	5	4,284.28	5	3,909.16	5	3,521.73	5	3,134.16	5	2,746.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,977.88	1/4	4,635.54	1/4	4,276.64	1/4	3,901.18	1/4	3,513.65	1/4	3,126.09	1/4	2,738.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,970.90	1/2	4,628.22	1/2	4,268.98	1/2	3,893.17	1/2	3,505.57	1/2	3,118.01	1/2	2,730.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,963.93	3/4	4,620.90	3/4	4,261.32	3/4	3,885.16	3/4	3,497.50	3/4	3,109.94	3/4	2,722.44
6		6		6		6	4,956.96	6	4,613.59	6	4,253.65	6	3,877.15	6	3,489.42	6	3,101.87	6	2,714.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,949.98	1/4	4,606.27	1/4	4,245.99	1/4	3,869.14	1/4	3,481.34	1/4	3,093.79	1/4	2,706.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,942.98	1/2	4,598.92	1/2	4,238.29	1/2	3,861.11	1/2	3,473.27	1/2	3,085.72	1/2	2,698.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,935.98	3/4	4,591.57	3/4	4,230.60	3/4	3,853.07	3/4	3,465.19	3/4	3,077.65	3/4	2,690.19
7		7		7		7	4,928.97	7	4,584.22	7	4,222.91	7	3,845.03	7	3,457.11	7	3,069.57	7	2,682.13
1/4	1/4	1/4	5,276.43	1/4	4,921.97	1/4	4,576.88	1/4	4,215.22	1/4	3,836.99	1/4	3,449.04	1/4	3,061.50	1/4	2,674.07		
1/2	1/2	1/2	5,270.87	1/2	4,914.94	1/2	4,569.50	1/2	4,207.49	1/2	3,828.93	1/2	3,440.96	1/2	3,053.43	1/2	2,666.01		
3/4	3/4	3/4	5,265.31	3/4	4,907.91	3/4	4,562.12	3/4	4,199.77	3/4	3,820.86	3/4	3,432.88	3/4	3,045.35	3/4	2,657.95		
8		8	5,259.75	8	4,900.88	8	4,554.75	8	4,192.05	8	3,812.79	8	3,424.81	8	3,037.28	8	2,649.89		
1/4	1/4	1/4	5,254.19	1/4	4,893.85	1/4	4,547.37	1/4	4,184.33	1/4	3,804.73	1/4	3,416.73	1/4	3,029.21	1/4	2,641.83		
1/2	1/2	1/2	5,246.61	1/2	4,886.79	1/2	4,539.97	1/2	4,176.58	1/2	3,796.64	1/2	3,408.66	1/2	3,021.13	1/2	2,633.77		
3/4	3/4	3/4	5,239.02	3/4	4,879.73	3/4	4,532.56	3/4	4,168.83	3/4	3,788.56	3/4	3,400.58	3/4	3,013.06	3/4	2,625.71		
9		9	5,231.44	9	4,872.67	9	4,525.15	9	4,161.08	9	3,780.47	9	3,392.51	9	3,004.99	9	2,617.65		
1/4	1/4	1/4	5,223.86	1/4	4,865.61	1/4	4,517.75	1/4	4,153.33	1/4	3,772.39	1/4	3,384.44	1/4	2,996.91	1/4	2,609.59		
1/2	1/2	1/2	5,215.77	1/2	4,858.52	1/2	4,510.32	1/2	4,145.55	1/2	3,764.30	1/2	3,376.36	1/2	2,988.84	1/2	2,601.53		
3/4	3/4	3/4	5,207.68	3/4	4,851.43	3/4	4,502.88	3/4	4,137.77	3/4	3,756.21	3/4	3,368.29	3/4	2,980.77	3/4	2,593.47		
10		10	5,199.59	10	4,844.34	10	4,495.45	10	4,129.99	10	3,748.12	10	3,360.22	10	2,972.69	10	2,585.41		
1/4	1/4	1/4	5,191.51	1/4	4,837.25	1/4	4,488.01	1/4	4,122.21	1/4	3,740.04	1/4	3,352.14	1/4	2,964.62	1/4	2,577.35		
1/2	1/2	1/2	5,183.42	1/2	4,830.13	1/2	4,480.55	1/2	4,114.41	1/2	3,731.95	1/2	3,344.07	1/2	2,956.55	1/2	2,569.29		
3/4	3/4	3/4	5,175.33	3/4	4,823.02	3/4	4,473.09	3/4	4,106.60	3/4	3,723.86	3/4	3,336.00	3/4	2,948.47	3/4	2,561.23		
