



BARGE "KIRBY 10221"

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 CENTER	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/8	- 01-1/8
2 CENTER	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
3 CENTER	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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS - 00-3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 163'-06"

September 18, 2010

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 10221"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,781.81	0	3,545.92	0	3,292.52	0	3,039.11	0	2,777.34	0	2,481.05	0	2,184.11
1/4		1/4		1/4		1/4	3,779.73	1/4	3,540.64	1/4	3,287.24	1/4	3,033.83	1/4	2,771.18	1/4	2,474.87	1/4	2,177.93
1/2		1/2		1/2		1/2	3,777.66	1/2	3,535.36	1/2	3,281.96	1/2	3,028.55	1/2	2,765.01	1/2	2,468.68	1/2	2,171.74
3/4		3/4		3/4		3/4	3,775.59	3/4	3,530.09	3/4	3,276.68	3/4	3,023.27	3/4	2,758.84	3/4	2,462.50	3/4	2,165.55
1		1		1		1	3,771.45	1	3,524.81	1	3,271.40	1	3,017.99	1	2,752.67	1	2,456.31	1	2,159.37
1/4		1/4		1/4		1/4	3,767.31	1/4	3,519.53	1/4	3,266.12	1/4	3,012.71	1/4	2,746.50	1/4	2,450.12	1/4	2,153.18
1/2		1/2		1/2		1/2	3,763.17	1/2	3,514.25	1/2	3,260.84	1/2	3,007.43	1/2	2,740.34	1/2	2,443.94	1/2	2,146.99
3/4		3/4		3/4		3/4	3,759.03	3/4	3,508.97	3/4	3,255.56	3/4	3,002.16	3/4	2,734.17	3/4	2,437.75	3/4	2,140.81
2		2		2		2	3,754.13	2	3,503.69	2	3,250.28	2	2,996.88	2	2,728.00	2	2,431.56	2	2,134.62
1/4		1/4		1/4		1/4	3,749.23	1/4	3,498.41	1/4	3,245.00	1/4	2,991.60	1/4	2,721.83	1/4	2,425.38	1/4	2,128.44
1/2		1/2		1/2		1/2	3,744.32	1/2	3,493.13	1/2	3,239.72	1/2	2,986.32	1/2	2,715.67	1/2	2,419.19	1/2	2,122.25
3/4		3/4		3/4		3/4	3,739.42	3/4	3,487.85	3/4	3,234.44	3/4	2,981.04	3/4	2,709.50	3/4	2,413.01	3/4	2,116.06
3		3		3		3	3,734.26	3	3,482.57	3	3,229.17	3	2,975.76	3	2,703.33	3	2,406.82	3	2,109.88
1/4		1/4		1/4		1/4	3,729.09	1/4	3,477.29	1/4	3,223.89	1/4	2,970.48	1/4	2,697.16	1/4	2,400.63	1/4	2,103.69
1/2		1/2		1/2		1/2	3,723.92	1/2	3,472.01	1/2	3,218.61	1/2	2,965.20	1/2	2,691.00	1/2	2,394.45	1/2	2,097.50
3/4		3/4		3/4		3/4	3,718.76	3/4	3,466.73	3/4	3,213.33	3/4	2,959.92	3/4	2,684.83	3/4	2,388.26	3/4	2,091.32
4		4		4		4	3,713.56	4	3,461.45	4	3,208.05	4	2,954.64	4	2,678.66	4	2,382.07	4	2,085.13
1/4		1/4		1/4		1/4	3,708.37	1/4	3,456.18	1/4	3,202.77	1/4	2,949.36	1/4	2,672.49	1/4	2,375.89	1/4	2,078.95
1/2		1/2		1/2		1/2	3,703.18	1/2	3,450.90	1/2	3,197.49	1/2	2,944.08	1/2	2,666.33	1/2	2,369.70	1/2	2,072.76
