



BARGE "KIRBY 28045"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-00"

May 10, 2006

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



BARGE "KIRBY 28045"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	4,219.66	0	3,931.66	0	3,629.53	0	3,313.41	0	2,984.78	0	2,653.61	0	2,322.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,213.78	1/4	3,925.53	1/4	3,623.08	1/4	3,306.69	1/4	2,977.88	1/4	2,646.71	1/4	2,315.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,207.89	1/2	3,919.40	1/2	3,616.64	1/2	3,299.96	1/2	2,970.98	1/2	2,639.81	1/2	2,308.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,201.98	3/4	3,913.25	3/4	3,610.17	3/4	3,293.21	3/4	2,964.08	3/4	2,632.91	3/4	2,301.72
1		1		1		1	4,196.08	1	3,907.10	1	3,603.70	1	3,286.46	1	2,957.18	1	2,626.02	1	2,294.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,190.17	1/4	3,900.95	1/4	3,597.23	1/4	3,279.71	1/4	2,950.28	1/4	2,619.12	1/4	2,287.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,184.26	1/2	3,894.80	1/2	3,590.76	1/2	3,272.96	1/2	2,943.38	1/2	2,612.22	1/2	2,281.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,178.33	3/4	3,888.62	3/4	3,584.27	3/4	3,266.18	3/4	2,936.48	3/4	2,605.32	3/4	2,274.12
2		2		2		2	4,172.41	2	3,882.44	2	3,577.78	2	3,259.41	2	2,929.58	2	2,598.42	2	2,267.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,166.48	1/4	3,876.26	1/4	3,571.29	1/4	3,252.63	1/4	2,922.69	1/4	2,591.52	1/4	2,260.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,160.55	1/2	3,870.09	1/2	3,564.80	1/2	3,245.85	1/2	2,915.79	1/2	2,584.62	1/2	2,253.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,154.59	3/4	3,863.89	3/4	3,558.28	3/4	3,239.05	3/4	2,908.89	3/4	2,577.72	3/4	2,246.51
3		3		3		3	4,148.64	3	3,857.69	3	3,551.77	3	3,232.25	3	2,901.99	3	2,570.82	3	2,239.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,142.68	1/4	3,851.49	1/4	3,545.26	1/4	3,225.46	1/4	2,895.09	1/4	2,563.92	1/4	2,232.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,136.73	1/2	3,845.29	1/2	3,538.75	1/2	3,218.66	1/2	2,888.19	1/2	2,557.02	1/2	2,225.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,130.78	3/4	3,839.03	3/4	3,532.21	3/4	3,211.84	3/4	2,881.29	3/4	2,550.12	3/4	2,218.91
4		4		4		4	4,124.84	4	3,832.78	4	3,525.67	4	3,205.02	4	2,874.39	4	2,543.22	4	2,212.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,118.90	1/4	3,826.52	1/4	3,519.13	1/4	3,198.20	1/4	2,867.49	1/4	2,536.32	1/4	2,205.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,112.96	1/2	3,820.27	1/2	3,512.59	1/2	3,191.38	1/2	2,860.59	1/2	2,529.43	1/2	2,198.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,106.99	3/4	3,813.99	3/4	3,506.03	3/4	3,184.54	3/4	2,853.69	3/4	2,522.53	3/4	2,191.31
5		5		5		5	4,101.03	5	3,807.71	5	3,499.47	5	3,177.69	5	2,846.79	5	2,515.63	5	2,184.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,095.06	1/4	3,801.42	1/4	3,492.91	1/4	3,170.84	1/4	2,839.89	1/4	2,508.73	1/4	2,177.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,089.10	1/2	3,795.14	1/2	3,486.34	1/2	3,163.99	1/2	2,832.99	1/2	2,501.83	1/2	2,170.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,083.11	3/4	3,788.84	3/4	3,479.75	3/4	3,157.13	3/4	2,826.10	3/4	2,494.93	3/4	2,163.70
6		6		6		6	4,077.12	6	3,782.54	6	3,473.16	6	3,150.26	6	2,819.20	6	2,488.03	6	2,156.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,071.13	1/4	3,776.23	1/4	3,466.57	1/4	3,143.39	1/4	2,812.30	1/4	2,481.13	1/4	2,149.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,065.13	1/2	3,769.93	1/2	3,459.98	1/2	3,136.53	1/2	2,805.40	1/2	2,474.23	1/2	2,143.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,357.38	3/4	4,059.12	3/4	3,763.60	3/4	3,453.37	3/4	3,129.64	3/4	2,798.50	3/4	2,467.33
7		7		7		7	4,352.20	7	4,053.11	7	3,757.26	7	3,446.77	7	3,122.75	7	2,791.60	7	2,460.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,347.02	1/4	4,047.10	1/4	3,750.93	1/4	3,440.16	1/4	3,115.86	1/4	2,784.70	1/4	2,453.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,341.85	1/2	4,041.08	1/2	3,744.60	1/2	3,433.55	1/2	3,108.97	1/2	2,777.80	1/2	2,446.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,334.95	3/4	4,035.04	3/4	3,738.25	3/4	3,426.92	3/4	3,102.07	3/4	2,770.90	3/4	2,439.73
8		8		8		8	4,328.05	8	4,029.00	8	3,731.90	8	3,420.29	8	3,095.17	8	2,764.00	8	2,432.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,321.15	1/4	4,022.96	1/4	3,725.55	1/4	3,413.66	1/4	3,088.27	1/4	2,757.10	1/4	2,425.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,314.24	1/2	4,016.92	1/2	3,719.19	1/2	3,407.02	1/2	3,081.37	1/2	2,750.20	1/2	2,419.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,307.34	3/4	4,010.86	3/4	3,712.82	3/4	3,400.37	3/4	3,074.47	3/4	2,743.30	3/4	2,412.13
9		9		9		9	4,300.44	9	4,004.80	9	3,706.45	9	3,393.71	9	3,067.57	9	2,736.40	9	2,405.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,293.54	1/4	3,998.74	1/4	3,700.08	1/4	3,387.05	1/4	3,060.67	1/4	2,729.51	1/4	2,398.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,286.64	1/2	3,992.68	1/2	3,693.70	1/2	3,380.39	1/2	3,053.77	1/2	2,722.61	1/2	2,391.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,279.74	3/4	3,986.60	3/4	3,687.30	3/4	3,373.71	3/4	3,046.87	3/4	2,715.71	3/4	2,384.53
10		10		10		10	4,272.84	10	3,980.52	10	3,680.90	10	3,367.03	10	3,039.97	10	2,708.81	10	2,377.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,265.94	1/4	3,974.44	1/4	3,674.50	1/4	3,360.35	1/4	3,033.07	1/4	2,701.91	1/4	2,370.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,259.04	1/2	3,968.36	1/2	3,668.10	1/2	3,353.67	1/2	3,026.17	1/2	2,695.01	1/2	2,363.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,252.14	3/4	3,962.25	3/4	3,661.68	3/4	3,346.97	3/4	3,019.28	3/4	2,688.11	3/4	2,356.92
11		11		11		11	4,245.24	11	3,956.14	11	3,655.26	11	3,340.27	11	3,012.38	11	2,681.21	11	2,350.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,238.34	1/4	3,950.03	1/4	3,648.83	1/4	3,333.57	1/4	3,005.48	1/4	2,674.31	1/4	2,343.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,231.44	1/2	3,943.92	1/2	3,642.41	1/2	3,326.87	1/2	2,998.58	1/2	2,667.41	1/2	2,336.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,225.55	3/4	3,937.79	3/4	3,635.97	3/4	3,320.14	3/4	2,991.68	3/4	2,660.51	3/4	2,329.32

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'-10" OFF CENTERLINE AND 37'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "KIRBY 28045"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

