



KIRBY 28049



Barge Strapping Tables





BARGE "KIRBY 28049"

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	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 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	- 00-1/2	00-1/2	- 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	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
3 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

(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: 236'-09"

October 19, 2006

PRECISION MEASUREMENT
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P.O. Box 2092
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<http://www.pmacorp.net>

1 PORT

ULLAGE TABLE

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

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS																			
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
0		0		0	4,208.45	0	3,919.92	0	3,617.12	0	3,300.40	0	2,971.38	0	2,640.16	0	2,308.92		
1/4	1/4	1/4	1/4	1/4	4,202.54	1/4	3,913.77	1/4	3,610.65	1/4	3,293.65	1/4	2,964.48	1/4	2,633.26	1/4	2,302.02		
1/2	1/2	1/2	1/2	1/2	4,196.63	1/2	3,907.62	1/2	3,604.18	1/2	3,286.90	1/2	2,957.58	1/2	2,626.36	1/2	2,295.12		
3/4	3/4	3/4	3/4	3/4	4,190.73	3/4	3,901.47	3/4	3,597.71	3/4	3,280.15	3/4	2,950.68	3/4	2,619.46	3/4	2,288.22		
1	1	1	1	1	4,184.82	1	3,895.32	1	3,591.24	1	3,273.40	1	2,943.78	1	2,612.56	1	2,281.32		
1/4	1/4	1/4	1/4	1/4	4,178.89	1/4	3,889.14	1/4	3,584.75	1/4	3,266.62	1/4	2,936.88	1/4	2,605.66	1/4	2,274.42		
1/2	1/2	1/2	1/2	1/2	4,172.96	1/2	3,882.96	1/2	3,578.25	1/2	3,259.84	1/2	2,929.98	1/2	2,598.76	1/2	2,267.51		
3/4	3/4	3/4	3/4	3/4	4,167.03	3/4	3,876.78	3/4	3,571.76	3/4	3,253.06	3/4	2,923.08	3/4	2,591.86	3/4	2,260.61		
2	2	2	2	2	4,161.10	2	3,870.60	2	3,565.27	2	3,246.28	2	2,916.18	2	2,584.96	2	2,253.71		
1/4	1/4	1/4	1/4	1/4	4,155.15	1/4	3,864.40	1/4	3,558.76	1/4	3,239.48	1/4	2,909.28	1/4	2,578.06	1/4	2,246.81		
1/2	1/2	1/2	1/2	1/2	4,149.19	1/2	3,858.20	1/2	3,552.24	1/2	3,232.68	1/2	2,902.38	1/2	2,571.16	1/2	2,239.91		
3/4	3/4	3/4	3/4	3/4	4,143.23	3/4	3,852.00	3/4	3,545.73	3/4	3,225.89	3/4	2,895.48	3/4	2,564.26	3/4	2,233.01		
3	3	3	3	3	4,137.28	3	3,845.80	3	3,539.22	3	3,219.09	3	2,888.57	3	2,557.36	3	2,226.10		
1/4	1/4	1/4	1/4	1/4	4,131.33	1/4	3,839.54	1/4	3,532.68	1/4	3,212.27	1/4	2,881.67	1/4	2,550.46	1/4	2,219.20		
1/2	1/2	1/2	1/2	1/2	4,125.39	1/2	3,833.29	1/2	3,526.14	1/2	3,205.45	1/2	2,874.77	1/2	2,543.56	1/2	2,212.30		
3/4	3/4	3/4	3/4	3/4	4,119.45	3/4	3,827.03	3/4	3,519.60	3/4	3,198.63	3/4	2,867.87	3/4	2,536.66	3/4	2,205.40		
4	4	4	4	4	4,113.50	4	3,820.78	4	3,513.06	4	3,191.81	4	2,860.97	4	2,529.76	4	2,198.50		
1/4	1/4	1/4	1/4	1/4	4,107.54	1/4	3,814.49	1/4	3,506.49	1/4	3,184.96	1/4	2,854.07	1/4	2,522.86	1/4	2,191.60		
1/2	1/2	1/2	1/2	1/2	4,101.57	1/2	3,808.21	1/2	3,499.93	1/2	3,178.11	1/2	2,847.17	1/2	2,515.96	1/2	2,184.69		
3/4	3/4	3/4	3/4	3/4	4,095.61	3/4	3,801.93	3/4	3,493.37	3/4	3,171.26	3/4	2,840.27	3/4	2,509.06	3/4	2,177.79		
5	5	5	5	5	4,089.64	5	3,795.65	5	3,486.81	5	3,164.41	5	2,833.37	5	2,502.16	5	2,170.89		
1/4	1/4	1/4	1/4	1/4	4,083.65	1/4	3,789.34	1/4	3,480.22	1/4	3,157.55	1/4	2,826.47	1/4	2,495.26	1/4	2,163.99		
1/2	1/2	1/2	1/2	1/2	4,077.66	1/2	3,783.04	1/2	3,473.63	1/2	3,150.68	1/2	2,819.57	1/2	2,488.36	1/2	2,157.09		
3/4	3/4	3/4	3/4	3/4	4,071.67	3/4	3,776.73	3/4	3,467.04	3/4	3,143.81	3/4	2,812.67	3/4	2,481.46	3/4	2,150.19		
6	6	6	6	6	4,065.67	6	3,770.43	6	3,460.44	6	3,136.94	6	2,805.77	6	2,474.56	6	2,143.29		
1/4	1/4	1/4	1/4	1/4	4,059.66	1/4	3,764.10	1/4	3,453.83	1/4	3,130.05	1/4	2,798.87	1/4	2,467.66	1/4	2,136.38		
1/2	1/2	1/2	1/2	1/2	4,053.65	1/2	3,757.76	1/2	3,447.22	1/2	3,123.16	1/2	2,791.97	1/2	2,460.76	1/2	2,129.48		
3/4	3/4	3/4	3/4	3/4	4,047.63	3/4	3,751.43	3/4	3,440.61	3/4	3,116.27	3/4	2,785.07	3/4	2,453.86	3/4	2,122.58		
7	7	7	7	7	4,041.62	7	3,745.10	7	3,434.00	7	3,109.38	7	2,778.17	7	2,446.96	7	2,115.68		
1/4	1/4	1/4	1/4	1/4	4,035.58	1/4	3,738.75	1/4	3,427.37	1/4	3,102.48	1/4	2,771.27	1/4	2,440.05	1/4	2,108.78		
1/2	1/2	1/2	1/2	1/2	4,029.54	1/2	3,732.39	1/2	3,420.74	1/2	3,095.58	1/2	2,764.37	1/2	2,433.15	1/2	2,101.88		
3/4	3/4	3/4	3/4	3/4	4,023.50	3/4	3,726.04	3/4	3,414.11	3/4	3,088.68	3/4	2,757.47	3/4	2,426.25	3/4	2,094.97		
8	8	8	8	8	4,017.46	8	3,719.69	8	3,408.17	8	3,081.78	8	2,750.57	8	2,419.35	8	2,088.07		
1/4	1/4	1/4	1/4	1/4	4,011.40	1/4	3,713.32	1/4	3,400.82	1/4	3,074.88	1/4	2,743.67	1/4	2,412.45	1/4	2,081.17		
1/2	1/2	1/2	1/2	1/2	4,005.34	1/2	3,706.94	1/2	3,394.16	1/2	3,067.98	1/2	2,736.77	1/2	2,405.55	1/2	2,074.27		
3/4	3/4	3/4	3/4	3/4	3,999.27	3/4	3,700.57	3/4	3,387.50	3/4	3,061.08	3/4	2,729.87	3/4	2,398.64	3/4	2,067.37		
9	9	9	9	9	3,993.21	9	3,694.19	9	3,380.84	9	3,054.18	9	2,722.97	9	2,391.74	9	2,060.47		
1/4	1/4	1/4	1/4	1/4	3,987.13	1/4	3,687.79	1/4	3,374.16	1/4	3,047.28	1/4	2,716.07	1/4	2,384.84	1/4	2,053.56		
1/2	1/2	1/2	1/2	1/2	3,981.05	1/2	3,681.39	1/2	3,367.48	1/2	3,040.38	1/2	2,709.17	1/2	2,377.94	1/2	2,046.66		
3/4	3/4	3/4	3/4	3/4	3,974.97	3/4	3,674.99	3/4	3,360.80	3/4	3,033.48	3/4	2,702.27	3/4	2,371.04	3/4	2,039.76		
10	10	10	10	10	3,968.89	10	3,668.59	10	3,354.12	10	3,026.58	10	2,695.37	10	2,364.14	10	2,032.86		
1/4	1/4	1/4	1/4	1/4	3,962.78	1/4	3,662.16	1/4	3,347.42	1/4	3,019.68	1/4	2,688.47	1/4	2,357.23	1/4	2,025.96		
1/2	1/2	1/2	1/2	1/2	3,956.67	1/2	3,655.74	1/2	3,340.72	1/2	3,012.78	1/2	2,681.57	1/2	2,350.33	1/2	2,019.06		
3/4	3/4	3/4	3/4	3/4	3,950.56	3/4	3,649.32	3/4	3,334.01	3/4	3,005.88	3/4	2,674.67	3/4	2,343.43	3/4	2,012.15		
11	11	11	11	11	3,944.45	11	3,642.90	11	3,327.31	11	2,998.98	11	2,667.77	11	2,336.53	11	2,005.25		
1/4	1/4	1/4	1/4	1/4	3,938.32	1/4	3,636.45	1/4	3,320.58	1/4	2,992.08	1/4	2,660.86	1/4	2,329.63	1/4	1,998.35		
1/2	1/2	1/2	1/2	1/2	3,932.18	1/2	3,630.01	1/2	3,313.66	1/2	2,985.18	1/2	2,653.96	1/2	2,322.73	1/2	1,991.45		
3/4	3/4	3/4	3/4	3/4	3,926.05	3/4	3,623.57	3/4	3,307.13	3/4	2,978.28	3/4	2,647.06	3/4	2,315.83	3/4	1,984.55		