11		11	5,167.24	11	4,815.90	11	4,465.63	11	4,098.79	11	3,715.77	11	3,327.92	11	2,940.40	11	2,553.17		
1/4	1/4	1/4	5,159.15	1/4	4,808.78	1/4	4,458.16	1/4	4,090.98	1/4	3,707.68	1/4	3,319.85	1/4	2,932.33	1/4	2,545.11		
1/2	1/2	1/2	5,151.07	1/2	4,801.63	1/2	4,450.67	1/2	4,083.15	1/2	3,699.60	1/2	3,311.78	1/2	2,924.25	1/2	2,537.05		
3/4	3/4	3/4	5,142.98	3/4	4,794.49	3/4	4,443.18	3/4	4,075.31	3/4	3,691.51	3/4	3,303.70	3/4	2,916.18	3/4	2,529.00		

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 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 31003B"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 16'-06 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	2,520.94	0	2,133.37	0	1,746.96	0	1,360.78	0	973.11	0	595.02	0	210.45	0		0		0	
1/4	2,512.88	1/4	2,125.29	1/4	1,738.94	1/4	1,352.70	1/4	965.03	1/4	587.21	1/4	202.38	1/4	1/4	1/4		1/4	1/4
1/2	2,504.82	1/2	2,117.22	1/2	1,730.92	1/2	1,344.62	1/2	956.96	1/2	579.40	1/2	194.30	1/2	1/2	1/2		1/2	1/2
3/4	2,496.76	3/4	2,109.14	3/4	1,722.90	3/4	1,336.55	3/4	948.88	3/4	571.58	3/4	186.22	3/4	3/4	3/4		3/4	3/4
1	2,488.70	1	2,101.06	1	1,714.88	1	1,328.47	1	940.80	1	563.77	1	178.15	1	1	1		1	1
1/4	2,480.64	1/4	2,092.99	1/4	1,706.86	1/4	1,320.39	1/4	932.73	1/4	555.96	1/4	170.07	1/4	1/4	1/4		1/4	1/4
1/2	2,472.56	1/2	2,084.91	1/2	1,698.84	1/2	1,312.32	1/2	924.65	1/2	548.13	1/2	162.00	1/2	1/2	1/2		1/2	1/2
3/4	2,464.49	3/4	2,076.83	3/4	1,690.82	3/4	1,304.24	3/4	916.57	3/4	540.31	3/4	153.92	3/4	3/4	3/4		3/4	3/4
2	2,456.42	2	2,068.76	2	1,682.80	2	1,296.16	2	908.50	2	532.49	2	145.84	2	2	2		2	2
1/4	2,448.35	1/4	2,060.68	1/4	1,674.78	1/4	1,288.09	1/4	900.42	1/4	524.67	1/4	137.77	1/4	1/4	1/4		1/4	1/4
1/2	2,440.27	1/2	2,052.61	1/2	1,666.76	1/2	1,280.01	1/2	892.44	1/2	516.75	1/2	129.69	1/2	1/2	1/2		1/2	1/2
3/4	2,432.20	3/4	2,044.53	3/4	1,658.74	3/4	1,271.93	3/4	884.46	3/4	508.83	3/4	121.62	3/4	3/4	3/4		3/4	3/4
3	2,424.12	3	2,036.45	3	1,650.72	3	1,263.86	3	876.47	3	500.91	3	113.54	3	3	3		3	3
1/4	2,416.04	1/4	2,028.38	1/4	1,642.71	1/4	1,255.78	1/4	868.49	1/4	492.99	1/4	105.46	1/4	1/4	1/4		1/4	1/4
1/2	2,407.97	1/2	2,020.30	1/2	1,634.69	1/2	1,247.71	1/2	860.64	1/2	484.95	1/2	97.39	1/2	1/2	1/2		1/2	1/2
3/4	2,399.89	3/4	2,012.22	3/4	1,626.67	3/4	1,239.63	3/4	852.79	3/4	476.90	3/4	89.31	3/4	3/4	3/4		3/4	3/4
4	2,391.81	4	2,004.15	4	1,618.65	4	1,231.55	4	844.94	4	468.86	4	81.23	4	4	4		4	4
1/4	2,383.74	1/4	1,996.07	1/4	1,610.63	1/4	1,223.48	1/4	837.09	1/4	460.81	1/4	73.16	1/4	1/4	1/4		1/4	1/4
1/2	2,375.66	1/2	1,987.99	1/2	1,602.61	1/2	1,215.40	1/2	829.28	1/2	452.74	1/2	65.84	1/2	1/2	1/2		1/2	1/2
3/4	2,367.58	3/4	1,979.92	3/4	1,594.59	3/4	1,207.32	3/4	821.47	3/4	444.66	3/4	58.52	3/4	3/4	3/4		3/4	3/4
5	2,359.51	5	1,971.84	5	1,586.57	5	1,199.25	5	813.66	5	436.58	5	51.20	5	5	5		5	5