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	1,991.19	0	1,659.95	0	1,328.72	0	997.72	0	680.70	0	386.73	0	116.33	0		0			
1/4	1,984.29	1/4	1,653.05	1/4	1,321.82	1/4	990.87	1/4	674.33	1/4	380.85	1/4	110.95	1/4		1/4			
1/2	1,977.39	1/2	1,646.15	1/2	1,314.92	1/2	984.02	1/2	667.96	1/2	374.97	1/2	105.56	1/2		1/2			
3/4	1,970.49	3/4	1,639.25	3/4	1,308.02	3/4	977.20	3/4	661.63	3/4	369.13	3/4	100.22	3/4		3/4			
1	1,963.58	1	1,632.35	1	1,301.12	1	970.38	1	655.30	1	363.30	1	94.87	1		1			
1/4	1,956.68	1/4	1,625.45	1/4	1,294.22	1/4	963.56	1/4	648.97	1/4	357.46	1/4	89.52	1/4		1/4			
1/2	1,949.78	1/2	1,618.55	1/2	1,287.32	1/2	956.74	1/2	642.64	1/2	351.62	1/2	84.18	1/2		1/2			
3/4	1,942.88	3/4	1,611.65	3/4	1,280.42	3/4	949.98	3/4	636.35	3/4	345.82	3/4	78.88	3/4		3/4			
2	1,935.98	2	1,604.75	2	1,273.51	2	943.22	2	630.07	2	340.03	2	73.58	2		2			
1/4	1,929.08	1/4	1,597.85	1/4	1,266.61	1/4	936.45	1/4	623.78	1/4	334.23	1/4	68.27	1/4		1/4			
1/2	1,922.18	1/2	1,590.95	1/2	1,259.71	1/2	929.69	1/2	617.49	1/2	328.43	1/2	62.97	1/2		1/2			
3/4	1,915.28	3/4	1,584.05	3/4	1,252.81	3/4	922.97	3/4	611.24	3/4	322.68	3/4	57.71	3/4		3/4			
3	1,908.38	3	1,577.15	3	1,245.91	3	916.24	3	605.00	3	316.92	3	52.45	3		3			
1/4	1,901.48	1/4	1,570.24	1/4	1,239.01	1/4	909.52	1/4	598.75	1/4	311.16	1/4	47.18	1/4		1/4			
1/2	1,894.58	1/2	1,563.34	1/2	1,232.11	1/2	902.80	1/2	592.50	1/2	305.41	1/2	41.92	1/2		1/2			
3/4	1,887.68	3/4	1,556.44	3/4	1,225.21	3/4	896.12	3/4	586.29	3/4	299.69	3/4	37.56	3/4		3/4			
4	1,880.78	4	1,549.54	4	1,218.31	4	889.44	4	580.09	4	293.98	4	33.21	4		4			
1/4	1,873.88	1/4	1,542.64	1/4	1,211.41	1/4	882.75	1/4	573.88	1/4	288.26	1/4	28.85	1/4		1/4			
1/2	1,866.97	1/2	1,535.74	1/2	1,204.51	1/2	876.07	1/2	567.68	1/2	282.55	1/2	24.49	1/2		1/2			
3/4	1,860.07	3/4	1,528.84	3/4	1,197.61	3/4	869.43	3/4	561.51	3/4	276.88	3/4	21.90	3/4		3/4			
5	1,853.17	5	1,521.94	5	1,190.71	5	862.79	5	555.35	5	271.20	5	19.31	5		5			
1/4	1,846.27	1/4	1,515.04	1/4	1,183.81	1/4	856.15	1/4	549.18	1/4	265.52	1/4	16.72	1/4		1/4			
1/2	1,839.37	1/2	1,508.14	1/2	1,176.90	1/2	849.51	1/2	543.01	1/2	259.85	1/2	14.12	1/2		1/2			
3/4	1,832.47	3/4	1,501.24	3/4	1,170.00	3/4	842.91	3/4	536.89	3/4	254.22	3/4		3/4		3/4			
6	1,825.57	6	1,494.34	6	1,163.10	6	836.31	6	530.77	6	248.59	6		6		6			
1/4	1,818.67	1/4	1,487.44	1/4	1,156.20	1/4	829.71	1/4	524.64	1/4	242.95	1/4		1/4		1/4			
1/2	1,811.77	1/2	1,480.54	1/2	1,149.30	1/2	823.11	1/2	518.52	1/2	237.32	1/2		1/2		1/2			
3/4	1,804.87	3/4	1,473.63	3/4	1,142.40	3/4	816.55	3/4	512.43	3/4	231.73	3/4		3/4		3/4			
7	1,797.97	7	1,466.73	7	1,135.50	7	809.99	7	506.35	7	226.13	7		7		7			
1/4	1,791.07	1/4	1,459.83	1/4	1,128.60	1/4	803.43	1/4	500.27	1/4	220.54	1/4		1/4		1/4			
1/2	1,784.17	1/2	1,452.93	1/2	1,121.70	1/2	796.87	1/2	494.18	1/2	214.95	1/2		1/2		1/2			
3/4	1,777.27	3/4	1,446.03	3/4	1,114.80	3/4	790.35	3/4	488.14	3/4	209.40	3/4		3/4		3/4			
8	1,770.37	8	1,439.13	8	1,107.90	8	783.84	8	482.10	8	203.85	8		8		8			
1/4	1,763.46	1/4	1,432.23	1/4	1,101.00	1/4	777.32	1/4	476.06	1/4	198.30	1/4		1/4		1/4			
1/2	1,756.56	1/2	1,425.33	1/2	1,094.10	1/2	770.80	1/2	470.02	1/2	192.75	1/2		1/2		1/2			
3/4	1,749.66	3/4	1,418.43	3/4	1,087.20	3/4	764.32	3/4	464.01	3/4	187.24	3/4		3/4		3/4			
9	1,742.76	9	1,411.53	9	1,080.30	9	757.85	9	458.01	9	181.72	9		9		9			
1/4	1,735.86	1/4	1,404.63	1/4	1,073.40	1/4	751.37	1/4	452.01	1/4	176.21	1/4		1/4		1/4			
1/2	1,728.96	1/2	1,397.73	1/2	1,066.50	1/2	744.89	1/2	446.01	1/2	170.70	1/2		1/2		1/2			
3/4	1,722.06	3/4	1,390.83	3/4	1,059.61	3/4	738.44	3/4	440.05	3/4	165.23	3/4		3/4		3/4			
10	1,715.16	10	1,383.93	10	1,052.72	10	731.99	10	434.09	10	159.76	10		10		10			
1/4	1,708.26	1/4	1,377.03	1/4	1,045.82	1/4	725.54	1/4	428.13	1/4	154.30	1/4		1/4		1/4			
1/2	1,701.36	1/2	1,370.12	1/2	1,038.93	1/2	719.09	1/2	422.17	1/2	148.83	1/2		1/2		1/2			
3/4	1,694.46	3/4	1,363.22	3/4	1,032.06	3/4	712.67	3/4	416.25	3/4	143.40	3/4		3/4		3/4			
11	1,687.56	11	1,356.32	11	1,025.18	11	706.26	11	410.33	11	137.96	11		11		11			
1/4	1,680.66	1/4	1,349.42	1/4	1,018.30	1/4	699.85	1/4	404.40	1/4	132.53	1/4		1/4		1/4			
1/2	1,673.76	1/2	1,342.52	1/2	1,011.43	1/2	693.44	1/2	398.48	1/2	127.10	1/2		1/2		1/2			
3/4	1,666.85	3/4	1,335.62	3/4	1,004.58	3/4	687.07	3/4	392.61	3/4	121.72	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2006 CL - SW
CALCULATED: 05/10/2006 CL
PRINTED: 05/10/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28045"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	4,217.89	0	3,929.89	0	3,627.75	0	3,311.64	0	2,983.00	0	2,651.84	0	2,320.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,212.00	1/4	3,923.76	1/4	3,621.31	1/4	3,304.91	1/4	2,976.10	1/4	2,644.94	1/4	2,313.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,206.11	1/2	3,917.63	1/2	3,614.86	1/2	3,298.18	1/2	2,969.20	1/2	2,638.04	1/2	2,306.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,200.21	3/4	3,911.48	3/4	3,608.40	3/4	3,291.43	3/4	2,962.31	3/4	2,631.14	3/4	2,299.94
1		1		1		1	4,194.30	1	3,905.32	1	3,601.93	1	3,284.69	1	2,955.41	1	2,624.24	1	2,293.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,188.39	1/4	3,899.17	1/4	3,595.46	1/4	3,277.94	1/4	2,948.51	1/4	2,617.34	1/4	2,286.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,182.49	1/2	3,893.02	1/2	3,588.99	1/2	3,271.19	1/2	2,941.61	1/2	2,610.44	1/2	2,279.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,176.56	3/4	3,886.84	3/4	3,582.49	3/4	3,264.41	3/4	2,934.71	3/4	2,603.54	3/4	2,272.34
2		2		2		2	4,170.63	2	3,880.67	2	3,576.00	2	3,257.63	2	2,927.81	2	2,596.64	2	2,265.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,164.70	1/4	3,874.49	1/4	3,569.51	1/4	3,250.85	1/4	2,920.91	1/4	2,589.74	1/4	2,258.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,158.77	1/2	3,868.31	1/2	3,563.02	1/2	3,244.07	1/2	2,914.01	1/2	2,582.84	1/2	2,251.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,152.82	3/4	3,862.11	3/4	3,556.51	3/4	3,237.27	3/4	2,907.11	3/4	2,575.94	3/4	2,244.74
3		3		3		3	4,146.86	3	3,855.91	3	3,550.00	3	3,230.48	3	2,900.21	3	2,569.05	3	2,237.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,140.91	1/4	3,849.71	1/4	3,543.48	1/4	3,223.68	1/4	2,893.31	1/4	2,562.15	1/4	2,230.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,134.95	1/2	3,843.51	1/2	3,536.97	1/2	3,216.88	1/2	2,886.41	1/2	2,555.25	1/2	2,224.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,129.01	3/4	3,837.26	3/4	3,530.43	3/4	3,210.06	3/4	2,879.51	3/4	2,548.35	3/4	2,217.14
4		4		4		4	4,123.07	4	3,831.00	4	3,523.89	4	3,203.25	4	2,872.61	4	2,541.45	4	2,210.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,117.12	1/4	3,824.75	1/4	3,517.35	1/4	3,196.43	1/4	2,865.72	1/4	2,534.55	1/4	2,203.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,111.18	1/2	3,818.49	1/2	3,510.81	1/2	3,189.61	1/2	2,858.82	1/2	2,527.65	1/2	2,196.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,105.22	3/4	3,812.21	3/4	3,504.25	3/4	3,182.76	3/4	2,851.92	3/4	2,520.75	3/4	2,189.53
5		5		5		5	4,099.25	5	3,805.93	5	3,497.69	5	3,175.91	5	2,845.02	5	2,513.85	5	2,182.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,093.29	1/4	3,799.65	1/4	3,491.13	1/4	3,169.06	1/4	2,838.12	1/4	2,506.95	1/4	2,175.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,087.32	1/2	3,793.37	1/2	3,484.57	1/2	3,162.22	1/2	2,831.22	1/2	2,500.05	1/2	2,168.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,081.33	3/4	3,787.06	3/4	3,477.98	3/4	3,155.35	3/4	2,824.32	3/4	2,493.15	3/4	2,161.93
6		6		6		6	4,075.34	6	3,780.76	6	3,471.39	6	3,148.48	6	2,817.42	6	2,486.25	6	2,155.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,069.35	1/4	3,774.46	1/4	3,464.80	1/4	3,141.62	1/4	2,810.52	1/4	2,479.35	1/4	2,148.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,063.36	1/2	3,768.15	1/2	3,458.21	1/2	3,134.75	1/2	2,803.62	1/2	2,472.46	1/2	2,141.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,057.35	3/4	3,761.82	3/4	3,451.60	3/4	3,127.86	3/4	2,796.72	3/4	2,465.56	3/4	2,134.33
7		7		7	4,350.43	7	4,051.33	7	3,755.49	7	3,444.99	7	3,120.97	7	2,789.82	7	2,458.66	7	2,127.43
1/4	1/4	1/4	1/4	1/4	4,345.25	1/4	4,045.32	1/4	3,749.16	1/4	3,438.38	1/4	3,114.08	1/4	2,782.92	1/4	2,451.76	1/4	2,120.53
1/2	1/2	1/2	1/2	1/2	4,340.07	1/2	4,039.31	1/2	3,742.82	1/2	3,431.77	1/2	3,107.19	1/2	2,776.02	1/2	2,444.86	1/2	2,113.62
3/4	3/4	3/4	3/4	3/4	4,333.17	3/4	4,033.27	3/4	3,736.47	3/4	3,425.14	3/4	3,100.29	3/4	2,769.13	3/4	2,437.96	3/4	2,106.72
8		8		8	4,326.27	8	4,027.23	8	3,730.12	8	3,418.51	8	3,093.39	8	2,762.23	8	2,431.06	8	2,099.82
1/4	1/4	1/4	1/4	1/4	4,319.37	1/4	4,021.19	1/4	3,723.77	1/4	3,411.88	1/4	3,086.49	1/4	2,755.33	1/4	2,424.16	1/4	2,092.92
1/2	1/2	1/2	1/2	1/2	4,312.47	1/2	4,015.15	1/2	3,717.42	1/2	3,405.25	1/2	3,079.59	1/2	2,748.43	1/2	2,417.26	1/2	2,086.02
3/4	3/4	3/4	3/4	3/4	4,305.57	3/4	4,009.09	3/4	3,711.05	3/4	3,398.59	3/4	3,072.69	3/4	2,741.53	3/4	2,410.35	3/4	2,079.12
9		9		9	4,298.67	9	4,003.03	9	3,704.67	9	3,391.93	9	3,065.80	9	2,734.63	9	2,403.45	9	2,072.22
1/4	1/4	1/4	1/4	1/4	4,291.77	1/4	3,996.97	1/4	3,698.30	1/4	3,385.27	1/4	3,058.90	1/4	2,727.73	1/4	2,396.55	1/4	2,065.32
1/2	1/2	1/2	1/2	1/2	4,284.87	1/2	3,990.91	1/2	3,691.93	1/2	3,378.61	1/2	3,052.00	1/2	2,720.83	1/2	2,389.65	1/2	2,058.42
3/4	3/4	3/4	3/4	3/4	4,277.97	3/4	3,984.83	3/4	3,685.53	3/4	3,371.93	3/4	3,045.10	3/4	2,713.93	3/4	2,382.75	3/4	2,051.52
10		10		10	4,271.07	10	3,978.74	10	3,679.12	10	3,365.25	10	3,038.20	10	2,707.03	10	2,375.85	10	2,044.62
1/4	1/4	1/4	1/4	1/4	4,264.16	1/4	3,972.66	1/4	3,672.72	1/4	3,358.58	1/4	3,031.30	1/4	2,700.13	1/4	2,368.95	1/4	2,037.72
1/2	1/2	1/2	1/2	1/2	4,257.26	1/2	3,966.58	1/2	3,666.32	1/2	3,351.90	1/2	3,024.40	1/2	2,693.23	1/2	2,362.05	1/2	2,030.82
3/4	3/4	3/4	3/4	3/4	4,250.36	3/4	3,960.47	3/4	3,659.90	3/4	3,345.20	3/4	3,017.50	3/4	2,686.33	3/4	2,355.15	3/4	2,023.92
11		11		11	4,243.46	11	3,954.36	11	3,653.48	11	3,338.50	11	3,010.60	11	2,679.43	11	2,348.25	11	2,017.01
1/4	1/4	1/4	1/4	1/4	4,236.56	1/4	3,948.25	1/4	3,647.06	1/4	3,331.79	1/4	3,003.70	1/4	2,672.54	1/4	2,341.35	1/4	2,010.11
1/2	1/2	1/2	1/2	1/2	4,229.66	1/2	3,942.14	1/2	3,640.64	1/2	3,325.09	1/2	2,996.80	1/2	2,665.64	1/2	2,334.45	1/2	2,003.21
3/4	3/4	3/4	3/4	3/4	4,223.77	3/4	3,936.02	3/4	3,634.19	3/4	3,318.37	3/4	2,989.90	3/4	2,658.74	3/4	2,327.55	3/4	1,996.31