647.06	3/4	2,313.63	3/4	1,984.33
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BARGE STRAPPED AND COMPIED 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'-08" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

ANALYSIS INC.

P O Box 21092

7507 YOT -0-4
dind Texns 77589

Featured, Texas 11508
http://www.pmacorp.net



BARGE "KIRBY 28049"

1 PORT ULLAGE TABLE

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

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
0	1,977.65	0	1,646.37	0	1,315.09	0	984.15	0	668.05	0	375.02	0	105.58	0	0	0	0	0	0
1/4	1,970.75	1/4	1,639.47	1/4	1,308.19	1/4	977.33	1/4	661.72	1/4	369.18	1/4	100.23	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,963.84	1/2	1,632.57	1/2	1,301.29	1/2	970.51	1/2	655.39	1/2	363.34	1/2	94.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,956.94	3/4	1,625.67	3/4	1,294.39	3/4	963.69	3/4	649.06	3/4	357.50	3/4	89.54	3/4	3/4	3/4	3/4	3/4	3/4
1	1,950.04	1	1,618.78	1	1,287.49	1	956.87	1	642.73	1	351.66	1	84.19	1	1	1	1	1	1
1/4	1,943.14	1/4	1,611.88	1/4	1,280.59	1/4	950.11	1/4	636.44	1/4	345.87	1/4	78.89	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,936.24	1/2	1,604.96	1/2	1,273.68	1/2	943.34	1/2	630.15	1/2	340.07	1/2	73.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,929.34	3/4	1,598.06	3/4	1,266.78	3/4	936.58	3/4	623.86	3/4	334.28	3/4	68.28	3/4	3/4	3/4	3/4	3/4	3/4
2	1,922.43	2	1,591.16	2	1,259.88	2	929.81	2	617.57	2	328.48	2	62.98	2	2	2	2	2	2
1/4	1,915.53	1/4	1,584.26	1/4	1,252.98	1/4	923.09	1/4	611.33	1/4	322.72	1/4	57.72	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,908.63	1/2	1,577.35	1/2	1,246.08	1/2	916.37	1/2	605.08	1/2	316.96	1/2	52.45	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,901.73	3/4	1,570.45	3/4	1,239.18	3/4	909.64	3/4	598.83	3/4	311.20	3/4	47.19	3/4	3/4	3/4	3/4	3/4	3/4
3	1,894.83	3	1,563.55	3	1,232.27	3	902.92	3	592.58	3	305.45	3	41.92	3	3	3	3	3	3
1/4	1,887.93	1/4	1,556.65	1/4	1,225.37	1/4	896.24	1/4	586.37	1/4	299.73	1/4	37.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,881.02	1/2	1,549.75	1/2	1,218.47	1/2	889.55	1/2	580.17	1/2	294.02	1/2	33.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,874.12	3/4	1,542.85	3/4	1,211.57	3/4	882.87	3/4	573.96	3/4	288.30	3/4	28.85	3/4	3/4	3/4	3/4	3/4	3/4
4	1,867.22	4	1,535.94	4	1,204.67	4	876.19	4	567.75	4	282.59	4	24.50	4	4	4	4	4	4
1/4	1,860.32	1/4	1,529.04	1/4	1,197.77	1/4	869.55	1/4	561.59	1/4	276.91	1/4	21.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,853.42	1/2	1,522.14	1/2	1,190.86	1/2	862.91	1/2	555.42	1/2	271.24	1/2	19.31	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,846.52	3/4	1,515.24	3/4	1,183.96	3/4	856.26	3/4	549.25	3/4	265.56	3/4	16.72	3/4	3/4	3/4	3/4	3/4	3/4
5	1,839.61	5	1,508.34	5	1,177.06	5	849.62	5	543.09	5	259.88	5	14.13	5	5	5	5	5	5
1/4	1,832.71	1/4	1,501.44	1/4	1,170.16	1/4	843.02	1/4	536.96	1/4	254.25	1/4	11.54	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,825.81	1/2	1,494.53	1/2	1,163.26	1/2	836.42	1/2	530.84	1/2	248.62	1/2	9.95	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,818.91	3/4	1,487.63	3/4	1,156.36	3/4	829.82	3/4	524.71	3/4	242.99	3/4	8.36	3/4	3/4	3/4	3/4	3/4	3/4
6	1,812.01	6	1,480.73	6	1,149.45	6	823.22	6	518.59	6	237.35	6	6.77	6	6	6	6	6	6
1/4	1,805.11	1/4	1,473.83	1/4	1,142.55	1/4	816.66	1/4	512.50	1/4	231.76	1/4	5.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,798.21	1/2	1,466.93	1/2	1,135.65	1/2	810.10	1/2	506.42	1/2	226.16	1/2	3.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,791.30	3/4	1,460.03	3/4	1,128.75	3/4	803.54	3/4	500.33	3/4	220.57	3/4	2.00	3/4	3/4	3/4	3/4	3/4	3/4
7	1,784.40	7	1,453.13	7	1,121.85	7	796.98	7	494.25	7	214.97	7	0.41	7	7	7	7	7	7
1/4	1,777.50	1/4	1,446.22	1/4	1,114.95	1/4	790.46	1/4	488.21	1/4	209.42	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,770.60	1/2	1,439.32	1/2	1,108.05	1/2	783.94	1/2	482.16	1/2	203.87	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,763.70	3/4	1,432.42	3/4	1,101.14	3/4	777.42	3/4	476.12	3/4	198.32	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
8	1,756.80	8	1,425.52	8	1,094.24	8	770.90	8	470.08	8	192.77	8	0.00	8	8	8	8	8	8
1/4	1,749.89	1/4	1,418.62	1/4	1,087.34	1/4	764.43	1/4	464.07	1/4	187.26	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,742.99	1/2	1,411.72	1/2	1,080.44	1/2	757.95	1/2	458.07	1/2	181.75	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,736.09	3/4	1,404.81	3/4	1,073.54	3/4	751.47	3/4	452.07	3/4	176.23	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	1,729.19	9	1,397.91	9	1,066.64	9	744.99	9	446.07	9	170.72	9	0.00	9	9	9	9	9	9
1/4	1,722.29	1/4	1,391.01	1/4	1,059.75	1/4	738.54	1/4	440.10	1/4	165.25	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.39	1/2	1,384.11	1/2	1,052.86	1/2	732.09	1/2	434.14	1/2	159.78	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.48	3/4	1,377.21	3/4	1,045.96	3/4	725.63	3/4	428.18	3/4	154.32	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	1,701.58	10	1,370.31	10	1,039.07	10	719.18	10	422.22	10	148.85	10	0.00	10	10	10	10	10	10
1/4	1,694.68	1/4	1,363.40	1/4	1,032.19	1/4	712.77	1/4	416.30	1/4	143.42	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,687.78	1/2	1,356.50	1/2	1,025.32	1/2	706.36	1/2	410.38	1/2	137.98	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,680.88	3/4	1,349.60	3/4	1,018.44	3/4	699.94	3/4	404.46	3/4	132.55	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	1,673.98	11	1,342.70	11	1,011.56	11	693.53	11	398.54	11	127.12	11	0.00	11	11	11	11	11	11
1/4	1,667.07	1/4	1,335.80	1/4	1,004.71	1/4	687.16	1/4	392.66	1/4	121.73	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,660.17	1/2	1,328.90	1/2	997.86	1/2	680.79	1/2	386.78	1/2	116.35	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,653.27	3/4	1,321.99	3/4	991.00	3/4	674.42	3/4	380.90	3/4	110.96	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2006 CL - SW
CALCULATED: 10/19/2006 CL
PRINTED: 10/19/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77583
http://www.pmacorp.net