3/4		3/4		3/4		3/4	3,697.99	3/4	3,445.62	3/4	3,192.21	3/4	2,938.80	3/4	2,660.16	3/4	2,363.52	3/4	2,066.57
5		5		5		5	3,692.79	5	3,440.34	5	3,186.93	5	2,933.52	5	2,653.99	5	2,357.33	5	2,060.39
1/4		1/4		1/4		1/4	3,687.60	1/4	3,435.06	1/4	3,181.65	1/4	2,928.25	1/4	2,647.82	1/4	2,351.14	1/4	2,054.20
1/2		1/2		1/2		1/2	3,682.40	1/2	3,429.78	1/2	3,176.37	1/2	2,922.97	1/2	2,641.66	1/2	2,344.96	1/2	2,048.01
3/4		3/4		3/4		3/4	3,677.21	3/4	3,424.50	3/4	3,171.09	3/4	2,917.69	3/4	2,635.49	3/4	2,338.77	3/4	2,041.83
6		6		6		6	3,672.02	6	3,419.22	6	3,165.81	6	2,912.41	6	2,629.32	6	2,332.58	6	2,035.64
1/4		1/4		1/4		1/4	3,666.83	1/4	3,413.94	1/4	3,160.53	1/4	2,907.13	1/4	2,623.15	1/4	2,326.40	1/4	2,029.46
1/2		1/2		1/2		1/2	3,661.63	1/2	3,408.66	1/2	3,155.25	1/2	2,901.85	1/2	2,616.99	1/2	2,320.21	1/2	2,023.27
3/4		3/4		3/4		3/4	3,656.44	3/4	3,403.38	3/4	3,149.98	3/4	2,896.57	3/4	2,610.82	3/4	2,314.02	3/4	2,017.08
7		7		7		7	3,651.25	7	3,398.10	7	3,144.70	7	2,891.29	7	2,604.65	7	2,307.84	7	2,010.90
1/4		1/4		1/4		1/4	3,646.06	1/4	3,392.82	1/4	3,139.42	1/4	2,886.01	1/4	2,598.48	1/4	2,301.65	1/4	2,004.71
1/2		1/2		1/2		1/2	3,640.86	1/2	3,387.54	1/2	3,134.14	1/2	2,880.73	1/2	2,592.31	1/2	2,295.47	1/2	1,998.52
3/4		3/4		3/4		3/4	3,635.67	3/4	3,382.26	3/4	3,128.86	3/4	2,875.45	3/4	2,586.15	3/4	2,289.28	3/4	1,992.34
8		8		8		8	3,630.39	8	3,376.99	8	3,123.58	8	2,870.15	8	2,579.98	8	2,283.09	8	1,986.15
1/4		1/4		1/4		1/4	3,625.11	1/4	3,371.71	1/4	3,118.30	1/4	2,864.84	1/4	2,573.81	1/4	2,276.91	1/4	1,979.96
1/2		1/2		1/2		1/2	3,619.83	1/2	3,366.43	1/2	3,113.02	1/2	2,859.54	1/2	2,567.64	1/2	2,270.72	1/2	1,973.78
3/4		3/4		3/4		3/4	3,614.55	3/4	3,361.15	3/4	3,107.74	3/4	2,854.23	3/4	2,561.48	3/4	2,264.53	3/4	1,967.59
9		9		9		9	3,609.27	9	3,355.87	9	3,102.46	9	2,848.93	9	2,555.29	9	2,258.35	9	1,961.41
1/4		1/4		1/4		1/4	3,604.00	1/4	3,350.59	1/4	3,097.18	1/4	2,843.63	1/4	2,549.10	1/4	2,252.16	1/4	1,955.22
1/2		1/2		1/2		1/2	3,598.72	1/2	3,345.31	1/2	3,091.90	1/2	2,838.32	1/2	2,542.92	1/2	2,245.98	1/2	1,949.03
3/4		3/4		3/4		3/4	3,593.44	3/4	3,340.03	3/4	3,086.62	3/4	2,833.02	3/4	2,536.73	3/4	2,239.79	3/4	1,942.85
10		10		10		10	3,588.16	10	3,334.75	10	3,081.34	10	2,826.81	10	2,530.55	10	2,233.60	10	1,936.66
1/4		1/4		1/4		1/4	3,582.88	1/4	3,329.47	1/4	3,076.07	1/4	2,820.60	1/4	2,524.36	1/4	2,227.42	1/4	1,930.47