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'-10" OFF CENTERLINE AND 37'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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





BARGE "KIRBY 28045"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

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	1,989.41	0	1,658.18	0	1,326.94	0	996.01	0	680.69	0	386.72	0	116.33	0		0			
1/4	1,982.51	1/4	1,651.28	1/4	1,320.04	1/4	989.19	1/4	674.32	1/4	380.84	1/4	110.95	1/4		1/4			
1/2	1,975.61	1/2	1,644.38	1/2	1,313.14	1/2	982.36	1/2	667.95	1/2	374.97	1/2	105.56	1/2		1/2			
3/4	1,968.71	3/4	1,637.48	3/4	1,306.24	3/4	975.58	3/4	661.62	3/4	369.13	3/4	100.21	3/4		3/4			
1	1,961.81	1	1,630.58	1	1,299.34	1	968.80	1	655.29	1	363.29	1	94.87	1		1			
1/4	1,954.91	1/4	1,623.67	1/4	1,292.44	1/4	962.01	1/4	648.96	1/4	357.45	1/4	89.52	1/4		1/4			
1/2	1,948.01	1/2	1,616.77	1/2	1,285.54	1/2	955.23	1/2	642.63	1/2	351.61	1/2	84.18	1/2		1/2			
3/4	1,941.11	3/4	1,609.87	3/4	1,278.64	3/4	948.51	3/4	636.34	3/4	345.81	3/4	78.87	3/4		3/4			
2	1,934.21	2	1,602.97	2	1,271.74	2	941.78	2	630.06	2	340.02	2	73.57	2		2			
1/4	1,927.31	1/4	1,596.07	1/4	1,264.84	1/4	935.06	1/4	623.77	1/4	334.22	1/4	68.27	1/4		1/4			
1/2	1,920.40	1/2	1,589.17	1/2	1,257.94	1/2	928.33	1/2	617.48	1/2	328.43	1/2	62.97	1/2		1/2			
3/4	1,913.50	3/4	1,582.27	3/4	1,251.04	3/4	921.65	3/4	611.23	3/4	322.67	3/4	57.71	3/4		3/4			
3	1,906.60	3	1,575.37	3	1,244.14	3	914.96	3	604.98	3	316.91	3	52.44	3		3			
1/4	1,899.70	1/4	1,568.47	1/4	1,237.24	1/4	908.28	1/4	598.74	1/4	311.16	1/4	47.18	1/4		1/4			
1/2	1,892.80	1/2	1,561.57	1/2	1,230.33	1/2	901.59	1/2	592.49	1/2	305.40	1/2	41.92	1/2		1/2			
3/4	1,885.90	3/4	1,554.67	3/4	1,223.43	3/4	894.95	3/4	586.28	3/4	299.69	3/4	37.56	3/4		3/4			
4	1,879.00	4	1,547.77	4	1,216.53	4	888.31	4	580.08	4	293.97	4	33.21	4		4			
1/4	1,872.10	1/4	1,540.87	1/4	1,209.63	1/4	881.67	1/4	573.87	1/4	288.26	1/4	28.85	1/4		1/4			
1/2	1,865.20	1/2	1,533.97	1/2	1,202.73	1/2	875.02	1/2	567.67	1/2	282.54	1/2	24.49	1/2		1/2			
3/4	1,858.30	3/4	1,527.07	3/4	1,195.83	3/4	868.42	3/4	561.50	3/4	276.87	3/4	21.90	3/4		3/4			
5	1,851.40	5	1,520.16	5	1,188.93	5	861.82	5	555.34	5	271.19	5	19.31	5		5			
1/4	1,844.50	1/4	1,513.26	1/4	1,182.03	1/4	855.22	1/4	549.17	1/4	265.52	1/4	16.72	1/4		1/4			
1/2	1,837.60	1/2	1,506.36	1/2	1,175.13	1/2	848.61	1/2	543.00	1/2	259.84	1/2	14.12	1/2		1/2			
3/4	1,830.70	3/4	1,499.46	3/4	1,168.23	3/4	842.05	3/4	536.88	3/4	254.21	3/4		3/4		3/4			
6	1,823.80	6	1,492.56	6	1,161.33	6	835.49	6	530.76	6	248.58	6		6		6			
1/4	1,816.89	1/4	1,485.66	1/4	1,154.43	1/4	828.93	1/4	524.63	1/4	242.95	1/4		1/4		1/4			
1/2	1,809.99	1/2	1,478.76	1/2	1,147.53	1/2	822.37	1/2	518.51	1/2	237.32	1/2		1/2		1/2			
3/4	1,803.09	3/4	1,471.86	3/4	1,140.63	3/4	815.85	3/4	512.43	3/4	231.72	3/4		3/4		3/4			
7	1,796.19	7	1,464.96	7	1,133.73	7	809.33	7	506.34	7	226.13	7		7		7			
1/4	1,789.29	1/4	1,458.06	1/4	1,126.82	1/4	802.81	1/4	500.26	1/4	220.54	1/4		1/4		1/4			
1/2	1,782.39	1/2	1,451.16	1/2	1,119.92	1/2	796.29	1/2	494.17	1/2	214.94	1/2		1/2		1/2			
3/4	1,775.49	3/4	1,444.26	3/4	1,113.02	3/4	789.81	3/4	488.13	3/4	209.39	3/4		3/4		3/4			
8	1,768.59	8	1,437.36	8	1,106.12	8	783.33	8	482.09	8	203.84	8		8		8			
1/4	1,761.69	1/4	1,430.46	1/4	1,099.22	1/4	776.85	1/4	476.05	1/4	198.29	1/4		1/4		1/4			
1/2	1,754.79	1/2	1,423.55	1/2	1,092.32	1/2	770.37	1/2	470.01	1/2	192.74	1/2		1/2		1/2			
3/4	1,747.89	3/4	1,416.65	3/4	1,085.42	3/4	763.93	3/4	464.00	3/4	187.23	3/4		3/4		3/4			
9	1,740.99	9	1,409.75	9	1,078.52	9	757.49	9	458.00	9	181.72	9		9		9			
1/4	1,734.09	1/4	1,402.85	1/4	1,071.62	1/4	751.05	1/4	452.00	1/4	176.21	1/4		1/4		1/4			
1/2	1,727.19	1/2	1,395.95	1/2	1,064.72	1/2	744.61	1/2	446.00	1/2	170.69	1/2		1/2		1/2			
3/4	1,720.28	3/4	1,389.05	3/4	1,057.83	3/4	738.20	3/4	440.04	3/4	165.23	3/4		3/4		3/4			
10	1,713.38	10	1,382.15	10	1,050.94	10	731.78	10	434.08	10	159.76	10		10		10			
1/4	1,706.48	1/4	1,375.25	1/4	1,044.05	1/4	725.37	1/4	428.12	1/4	154.29	1/4		1/4		1/4			
1/2	1,699.58	1/2	1,368.35	1/2	1,037.16	1/2	718.95	1/2	422.16	1/2	148.82	1/2		1/2		1/2			
3/4	1,692.68	3/4	1,361.45	3/4	1,030.28	3/4	712.57	3/4	416.24	3/4	143.39	3/4		3/4		3/4			
11	1,685.78	11	1,354.55	11	1,023.40	11	706.19	11	410.32	11	137.96	11		11		11			
1/4	1,678.88	1/4	1,347.65	1/4	1,016.53	1/4	699.81	1/4	404.40	1/4	132.53	1/4		1/4		1/4			
1/2	1,671.98	1/2	1,340.75	1/2	1,009.65	1/2	693.43	1/2	398.48	1/2	127.10	1/2		1/2		1/2			
3/4	1,665.08	3/4	1,333.85	3/4	1,002.83	3/4	687.06	3/4	392.60	3/4	121.71	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2006 CL - SW
CALCULATED: 05/10/2006 CL
PRINTED: 05/10/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28045"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	5,108.81	0	4,772.80	0	4,419.66	0	4,049.72	0	3,665.13	0	3,277.57	0	2,889.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,101.92	1/4	4,765.66	1/4	4,412.12	1/4	4,041.85	1/4	3,657.05	1/4	3,269.50	1/4	2,881.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,095.03	1/2	4,758.52	1/2	4,404.58	1/2	4,033.98	1/2	3,648.98	1/2	3,261.42	1/2	2,873.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,088.12	3/4	4,751.35	3/4	4,397.01	3/4	4,026.08	3/4	3,640.91	3/4	3,253.35	3/4	2,865.74
1		1		1		1	5,081.20	1	4,744.18	1	4,389.44	1	4,018.18	1	3,632.83	1	3,245.28	1	2,857.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,074.29	1/4	4,737.02	1/4	4,381.87	1/4	4,010.28	1/4	3,624.76	1/4	3,237.20	1/4	2,849.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,067.38	1/2	4,729.85	1/2	4,374.29	1/2	4,002.38	1/2	3,616.68	1/2	3,229.13	1/2	2,841.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,060.44	3/4	4,722.65	3/4	4,366.70	3/4	3,994.45	3/4	3,608.61	3/4	3,221.05	3/4	2,833.43
2		2		2		2	5,053.50	2	4,715.45	2	4,359.10	2	3,986.52	2	3,600.54	2	3,212.98	2	2,825.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,046.56	1/4	4,708.25	1/4	4,351.50	1/4	3,978.58	1/4	3,592.46	1/4	3,204.91	1/4	2,817.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,039.62	1/2	4,701.05	1/2	4,343.91	1/2	3,970.65	1/2	3,584.39	1/2	3,196.83	1/2	2,809.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,032.65	3/4	4,693.83	3/4	4,336.29	3/4	3,962.70	3/4	3,576.31	3/4	3,188.76	3/4	2,801.12
3		3		3		3	5,025.68	3	4,686.61	3	4,328.66	3	3,954.74	3	3,568.24	3	3,180.68	3	2,793.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,018.71	1/4	4,679.38	1/4	4,321.04	1/4	3,946.79	1/4	3,560.17	1/4	3,172.61	1/4	2,784.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,011.74	1/2	4,672.16	1/2	4,313.42	1/2	3,938.83	1/2	3,552.09	1/2	3,164.53	1/2	2,776.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,004.81	3/4	4,664.84	3/4	4,305.77	3/4	3,930.85	3/4	3,544.02	3/4	3,156.46	3/4	2,768.81
4		4		4		4	4,997.89	4	4,657.52	4	4,298.12	4	3,922.87	4	3,535.94	4	3,148.39	4	2,760.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,990.96	1/4	4,650.20	1/4	4,290.46	1/4	3,914.89	1/4	3,527.87	1/4	3,140.31	1/4	2,752.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,984.04	1/2	4,642.88	1/2	4,282.81	1/2	3,906.91	1/2	3,519.80	1/2	3,132.24	1/2	2,744.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,977.09	3/4	4,635.53	3/4	4,275.13	3/4	3,898.90	3/4	3,511.72	3/4	3,124.16	3/4	2,736.51
5		5		5		5	4,970.14	5	4,628.18	5	4,267.45	5	3,890.88	5	3,503.65	5	3,116.09	5	2,728.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,963.19	1/4	4,620.83	1/4	4,259.78	1/4	3,882.87	1/4	3,495.57	1/4	3,108.02	1/4	2,720.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,956.24	1/2	4,613.48	1/2	4,252.10	1/2	3,874.86	1/2	3,487.50	1/2	3,099.94	1/2	2,712.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,949.26	3/4	4,606.10	3/4	4,244.39	3/4	3,866.82	3/4	3,479.42	3/4	3,091.87	3/4	2,704.20
6		6		6		6	4,942.28	6	4,598.72	6	4,236.67	6	3,858.78	6	3,471.35	6	3,083.79	6	2,696.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,935.30	1/4	4,591.35	1/4	4,228.96	1/4	3,850.75	1/4	3,463.28	1/4	3,075.72	1/4	2,688.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,928.32	1/2	4,583.97	1/2	4,221.25	1/2	3,842.71	1/2	3,455.20	1/2	3,067.65	1/2	2,679.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,921.31	3/4	4,576.56	3/4	4,213.51	3/4	3,834.65	3/4	3,447.13	3/4	3,059.57	3/4	2,671.89
7		7		7		7	5,263.93	7	4,914.31	7	4,569.15	7	4,205.78	7	3,826.59	7	3,439.05	7	3,051.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,257.88	1/4	4,907.30	1/4	4,561.74	1/4	4,198.05	1/4	3,818.53	1/4	3,430.98	1/4	3,043.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,251.82	1/2	4,900.29	1/2	4,554.33	1/2	4,190.31	1/2	3,810.46	1/2	3,422.91	1/2	3,035.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,243.74	3/4	4,893.26	3/4	4,546.89	3/4	4,182.55	3/4	3,802.39	3/4	3,414.83	3/4	3,027.27
8		8		8		8	5,235.67	8	4,886.22	8	4,539.46	8	4,174.79	8	3,794.31	8	3,406.76	8	3,019.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,227.59	1/4	4,879.18	1/4	4,532.03	1/4	4,167.03	1/4	3,786.24	1/4	3,398.68	1/4	3,011.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,219.51	1/2	4,872.14	1/2	4,524.60	1/2	4,159.27	1/2	3,778.17	1/2	3,390.61	1/2	3,003.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,211.44	3/4	4,865.08	3/4	4,517.14	3/4	4,151.48	3/4	3,770.09	3/4	3,382.54	3/4	2,994.97
9		9		9		9	5,203.36	9	4,858.02	9	4,509.68	9	4,143.69	9	3,762.02	9	3,374.46	9	2,986.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,195.28	1/4	4,850.96	1/4	4,502.22	1/4	4,135.89	1/4	3,753.94	1/4	3,366.39	1/4	2,978.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,187.21	1/2	4,843.90	1/2	4,494.76	1/2	4,128.10	1/2	3,745.87	1/2	3,358.31	1/2	2,970.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,179.13	3/4	4,836.82	3/4	4,487.27	3/4	4,120.28	3/4	3,737.80	3/4	3,350.24	3/4	2,962.66
10		10		10		10	5,171.05	10	4,829.73	10	4,479.78	10	4,112.47	10	3,729.72	10	3,342.16	10	2,954.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,162.98	1/4	4,822.65	1/4	4,472.29	1/4	4,104.65	1/4	3,721.65	1/4	3,334.09	1/4	2,946.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,154.90	1/2	4,815.56	1/2	4,464.80	1/2	4,096.84	1/2	3,713.57	1/2	3,326.02	1/2	2,938.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,146.82	3/4	4,808.44	3/4	4,457.28	3/4	4,088.99	3/4	3,705.50	3/4	3,317.94	3/4	2,930.35
11		11		11		11	5,138.74	11	4,801.32	11	4,449.77	11	4,081.15	11	3,697.43	11	3,309.87	11	2,922.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,130.67	1/4	4,794.20	1/4	4,442.25	1/4	4,073.31	1/4	3,689.35	1/4	3,301.79	1/4	2,914.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,122.59	1/2	4,787.09	1/2	4,434.74	1/2	4,065.47	1/2	3,681.28	1/2	3,293.72	1/2	2,906.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,115.70	3/4	4,779.94	3/4	4,427.20	3/4	4,057.60	3/4	3,673.20	3/4	3,285.65	3/4	2,898.04