1/4	2,351.43	1/4	1,963.76	1/4	1,578.55	1/4	1,191.17	1/4	805.85	1/4	428.51	1/4	43.88	1/4	1/4	1/4		1/4	1/4
1/2	2,343.36	1/2	1,955.69	1/2	1,570.53	1/2	1,183.09	1/2	798.04	1/2	420.43	1/2	38.32	1/2	1/2	1/2		1/2	1/2
3/4	2,335.28	3/4	1,947.61	3/4	1,562.51	3/4	1,175.02	3/4	790.23	3/4	412.35	3/4	32.77	3/4	3/4	3/4		3/4	3/4
6	2,327.20	6	1,939.54	6	1,554.49	6	1,166.94	6	782.43	6	404.28	6	27.21	6	6	6		6	6
1/4	2,319.13	1/4	1,931.46	1/4	1,546.47	1/4	1,158.87	1/4	774.62	1/4	396.20	1/4	21.65	1/4	1/4	1/4		1/4	1/4
1/2	2,311.05	1/2	1,923.43	1/2	1,538.41	1/2	1,150.79	1/2	766.81	1/2	388.13	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,302.97	3/4	1,915.39	3/4	1,530.35	3/4	1,142.71	3/4	759.00	3/4	380.05	3/4		3/4	3/4	3/4		3/4	3/4
7	2,294.90	7	1,907.36	7	1,522.29	7	1,134.64	7	751.19	7	371.97	7		7	7	7		7	7
1/4	2,286.82	1/4	1,899.32	1/4	1,514.23	1/4	1,126.56	1/4	743.38	1/4	363.90	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,278.74	1/2	1,891.30	1/2	1,506.15	1/2	1,118.48	1/2	735.57	1/2	355.82	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,270.67	3/4	1,883.28	3/4	1,498.07	3/4	1,110.41	3/4	727.76	3/4	347.75	3/4		3/4	3/4	3/4		3/4	3/4
8	2,262.59	8	1,875.26	8	1,490.00	8	1,102.33	8	719.95	8	339.67	8		8	8	8		8	8
1/4	2,254.52	1/4	1,867.25	1/4	1,481.92	1/4	1,094.25	1/4	712.15	1/4	331.59	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,246.44	1/2	1,859.23	1/2	1,473.84	1/2	1,086.18	1/2	704.34	1/2	323.52	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,238.36	3/4	1,851.21	3/4	1,465.77	3/4	1,078.10	3/4	696.53	3/4	315.44	3/4		3/4	3/4	3/4		3/4	3/4
9	2,230.29	9	1,843.19	9	1,457.69	9	1,070.02	9	688.72	9	307.37	9		9	9	9		9	9
1/4	2,222.21	1/4	1,835.17	1/4	1,449.62	1/4	1,061.95	1/4	680.91	1/4	299.29	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,214.13	1/2	1,827.15	1/2	1,441.54	1/2	1,053.87	1/2	673.10	1/2	291.21	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,206.06	3/4	1,819.13	3/4	1,433.46	3/4	1,045.80	3/4	665.30	3/4	283.14	3/4		3/4	3/4	3/4		3/4	3/4
10	2,197.98	10	1,811.11	10	1,425.39	10	1,037.72	10	657.49	10	275.06	10		10	10	10		10	10
1/4	2,189.90	1/4	1,803.09	1/4	1,417.31	1/4	1,029.64	1/4	649.68	1/4	266.99	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,181.83	1/2	1,795.07	1/2	1,409.23	1/2	1,021.57	1/2	641.87	1/2	258.91	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,173.75	3/4	1,787.05	3/4	1,401.16	3/4	1,013.49	3/4	634.06	3/4	250.83	3/4		3/4	3/4	3/4		3/4	3/4
11	2,165.67	11	1,779.03	11	1,393.08	11	1,005.41	11	626.26	11	242.76	11		11	11	11		11	11
1/4	2,157.60	1/4	1,771.01	1/4	1,385.00	1/4	997.34	1/4	618.45	1/4	234.68	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,149.52	1/2	1,762.99	1/2	1,376.93	1/2	989.26	1/2	610.64	1/2	226.60	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,141.45	3/4	1,754.98	3/4	1,368.85	3/4	981.18	3/4	602.83	3/4	218.53	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2014 CL