Paul J. Pearson



BARGE "KIRBY 28049"

1 STBD

ULLAGE TABLE

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

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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE ONLY APPLIES 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 37'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Portland, Texas 77588

http://www.pmacorp.net

[Signature]



BARGE "KIRBY 28049"

1 STBD

ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/4"

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	1,981.73	0	1,650.63	0	988.80	0	674.05	0	380.69	0
1/4	1,974.84	1/4	1,643.73	1/4	981.98	1/4	667.69	1/4	374.82	1/4
1/2	1,967.94	1/2	1,636.83	1/2	975.20	1/2	661.36	1/2	368.98	1/2
3/4	1,961.04	3/4	1,629.94	3/4	968.42	3/4	655.03	3/4	363.15	3/4
1	1,954.14	1	1,623.04	1	961.64	1	648.71	1	357.31	1
1 1/4	1,947.24	1 1/4	1,616.14	1 1/4	954.86	1 1/4	642.38	1 1/4	351.47	1 1/4
1 1/2	1,940.35	1 1/2	1,609.24	1 1/2	948.13	1 1/2	636.09	1 1/2	345.68	1 1/2
3/4	1,933.45	3/4	1,602.34	3/4	941.41	3/4	629.81	3/4	339.89	3/4
2	1,926.55	2	1,595.45	2	934.69	2	623.52	2	334.09	2
1 1/4	1,919.65	1 1/4	1,588.55	1 1/4	927.97	1 1/4	617.24	1 1/4	328.30	1 1/4
1 1/2	1,912.75	1 1/2	1,581.65	1 1/2	921.29	1 1/2	610.99	1 1/2	322.54	1 1/2
3/4	1,905.86	3/4	1,574.75	3/4	914.61	3/4	604.75	3/4	316.79	3/4
3	1,898.96	3	1,567.85	3	907.92	3	598.50	3	311.03	3
1 1/4	1,892.06	1 1/4	1,560.96	1 1/4	901.24	1 1/4	592.26	1 1/4	305.28	1 1/4
1 1/2	1,885.16	1 1/2	1,554.06	1 1/2	894.60	1 1/2	586.05	1 1/2	299.57	1 1/2
3/4	1,878.26	3/4	1,547.16	3/4	887.96	3/4	579.85	3/4	293.86	3/4
4	1,871.37	4	1,540.26	4	881.32	4	573.65	4	288.15	4
1 1/4	1,864.47	1 1/4	1,533.36	1 1/4	874.68	1 1/4	567.44	1 1/4	282.43	1 1/4
1 1/2	1,857.57	1 1/2	1,526.47	1 1/2	868.08	1 1/2	561.28	1 1/2	276.76	1 1/2
3/4	1,850.67	3/4	1,519.57	3/4	861.48	3/4	555.12	3/4	271.09	3/4
5	1,843.77	5	1,512.67	5	854.88	5	548.95	5	265.41	5
1 1/4	1,836.88	1 1/4	1,505.77	1 1/4	848.28	1 1/4	542.79	1 1/4	259.74	1 1/4
1 1/2	1,829.98	1 1/2	1,498.87	1 1/2	841.72	1 1/2	536.67	1 1/2	254.11	1 1/2
3/4	1,823.08	3/4	1,491.98	3/4	835.17	3/4	530.55	3/4	248.48	3/4
6	1,816.18	6	1,485.08	6	828.61	6	524.43	6	242.85	6
1 1/4	1,809.28	1 1/4	1,478.18	1 1/4	822.05	1 1/4	518.31	1 1/4	237.23	1 1/4
1 1/2	1,802.39	1 1/2	1,471.28	1 1/2	815.53	1 1/2	512.22	1 1/2	231.63	1 1/2
3/4	1,795.49	3/4	1,464.38	3/4	809.01	3/4	506.14	3/4	226.04	3/4
7	1,788.59	7	1,457.49	7	802.49	7	500.06	7	220.45	7
1 1/4	1,781.69	1 1/4	1,450.59	1 1/4	795.98	1 1/4	493.98	1 1/4	214.86	1 1/4
1 1/2	1,774.79	1 1/2	1,443.69	1 1/2	789.50	1 1/2	487.94	1 1/2	209.31	1 1/2
3/4	1,767.90	3/4	1,436.79	3/4	783.02	3/4	481.90	3/4	203.76	3/4
8	1,761.00	8	1,429.89	8	776.55	8	475.86	8	198.22	8
1 1/4	1,754.10	1 1/4	1,423.00	1 1/4	770.07	1 1/4	469.82	1 1/4	192.67	1 1/4
1 1/2	1,747.20	1 1/2	1,416.10	1 1/2	763.63	1 1/2	463.82	1 1/2	187.16	1 1/2
3/4	1,740.30	3/4	1,409.20	3/4	757.20	3/4	457.82	3/4	181.65	3/4
9	1,733.41	9	1,402.30	9	750.76	9	451.82	9	176.14	9
1 1/4	1,726.51	1 1/4	1,395.40	1 1/4	744.32	1 1/4	445.82	1 1/4	170.63	1 1/4
1 1/2	1,719.61	1 1/2	1,388.51	1 1/2	737.91	1 1/2	439.86	1 1/2	165.16	1 1/2
3/4	1,712.71	3/4	1,381.61	3/4	731.50	3/4	433.91	3/4	159.70	3/4
10	1,705.81	10	1,374.71	10	725.08	10	427.95	10	154.23	10
1 1/4	1,698.92	1 1/4	1,367.81	1 1/4	718.67	1 1/4	421.99	1 1/4	148.77	1 1/4
1 1/2	1,692.02	1 1/2	1,360.91	1 1/2	712.29	1 1/2	416.07	1 1/2	143.34	1 1/2
3/4	1,685.12	3/4	1,354.02	3/4	705.91	3/4	410.16	3/4	137.91	3/4
11	1,678.22	11	1,347.12	11	699.53	11	404.24	11	132.48	11
1 1/4	1,671.32	1 1/4	1,340.22	1 1/4	693.15	1 1/4	398.32	1 1/4	127.05	1 1/4
1 1/2	1,664.43	1 1/2	1,333.32	1 1/2	686.79	1 1/2	392.44	1 1/2	121.67	1 1/2
3/4	1,657.53	3/4	1,326.42	3/4	680.42	3/4	386.57	3/4	116.28	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2008 CL - SW
CALCULATED: 10/19/2008 CL
PRINTED: 10/19/2008 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77589
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Tom J. Jarama