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'-10" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28045"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

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	2,502.28	0	2,114.59	0	1,726.91	0	1,339.22	0	951.53	0	564.70	0	177.43	0		0			
1/4	2,494.20	1/4	2,106.52	1/4	1,718.83	1/4	1,331.14	1/4	943.46	1/4	556.63	1/4	169.36	1/4		1/4			
1/2	2,486.13	1/2	2,098.44	1/2	1,710.75	1/2	1,323.07	1/2	935.38	1/2	548.56	1/2	161.30	1/2		1/2			
3/4	2,478.05	3/4	2,090.36	3/4	1,702.68	3/4	1,314.99	3/4	927.30	3/4	540.50	3/4	153.23	3/4		3/4			
1	2,469.97	1	2,082.29	1	1,694.60	1	1,306.91	1	919.23	1	532.43	1	145.16	1		1			
1/4	2,461.90	1/4	2,074.21	1/4	1,686.52	1/4	1,298.84	1/4	911.15	1/4	524.36	1/4	137.09	1/4		1/4			
1/2	2,453.82	1/2	2,066.13	1/2	1,678.45	1/2	1,290.76	1/2	903.07	1/2	516.29	1/2	129.02	1/2		1/2			
3/4	2,445.74	3/4	2,058.06	3/4	1,670.37	3/4	1,282.68	3/4	895.01	3/4	508.22	3/4	120.96	3/4		3/4			
2	2,437.67	2	2,049.98	2	1,662.29	2	1,274.61	2	886.94	2	500.16	2	112.89	2		2			
1/4	2,429.59	1/4	2,041.90	1/4	1,654.22	1/4	1,266.53	1/4	878.88	1/4	492.09	1/4	104.82	1/4		1/4			
1/2	2,421.51	1/2	2,033.83	1/2	1,646.14	1/2	1,258.45	1/2	870.81	1/2	484.02	1/2	96.75	1/2		1/2			
3/4	2,413.44	3/4	2,025.75	3/4	1,638.06	3/4	1,250.38	3/4	862.76	3/4	475.95	3/4	88.68	3/4		3/4			
3	2,405.36	3	2,017.67	3	1,629.99	3	1,242.30	3	854.71	3	467.88	3	80.61	3		3			
1/4	2,397.28	1/4	2,009.60	1/4	1,621.91	1/4	1,234.22	1/4	846.66	1/4	459.82	1/4	72.55	1/4		1/4			
1/2	2,389.21	1/2	2,001.52	1/2	1,613.83	1/2	1,226.15	1/2	838.61	1/2	451.75	1/2	64.48	1/2		1/2			
3/4	2,381.13	3/4	1,993.44	3/4	1,605.76	3/4	1,218.07	3/4	830.55	3/4	443.68	3/4	57.42	3/4		3/4			
4	2,373.05	4	1,985.37	4	1,597.68	4	1,209.99	4	822.50	4	435.61	4	50.36	4		4			
1/4	2,364.97	1/4	1,977.29	1/4	1,589.60	1/4	1,201.92	1/4	814.45	1/4	427.54	1/4	43.30	1/4		1/4			
1/2	2,356.90	1/2	1,969.21	1/2	1,581.53	1/2	1,193.84	1/2	806.40	1/2	419.48	1/2	36.24	1/2		1/2			
3/4	2,348.82	3/4	1,961.13	3/4	1,573.45	3/4	1,185.76	3/4	798.34	3/4	411.41	3/4	31.20	3/4		3/4			
5	2,340.74	5	1,953.06	5	1,565.37	5	1,177.69	5	790.29	5	403.34	5	26.16	5		5			
1/4	2,332.67	1/4	1,944.98	1/4	1,557.29	1/4	1,169.61	1/4	782.24	1/4	395.27	1/4	21.12	1/4		1/4			
1/2	2,324.59	1/2	1,936.90	1/2	1,549.22	1/2	1,161.53	1/2	774.19	1/2	387.20	1/2	16.08	1/2		1/2			
3/4	2,316.51	3/4	1,928.83	3/4	1,541.14	3/4	1,153.45	3/4	766.13	3/4	379.13	3/4		3/4		3/4			
6	2,308.44	6	1,920.75	6	1,533.06	6	1,145.38	6	758.08	6	371.07	6		6		6			
1/4	2,300.36	1/4	1,912.67	1/4	1,524.99	1/4	1,137.30	1/4	750.03	1/4	363.00	1/4		1/4		1/4			
1/2	2,292.28	1/2	1,904.60	1/2	1,516.91	1/2	1,129.22	1/2	741.98	1/2	354.93	1/2		1/2		1/2			
3/4	2,284.21	3/4	1,896.52	3/4	1,508.83	3/4	1,121.15	3/4	733.93	3/4	346.86	3/4		3/4		3/4			
7	2,276.13	7	1,888.44	7	1,500.76	7	1,113.07	7	725.87	7	338.79	7		7		7			
1/4	2,268.05	1/4	1,880.37	1/4	1,492.68	1/4	1,104.99	1/4	717.82	1/4	330.73	1/4		1/4		1/4			
1/2	2,259.98	1/2	1,872.29	1/2	1,484.60	1/2	1,096.92	1/2	709.77	1/2	322.66	1/2		1/2		1/2			
3/4	2,251.90	3/4	1,864.21	3/4	1,476.53	3/4	1,088.84	3/4	701.72	3/4	314.59	3/4		3/4		3/4			
8	2,243.82	8	1,856.14	8	1,468.45	8	1,080.76	8	693.66	8	306.52	8		8		8			
1/4	2,235.75	1/4	1,848.06	1/4	1,460.37	1/4	1,072.69	1/4	685.61	1/4	298.45	1/4		1/4		1/4			
1/2	2,227.67	1/2	1,839.98	1/2	1,452.30	1/2	1,064.61	1/2	677.56	1/2	290.39	1/2		1/2		1/2			
3/4	2,219.59	3/4	1,831.91	3/4	1,444.22	3/4	1,056.53	3/4	669.51	3/4	282.32	3/4		3/4		3/4			
9	2,211.52	9	1,823.83	9	1,436.14	9	1,048.46	9	661.45	9	274.25	9		9		9			
1/4	2,203.44	1/4	1,815.75	1/4	1,428.07	1/4	1,040.38	1/4	653.40	1/4	266.18	1/4		1/4		1/4			
1/2	2,195.36	1/2	1,807.68	1/2	1,419.99	1/2	1,032.30	1/2	645.35	1/2	258.11	1/2		1/2		1/2			
3/4	2,187.29	3/4	1,799.60	3/4	1,411.91	3/4	1,024.23	3/4	637.29	3/4	250.04	3/4		3/4		3/4			
10	2,179.21	10	1,791.52	10	1,403.84	10	1,016.15	10	629.23	10	241.98	10		10		10			
1/4	2,171.13	1/4	1,783.45	1/4	1,395.76	1/4	1,008.07	1/4	621.17	1/4	233.91	1/4		1/4		1/4			
1/2	2,163.05	1/2	1,775.37	1/2	1,387.68	1/2	1,000.00	1/2	613.11	1/2	225.84	1/2		1/2		1/2			
3/4	2,154.98	3/4	1,767.29	3/4	1,379.61	3/4	991.92	3/4	605.04	3/4	217.77	3/4		3/4		3/4			
11	2,146.90	11	1,759.21	11	1,371.53	11	983.84	11	596.97	11	209.70	11		11		11			
1/4	2,138.82	1/4	1,751.14	1/4	1,363.45	1/4	975.77	1/4	588.91	1/4	201.64	1/4		1/4		1/4			
1/2	2,130.75	1/2	1,743.06	1/2	1,355.37	1/2	967.69	1/2	580.84	1/2	193.57	1/2		1/2		1/2			
3/4	2,122.67	3/4	1,734.98	3/4	1,347.30	3/4	959.61	3/4	572.77	3/4	185.50	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2006 CL - SW
CALCULATED: 05/10/2006 CL
PRINTED: 05/10/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28045"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	5,099.35	0	4,763.04	0	4,409.58	0	4,039.32	0	3,654.39	0	3,266.49	0	2,878.55		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,092.46	1/4	4,755.89	1/4	4,402.04	1/4	4,031.44	1/4	3,646.31	1/4	3,258.41	1/4	2,870.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,085.56	1/2	4,748.74	1/2	4,394.49	1/2	4,023.56	1/2	3,638.23	1/2	3,250.33	1/2	2,862.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,078.64	3/4	4,741.57	3/4	4,386.91	3/4	4,015.65	3/4	3,630.15	3/4	3,242.25	3/4	2,854.29		
1		1		1		1	5,071.72	1	4,734.40	1	4,379.33	1	4,007.75	1	3,622.07	1	3,234.17	1	2,846.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,064.80	1/4	4,727.22	1/4	4,371.75	1/4	3,999.84	1/4	3,613.99	1/4	3,226.08	1/4	2,838.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,057.88	1/2	4,720.05	1/2	4,364.18	1/2	3,991.94	1/2	3,605.91	1/2	3,218.00	1/2	2,830.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,050.94	3/4	4,712.84	3/4	4,356.57	3/4	3,984.00	3/4	3,597.82	3/4	3,209.92	3/4	2,821.96		
2		2		2		2	5,043.99	2	4,705.64	2	4,348.97	2	3,976.06	2	3,589.74	2	3,201.84	2	2,813.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,037.04	1/4	4,698.43	1/4	4,341.37	1/4	3,968.12	1/4	3,581.66	1/4	3,193.76	1/4	2,805.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,030.10	1/2	4,691.23	1/2	4,333.76	1/2	3,960.18	1/2	3,573.58	1/2	3,185.68	1/2	2,797.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,023.12	3/4	4,684.00	3/4	4,326.14	3/4	3,952.22	3/4	3,565.50	3/4	3,177.60	3/4	2,789.62		
3		3		3		3	5,016.15	3	4,676.77	3	4,318.51	3	3,944.26	3	3,557.42	3	3,169.52	3	2,781.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,009.17	1/4	4,669.54	1/4	4,310.88	1/4	3,936.29	1/4	3,549.34	1/4	3,161.43	1/4	2,773.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,002.19	1/2	4,662.31	1/2	4,303.25	1/2	3,928.33	1/2	3,541.25	1/2	3,153.35	1/2	2,765.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,995.26	3/4	4,654.98	3/4	4,295.59	3/4	3,920.35	3/4	3,533.17	3/4	3,145.27	3/4	2,757.29		
4		4		4		4	4,988.33	4	4,647.65	4	4,287.93	4	3,912.36	4	3,525.09	4	3,137.19	4	2,749.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,981.40	1/4	4,640.33	1/4	4,280.27	1/4	3,904.37	1/4	3,517.01	1/4	3,129.11	1/4	2,741.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,974.47	1/2	4,633.00	1/2	4,272.61	1/2	3,896.39	1/2	3,508.93	1/2	3,121.03	1/2	2,733.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,967.51	3/4	4,625.64	3/4	4,264.93	3/4	3,888.37	3/4	3,500.85	3/4	3,112.95	3/4	2,724.95		
5		5		5		5	4,960.56	5	4,618.28	5	4,257.24	5	3,880.34	5	3,492.77	5	3,104.86	5	2,716.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,953.60	1/4	4,610.93	1/4	4,249.56	1/4	3,872.32	1/4	3,484.69	1/4	3,096.78	1/4	2,708.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,946.64	1/2	4,603.57	1/2	4,241.87	1/2	3,864.30	1/2	3,476.60	1/2	3,088.70	1/2	2,700.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,939.66	3/4	4,596.19	3/4	4,234.15	3/4	3,856.26	3/4	3,468.52	3/4	3,080.62	3/4	2,692.62		
6		6		6		6	4,932.67	6	4,588.80	6	4,226.43	6	3,848.22	6	3,460.44	6	3,072.54	6	2,684.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,925.68	1/4	4,581.42	1/4	4,218.72	1/4	3,840.17	1/4	3,452.36	1/4	3,064.46	1/4	2,676.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,918.70	1/2	4,574.04	1/2	4,211.00	1/2	3,832.13	1/2	3,444.28	1/2	3,056.38	1/2	2,668.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,911.68	3/4	4,566.62	3/4	4,203.25	3/4	3,824.06	3/4	3,436.20	3/4	3,048.30	3/4	2,660.29		
7		7		7		7	5,254.61	7	4,904.67	7	4,559.20	7	4,195.51	7	3,815.99	7	3,428.12	7	3,040.21	7	2,652.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,248.55	1/4	4,897.66	1/4	4,551.79	1/4	4,187.77	1/4	3,807.92	1/4	3,420.04	1/4	3,032.13	1/4	2,644.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,242.49	1/2	4,890.65	1/2	4,544.37	1/2	4,180.03	1/2	3,799.86	1/2	3,411.95	1/2	3,024.05	1/2	2,636.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,234.40	3/4	4,883.60	3/4	4,536.93	3/4	4,172.26	3/4	3,791.78	3/4	3,403.87	3/4	3,015.97	3/4	2,627.95
8		8		8		8	5,226.32	8	4,876.56	8	4,529.49	8	4,164.50	8	3,783.69	8	3,395.79	8	3,007.88	8	2,619.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,218.23	1/4	4,869.51	1/4	4,522.05	1/4	4,156.73	1/4	3,775.61	1/4	3,387.71	1/4	2,999.80	1/4	2,611.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,210.15	1/2	4,862.47	1/2	4,514.61	1/2	4,148.96	1/2	3,767.53	1/2	3,379.63	1/2	2,991.72	1/2	2,603.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,202.07	3/4	4,855.40	3/4	4,507.15	3/4	4,141.16	3/4	3,759.45	3/4	3,371.55	3/4	2,983.63	3/4	2,595.62
9		9		9		9	5,193.98	9	4,848.34	9	4,499.68	9	4,133.37	9	3,751.37	9	3,363.47	9	2,975.55	9	2,587.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,185.90	1/4	4,841.27	1/4	4,492.22	1/4	4,125.57	1/4	3,743.29	1/4	3,355.39	1/4	2,967.47	1/4	2,579.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,177.82	1/2	4,834.20	1/2	4,484.75	1/2	4,117.77	1/2	3,735.21	1/2	3,347.30	1/2	2,959.38	1/2	2,571.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,169.73	3/4	4,827.11	3/4	4,477.25	3/4	4,109.94	3/4	3,727.12	3/4	3,339.22	3/4	2,951.30	3/4	2,563.28
10		10		10		10	5,161.65	10	4,820.02	10	4,469.76	10	4,102.12	10	3,719.04	10	3,331.14	10	2,943.21	10	2,555.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,153.57	1/4	4,812.93	1/4	4,462.26	1/4	4,094.30	1/4	3,710.96	1/4	3,323.06	1/4	2,935.13	1/4	2,547.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,145.48	1/2	4,805.84	1/2	4,454.76	1/2	4,086.47	1/2	3,702.88	1/2	3,314.98	1/2	2,927.05	1/2	2,539.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,137.40	3/4	4,798.71	3/4	4,447.24	3/4	4,078.63	3/4	3,694.80	3/4	3,306.90	3/4	2,918.96	3/4	2,530.95
11		11		11		11	5,129.31	11	4,791.59	11	4,439.72	11	4,070.78	11	3,686.72	11	3,298.82	11	2,910.88	11	2,522.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,121.23	1/4	4,784.46	1/4	4,432.20	1/4	4,062.93	1/4	3,678.64	1/4	3,290.73	1/4	2,902.80	1/4	2,514.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,113.15	1/2	4,777.34	1/2	4,424.68	1/2	4,055.08	1/2	3,670.56	1/2	3,282.65	1/2	2,894.71	1/2	2,506.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,106.25	3/4	4,770.19	3/4	4,417.13	3/4	4,047.20	3/4	3,662.47	3/4	3,274.57	3/4	2,886.63	3/4	2,498.61