RECALCULATED: 02/24/2020 PMA
NAME CHANGE: 02/24/2020

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "KIRBY 31003B"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 4'-11 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	22	1/4	1,083	1/4	2,116	1/4	3,100	1/4	4,035	1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,105	1/2	2,137	1/2	3,120	1/2	4,054	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,127	3/4	2,158	3/4	3,140	3/4	4,073	3/4		3/4		3/4		3/4		3/4	
1	88	1	1,149	1	2,179	1	3,160	1	4,092	1		1		1		1		1	
1/4	111	1/4	1,171	1/4	2,200	1/4	3,180	1/4	4,111	1/4		1/4		1/4		1/4		1/4	
1/2	133	1/2	1,193	1/2	2,221	1/2	3,200	1/2	4,129	1/2		1/2		1/2		1/2		1/2	
3/4	155	3/4	1,215	3/4	2,242	3/4	3,220	3/4	4,148	3/4		3/4		3/4		3/4		3/4	
2	177	2	1,237	2	2,263	2	3,240	2	4,167	2		2		2		2		2	
1/4	199	1/4	1,259	1/4	2,284	1/4	3,260	1/4	4,186	1/4		1/4		1/4		1/4		1/4	
1/2	221	1/2	1,281	1/2	2,305	1/2	3,279	1/2	4,205	1/2		1/2		1/2		1/2		1/2	
3/4	243	3/4	1,302	3/4	2,325	3/4	3,299	3/4	4,223	3/4		3/4		3/4		3/4		3/4	
3	265	3	1,324	3	2,346	3	3,319	3	4,242	3		3		3		3		3	
1/4	287	1/4	1,346	1/4	2,367	1/4	3,339	1/4	4,261	1/4		1/4		1/4		1/4		1/4	
1/2	309	1/2	1,368	1/2	2,388	1/2	3,358	1/2	4,279	1/2		1/2		1/2		1/2		1/2	
3/4	332	3/4	1,390	3/4	2,408	3/4	3,378	3/4	4,298	3/4		3/4		3/4		3/4		3/4	
4	354	4	1,411	4	2,429	4	3,398	4	4,317	4		4		4		4		4	
1/4	376	1/4	1,433	1/4	2,450	1/4	3,417	1/4	4,335	1/4		1/4		1/4		1/4		1/4	
1/2	398	1/2	1,455	1/2	2,471	1/2	3,437	1/2	4,354	1/2		1/2		1/2		1/2		1/2	
3/4	420	3/4	1,476	3/4	2,491	3/4	3,457	3/4	4,373	3/4		3/4		3/4		3/4		3/4	
5	442	5	1,498	5	2,512	5	3,476	5	4,391	5		5		5		5		5	
1/4	464	1/4	1,520	1/4	2,532	1/4	3,496	1/4	4,410	1/4		1/4		1/4		1/4		1/4	
1/2	486	1/2	1,541	1/2	2,553	1/2	3,515	1/2	4,428	1/2		1/2		1/2		1/2		1/2	
3/4	508	3/4	1,563	3/4	2,574	3/4	3,535	3/4		3/4		3/4		3/4		3/4		3/4	
6	531	6	1,584	6	2,594	6	3,554	6		6		6		6		6		6	
1/4	553	1/4	1,606	1/4	2,615	1/4	3,574	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	575	1/2	1,627	1/2	2,635	1/2	3,593	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	597	3/4	1,649	3/4	2,655	3/4	3,613	3/4		3/4		3/4		3/4		3/4		3/4	
7	619	7	1,670	7	2,676	7	3,632	7		7		7		7		7		7	
1/4	641	1/4	1,692	1/4	2,696	1/4	3,651	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	663	1/2	1,713	1/2	2,717	1/2	3,671	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	685	3/4	1,735	3/4	2,737	3/4	3,690	3/4		3/4		3/4		3/4		3/4		3/4	
8	707	8	1,756	8	2,758	8	3,710	8		8		8		8		8		8	
1/4	730	1/4	1,777	1/4	2,778	1/4	3,729	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	752	1/2	1,799	1/2	2,798	1/2	3,748	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	774	3/4	1,820	3/4	2,818	3/4	3,767	3/4		3/4		3/4		3/4		3/4		3/4	