1/2		1/2		1/2		1/2	3,577.60	1/2	3,324.19	1/2	3,070.79	1/2	2,814.39	1/2	2,518.17	1/2	2,221.23	1/2	1,924.29
3/4		3/4		3/4		3/4	3,572.32	3/4	3,318.91	3/4	3,065.51	3/4	2,808.18	3/4	2,511.99	3/4	2,215.04	3/4	1,918.10
11		11		11		11	3,567.04	11	3,313.63	11	3,060.23	11	2,802.01	11	2,505.80	11	2,208.86	11	1,911.92
1/4		1/4		1/4		1/4	3,784.91	1/4	3,561.76	1/4	3,308.35	1/4	3,054.95	1/4	2,499.61	1/4	2,202.67	1/4	1,905.73
1/2		1/2		1/2		1/2	3,784.39	1/2	3,556.48	1/2	3,303.08	1/2	3,049.67	1/2	2,493.43	1/2	2,196.49	1/2	1,899.54
3/4		3/4		3/4		3/4	3,783.88	3/4	3,551.20	3/4	3,297.80	3/4	3,044.39	3/4	2,487.24	3/4	2,190.30	3/4	1,893.36

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 ON CENTERLINE AND 32'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 10221"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,887.17	0	1,589.98	0	1,292.63	0	995.27	0	703.98	0	406.48	0	108.95	0		0		0	
1/4	1,880.98	1/4	1,583.79	1/4	1,286.43	1/4	989.08	1/4	697.80	1/4	400.28	1/4	102.78	1/4		1/4		1/4	
1/2	1,874.80	1/2	1,577.59	1/2	1,280.24	1/2	982.88	1/2	691.62	1/2	394.08	1/2	96.61	1/2		1/2		1/2	
3/4	1,868.61	3/4	1,571.40	3/4	1,274.04	3/4	976.69	3/4	685.44	3/4	387.88	3/4	90.44	3/4		3/4		3/4	
1	1,862.42	1	1,565.20	1	1,267.85	1	970.56	1	679.24	1	381.68	1	84.30	1		1		1	
1/4	1,856.24	1/4	1,559.01	1/4	1,261.65	1/4	964.42	1/4	673.04	1/4	375.48	1/4	78.16	1/4		1/4		1/4	
1/2	1,850.05	1/2	1,552.81	1/2	1,255.46	1/2	958.29	1/2	666.84	1/2	369.28	1/2	72.02	1/2		1/2		1/2	
3/4	1,843.87	3/4	1,546.62	3/4	1,249.26	3/4	952.16	3/4	660.64	3/4	363.08	3/4	65.88	3/4		3/4		3/4	
2	1,837.68	2	1,540.42	2	1,243.07	2	946.09	2	654.44	2	356.88	2	59.80	2		2		2	
1/4	1,831.49	1/4	1,534.23	1/4	1,236.87	1/4	940.02	1/4	648.24	1/4	350.68	1/4	53.72	1/4		1/4		1/4	
1/2	1,825.31	1/2	1,528.03	1/2	1,230.68	1/2	933.95	1/2	642.05	1/2	344.49	1/2	47.63	1/2		1/2		1/2	
3/4	1,819.12	3/4	1,521.84	3/4	1,224.48	3/4	927.89	3/4	635.85	3/4	338.29	3/4	41.55	3/4		3/4		3/4	
3	1,812.93	3	1,515.64	3	1,218.29	3	921.82	3	629.65	3	332.09	3	36.38	3		3		3	
1/4	1,806.73	1/4	1,509.45	1/4	1,212.09	1/4	915.75	1/4	623.45	1/4	325.89	1/4	31.22	1/4		1/4		1/4	
1/2	1,800.54	1/2	1,503.25	1/2	1,205.90	1/2	909.68	1/2	617.25	1/2	319.69	1/2	26.05	1/2		1/2		1/2	
3/4	1,794.34	3/4	1,497.06	3/4	1,199.70	3/4	903.61	3/4	611.05	3/4	313.49	3/4	20.88	3/4		3/4		3/4	
4	1,788.15	4	1,490.86	4	1,193.51	4	897.56	4	604.85	4	307.29	4	17.78	4		4		4	
1/4	1,781.95	1/4	1,484.67	1/4	1,187.31	1/4	891.51	1/4	598.65	1/4	301.09	1/4	14.67	1/4		1/4		1/4	