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'-10" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.

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





BARGE "KIRBY 28045"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

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	2,490.53	0	2,102.51	0	1,714.49	0	1,326.47	0	938.76	0	565.81	0	178.14	0		0			
1/4	2,482.44	1/4	2,094.43	1/4	1,706.41	1/4	1,318.39	1/4	930.83	1/4	557.88	1/4	170.06	1/4		1/4			
1/2	2,474.36	1/2	2,086.34	1/2	1,698.32	1/2	1,310.31	1/2	922.90	1/2	549.95	1/2	161.97	1/2		1/2			
3/4	2,466.28	3/4	2,078.26	3/4	1,690.24	3/4	1,302.22	3/4	915.12	3/4	541.87	3/4	153.89	3/4		3/4			
1	2,458.19	1	2,070.18	1	1,682.16	1	1,294.14	1	907.35	1	533.78	1	145.81	1		1			
1/4	2,450.11	1/4	2,062.09	1/4	1,674.07	1/4	1,286.06	1/4	899.58	1/4	525.70	1/4	137.73	1/4		1/4			
1/2	2,442.03	1/2	2,054.01	1/2	1,665.99	1/2	1,277.97	1/2	891.80	1/2	517.62	1/2	129.64	1/2		1/2			
3/4	2,433.94	3/4	2,045.92	3/4	1,657.91	3/4	1,269.89	3/4	884.04	3/4	509.53	3/4	121.56	3/4		3/4			
2	2,425.86	2	2,037.84	2	1,649.82	2	1,261.81	2	876.28	2	501.45	2	113.48	2		2			
1/4	2,417.77	1/4	2,029.76	1/4	1,641.74	1/4	1,253.72	1/4	868.52	1/4	493.37	1/4	105.39	1/4		1/4			
1/2	2,409.69	1/2	2,021.67	1/2	1,633.66	1/2	1,245.64	1/2	860.76	1/2	485.29	1/2	97.31	1/2		1/2			
3/4	2,401.61	3/4	2,013.59	3/4	1,625.57	3/4	1,237.55	3/4	853.01	3/4	477.20	3/4	89.23	3/4		3/4			
3	2,393.52	3	2,005.51	3	1,617.49	3	1,229.47	3	845.26	3	469.12	3	81.15	3		3			
1/4	2,385.44	1/4	1,997.42	1/4	1,609.40	1/4	1,221.39	1/4	837.51	1/4	461.04	1/4	73.06	1/4		1/4			
1/2	2,377.36	1/2	1,989.34	1/2	1,601.32	1/2	1,213.30	1/2	829.76	1/2	452.95	1/2	64.98	1/2		1/2			
3/4	2,369.27	3/4	1,981.25	3/4	1,593.24	3/4	1,205.22	3/4	822.01	3/4	444.87	3/4	57.91	3/4		3/4			
4	2,361.19	4	1,973.17	4	1,585.15	4	1,197.14	4	814.26	4	436.79	4	50.83	4		4			
1/4	2,353.10	1/4	1,965.09	1/4	1,577.07	1/4	1,189.05	1/4	806.51	1/4	428.71	1/4	43.76	1/4		1/4			
1/2	2,345.02	1/2	1,957.00	1/2	1,568.99	1/2	1,180.97	1/2	798.76	1/2	420.62	1/2	36.69	1/2		1/2			
3/4	2,336.94	3/4	1,948.92	3/4	1,560.90	3/4	1,172.88	3/4	791.01	3/4	412.54	3/4	31.63	3/4		3/4			
5	2,328.85	5	1,940.84	5	1,552.82	5	1,164.80	5	783.26	5	404.46	5	26.58	5		5			
1/4	2,320.77	1/4	1,932.75	1/4	1,544.73	1/4	1,156.72	1/4	775.51	1/4	396.37	1/4	21.53	1/4		1/4			
1/2	2,312.69	1/2	1,924.67	1/2	1,536.65	1/2	1,148.63	1/2	767.76	1/2	388.29	1/2	16.48	1/2		1/2			
3/4	2,304.60	3/4	1,916.58	3/4	1,528.57	3/4	1,140.55	3/4	760.01	3/4	380.21	3/4		3/4		3/4			
6	2,296.52	6	1,908.50	6	1,520.48	6	1,132.47	6	752.26	6	372.13	6		6		6			
1/4	2,288.44	1/4	1,900.42	1/4	1,512.40	1/4	1,124.38	1/4	744.51	1/4	364.04	1/4		1/4		1/4			
1/2	2,280.35	1/2	1,892.33	1/2	1,504.32	1/2	1,116.30	1/2	736.76	1/2	355.96	1/2		1/2		1/2			
3/4	2,272.27	3/4	1,884.25	3/4	1,496.23	3/4	1,108.21	3/4	729.01	3/4	347.88	3/4		3/4		3/4			
7	2,264.18	7	1,876.17	7	1,488.15	7	1,100.13	7	721.26	7	339.80	7		7		7			
1/4	2,256.10	1/4	1,868.08	1/4	1,480.07	1/4	1,092.05	1/4	713.51	1/4	331.71	1/4		1/4		1/4			
1/2	2,248.02	1/2	1,860.00	1/2	1,471.98	1/2	1,083.96	1/2	705.76	1/2	323.63	1/2		1/2		1/2			
3/4	2,239.93	3/4	1,851.92	3/4	1,463.90	3/4	1,075.88	3/4	698.02	3/4	315.55	3/4		3/4		3/4			
8	2,231.85	8	1,843.83	8	1,455.81	8	1,067.80	8	690.27	8	307.46	8		8		8			
1/4	2,223.77	1/4	1,835.75	1/4	1,447.73	1/4	1,059.71	1/4	682.52	1/4	299.38	1/4		1/4		1/4			
1/2	2,215.68	1/2	1,827.66	1/2	1,439.65	1/2	1,051.63	1/2	674.77	1/2	291.30	1/2		1/2		1/2			
3/4	2,207.60	3/4	1,819.58	3/4	1,431.56	3/4	1,043.55	3/4	667.03	3/4	283.22	3/4		3/4		3/4			
9	2,199.51	9	1,811.50	9	1,423.48	9	1,035.46	9	659.28	9	275.13	9		9		9			
1/4	2,191.43	1/4	1,803.41	1/4	1,415.40	1/4	1,027.38	1/4	651.53	1/4	267.05	1/4		1/4		1/4			
1/2	2,183.35	1/2	1,795.33	1/2	1,407.31	1/2	1,019.29	1/2	643.78	1/2	258.97	1/2		1/2		1/2			
3/4	2,175.26	3/4	1,787.25	3/4	1,399.23	3/4	1,011.21	3/4	636.02	3/4	250.88	3/4		3/4		3/4			
10	2,167.18	10	1,779.16	10	1,391.14	10	1,003.13	10	628.27	10	242.80	10		10		10			
1/4	2,159.10	1/4	1,771.08	1/4	1,383.06	1/4	995.04	1/4	620.51	1/4	234.72	1/4		1/4		1/4			
1/2	2,151.01	1/2	1,762.99	1/2	1,374.98	1/2	986.96	1/2	612.75	1/2	226.64	1/2		1/2		1/2			
3/4	2,142.93	3/4	1,754.91	3/4	1,366.89	3/4	978.88	3/4	604.98	3/4	218.55	3/4		3/4		3/4			
11	2,134.84	11	1,746.83	11	1,358.81	11	970.79	11	597.21	11	210.47	11		11		11			
1/4	2,126.76	1/4	1,738.74	1/4	1,350.73	1/4	962.71	1/4	589.43	1/4	202.39	1/4		1/4		1/4			
1/2	2,118.68	1/2	1,730.66	1/2	1,342.64	1/2	954.62	1/2	581.66	1/2	194.30	1/2		1/2		1/2			
3/4	2,110.59	3/4	1,722.58	3/4	1,334.56	3/4	946.69	3/4	573.73	3/4	186.22	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2006 CL - SW
CALCULATED: 05/10/2006 CL
PRINTED: 05/10/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28045"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	4,503.88	0	4,247.84	0	3,979.03	0	3,697.72	0	3,403.57	0	3,048.29	0	2,687.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,498.65	1/4	4,242.40	1/4	3,973.30	1/4	3,691.74	1/4	3,397.02	1/4	3,040.77	1/4	2,679.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,493.39	1/2	4,236.94	1/2	3,967.55	1/2	3,685.74	1/2	3,390.19	1/2	3,033.24	1/2	2,671.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,488.14	3/4	4,231.47	3/4	3,961.79	3/4	3,679.74	3/4	3,383.35	3/4	3,025.71	3/4	2,664.42
1		1		1		1	4,482.89	1	4,226.01	1	3,956.04	1	3,673.74	1	3,376.52	1	3,018.19	1	2,656.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,477.64	1/4	4,220.55	1/4	3,950.29	1/4	3,667.74	1/4	3,369.69	1/4	3,010.66	1/4	2,649.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,472.37	1/2	4,215.06	1/2	3,944.52	1/2	3,661.71	1/2	3,362.59	1/2	3,003.13	1/2	2,641.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,467.10	3/4	4,209.58	3/4	3,938.75	3/4	3,655.68	3/4	3,355.48	3/4	2,995.61	3/4	2,634.31
2		2		2		2	4,461.82	2	4,204.09	2	3,932.97	2	3,649.65	2	3,348.37	2	2,988.08	2	2,626.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,456.55	1/4	4,198.61	1/4	3,927.20	1/4	3,643.63	1/4	3,341.26	1/4	2,980.56	1/4	2,619.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,451.26	1/2	4,193.10	1/2	3,921.41	1/2	3,637.58	1/2	3,333.87	1/2	2,973.03	1/2	2,611.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,445.96	3/4	4,187.60	3/4	3,915.62	3/4	3,631.54	3/4	3,326.49	3/4	2,965.50	3/4	2,604.20
3		3		3		3	4,440.67	3	4,182.09	3	3,909.83	3	3,625.50	3	3,319.10	3	2,957.98	3	2,596.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,435.37	1/4	4,176.59	1/4	3,904.04	1/4	3,619.45	1/4	3,311.71	1/4	2,950.45	1/4	2,589.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,430.10	1/2	4,171.02	1/2	3,898.23	1/2	3,613.39	1/2	3,304.19	1/2	2,942.92	1/2	2,581.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,424.82	3/4	4,165.46	3/4	3,892.41	3/4	3,607.33	3/4	3,296.66	3/4	2,935.40	3/4	2,574.09
4		4		4		4	4,419.54	4	4,159.90	4	3,886.60	4	3,601.27	4	3,289.13	4	2,927.87	4	2,566.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,414.26	1/4	4,154.34	1/4	3,880.79	1/4	3,595.20	1/4	3,281.61	1/4	2,920.35	1/4	2,559.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,408.97	1/2	4,148.76	1/2	3,874.95	1/2	3,589.11	1/2	3,274.08	1/2	2,912.82	1/2	2,551.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,403.67	3/4	4,143.17	3/4	3,869.12	3/4	3,583.03	3/4	3,266.56	3/4	2,905.29	3/4	2,543.98
5		5		5		5	4,398.38	5	4,137.59	5	3,863.29	5	3,576.94	5	3,259.03	5	2,897.77	5	2,536.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,393.08	1/4	4,132.00	1/4	3,857.45	1/4	3,570.85	1/4	3,251.50	1/4	2,890.24	1/4	2,528.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,387.76	1/2	4,126.40	1/2	3,851.59	1/2	3,564.74	1/2	3,243.98	1/2	2,882.71	1/2	2,521.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,382.44	3/4	4,120.79	3/4	3,845.73	3/4	3,558.64	3/4	3,236.45	3/4	2,875.19	3/4	2,513.87
6		6		6		6	4,377.12	6	4,115.19	6	3,839.87	6	3,552.53	6	3,228.92	6	2,867.66	6	2,506.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,371.80	1/4	4,109.59	1/4	3,834.01	1/4	3,546.43	1/4	3,221.40	1/4	2,860.13	1/4	2,498.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,366.46	1/2	4,103.96	1/2	3,828.14	1/2	3,540.30	1/2	3,213.87	1/2	2,852.61	1/2	2,491.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,361.12	3/4	4,098.32	3/4	3,822.26	3/4	3,534.18	3/4	3,206.34	3/4	2,845.08	3/4	2,483.76
7		7		7		7	4,355.78	7	4,092.69	7	3,816.39	7	3,528.05	7	3,198.82	7	2,837.56	7	2,476.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,350.45	1/4	4,087.06	1/4	3,810.51	1/4	3,521.93	1/4	3,191.29	1/4	2,830.03	1/4	2,468.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,345.08	1/2	4,081.42	1/2	3,804.62	1/2	3,515.80	1/2	3,183.77	1/2	2,822.50	1/2	2,461.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,339.72	3/4	4,075.77	3/4	3,798.72	3/4	3,509.66	3/4	3,176.24	3/4	2,814.97	3/4	2,453.64
8		8		8		8	4,334.35	8	4,070.12	8	3,792.82	8	3,503.53	8	3,168.71	8	2,807.45	8	2,446.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,328.99	1/4	4,064.48	1/4	3,786.93	1/4	3,497.39	1/4	3,161.19	1/4	2,799.92	1/4	2,438.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,323.61	1/2	4,058.81	1/2	3,781.01	1/2	3,491.26	1/2	3,153.66	1/2	2,792.39	1/2	2,431.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,318.23	3/4	4,053.14	3/4	3,775.09	3/4	3,485.12	3/4	3,146.13	3/4	2,784.86	3/4	2,423.53
9		9		9		9	4,312.85	9	4,047.48	9	3,769.17	9	3,478.99	9	3,138.61	9	2,777.34	9	2,416.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,307.47	1/4	4,041.81	1/4	3,763.25	1/4	3,472.85	1/4	3,131.08	1/4	2,769.81	1/4	2,408.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,302.07	1/2	4,036.12	1/2	3,757.31	1/2	3,466.72	1/2	3,123.56	1/2	2,762.28	1/2	2,400.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,296.67	3/4	4,030.43	3/4	3,751.37	3/4	3,460.59	3/4	3,116.03	3/4	2,754.75	3/4	2,393.42
10		10		10		10	4,291.27	10	4,024.74	10	3,745.43	10	3,454.45	10	3,108.50	10	2,747.23	10	2,385.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,285.87	1/4	4,019.05	1/4	3,739.49	1/4	3,448.32	1/4	3,100.98	1/4	2,739.70	1/4	2,378.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,280.44	1/2	4,013.34	1/2	3,733.54	1/2	3,442.04	1/2	3,093.45	1/2	2,732.17	1/2	2,370.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,275.02	3/4	4,007.63	3/4	3,727.58	3/4	3,435.77	3/4	3,085.92	3/4	2,724.64	3/4	2,363.31
11		11		11		11	4,269.59	11	4,001.92	11	3,721.62	11	3,429.50	11	3,078.40	11	2,717.11	11	2,355.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,264.17	1/4	3,996.21	1/4	3,715.66	1/4	3,423.22	1/4	3,070.87	1/4	2,709.59	1/4	2,348.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,258.73	1/2	3,990.48	1/2	3,709.68	1/2	3,416.67	1/2	3,063.35	1/2	2,702.06	1/2	2,340.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,253.28	3/4	3,984.75	3/4	3,703.70	3/4	3,410.12	3/4	3,055.82	3/4	2,694.53	3/4	2,332.20

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'-10" OFF CENTERLINE AND 40'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28045"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