BARGE "KIRBY 28049"

2 PORT

ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 3/8"

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	0	5,105.37	0	4,769.23	0	4,045.79	0	3,661.10	0
1/4	1/4	1/4	5,096.48	1/4	4,762.09	1/4	4,037.91	1/4	3,653.02	1/4
1/2	1/2	1/2	5,091.57	1/2	4,754.94	1/2	4,030.03	1/2	3,644.95	1/2
3/4	3/4	3/4	5,084.66	3/4	4,747.77	3/4	4,022.13	3/4	3,636.87	3/4
1	1	1	5,077.75	1	4,740.60	1	4,014.23	1	3,628.80	1
1/4	1/4	1/4	5,070.83	1/4	4,733.43	1/4	4,006.33	1/4	3,620.72	1/4
1/2	1/2	1/2	5,063.91	1/2	4,726.25	1/2	3,998.42	1/2	3,612.65	1/2
3/4	3/4	3/4	5,056.97	3/4	4,719.05	3/4	3,990.48	3/4	3,604.58	3/4
2	2	2	5,050.03	2	4,711.85	2	3,982.55	2	3,596.50	2
1/4	1/4	1/4	5,043.09	1/4	4,704.65	1/4	3,974.62	1/4	3,588.43	1/4
1/2	1/2	1/2	5,036.14	1/2	4,697.44	1/2	3,966.67	1/2	3,580.35	1/2
3/4	3/4	3/4	5,029.16	3/4	4,690.22	3/4	3,958.72	3/4	3,572.28	3/4
3	3	3	5,022.19	3	4,683.00	3	3,950.76	3	3,564.20	3
1/4	1/4	1/4	5,015.22	1/4	4,675.77	1/4	3,942.81	1/4	3,556.13	1/4
1/2	1/2	1/2	5,008.28	1/2	4,668.50	1/2	3,934.84	1/2	3,548.06	1/2
3/4	3/4	3/4	5,001.35	3/4	4,661.18	3/4	3,926.86	3/4	3,539.98	3/4
4	4	4	4,994.43	4	4,653.86	4	3,918.88	4	3,531.91	4
1/4	1/4	1/4	4,987.50	1/4	4,646.54	1/4	3,910.90	1/4	3,523.83	1/4
1/2	1/2	1/2	4,980.57	1/2	4,639.20	1/2	3,902.91	1/2	3,515.76	1/2
3/4	3/4	3/4	4,973.62	3/4	4,631.85	3/4	3,894.89	3/4	3,507.68	3/4
5	5	5	4,966.67	5	4,624.50	5	3,886.88	5	3,499.61	5
1/4	1/4	1/4	4,959.72	1/4	4,617.15	1/4	3,878.86	1/4	3,491.54	1/4
1/2	1/2	1/2	4,952.75	1/2	4,609.79	1/2	3,870.84	1/2	3,483.46	1/2
3/4	3/4	3/4	4,945.77	3/4	4,602.41	3/4	3,862.80	3/4	3,475.39	3/4
6	6	6	4,938.79	6	4,595.03	6	3,854.77	6	3,467.31	6
1/4	1/4	1/4	4,931.81	1/4	4,587.66	1/4	3,846.73	1/4	3,459.24	1/4
1/2	1/2	1/2	4,924.82	1/2	4,580.26	1/2	3,838.68	1/2	3,451.16	1/2
3/4	3/4	3/4	4,917.81	3/4	4,572.85	3/4	3,830.62	3/4	3,443.09	3/4
7	7	7	4,910.80	7	4,565.44	7	3,822.56	7	3,435.01	7
1/4	1/4	1/4	4,903.80	1/4	4,558.03	1/4	3,814.50	1/4	3,426.94	1/4
1/2	1/2	1/2	4,896.78	1/2	4,550.61	1/2	3,806.43	1/2	3,418.87	1/2
3/4	3/4	3/4	4,889.74	3/4	4,543.18	3/4	3,798.36	3/4	3,410.79	3/4
8	8	8	4,882.70	8	4,535.75	8	3,790.28	8	3,402.72	8
1/4	1/4	1/4	4,875.66	1/4	4,528.31	1/4	3,782.21	1/4	3,394.64	1/4
1/2	1/2	1/2	4,868.61	1/2	4,520.87	1/2	3,774.14	1/2	3,386.57	1/2
3/4	3/4	3/4	4,861.55	3/4	4,513.41	3/4	3,766.06	3/4	3,378.49	3/4
9	9	9	4,854.49	9	4,505.95	9	3,757.99	9	3,370.42	9
1/4	1/4	1/4	4,847.43	1/4	4,498.49	1/4	3,749.91	1/4	3,362.35	1/4
1/2	1/2	1/2	4,840.36	1/2	4,491.02	1/2	3,741.84	1/2	3,354.27	1/2
3/4	3/4	3/4	4,833.27	3/4	4,483.53	3/4	3,733.76	3/4	3,346.20	3/4
10	10	10	4,826.19	10	4,476.04	10	3,725.69	10	3,338.12	10
1/4	1/4	1/4	4,819.10	1/4	4,468.54	1/4	3,717.62	1/4	3,330.05	1/4
1/2	1/2	1/2	4,812.00	1/2	4,461.04	1/2	3,709.54	1/2	3,321.97	1/2
3/4	3/4	3/4	4,804.88	3/4	4,453.53	3/4	3,701.47	3/4	3,313.90	3/4
11	11	11	4,797.76	11	4,446.01	11	3,693.39	11	3,305.83	11
1/4	1/4	1/4	4,790.65	1/4	4,438.50	1/4	3,685.32	1/4	3,297.75	1/4
1/2	1/2	1/2	4,783.52	1/2	4,430.97	1/2	3,677.24	1/2	3,289.68	1/2
3/4	3/4	3/4	4,776.37	3/4	4,423.43	3/4	3,669.17	3/4	3,281.60	3/4