9	796	9	1,841	9	2,839	9	3,787	9		9		9		9		9		9	
1/4	818	1/4	1,863	1/4	2,859	1/4	3,806	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	840	1/2	1,884	1/2	2,879	1/2	3,825	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	862	3/4	1,905	3/4	2,899	3/4	3,844	3/4		3/4		3/4		3/4		3/4		3/4	
10	884	10	1,926	10	2,920	10	3,863	10		10		10		10		10		10	
1/4	906	1/4	1,948	1/4	2,940	1/4	3,883	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	928	1/2	1,969	1/2	2,960	1/2	3,902	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	951	3/4	1,990	3/4	2,980	3/4	3,921	3/4		3/4		3/4		3/4		3/4		3/4	
11	973	11	2,011	11	3,000	11	3,940	11		11		11		11		11		11	
1/4	995	1/4	2,032	1/4	3,020	1/4	3,959	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,017	1/2	2,053	1/2	3,040	1/2	3,978	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,039	3/4	2,074	3/4	3,060	3/4	3,997	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.
GAUGE POINT: TOP LIP OPPOSITE HINGE ON MANWAY

STRAPPED: 11/11/2014 CL
RECALCULATED: 02/24/2020 PMA
NAME CHANGE: 02/24/2020

CANCELS AND SUPERCEDES
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PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 31003B"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 4'-11 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	IN	0
1/4	22	1/4	1,083	1/4	2,116	1/4	3,100	1/4	4,035	1/4		1/4		1/4		1/4		1/4			
1/2	44	1/2	1,105	1/2	2,137	1/2	3,120	1/2	4,054	1/2		1/2		1/2		1/2		1/2			
3/4	66	3/4	1,127	3/4	2,158	3/4	3,140	3/4	4,073	3/4		3/4		3/4		3/4		3/4			
1	88	1	1,149	1	2,179	1	3,160	1	4,092	1		1		1		1		1			
1/4	111	1/4	1,171	1/4	2,200	1/4	3,180	1/4	4,111	1/4		1/4		1/4		1/4		1/4			
1/2	133	1/2	1,193	1/2	2,221	1/2	3,200	1/2	4,129	1/2		1/2		1/2		1/2		1/2			
3/4	155	3/4	1,215	3/4	2,242	3/4	3,220	3/4	4,148	3/4		3/4		3/4		3/4		3/4			
2	177	2	1,237	2	2,263	2	3,240	2	4,167	2		2		2		2		2			
1/4	199	1/4	1,259	1/4	2,284	1/4	3,260	1/4	4,186	1/4		1/4		1/4		1/4		1/4			
1/2	221	1/2	1,281	1/2	2,305	1/2	3,279	1/2	4,205	1/2		1/2		1/2		1/2		1/2			
3/4	243	3/4	1,302	3/4	2,325	3/4	3,299	3/4	4,223	3/4		3/4		3/4		3/4		3/4			
3	265	3	1,324	3	2,346	3	3,319	3	4,242	3		3		3		3		3			
1/4	287	1/4	1,346	1/4	2,367	1/4	3,339	1/4	4,261	1/4		1/4		1/4		1/4		1/4			
1/2	309	1/2	1,368	1/2	2,388	1/2	3,358	1/2	4,279	1/2		1/2		1/2		1/2		1/2			
3/4	332	3/4	1,390	3/4	2,408	3/4	3,378	3/4	4,298	3/4		3/4		3/4		3/4		3/4			
4	354	4	1,411	4	2,429	4	3,398	4	4,317	4		4		4		4		4			
1/4	376	1/4	1,433	1/4	2,450	1/4	3,417	1/4	4,335	1/4		1/4		1/4		1/4		1/4			
1/2	398	1/2	1,455	1/2	2,471	1/2	3,437	1/2	4,354	1/2		1/2		1/2		1/2		1/2			
3/4	420	3/4	1,476	3/4	2,491	3/4	3,457	3/4	4,373	3/4		3/4		3/4		3/4		3/4			