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	2,325.67	0	1,964.34	0	1,603.01	0	1,241.68	0	881.13	0	519.84	0	158.52	0		0			
1/4	2,318.15	1/4	1,956.82	1/4	1,595.49	1/4	1,234.16	1/4	873.62	1/4	512.31	1/4	150.99	1/4		1/4			
1/2	2,310.62	1/2	1,949.29	1/2	1,587.96	1/2	1,226.63	1/2	866.10	1/2	504.78	1/2	143.47	1/2		1/2			
3/4	2,303.09	3/4	1,941.76	3/4	1,580.43	3/4	1,219.10	3/4	858.57	3/4	497.25	3/4	135.94	3/4		3/4			
1	2,295.56	1	1,934.23	1	1,572.90	1	1,211.57	1	851.04	1	489.73	1	128.41	1		1			
1/4	2,288.04	1/4	1,926.71	1/4	1,565.38	1/4	1,204.05	1/4	843.51	1/4	482.20	1/4	120.88	1/4		1/4			
1/2	2,280.51	1/2	1,919.18	1/2	1,557.85	1/2	1,196.52	1/2	835.99	1/2	474.67	1/2	113.36	1/2		1/2			
3/4	2,272.98	3/4	1,911.65	3/4	1,550.32	3/4	1,188.99	3/4	828.46	3/4	467.14	3/4	105.83	3/4		3/4			
2	2,265.45	2	1,904.12	2	1,542.79	2	1,181.46	2	820.93	2	459.62	2	98.30	2		2			
1/4	2,257.92	1/4	1,896.59	1/4	1,535.27	1/4	1,173.94	1/4	813.41	1/4	452.09	1/4	90.77	1/4		1/4			
1/2	2,250.40	1/2	1,889.07	1/2	1,527.74	1/2	1,166.41	1/2	805.88	1/2	444.56	1/2	83.25	1/2		1/2			
3/4	2,242.87	3/4	1,881.54	3/4	1,520.21	3/4	1,158.88	3/4	798.35	3/4	437.04	3/4	75.72	3/4		3/4			
3	2,235.34	3	1,874.01	3	1,512.68	3	1,151.35	3	790.82	3	429.51	3	68.19	3		3			
1/4	2,227.81	1/4	1,866.48	1/4	1,505.15	1/4	1,143.82	1/4	783.30	1/4	421.98	1/4	60.67	1/4		1/4			
1/2	2,220.29	1/2	1,858.96	1/2	1,497.63	1/2	1,136.30	1/2	775.77	1/2	414.45	1/2	54.08	1/2		1/2			
3/4	2,212.76	3/4	1,851.43	3/4	1,490.10	3/4	1,128.77	3/4	768.24	3/4	406.93	3/4	47.49	3/4		3/4			
4	2,205.23	4	1,843.90	4	1,482.57	4	1,121.24	4	760.71	4	399.40	4	40.90	4		4			
1/4	2,197.70	1/4	1,836.37	1/4	1,475.04	1/4	1,113.71	1/4	753.19	1/4	391.87	1/4	34.32	1/4		1/4			
1/2	2,190.18	1/2	1,828.85	1/2	1,467.52	1/2	1,106.21	1/2	745.66	1/2	384.34	1/2	29.61	1/2		1/2			
3/4	2,182.65	3/4	1,821.32	3/4	1,459.99	3/4	1,098.71	3/4	738.13	3/4	376.82	3/4	24.91	3/4		3/4			
5	2,175.12	5	1,813.79	5	1,452.46	5	1,091.21	5	730.60	5	369.29	5	20.20	5		5			
1/4	2,167.59	1/4	1,806.26	1/4	1,444.93	1/4	1,083.70	1/4	723.08	1/4	361.76	1/4	15.50	1/4		1/4			
1/2	2,160.06	1/2	1,798.73	1/2	1,437.41	1/2	1,076.20	1/2	715.55	1/2	354.23	1/2		1/2		1/2			
3/4	2,152.54	3/4	1,791.21	3/4	1,429.88	3/4	1,068.70	3/4	708.02	3/4	346.71	3/4		3/4		3/4			
6	2,145.01	6	1,783.68	6	1,422.35	6	1,061.19	6	700.49	6	339.18	6		6		6			
1/4	2,137.48	1/4	1,776.15	1/4	1,414.82	1/4	1,053.69	1/4	692.97	1/4	331.65	1/4		1/4		1/4			
1/2	2,129.95	1/2	1,768.62	1/2	1,407.29	1/2	1,046.19	1/2	685.44	1/2	324.12	1/2		1/2		1/2			
3/4	2,122.43	3/4	1,761.10	3/4	1,399.77	3/4	1,038.69	3/4	677.91	3/4	316.60	3/4		3/4		3/4			
7	2,114.90	7	1,753.57	7	1,392.24	7	1,031.18	7	670.38	7	309.07	7		7		7			
1/4	2,107.37	1/4	1,746.04	1/4	1,384.71	1/4	1,023.68	1/4	662.86	1/4	301.54	1/4		1/4		1/4			
1/2	2,099.84	1/2	1,738.51	1/2	1,377.18	1/2	1,016.18	1/2	655.33	1/2	294.01	1/2		1/2		1/2			
3/4	2,092.32	3/4	1,730.99	3/4	1,369.66	3/4	1,008.67	3/4	647.80	3/4	286.49	3/4		3/4		3/4			
8	2,084.79	8	1,723.46	8	1,362.13	8	1,001.17	8	640.28	8	278.96	8		8		8			
1/4	2,077.26	1/4	1,715.93	1/4	1,354.60	1/4	993.67	1/4	632.75	1/4	271.43	1/4		1/4		1/4			
1/2	2,069.73	1/2	1,708.40	1/2	1,347.07	1/2	986.17	1/2	625.22	1/2	263.91	1/2		1/2		1/2			
3/4	2,062.20	3/4	1,700.87	3/4	1,339.55	3/4	978.66	3/4	617.69	3/4	256.38	3/4		3/4		3/4			
9	2,054.68	9	1,693.35	9	1,332.02	9	971.16	9	610.17	9	248.85	9		9		9			
1/4	2,047.15	1/4	1,685.82	1/4	1,324.49	1/4	963.66	1/4	602.64	1/4	241.32	1/4		1/4		1/4			
1/2	2,039.62	1/2	1,678.29	1/2	1,316.96	1/2	956.16	1/2	595.11	1/2	233.80	1/2		1/2		1/2			
3/4	2,032.09	3/4	1,670.76	3/4	1,309.43	3/4	948.65	3/4	587.58	3/4	226.27	3/4		3/4		3/4			
10	2,024.57	10	1,663.24	10	1,301.91	10	941.15	10	580.06	10	218.74	10		10		10			
1/4	2,017.04	1/4	1,655.71	1/4	1,294.38	1/4	933.65	1/4	572.53	1/4	211.21	1/4		1/4		1/4			
1/2	2,009.51	1/2	1,648.18	1/2	1,286.85	1/2	926.14	1/2	565.00	1/2	203.69	1/2		1/2		1/2			
3/4	2,001.98	3/4	1,640.65	3/4	1,279.32	3/4	918.64	3/4	557.47	3/4	196.16	3/4		3/4		3/4			
11	1,994.46	11	1,633.13	11	1,271.80	11	911.14	11	549.95	11	188.63	11		11		11			
1/4	1,986.93	1/4	1,625.60	1/4	1,264.27	1/4	903.64	1/4	542.42	1/4	181.10	1/4		1/4		1/4			
1/2	1,979.40	1/2	1,618.07	1/2	1,256.74	1/2	896.13	1/2	534.89	1/2	173.58	1/2		1/2		1/2			
3/4	1,971.87	3/4	1,610.54	3/4	1,249.21	3/4	888.63	3/4	527.36	3/4	166.05	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2006 CL - SW
CALCULATED: 05/10/2006 CL
PRINTED: 05/10/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28045"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	4,483.14	0	4,227.50	0	3,959.16	0	3,678.32	0	3,384.95	0	3,031.39	0	2,671.05
1/4		1/4		1/4		1/4	4,477.91	1/4	4,222.06	1/4	3,953.44	1/4	3,672.34	1/4	3,378.41	1/4	3,023.89	1/4	2,663.54
1/2		1/2		1/2		1/2	4,472.68	1/2	4,216.62	1/2	3,947.72	1/2	3,666.36	1/2	3,371.86	1/2	3,016.38	1/2	2,656.03