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'-08" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

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Pearland, Texas 77588

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Signature



BARGE "KIRBY 28049"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 3/8"

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	2,498.24	0	2,110.56	0	1,722.87	0	1,335.18	0	947.50	0	560.67	0	173.40	0	0	0	0	0	0
1/4	2,490.16	1/4	2,102.48	1/4	1,714.79	1/4	1,327.11	1/4	939.42	1/4	552.60	1/4	165.33	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,482.09	1/2	2,094.40	1/2	1,706.72	1/2	1,319.03	1/2	931.34	1/2	544.53	1/2	157.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,474.01	3/4	2,086.32	3/4	1,698.64	3/4	1,310.95	3/4	923.27	3/4	536.46	3/4	149.19	3/4	3/4	3/4	3/4	3/4	3/4
1	2,465.93	1	2,078.25	1	1,690.56	1	1,302.88	1	915.19	1	528.39	1	141.13	1	1	1	1	1	1
1/4	2,457.86	1/4	2,070.17	1/4	1,682.48	1/4	1,294.80	1/4	907.11	1/4	520.33	1/4	133.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,449.78	1/2	2,062.09	1/2	1,674.41	1/2	1,286.72	1/2	899.04	1/2	512.26	1/2	124.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,441.70	3/4	2,054.02	3/4	1,666.33	3/4	1,278.64	3/4	890.98	3/4	504.19	3/4	118.92	3/4	3/4	3/4	3/4	3/4	3/4
2	2,433.63	2	2,045.94	2	1,658.25	2	1,270.57	2	882.91	2	496.12	2	108.85	2	2	2	2	2	2
1/4	2,425.55	1/4	2,037.86	1/4	1,650.18	1/4	1,262.49	1/4	874.85	1/4	488.05	1/4	100.79	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,417.47	1/2	2,029.79	1/2	1,642.10	1/2	1,254.41	1/2	866.79	1/2	479.99	1/2	92.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,409.40	3/4	2,021.71	3/4	1,634.02	3/4	1,246.34	3/4	858.74	3/4	471.92	3/4	84.65	3/4	3/4	3/4	3/4	3/4	3/4
3	2,401.32	3	2,013.63	3	1,625.95	3	1,238.26	3	850.68	3	463.85	3	76.58	3	3	3	3	3	3
1/4	2,393.24	1/4	2,005.56	1/4	1,617.87	1/4	1,230.18	1/4	842.63	1/4	455.78	1/4	68.51	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,385.17	1/2	1,997.48	1/2	1,609.79	1/2	1,222.11	1/2	834.58	1/2	447.71	1/2	60.95	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,377.09	3/4	1,989.40	3/4	1,601.72	3/4	1,214.03	3/4	826.53	3/4	439.65	3/4	53.89	3/4	3/4	3/4	3/4	3/4	3/4
4	2,369.01	4	1,981.33	4	1,593.64	4	1,205.95	4	818.47	4	431.58	4	46.83	4	4	4	4	4	4
1/4	2,360.94	1/4	1,973.25	1/4	1,585.56	1/4	1,197.88	1/4	810.42	1/4	423.51	1/4	39.77	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,352.86	1/2	1,965.17	1/2	1,577.49	1/2	1,189.80	1/2	802.37	1/2	415.44	1/2	33.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,344.78	3/4	1,957.10	3/4	1,569.41	3/4	1,181.72	3/4	794.32	3/4	407.37	3/4	28.68	3/4	3/4	3/4	3/4	3/4	3/4
5	2,336.71	5	1,949.02	5	1,561.33	5	1,173.65	5	786.27	5	399.30	5	23.64	5	5	5	5	5	5
1/4	2,328.63	1/4	1,940.94	1/4	1,553.26	1/4	1,165.57	1/4	778.21	1/4	391.24	1/4	18.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,320.55	1/2	1,932.87	1/2	1,545.18	1/2	1,157.49	1/2	770.16	1/2	383.17	1/2	16.08	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,312.48	3/4	1,924.79	3/4	1,537.10	3/4	1,149.42	3/4	762.11	3/4	375.10	3/4	11.00	3/4	3/4	3/4	3/4	3/4	3/4
6	2,304.40	6	1,916.71	6	1,529.03	6	1,141.34	6	754.06	6	367.03	6	8.00	6	6	6	6	6	6
1/4	2,296.32	1/4	1,908.64	1/4	1,520.95	1/4	1,133.26	1/4	746.00	1/4	358.96	1/4	6.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,288.24	1/2	1,900.56	1/2	1,512.87	1/2	1,125.19	1/2	737.95	1/2	350.90	1/2	4.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,280.17	3/4	1,892.48	3/4	1,504.80	3/4	1,117.11	3/4	729.90	3/4	342.83	3/4	2.00	3/4	3/4	3/4	3/4	3/4	3/4
7	2,272.09	7	1,884.40	7	1,496.72	7	1,109.03	7	721.85	7	334.76	7	0.00	7	7	7	7	7	7
1/4	2,264.01	1/4	1,876.33	1/4	1,488.64	1/4	1,100.96	1/4	713.79	1/4	326.69	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,255.94	1/2	1,868.25	1/2	1,480.56	1/2	1,092.88	1/2	705.74	1/2	318.62	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,247.86	3/4	1,860.17	3/4	1,472.49	3/4	1,084.80	3/4	697.69	3/4	310.56	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
8	2,239.78	8	1,852.10	8	1,464.41	8	1,076.72	8	689.64	8	302.49	8	0.00	8	8	8	8	8	8
1/4	2,231.71	1/4	1,844.02	1/4	1,456.33	1/4	1,068.65	1/4	681.59	1/4	294.42	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,223.63	1/2	1,835.94	1/2	1,448.26	1/2	1,060.57	1/2	673.53	1/2	286.35	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,215.55	3/4	1,827.87	3/4	1,440.18	3/4	1,052.49	3/4	665.48	3/4	278.28	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	2,207.48	9	1,819.79	9	1,432.10	9	1,044.42	9	657.43	9	270.22	9	0.00	9	9	9	9	9	9
1/4	2,199.40	1/4	1,811.71	1/4	1,424.03	1/4	1,036.34	1/4	649.38	1/4	262.15	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,191.32	1/2	1,803.64	1/2	1,415.95	1/2	1,028.26	1/2	641.32	1/2	254.08	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,183.25	3/4	1,795.56	3/4	1,407.87	3/4	1,020.19	3/4	633.26	3/4	246.01	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	2,175.17	10	1,787.48	10	1,399.80	10	1,012.11	10	625.20	10	237.94	10	0.00	10	10	10	10	10	10
1/4	2,167.09	1/4	1,779.41	1/4	1,391.72	1/4	1,004.03	1/4	617.14	1/4	229.87	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,159.02	1/2	1,771.33	1/2	1,383.64	1/2	995.96	1/2	609.08	1/2	221.81	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,150.94	3/4	1,763.25	3/4	1,375.57	3/4	987.88	3/4	601.01	3/4	213.74	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	2,142.86	11	1,755.18	11	1,367.49	11	979.80	11	592.94	11	205.67	11	0.00	11	11	11	11	11	11
1/4	2,134.79	1/4	1,747.10	1/4	1,359.41	1/4	971.73	1/4	584.87	1/4	197.60	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,126.71	1/2	1,739.02	1/2	1,351.34	1/2	963.65	1/2	576.80	1/2	189.53	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,118.63	3/4	1,730.95	3/4	1,343.26	3/4	955.57	3/4	568.73	3/4	181.47	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2006 CL - SW
CALCULATED: 10/19/2006 CL
PRINTED: 10/19/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
http://www.pmacorp.net