5	442	5	1,498	5	2,512	5	3,476	5	4,391	5		5		5		5		5			
1/4	464	1/4	1,520	1/4	2,532	1/4	3,496	1/4	4,410	1/4		1/4		1/4		1/4		1/4			
1/2	486	1/2	1,541	1/2	2,553	1/2	3,515	1/2	4,428	1/2		1/2		1/2		1/2		1/2			
3/4	508	3/4	1,563	3/4	2,574	3/4	3,535	3/4		3/4		3/4		3/4		3/4		3/4			
6	531	6	1,584	6	2,594	6	3,554	6		6		6		6		6		6			
1/4	553	1/4	1,606	1/4	2,615	1/4	3,574	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	575	1/2	1,627	1/2	2,635	1/2	3,593	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	597	3/4	1,649	3/4	2,655	3/4	3,613	3/4		3/4		3/4		3/4		3/4		3/4			
7	619	7	1,670	7	2,676	7	3,632	7		7		7		7		7		7			
1/4	641	1/4	1,692	1/4	2,696	1/4	3,651	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	663	1/2	1,713	1/2	2,717	1/2	3,671	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	685	3/4	1,735	3/4	2,737	3/4	3,690	3/4		3/4		3/4		3/4		3/4		3/4			
8	707	8	1,756	8	2,758	8	3,710	8		8		8		8		8		8			
1/4	730	1/4	1,777	1/4	2,778	1/4	3,729	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	752	1/2	1,799	1/2	2,798	1/2	3,748	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	774	3/4	1,820	3/4	2,818	3/4	3,767	3/4		3/4		3/4		3/4		3/4		3/4			
9	796	9	1,841	9	2,839	9	3,787	9		9		9		9		9		9			
1/4	818	1/4	1,863	1/4	2,859	1/4	3,806	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	840	1/2	1,884	1/2	2,879	1/2	3,825	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	862	3/4	1,905	3/4	2,899	3/4	3,844	3/4		3/4		3/4		3/4		3/4		3/4			
10	884	10	1,926	10	2,920	10	3,863	10		10		10		10		10		10			
1/4	906	1/4	1,948	1/4	2,940	1/4	3,883	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	928	1/2	1,969	1/2	2,960	1/2	3,902	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	951	3/4	1,990	3/4	2,980	3/4	3,921	3/4		3/4		3/4		3/4		3/4		3/4			
11	973	11	2,011	11	3,000	11	3,940	11		11		11		11		11		11			
1/4	995	1/4	2,032	1/4	3,020	1/4	3,959	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	1,017	1/2	2,053	1/2	3,040	1/2	3,978	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	1,039	3/4	2,074	3/4	3,060	3/4	3,997	3/4		3/4		3/4		3/4		3/4		3/4			

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BARGE "KIRBY 31003B"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 354B"

GAUGE HEIGHT 4'-11 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	192	0	384	0	576	0	768	0		0		0		0		0	
1/4	4	1/4	196	1/4	388	1/4	580	1/4	772	1/4		1/4		1/4		1/4		1/4	
1/2	8	1/2	200	1/2	392	1/2	584	1/2	776	1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	204	3/4	396	3/4	588	3/4	780	3/4		3/4		3/4		3/4		3/4	
1	16	1	208	1	400	1	592	1	784	1		1		1		1		1	
1/4	20	1/4	212	1/4	404	1/4	596	1/4	788	1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	216	1/2	408	1/2	600	1/2	792	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	220	3/4	412	3/4	604	3/4	796	3/4		3/4		3/4		3/4		3/4	