3/4		3/4		3/4		3/4	4,467.43	3/4	4,211.16	3/4	3,941.97	3/4	3,660.37	3/4	3,365.03	3/4	3,008.87	3/4	2,648.52
1		1		1		1	4,462.18	1	4,205.70	1	3,936.22	1	3,654.37	1	3,358.21	1	3,001.37	1	2,641.02
1/4		1/4		1/4		1/4	4,456.93	1/4	4,200.24	1/4	3,930.47	1/4	3,648.38	1/4	3,351.38	1/4	2,993.86	1/4	2,633.51
1/2		1/2		1/2		1/2	4,451.69	1/2	4,194.79	1/2	3,924.72	1/2	3,642.38	1/2	3,344.56	1/2	2,986.35	1/2	2,626.00
3/4		3/4		3/4		3/4	4,446.42	3/4	4,189.30	3/4	3,918.96	3/4	3,636.36	3/4	3,337.45	3/4	2,978.85	3/4	2,618.49
2		2		2		2	4,441.15	2	4,183.82	2	3,913.19	2	3,630.33	2	3,330.35	2	2,971.34	2	2,610.98
1/4		1/4		1/4		1/4	4,435.88	1/4	4,178.34	1/4	3,907.42	1/4	3,624.31	1/4	3,323.25	1/4	2,963.83	1/4	2,603.48
1/2		1/2		1/2		1/2	4,430.62	1/2	4,172.86	1/2	3,901.66	1/2	3,618.29	1/2	3,316.14	1/2	2,956.33	1/2	2,595.97
3/4		3/4		3/4		3/4	4,425.32	3/4	4,167.36	3/4	3,895.87	3/4	3,612.25	3/4	3,308.76	3/4	2,948.82	3/4	2,588.46
3		3		3		3	4,420.03	3	4,161.86	3	3,890.08	3	3,606.21	3	3,301.38	3	2,941.31	3	2,580.95
1/4		1/4		1/4		1/4	4,414.74	1/4	4,156.36	1/4	3,884.30	1/4	3,600.17	1/4	3,294.00	1/4	2,933.81	1/4	2,573.44
1/2		1/2		1/2		1/2	4,409.45	1/2	4,150.86	1/2	3,878.51	1/2	3,594.13	1/2	3,286.62	1/2	2,926.30	1/2	2,565.94
3/4		3/4		3/4		3/4	4,404.18	3/4	4,145.30	3/4	3,872.70	3/4	3,588.08	3/4	3,279.11	3/4	2,918.79	3/4	2,558.43
4		4		4		4	4,398.90	4	4,139.74	4	3,866.89	4	3,582.02	4	3,271.61	4	2,911.29	4	2,550.92
1/4		1/4		1/4		1/4	4,393.63	1/4	4,134.18	1/4	3,861.08	1/4	3,575.96	1/4	3,264.10	1/4	2,903.78	1/4	2,543.41
1/2		1/2		1/2		1/2	4,388.36	1/2	4,128.63	1/2	3,855.27	1/2	3,569.90	1/2	3,256.59	1/2	2,896.27	1/2	2,535.90
3/4		3/4		3/4		3/4	4,383.07	3/4	4,123.05	3/4	3,849.44	3/4	3,563.82	3/4	3,249.09	3/4	2,888.77	3/4	2,528.40
5		5		5		5	4,377.77	5	4,117.47	5	3,843.61	5	3,557.73	5	3,241.58	5	2,881.26	5	2,520.89
1/4		1/4		1/4		1/4	4,372.48	1/4	4,111.88	1/4	3,837.79	1/4	3,551.65	1/4	3,234.07	1/4	2,873.75	1/4	2,513.38
1/2		1/2		1/2		1/2	4,367.19	1/2	4,106.30	1/2	3,831.96	1/2	3,545.57	1/2	3,226.57	1/2	2,866.25	1/2	2,505.87
3/4		3/4		3/4		3/4	4,361.87	3/4	4,100.70	3/4	3,826.10	3/4	3,539.46	3/4	3,219.06	3/4	2,858.74	3/4	2,498.36
6		6		6		6	4,356.56	6	4,095.10	6	3,820.25	6	3,533.36	6	3,211.55	6	2,851.23	6	2,490.86
1/4		1/4		1/4		1/4	4,351.24	1/4	4,089.50	1/4	3,814.39	1/4	3,527.26	1/4	3,204.05	1/4	2,843.73	1/4	2,483.35
1/2		1/2		1/2		1/2	4,345.93	1/2	4,083.90	1/2	3,808.54	1/2	3,521.16	1/2	3,196.54	1/2	2,836.22	1/2	2,475.84
3/4		3/4		3/4		3/4	4,340.59	3/4	4,078.28	3/4	3,802.66	3/4	3,515.04	3/4	3,189.03	3/4	2,828.71	3/4	2,468.34
7		7		7	4,600.90	7	4,335.26	7	4,072.65	7	3,796.79	7	3,508.92	7	3,181.53	7	2,821.21	7	2,460.83
1/4		1/4		1/4	4,596.30	1/4	4,329.92	1/4	4,067.03	1/4	3,790.92	1/4	3,502.80	1/4	3,174.02	1/4	2,813.70	1/4	2,453.33
1/2		1/2		1/2	4,591.70	1/2	4,324.59	1/2	4,061.40	1/2	3,785.05	1/2	3,496.68	1/2	3,166.51	1/2	2,806.19	1/2	2,445.82
3/4		3/4		3/4	4,585.56	3/4	4,319.23	3/4	4,055.76	3/4	3,779.16	3/4	3,490.55	3/4	3,159.01	3/4	2,798.68	3/4	2,438.32
8		8		8	4,579.43	8	4,313.87	8	4,050.11	8	3,773.27	8	3,484.42	8	3,151.50	8	2,791.18	8	2,430.81
1/4		1/4		1/4	4,573.30	1/4	4,308.51	1/4	4,044.47	1/4	3,767.38	1/4	3,478.29	1/4	3,143.99	1/4	2,783.67	1/4	2,423.31
1/2		1/2		1/2	4,567.17	1/2	4,303.15	1/2	4,038.83	1/2	3,761.49	1/2	3,472.16	1/2	3,136.49	1/2	2,776.16	1/2	2,415.81
3/4		3/4		3/4	4,561.04	3/4	4,297.77	3/4	4,033.17	3/4	3,755.57	3/4	3,466.03	3/4	3,128.98	3/4	2,768.65	3/4	2,408.30
9		9		9	4,554.91	9	4,292.39	9	4,027.50	9	3,749.65	9	3,459.90	9	3,121.47	9	2,761.14	9	2,400.80
1/4		1/4		1/4	4,548.78	1/4	4,287.02	1/4	4,021.84	1/4	3,743.74	1/4	3,453.77	1/4	3,113.97	1/4	2,753.64	1/4	2,393.29
1/2		1/2		1/2	4,542.65	1/2	4,281.64	1/2	4,016.18	1/2	3,737.82	1/2	3,447.64	1/2	3,106.46	1/2	2,746.13	1/2	2,385.79
3/4		3/4		3/4	4,536.52	3/4	4,276.24	3/4	4,010.49	3/4	3,731.89	3/4	3,441.51	3/4	3,098.95	3/4	2,738.62	3/4	2,378.28
10		10		10	4,530.38	10	4,270.85	10	4,004.81	10	3,725.95	10	3,435.38	10	3,091.45	10	2,731.11	10	2,370.78
1/4		1/4		1/4	4,524.25	1/4	4,265.45	1/4	3,999.12	1/4	3,720.02	1/4	3,429.25	1/4	3,083.94	1/4	2,723.60	1/4	2,363.28
1/2		1/2		1/2	4,518.12	1/2	4,260.06	1/2	3,993.43	1/2	3,714.09	1/2	3,423.12	1/2	3,076.43	1/2	2,716.10	1/2	2,355.77
3/4		3/4		3/4	4,511.99	3/4	4,254.64	3/4	3,987.73	3/4	3,708.13	3/4	3,416.85	3/4	3,068.93	3/4	2,708.59	3/4	2,348.27
11		11		11	4,505.86	11	4,249.21	11	3,982.02	11	3,702.18	11	3,410.59	11	3,061.42	11	2,701.08	11	2,340.76
1/4		1/4		1/4	4,499.73	1/4	4,243.79	1/4	3,976.32	1/4	3,696.23	1/4	3,404.32	1/4	3,053.91	1/4	2,693.57	1/4	2,333.26
1/2		1/2		1/2	4,493.60	1/2	4,238.37	1/2	3,970.61	1/2	3,690.27	1/2	3,398.05	1/2	3,046.41	1/2	2,686.06	1/2	2,325.75
3/4		3/4		3/4	4,488.37	3/4	4,232.93	3/4	3,964.89	3/4	3,684.30	3/4	3,391.50	3/4	3,038.90	3/4	2,678.56	3/4	2,318.25