GAUGE HEIGHT 16'-05 1/2"

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 EXTENDS TO EXTREMELY HIGH PRESSURES.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
Pearland, Texas 77580
<http://www.pmacorp.net>

James



BARGE "KIRBY 28049"

2 STBD

ULLAGE TABLE

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

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.	
N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W
0	2,490.80	0	2,102.74	0	1,714.68	0	1,326.62	0	938.87	0	555.87	0	178.16	0	0	0	0	0	0
1/4	2,482.72	1/4	2,094.66	1/4	1,706.60	1/4	1,318.54	1/4	930.93	1/4	550.01	1/4	170.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,474.64	1/2	2,086.57	1/2	1,698.51	1/2	1,310.45	1/2	923.00	1/2	545.00	1/2	161.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,466.55	3/4	2,078.49	3/4	1,690.43	3/4	1,302.37	3/4	915.23	3/4	540.00	3/4	153.91	3/4	3/4	3/4	3/4	3/4	3/4
1	2,458.47	1	2,070.41	1	1,682.34	1	1,294.28	1	907.45	1	535.84	1	145.82	1	1	1	1	1	1
1/4	2,450.38	1/4	2,062.32	1/4	1,674.26	1/4	1,286.20	1/4	899.88	1/4	530.76	1/4	137.74	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,442.30	1/2	2,054.24	1/2	1,666.18	1/2	1,278.11	1/2	891.90	1/2	525.69	1/2	129.66	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,434.21	3/4	2,046.15	3/4	1,658.09	3/4	1,270.03	3/4	884.14	3/4	520.62	3/4	121.57	3/4	3/4	3/4	3/4	3/4	3/4
1	2,426.13	1	2,038.07	1	1,650.01	1	1,261.95	1	876.38	1	515.51	1	113.49	1	1	1	1	1	1
1/4	2,418.04	1/4	2,029.98	1/4	1,641.92	1/4	1,253.86	1/4	868.62	1/4	510.44	1/4	105.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,409.96	1/2	2,021.90	1/2	1,633.84	1/2	1,245.78	1/2	860.86	1/2	505.37	1/2	97.32	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,401.87	3/4	2,013.81	3/4	1,625.75	3/4	1,237.69	3/4	853.11	3/4	500.30	3/4	89.24	3/4	3/4	3/4	3/4	3/4	3/4
1	2,393.79	1	2,005.73	1	1,617.67	1	1,229.61	1	845.36	1	495.23	1	81.15	1	1	1	1	1	1
1/4	2,385.70	1/4	1,997.64	1/4	1,609.58	1/4	1,221.52	1/4	837.61	1/4	490.16	1/4	73.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,377.62	1/2	1,989.56	1/2	1,601.50	1/2	1,213.44	1/2	829.85	1/2	485.09	1/2	64.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,369.54	3/4	1,981.47	3/4	1,593.41	3/4	1,205.35	3/4	822.10	3/4	480.02	3/4	56.91	3/4	3/4	3/4	3/4	3/4	3/4
1	2,361.45	1	1,973.39	1	1,585.33	1	1,197.27	1	814.35	1	474.95	1	48.84	1	1	1	1	1	1
1/4	2,353.37	1/4	1,965.31	1/4	1,577.24	1/4	1,189.18	1/4	806.60	1/4	469.88	1/4	40.76	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,345.28	1/2	1,957.22	1/2	1,569.16	1/2	1,181.10	1/2	798.85	1/2	464.81	1/2	32.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,337.20	3/4	1,949.14	3/4	1,561.08	3/4	1,173.01	3/4	791.10	3/4	459.74	3/4	24.61	3/4	3/4	3/4	3/4	3/4	3/4
1	2,329.11	1	1,941.05	1	1,552.99	1	1,164.93	1	783.35	1	454.67	1	16.53	1	1	1	1	1	1
1/4	2,321.03	1/4	1,932.97	1/4	1,544.91	1/4	1,156.85	1/4	775.60	1/4	449.60	1/4	8.45	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,312.94	1/2	1,924.88	1/2	1,536.82	1/2	1,148.76	1/2	767.85	1/2	444.53	1/2	0.37	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,304.86	3/4	1,916.80	3/4	1,528.74	3/4	1,140.68	3/4	760.10	3/4	439.46	3/4	0.29	3/4	3/4	3/4	3/4	3/4	3/4
1	2,296.77	1	1,908.71	1	1,520.65	1	1,132.59	1	752.35	1	434.39	1	0.21	1	1	1	1	1	1
1/4	2,288.69	1/4	1,900.63	1/4	1,512.57	1/4	1,124.51	1/4	744.60	1/4	429.32	1/4	0.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,280.61	1/2	1,892.54	1/2	1,504.48	1/2	1,116.42	1/2	736.85	1/2	424.25	1/2	0.05	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,272.52	3/4	1,884.46	3/4	1,496.40	3/4	1,108.34	3/4	729.10	3/4	419.18	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
1	2,264.44	1	1,876.38	1	1,488.31	1	1,100.25	1	721.34	1	414.11	1	0.00	1	1	1	1	1	1
1/4	2,256.35	1/4	1,868.29	1/4	1,480.23	1/4	1,092.17	1/4	713.59	1/4	409.04	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,248.27	1/2	1,860.21	1/2	1,472.15	1/2	1,084.08	1/2	705.84	1/2	403.97	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,240.18	3/4	1,852.12	3/4	1,464.06	3/4	1,076.00	3/4	698.09	3/4	400.00	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
1	2,232.10	1	1,844.04	1	1,455.98	1	1,067.92	1	690.35	1	395.00	1	0.00	1	1	1	1	1	1
1/4	2,224.01	1/4	1,835.95	1/4	1,447.89	1/4	1,059.83	1/4	682.60	1/4	390.00	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,215.93	1/2	1,827.87	1/2	1,439.81	1/2	1,051.75	1/2	674.85	1/2	385.00	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,207.84	3/4	1,819.78	3/4	1,431.72	3/4	1,043.66	3/4	667.10	3/4	380.00	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
1	2,199.76	1	1,811.70	1	1,423.64	1	1,035.58	1	659.35	1	375.00	1	0.00	1	1	1	1	1	1
1/4	2,191.67	1/4	1,803.61	1/4	1,415.55	1/4	1,027.49	1/4	651.60	1/4	370.00	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,183.59	1/2	1,795.53	1/2	1,407.47	1/2	1,019.41	1/2	643.85	1/2	365.00	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,175.51	3/4	1,787.44	3/4	1,399.38	3/4	1,011.32	3/4	636.10	3/4	360.00	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
1	2,167.42	1	1,779.36	1	1,391.30	1	1,003.24	1	628.34	1	355.00	1	0.00	1	1	1	1	1	1
1/4	2,159.34	1/4	1,771.28	1/4	1,383.21	1/4	995.15	1/4	620.58	1/4	350.00	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,151.25	1/2	1,763.19	1/2	1,375.13	1/2	987.07	1/2	612.82	1/2	345.00	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,143.17	3/4	1,755.11	3/4	1,367.05	3/4	978.98	3/4	605.05	3/4	340.00	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
1	2,135.08	1	1,747.02	1	1,358.96	1	970.90	1	597.27	1	335.00	1	0.00	1	1	1	1	1	1
1/4	2,126.99	1/4	1,738.94	1/4	1,350.88	1/4	962.82	1/4	589.50	1/4	330.00	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,118.91	1/2	1,730.85	1/2	1,342.79	1/2	954.73	1/2	581.73	1/2	325.00	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,110.83	3/4	1,722.77	3/4	1,334.71	3/4	946.80	3/4	573.80	3/4	320.00	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2006 CL - SW
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77583
http://www.pmacorp.net