1/2	1,775.76	1/2	1,478.47	1/2	1,181.12	1/2	885.46	1/2	592.45	1/2	294.89	1/2	11.57	1/2		1/2		1/2	
3/4	1,769.56	3/4	1,472.28	3/4	1,174.92	3/4	879.41	3/4	586.25	3/4	288.69	3/4	8.46	3/4		3/4		3/4	
5	1,763.37	5	1,466.09	5	1,168.73	5	873.37	5	580.05	5	282.49	5	7.43	5		5		5	
1/4	1,757.17	1/4	1,459.89	1/4	1,162.54	1/4	867.34	1/4	573.86	1/4	276.29	1/4	6.39	1/4		1/4		1/4	
1/2	1,750.98	1/2	1,453.70	1/2	1,156.34	1/2	861.30	1/2	567.66	1/2	270.09	1/2	5.36	1/2		1/2		1/2	
3/4	1,744.78	3/4	1,447.50	3/4	1,150.15	3/4	855.27	3/4	561.46	3/4	263.90	3/4	4.32	3/4		3/4		3/4	
6	1,738.59	6	1,441.31	6	1,143.95	6	849.23	6	555.26	6	257.70	6		6		6		6	
1/4	1,732.40	1/4	1,435.11	1/4	1,137.76	1/4	843.20	1/4	549.06	1/4	251.50	1/4		1/4		1/4		1/4	
1/2	1,726.21	1/2	1,428.92	1/2	1,131.56	1/2	837.16	1/2	542.86	1/2	245.30	1/2		1/2		1/2		1/2	
3/4	1,720.01	3/4	1,422.72	3/4	1,125.37	3/4	831.12	3/4	536.66	3/4	239.10	3/4		3/4		3/4		3/4	
7	1,713.82	7	1,416.53	7	1,119.17	7	825.09	7	530.46	7	232.90	7		7		7		7	
1/4	1,707.63	1/4	1,410.33	1/4	1,112.98	1/4	819.05	1/4	524.26	1/4	226.70	1/4		1/4		1/4		1/4	
1/2	1,701.44	1/2	1,404.14	1/2	1,106.78	1/2	813.02	1/2	518.06	1/2	220.50	1/2		1/2		1/2		1/2	
3/4	1,695.25	3/4	1,397.94	3/4	1,100.59	3/4	806.98	3/4	511.86	3/4	214.30	3/4		3/4		3/4		3/4	
8	1,689.05	8	1,391.75	8	1,094.39	8	800.95	8	505.66	8	208.10	8		8		8		8	
1/4	1,682.86	1/4	1,385.55	1/4	1,088.20	1/4	794.91	1/4	499.47	1/4	201.90	1/4		1/4		1/4		1/4	
1/2	1,676.67	1/2	1,379.36	1/2	1,082.00	1/2	788.88	1/2	493.27	1/2	195.70	1/2		1/2		1/2		1/2	
3/4	1,670.48	3/4	1,373.16	3/4	1,075.81	3/4	782.84	3/4	487.07	3/4	189.51	3/4		3/4		3/4		3/4	
9	1,664.29	9	1,366.97	9	1,069.61	9	776.81	9	480.87	9	183.31	9		9		9		9	
1/4	1,658.10	1/4	1,360.77	1/4	1,063.42	1/4	770.77	1/4	474.67	1/4	177.11	1/4		1/4		1/4		1/4	
1/2	1,651.90	1/2	1,354.58	1/2	1,057.22	1/2	764.74	1/2	468.47	1/2	170.91	1/2		1/2		1/2		1/2	
3/4	1,645.71	3/4	1,348.38	3/4	1,051.03	3/4	758.70	3/4	462.27	3/4	164.71	3/4		3/4		3/4		3/4	
10	1,639.52	10	1,342.19	10	1,044.83	10	752.66	10	456.07	10	158.51	10		10		10		10	
1/4	1,633.33	1/4	1,335.99	1/4	1,038.64	1/4	746.63	1/4	449.87	1/4	152.30	1/4		1/4		1/4		1/4	
1/2	1,627.14	1/2	1,329.80	1/2	1,032.44	1/2	740.59	1/2	443.67	1/2	146.10	1/2		1/2		1/2		1/2	
3/4	1,620.94	3/4	1,323.60	3/4	1,026.25	3/4	734.56	3/4	437.47	3/4	139.89	3/4		3/4		3/4		3/4	
11	1,614.75	11	1,317.41	11	1,020.05	11	728.46	11	431.27	11	133.70	11		11		11		11	