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'-10" OFF CENTERLINE AND 40'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28045"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

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	2,310.75	0	1,951.51	0	1,593.06	0	1,232.64	0	878.70	0	525.91	0	165.92	0		0			
1/4	2,303.24	1/4	1,944.07	1/4	1,585.56	1/4	1,225.13	1/4	871.33	1/4	518.54	1/4	158.40	1/4		1/4			
1/2	2,295.74	1/2	1,936.63	1/2	1,578.05	1/2	1,217.62	1/2	863.96	1/2	511.17	1/2	150.87	1/2		1/2			
3/4	2,288.23	3/4	1,929.19	3/4	1,570.54	3/4	1,210.25	3/4	856.59	3/4	503.73	3/4	143.35	3/4		3/4			
1	2,280.72	1	1,921.74	1	1,563.03	1	1,202.87	1	849.22	1	496.28	1	135.83	1		1			
1/4	2,273.21	1/4	1,914.30	1/4	1,555.52	1/4	1,195.50	1/4	841.85	1/4	488.84	1/4	128.31	1/4		1/4			
1/2	2,265.70	1/2	1,906.86	1/2	1,548.01	1/2	1,188.13	1/2	834.48	1/2	481.40	1/2	120.79	1/2		1/2			
3/4	2,258.19	3/4	1,899.41	3/4	1,540.50	3/4	1,180.76	3/4	827.11	3/4	473.89	3/4	113.27	3/4		3/4			
2	2,250.68	2	1,891.97	2	1,532.99	2	1,173.38	2	819.74	2	466.38	2	105.75	2		2			
1/4	2,243.18	1/4	1,884.53	1/4	1,525.48	1/4	1,166.01	1/4	812.37	1/4	458.87	1/4	98.22	1/4		1/4			
1/2	2,235.67	1/2	1,877.08	1/2	1,517.98	1/2	1,158.64	1/2	805.00	1/2	451.36	1/2	90.70	1/2		1/2			
3/4	2,228.16	3/4	1,869.64	3/4	1,510.47	3/4	1,151.27	3/4	797.65	3/4	443.85	3/4	83.18	3/4		3/4			
3	2,220.65	3	1,862.20	3	1,502.96	3	1,143.90	3	790.30	3	436.34	3	75.66	3		3			
1/4	2,213.14	1/4	1,854.76	1/4	1,495.45	1/4	1,136.52	1/4	782.95	1/4	428.83	1/4	68.14	1/4		1/4			
1/2	2,205.63	1/2	1,847.31	1/2	1,487.94	1/2	1,129.15	1/2	775.59	1/2	421.32	1/2	60.62	1/2		1/2			
3/4	2,198.12	3/4	1,839.87	3/4	1,480.43	3/4	1,121.78	3/4	768.25	3/4	413.81	3/4	54.03	3/4		3/4			
4	2,190.61	4	1,832.43	4	1,472.92	4	1,114.41	4	760.91	4	406.30	4	47.45	4		4			
1/4	2,183.10	1/4	1,824.98	1/4	1,465.41	1/4	1,107.03	1/4	753.58	1/4	398.79	1/4	40.87	1/4		1/4			
1/2	2,175.60	1/2	1,817.54	1/2	1,457.90	1/2	1,099.66	1/2	746.24	1/2	391.28	1/2	34.29	1/2		1/2			
3/4	2,168.09	3/4	1,810.10	3/4	1,450.39	3/4	1,092.30	3/4	738.90	3/4	383.77	3/4	29.59	3/4		3/4			
5	2,160.58	5	1,802.65	5	1,442.89	5	1,084.93	5	731.56	5	376.26	5	24.89	5		5			
1/4	2,153.07	1/4	1,795.21	1/4	1,435.38	1/4	1,077.56	1/4	724.22	1/4	368.75	1/4	20.19	1/4		1/4			
1/2	2,145.56	1/2	1,787.77	1/2	1,427.87	1/2	1,070.20	1/2	716.88	1/2	361.24	1/2	15.49	1/2		1/2			
3/4	2,138.05	3/4	1,780.33	3/4	1,420.36	3/4	1,062.83	3/4	709.54	3/4	353.73	3/4		3/4		3/4			
6	2,130.54	6	1,772.88	6	1,412.85	6	1,055.47	6	702.20	6	346.22	6		6		6			
1/4	2,123.03	1/4	1,765.44	1/4	1,405.34	1/4	1,048.10	1/4	694.86	1/4	338.71	1/4		1/4		1/4			
1/2	2,115.52	1/2	1,758.00	1/2	1,397.83	1/2	1,040.74	1/2	687.52	1/2	331.20	1/2		1/2		1/2			
3/4	2,108.01	3/4	1,750.55	3/4	1,390.32	3/4	1,033.37	3/4	680.18	3/4	323.69	3/4		3/4		3/4			
7	2,100.51	7	1,743.11	7	1,382.81	7	1,026.01	7	672.83	7	316.18	7		7		7			
1/4	2,093.00	1/4	1,735.67	1/4	1,375.31	1/4	1,018.64	1/4	665.49	1/4	308.67	1/4		1/4		1/4			
1/2	2,085.49	1/2	1,728.22	1/2	1,367.80	1/2	1,011.27	1/2	658.15	1/2	301.17	1/2		1/2		1/2			
3/4	2,078.05	3/4	1,720.72	3/4	1,360.29	3/4	1,003.91	3/4	650.81	3/4	293.66	3/4		3/4		3/4			
8	2,070.60	8	1,713.21	8	1,352.78	8	996.54	8	643.47	8	286.15	8		8		8			
1/4	2,063.16	1/4	1,705.70	1/4	1,345.27	1/4	989.18	1/4	636.13	1/4	278.64	1/4		1/4		1/4			
1/2	2,055.72	1/2	1,698.19	1/2	1,337.76	1/2	981.81	1/2	628.79	1/2	271.13	1/2		1/2		1/2			
3/4	2,048.27	3/4	1,690.68	3/4	1,330.25	3/4	974.45	3/4	621.45	3/4	263.62	3/4		3/4		3/4			
9	2,040.83	9	1,683.17	9	1,322.74	9	967.08	9	614.11	9	256.11	9		9		9			
1/4	2,033.39	1/4	1,675.66	1/4	1,315.23	1/4	959.72	1/4	606.77	1/4	248.60	1/4		1/4		1/4			
1/2	2,025.94	1/2	1,668.15	1/2	1,307.73	1/2	952.35	1/2	599.43	1/2	241.09	1/2		1/2		1/2			
3/4	2,018.50	3/4	1,660.64	3/4	1,300.22	3/4	944.99	3/4	592.09	3/4	233.58	3/4		3/4		3/4			
10	2,011.06	10	1,653.14	10	1,292.71	10	937.62	10	584.74	10	226.07	10		10		10			
1/4	2,003.62	1/4	1,645.63	1/4	1,285.20	1/4	930.25	1/4	577.40	1/4	218.56	1/4		1/4		1/4			
1/2	1,996.17	1/2	1,638.12	1/2	1,277.69	1/2	922.89	1/2	570.06	1/2	211.05	1/2		1/2		1/2			
3/4	1,988.73	3/4	1,630.61	3/4	1,270.18	3/4	915.52	3/4	562.71	3/4	203.53	3/4		3/4		3/4			
11	1,981.29	11	1,623.10	11	1,262.67	11	908.16	11	555.36	11	196.00	11		11		11			
1/4	1,973.84	1/4	1,615.59	1/4	1,255.16	1/4	900.79	1/4	548.00	1/4	188.48	1/4		1/4		1/4			
1/2	1,966.40	1/2	1,608.08	1/2	1,247.65	1/2	893.43	1/2	540.65	1/2	180.96	1/2		1/2		1/2			
3/4	1,958.96	3/4	1,600.57	3/4	1,240.15	3/4	886.06	3/4	533.28	3/4	173.44	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2006 CL - SW
CALCULATED: 05/10/2006 CL
PRINTED: 05/10/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.

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