Paul J. Hume

3 PORT

ULLAGE TABLE

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

[illegible]

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMBINED IN ACCORDANCE WITH NPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

ANALYSIS, INC.

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Pearland, Texas 77588
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BARGE "KIRBY 28049"

3 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-05 1/2"

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

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,332.86	0	1,610.31	0	1,249.03	0	888.50	0	527.29	0
1/4	2,375.33	1/4	1,602.78	1/4	1,241.50	1/4	881.00	1/4	519.76	1/4
1/2	2,317.81	1/2	1,595.25	1/2	1,233.98	1/2	873.50	1/2	512.23	1/2
3/4	2,310.28	3/4	1,587.73	3/4	1,226.45	3/4	865.97	3/4	504.71	3/4
1	2,302.75	1	1,580.20	1	1,218.92	1	858.44	1	497.18	1
1/4	2,295.23	1/4	1,572.67	1/4	1,211.40	1/4	850.92	1/4	489.66	1/4
1/2	2,287.70	1/2	1,565.15	1/2	1,203.87	1/2	843.39	1/2	482.13	1/2
3/4	2,280.17	3/4	1,557.62	3/4	1,196.34	3/4	835.87	3/4	474.60	3/4
2	2,272.65	2	1,550.09	2	1,188.82	2	828.34	2	467.08	2
1/4	2,265.12	1/4	1,542.57	1/4	1,181.29	1/4	820.81	1/4	459.55	1/4
1/2	2,257.59	1/2	1,535.04	1/2	1,173.76	1/2	813.29	1/2	452.02	1/2
3/4	2,250.07	3/4	1,527.51	3/4	1,166.24	3/4	805.76	3/4	444.50	3/4
3	2,242.54	3	1,519.99	3	1,158.71	3	798.23	3	436.97	3
1/4	2,235.01	1/4	1,512.46	1/4	1,151.18	1/4	790.71	1/4	429.45	1/4
1/2	2,227.49	1/2	1,504.93	1/2	1,143.66	1/2	783.18	1/2	421.92	1/2
3/4	2,219.96	3/4	1,497.41	3/4	1,136.13	3/4	775.66	3/4	414.39	3/4
4	2,212.43	4	1,489.88	4	1,128.60	4	768.13	4	406.87	4
1/4	2,204.91	1/4	1,482.35	1/4	1,121.08	1/4	760.60	1/4	399.34	1/4
1/2	2,197.38	1/2	1,474.83	1/2	1,113.55	1/2	753.08	1/2	391.81	1/2
3/4	2,189.86	3/4	1,467.30	3/4	1,106.05	3/4	745.55	3/4	384.29	3/4
5	2,182.33	5	1,459.77	5	1,098.55	5	738.02	5	376.76	5
1/4	2,174.80	1/4	1,452.25	1/4	1,091.05	1/4	730.50	1/4	369.23	1/4
1/2	2,167.28	1/2	1,444.72	1/2	1,083.54	1/2	722.97	1/2	361.71	1/2
3/4	2,159.75	3/4	1,437.20	3/4	1,076.04	3/4	715.44	3/4	354.18	3/4
6	2,152.22	6	1,429.67	6	1,068.54	6	707.92	6	346.66	6
1/4	2,144.70	1/4	1,422.14	1/4	1,061.04	1/4	700.39	1/4	339.13	1/4
1/2	2,137.17	1/2	1,414.62	1/2	1,053.54	1/2	692.87	1/2	331.60	1/2
3/4	2,129.64	3/4	1,407.09	3/4	1,046.04	3/4	685.34	3/4	324.08	3/4
7	2,122.12	7	1,399.56	7	1,038.53	7	677.81	7	316.55	7
1/4	2,114.59	1/4	1,392.04	1/4	1,031.03	1/4	670.29	1/4	309.02	1/4
1/2	2,107.06	1/2	1,384.51	1/2	1,023.53	1/2	662.76	1/2	301.50	1/2
3/4	2,099.54	3/4	1,376.98	3/4	1,016.03	3/4	655.23	3/4	293.97	3/4
8	2,092.01	8	1,369.46	8	1,008.53	8	647.71	8	286.45	8
1/4	2,084.48	1/4	1,361.93	1/4	1,001.03	1/4	640.18	1/4	278.92	1/4
1/2	2,076.96	1/2	1,354.40	1/2	993.52	1/2	632.66	1/2	271.39	1/2
3/4	2,069.43	3/4	1,346.88	3/4	986.02	3/4	625.13	3/4	263.87	3/4
9	2,061.90	9	1,339.35	9	978.52	9	617.60	9	256.34	9
1/4	2,054.38	1/4	1,331.82	1/4	971.02	1/4	610.08	1/4	248.81	1/4
1/2	2,046.85	1/2	1,324.30	1/2	963.52	1/2	602.55	1/2	241.29	1/2
3/4	2,039.32	3/4	1,316.77	3/4	956.02	3/4	595.02	3/4	233.76	3/4
10	2,031.80	10	1,309.24	10	948.51	10	587.50	10	226.24	10
1/4	2,024.27	1/4	1,301.72	1/4	941.01	1/4	579.97	1/4	218.71	1/4
1/2	2,016.74	1/2	1,294.19	1/2	933.51	1/2	572.44	1/2	211.18	1/2
3/4	2,009.22	3/4	1,286.66	3/4	926.01	3/4	564.92	3/4	203.66	3/4
11	2,001.69	11	1,279.14	11	918.51	11	557.39	11	196.13	11
1/4	1,994.16	1/4	1,271.61	1/4	911.01	1/4	549.87	1/4	188.60	1/4
1/2	1,986.64	1/2	1,264.08	1/2	903.50	1/2	542.34	1/2	181.08	1/2
3/4	1,979.11	3/4	1,256.56	3/4	896.00	3/4	534.81	3/4	173.55	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2006 CL - SW
CALCULATED: 10/19/2006 CL
PRINTED: 10/19/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2006

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

Joe J. J. J.