1/4	1,608.56	1/4	1,311.21	1/4	1,013.86	1/4	722.36	1/4	425.07	1/4	127.51	1/4		1/4		1/4		1/4	
1/2	1,602.37	1/2	1,305.02	1/2	1,007.66	1/2	716.26	1/2	418.88	1/2	121.32	1/2		1/2		1/2		1/2	
3/4	1,596.18	3/4	1,298.82	3/4	1,001.47	3/4	710.16	3/4	412.68	3/4	115.12	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/17/2010 CL - SW
CALCULATED: 09/18/2010 CL
PRINTED: 09/18/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2010

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



BARGE "KIRBY 10221"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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	3,495.00	0	3,262.69	0	3,000.14	0	2,737.59	0	2,474.61	0	2,210.67	0	1,946.72
1/4		1/4		1/4		1/4	3,494.54	1/4	3,257.22	1/4	2,994.67	1/4	2,732.12	1/4	2,469.11	1/4	2,205.17	1/4	1,941.22
1/2		1/2		1/2		1/2	3,492.71	1/2	3,251.75	1/2	2,989.20	1/2	2,726.65	1/2	2,463.61	1/2	2,199.67	1/2	1,935.73
3/4		3/4		3/4		3/4	3,490.87	3/4	3,246.28	3/4	2,983.73	3/4	2,721.18	3/4	2,458.11	3/4	2,194.17	3/4	1,930.23
1		1		1		1	3,489.04	1	3,240.81	1	2,978.26	1	2,715.71	1	2,452.61	1	2,188.67	1	1,924.73
1/4		1/4		1/4		1/4	3,487.21	1/4	3,235.34	1/4	2,972.79	1/4	2,710.24	1/4	2,447.11	1/4	2,183.17	1/4	1,919.23
1/2		1/2		1/2		1/2	3,483.54	1/2	3,229.88	1/2	2,967.32	1/2	2,704.77	1/2	2,441.61	1/2	2,177.67	1/2	1,913.73
3/4		3/4		3/4		3/4	3,479.87	3/4	3,224.41	3/4	2,961.85	3/4	2,699.30	3/4	2,436.12	3/4	2,172.17	3/4	1,908.23
2		2		2		2	3,476.20	2	3,218.94	2	2,956.39	2	2,693.83	2	2,430.62	2	2,166.67	2	1,902.73
1/4		1/4		1/4		1/4	3,472.53	1/4	3,213.47	1/4	2,950.92	1/4	2,688.36	1/4	2,425.12	1/4	2,161.18	1/4	1,897.23
1/2		1/2		1/2		1/2	3,467.42	1/2	3,208.00	1/2	2,945.45	1/2	2,682.90	1/2	2,419.62	1/2	2,155.68	1/2	1,891.73
3/4		3/4		3/4		3/4	3,462.30	3/4	3,202.53	3/4	2,939.98	3/4	2,677.43	3/4	2,414.12	3/4	2,150.18	3/4	1,886.24
3		3		3		3	3,457.19	3	3,197.06	3	2,934.51	3	2,671.96	3	2,408.62	3	2,144.68	3	1,880.74
1/4		1/4		1/4		1/4	3,452.07	1/4	3,191.59	1/4	2,929.04	1/4	2,666.49	1/4	2,403.12	1/4	2,139.18	1/4	1,875.24
1/2		1/2		1/2		1/2	3,446.72	1/2	3,186.12	1/2	2,923.57	1/2	2,661.02	1/2	2,397.62	1/2	2,133.68	1/2	1,869.74
3/4		3/4		3/4		3/4	3,441.38	3/4	3,180.65	3/4	2,918.10	3/4	2,655.55	3/4	2,392.13	3/4	2,128.18	3/4	1,864.24
4		4		4		4	3,436.03	4	3,175.18	4	2,912.63	4	2,650.08	4	2,386.63	4	2,122.68	4	1,858.74
1/4		1/4		1/4		1/4	3,430.68	1/4	3,169.71	1/4	2,907.16	1/4	2,644.61	1/4	2,381.13	1/4	2,117.19	1/4	1,853.24