2	32	2	224	2	416	2	608	2	800	2		2		2		2		2	
1/4	36	1/4	228	1/4	420	1/4	612	1/4	804	1/4		1/4		1/4		1/4		1/4	
1/2	40	1/2	232	1/2	424	1/2	616	1/2	808	1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	236	3/4	428	3/4	620	3/4	812	3/4		3/4		3/4		3/4		3/4	
3	48	3	240	3	432	3	624	3	816	3		3		3		3		3	
1/4	52	1/4	244	1/4	436	1/4	628	1/4	820	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	248	1/2	440	1/2	632	1/2	824	1/2		1/2		1/2		1/2		1/2	
3/4	60	3/4	252	3/4	444	3/4	636	3/4	828	3/4		3/4		3/4		3/4		3/4	
4	64	4	256	4	448	4	640	4	832	4		4		4		4		4	
1/4	68	1/4	260	1/4	452	1/4	644	1/4	836	1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	264	1/2	456	1/2	648	1/2	840	1/2		1/2		1/2		1/2		1/2	
3/4	76	3/4	268	3/4	460	3/4	652	3/4	844	3/4		3/4		3/4		3/4		3/4	
5	80	5	272	5	464	5	656	5	848	5		5		5		5		5	
1/4	84	1/4	276	1/4	468	1/4	660	1/4	852	1/4		1/4		1/4		1/4		1/4	
1/2	88	1/2	280	1/2	472	1/2	664	1/2	856	1/2		1/2		1/2		1/2		1/2	
3/4	92	3/4	284	3/4	476	3/4	668	3/4	860	3/4		3/4		3/4		3/4		3/4	
6	96	6	288	6	480	6	672	6		6		6		6		6		6	
1/4	100	1/4	292	1/4	484	1/4	676	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	104	1/2	296	1/2	488	1/2	680	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	108	3/4	300	3/4	492	3/4	684	3/4		3/4		3/4		3/4		3/4		3/4	
7	112	7	304	7	496	7	688	7		7		7		7		7		7	
1/4	116	1/4	308	1/4	500	1/4	692	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120	1/2	312	1/2	504	1/2	696	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	124	3/4	316	3/4	508	3/4	700	3/4		3/4		3/4		3/4		3/4		3/4	
8	128	8	320	8	512	8	704	8		8		8		8		8		8	
1/4	132	1/4	324	1/4	516	1/4	708	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	136	1/2	328	1/2	520	1/2	712	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	332	3/4	524	3/4	716	3/4		3/4		3/4		3/4		3/4		3/4	
9	144	9	336	9	528	9	720	9		9		9		9		9		9	
1/4	148	1/4	340	1/4	532	1/4	724	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152	1/2	344	1/2	536	1/2	728	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156	3/4	348	3/4	540	3/4	732	3/4		3/4		3/4		3/4		3/4		3/4	
10	160	10	352	10	544	10	736	10		10		10		10		10		10	
1/4	164	1/4	356	1/4	548	1/4	740	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	360	1/2	552	1/2	744	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	364	3/4	556	3/4	748	3/4		3/4		3/4		3/4		3/4		3/4	
11	176	11	368	11	560	11	752	11		11		11		11		11		11	
1/4	180	1/4	372	1/4	564	1/4	756	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	184	1/2	376	1/2	568	1/2	760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	188	3/4	380	3/4	572	3/4	764	3/4		3/4		3/4		3/4		3/4		3/4	

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