ULLAGE TABLE

[illegible]

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

Gauge Point: (Hermetic) Located 12'-09" Off Centerline and 40'-09" Forward of Aft Bulkhead.

**PRECISION MEASUREMENT
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2



BARGE "KIRBY 28049"

3 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 3/4"

N	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,318.94	0	1,959.54	0	1,601.05	0	1,242.52	0	886.33	0
1/4	2,311.44	1/4	1,952.04	1/4	1,593.54	1/4	1,235.00	1/4	878.96	1/4
1/2	2,303.93	1/2	1,944.55	1/2	1,586.03	1/2	1,227.49	1/2	871.59	1/2
3/4	2,296.42	3/4	1,937.04	3/4	1,578.52	3/4	1,219.98	3/4	864.22	3/4
1	2,288.91	1	1,929.53	1	1,571.00	1	1,212.47	1	856.85	1
1/4	2,281.40	1/4	1,922.02	1/4	1,563.49	1/4	1,204.96	1/4	849.47	1/4
1/2	2,273.89	1/2	1,914.51	1/2	1,555.98	1/2	1,197.45	1/2	842.10	1/2
3/4	2,266.38	3/4	1,907.00	3/4	1,548.47	3/4	1,189.94	3/4	834.73	3/4
2	2,258.87	2	1,899.49	2	1,540.96	2	1,182.43	2	827.36	2
1/4	2,251.36	1/4	1,892.00	1/4	1,533.45	1/4	1,174.92	1/4	819.98	1/4
1/2	2,243.85	1/2	1,884.51	1/2	1,525.94	1/2	1,167.41	1/2	812.61	1/2
3/4	2,236.33	3/4	1,877.00	3/4	1,518.43	3/4	1,159.90	3/4	805.24	3/4
3	2,228.82	3	1,870.00	3	1,510.92	3	1,152.41	3	797.89	3
1/4	2,221.31	1/4	1,862.51	1/4	1,503.40	1/4	1,144.90	1/4	790.53	1/4
1/2	2,213.80	1/2	1,855.00	1/2	1,495.89	1/2	1,137.39	1/2	783.18	1/2
3/4	2,206.29	3/4	1,847.50	3/4	1,488.38	3/4	1,129.87	3/4	775.82	3/4
4	2,198.78	4	1,840.00	4	1,480.87	4	1,122.36	4	768.48	4
1/4	2,191.27	1/4	1,832.51	1/4	1,473.36	1/4	1,114.85	1/4	761.14	1/4
1/2	2,183.76	1/2	1,825.00	1/2	1,465.85	1/2	1,107.34	1/2	753.80	1/2
3/4	2,176.25	3/4	1,817.50	3/4	1,458.34	3/4	1,099.83	3/4	746.46	3/4
5	2,168.73	5	1,810.00	5	1,450.83	5	1,092.32	5	739.12	5
1/4	2,161.22	1/4	1,802.51	1/4	1,443.32	1/4	1,084.81	1/4	731.78	1/4
1/2	2,153.71	1/2	1,795.00	1/2	1,435.80	1/2	1,077.30	1/2	724.43	1/2
3/4	2,146.20	3/4	1,787.50	3/4	1,428.29	3/4	1,069.79	3/4	717.09	3/4
6	2,138.69	6	1,780.00	6	1,420.78	6	1,062.28	6	709.75	6
1/4	2,131.18	1/4	1,772.51	1/4	1,413.27	1/4	1,054.77	1/4	702.41	1/4
1/2	2,123.67	1/2	1,765.00	1/2	1,405.76	1/2	1,047.26	1/2	695.06	1/2
3/4	2,116.16	3/4	1,757.50	3/4	1,398.25	3/4	1,039.75	3/4	687.72	3/4
7	2,108.65	7	1,750.00	7	1,390.74	7	1,032.24	7	680.38	7
1/4	2,101.13	1/4	1,742.51	1/4	1,383.23	1/4	1,024.73	1/4	673.04	1/4
1/2	2,093.62	1/2	1,735.00	1/2	1,375.72	1/2	1,017.22	1/2	665.69	1/2
3/4	2,086.11	3/4	1,727.50	3/4	1,368.20	3/4	1,009.71	3/4	658.35	3/4
8	2,078.60	8	1,720.00	8	1,360.69	8	1,002.20	8	651.01	8
1/4	2,071.09	1/4	1,712.51	1/4	1,353.18	1/4	994.69	1/4	643.66	1/4
1/2	2,063.58	1/2	1,705.00	1/2	1,345.67	1/2	987.18	1/2	636.32	1/2
3/4	2,056.07	3/4	1,697.50	3/4	1,338.16	3/4	979.67	3/4	628.98	3/4
9	2,048.56	9	1,690.00	9	1,330.65	9	972.16	9	621.63	9
1/4	2,041.05	1/4	1,682.51	1/4	1,323.14	1/4	964.65	1/4	614.29	1/4
1/2	2,033.54	1/2	1,675.00	1/2	1,315.63	1/2	957.14	1/2	606.95	1/2
3/4	2,026.03	3/4	1,667.50	3/4	1,308.12	3/4	949.63	3/4	599.61	3/4
10	2,018.52	10	1,660.00	10	1,300.60	10	942.12	10	592.26	10
1/4	2,011.01	1/4	1,652.51	1/4	1,293.09	1/4	934.61	1/4	584.92	1/4
1/2	2,003.50	1/2	1,645.00	1/2	1,285.58	1/2	927.10	1/2	577.58	1/2
3/4	1,996.00	3/4	1,637.50	3/4	1,278.07	3/4	919.59	3/4	570.24	3/4
11	1,988.49	11	1,630.00	11	1,270.56	11	912.08	11	562.88	11
1/4	1,981.00	1/4	1,622.51	1/4	1,263.05	1/4	904.57	1/4	555.52	1/4
1/2	1,973.49	1/2	1,615.00	1/2	1,255.54	1/2	897.06	1/2	548.17	1/2
3/4	1,966.00	3/4	1,607.50	3/4	1,248.03	3/4	889.55	3/4	540.81	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2008 CL - SW
CALCULATED: 10/19/2008 CL
PRINTED: 10/19/2008 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2006

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