1/2		1/2		1/2		1/2	3,425.31	1/2	3,164.24	1/2	2,901.69	1/2	2,639.14	1/2	2,375.63	1/2	2,111.69	1/2	1,847.74
3/4		3/4		3/4		3/4	3,419.94	3/4	3,158.77	3/4	2,896.22	3/4	2,633.67	3/4	2,370.13	3/4	2,106.19	3/4	1,842.25
5		5		5		5	3,414.57	5	3,153.30	5	2,890.75	5	2,628.20	5	2,364.63	5	2,100.69	5	1,836.75
1/4		1/4		1/4		1/4	3,409.21	1/4	3,147.83	1/4	2,885.28	1/4	2,622.73	1/4	2,359.13	1/4	2,095.19	1/4	1,831.25
1/2		1/2		1/2		1/2	3,403.83	1/2	3,142.36	1/2	2,879.81	1/2	2,617.26	1/2	2,353.63	1/2	2,089.69	1/2	1,825.75
3/4		3/4		3/4		3/4	3,398.46	3/4	3,136.89	3/4	2,874.34	3/4	2,611.79	3/4	2,348.14	3/4	2,084.19	3/4	1,820.25
6		6		6		6	3,393.08	6	3,131.42	6	2,868.87	6	2,606.32	6	2,342.64	6	2,078.69	6	1,814.75
1/4		1/4		1/4		1/4	3,387.71	1/4	3,125.95	1/4	2,863.40	1/4	2,600.85	1/4	2,337.14	1/4	2,073.20	1/4	1,809.25
1/2		1/2		1/2		1/2	3,382.34	1/2	3,120.48	1/2	2,857.93	1/2	2,595.38	1/2	2,331.64	1/2	2,067.70	1/2	1,803.75
3/4		3/4		3/4		3/4	3,376.97	3/4	3,115.01	3/4	2,852.46	3/4	2,589.91	3/4	2,326.14	3/4	2,062.20	3/4	1,798.26
7		7		7		7	3,371.60	7	3,109.54	7	2,846.99	7	2,584.44	7	2,320.64	7	2,056.70	7	1,792.76
1/4		1/4		1/4		1/4	3,366.22	1/4	3,104.07	1/4	2,841.52	1/4	2,578.97	1/4	2,315.14	1/4	2,051.20	1/4	1,787.26
1/2		1/2		1/2		1/2	3,360.85	1/2	3,098.60	1/2	2,836.05	1/2	2,573.50	1/2	2,309.64	1/2	2,045.70	1/2	1,781.76
3/4		3/4		3/4		3/4	3,355.48	3/4	3,093.13	3/4	2,830.58	3/4	2,568.03	3/4	2,304.14	3/4	2,040.20	3/4	1,776.26
8		8		8		8	3,350.11	8	3,087.66	8	2,825.11	8	2,562.56	8	2,298.65	8	2,034.70	8	1,770.76
1/4		1/4		1/4		1/4	3,344.74	1/4	3,082.19	1/4	2,819.64	1/4	2,557.09	1/4	2,293.15	1/4	2,029.20	1/4	1,765.26
1/2		1/2		1/2		1/2	3,339.27	1/2	3,076.72	1/2	2,814.17	1/2	2,551.59	1/2	2,287.65	1/2	2,023.71	1/2	1,759.76
3/4		3/4		3/4		3/4	3,333.80	3/4	3,071.25	3/4	2,808.70	3/4	2,546.09	3/4	2,282.15	3/4	2,018.21	3/4	1,754.26
9		9		9		9	3,328.33	9	3,065.78	9	2,803.23	9	2,540.59	9	2,276.65	9	2,012.71	9	1,748.77
1/4		1/4		1/4		1/4	3,322.86	1/4	3,060.31	1/4	2,797.76	1/4	2,535.09	1/4	2,271.15	1/4	2,007.21	1/4	1,743.27
1/2		1/2		1/2		1/2	3,317.39	1/2	3,054.84	1/2	2,792.29	1/2	2,529.60	1/2	2,265.65	1/2	2,001.71	1/2	1,737.77
3/4		3/4		3/4		3/4	3,311.92	3/4	3,049.37	3/4	2,786.82	3/4	2,524.10	3/4	2,260.15	3/4	1,996.21	3/4	1,732.27
10		10		10		10	3,306.45	10	3,043.90	10	2,781.35	10	2,518.60	10	2,254.66	10	1,990.71	10	1,726.77
1/4		1/4		1/4		1/4	3,300.98	1/4	3,038.43	1/4	2,775.88	1/4	2,513.10	1/4	2,249.16	1/4	1,985.21	1/4	1,721.27
1/2		1/2		1/2		1/2	3,295.51	1/2	3,032.96	1/2	2,770.41	1/2	2,507.60	1/2	2,243.66	1/2	1,979.72	1/2	1,715.77
3/4		3/4		3/4		3/4	3,290.04	3/4	3,027.49	3/4	2,764.94	3/4	2,502.10	3/4	2,238.16	3/4	1,974.22	3/4	1,710.27
11		11		11		11	3,284.57	11	3,022.02	11	2,759.47	11	2,496.60	11	2,232.66	11	1,968.72	11	1,704.78
1/4		1/4		1/4		1/4	3,279.10	1/4	3,016.55	1/4	2,754.00	1/4	2,491.10	1/4	2,227.16	1/4	1,963.22	1/4	1,699.28
1/2		1/2		1/2		1/2	3,273.63	1/2	3,011.08	1/2	2,748.53	1/2	2,485.61	1/2	2,221.66	1/2	1,957.72	1/2	1,693.78
3/4		3/4		3/4		3/4	3,495.46	3/4	3,268.16	3/4	3,005.61	3/4	2,743.06	3/4	2,480.11	3/4	2,216.16	3/4	1,688.28

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 ON CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 10221"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,682.78	0	1,418.84	0	1,154.72	0	892.38	0	632.40	0	368.35	0	104.32	0		0		0	
1/4	1,677.28	1/4	1,413.34	1/4	1,149.21	1/4	886.96	1/4	626.94	1/4	362.84	1/4	98.83	1/4		1/4		1/4	
1/2	1,671.78	1/2	1,407.84	1/2	1,143.71	1/2	881.55	1/2	621.44	1/2	357.34	1/2	93.37	1/2		1/2		1/2	
3/4	1,666.28	3/4	1,402.33	3/4	1,138.21	3/4	876.13	3/4	615.94	3/4	351.84	3/4	87.90	3/4		3/4		3/4	
1	1,660.79	1	1,396.83	1	1,132.71	1	870.71	1	610.44	1	346.34	1	82.43	1		1		1	
1 1/4	1,655.29	1 1/4	1,391.33	1 1/4	1,127.20	1 1/4	865.29	1 1/4	604.94	1 1/4	340.83	1 1/4	76.97	1 1/4		1 1/4		1 1/4	
1 1/2	1,649.79	1 1/2	1,385.83	1 1/2	1,121.70	1 1/2	859.88	1 1/2	599.43	1 1/2	335.33	1 1/2	71.53	1 1/2		1 1/2		1 1/2	
3/4	1,644.29	3/4	1,380.32	3/4	1,116.20	3/4	854.46	3/4	593.93	3/4	329.83	3/4	66.09	3/4		3/4		3/4	
2	1,638.79	2	1,374.82	2	1,110.70	2	849.04	2	588.43	2	324.33	2	60.65	2		2		2	
1 1/4	1,633.29	1 1/4	1,369.32	1 1/4	1,105.19	1 1/4	843.62	1 1/4	582.93	1 1/4	318.83	1 1/4	55.21	1 1/4		1 1/4		1 1/4	
1 1/2	1,627.79	1 1/2	1,363.82	1 1/2	1,099.69	1 1/2	838.21	1 1/2	577.42	1 1/2	313.32	1 1/2	49.82	1 1/2		1 1/2		1 1/2	
3/4	1,622.29	3/4	1,358.31	3/4	1,094.19	3/4	832.79	3/4	571.92	3/4	307.82	3/4	44.43	3/4		3/4		3/4	
3	1,616.79	3	1,352.81	3	1,088.69	3	827.37	3	566.42	3	302.32	3	39.05	3		3		3	
1 1/4	1,611.30	1 1/4	1,347.31	1 1/4	1,083.18	1 1/4	821.95	1 1/4	560.92	1 1/4	296.82	1 1/4	33.66	1 1/4		1 1/4		1 1/4	
1 1/2	1,605.80	1 1/2	1,341.81	1 1/2	1,077.68	1 1/2	816.54	1 1/2	555.42	1 1/2	291.32	1 1/2	29.08	1 1/2		1 1/2		1 1/2	
3/4	1,600.30	3/4	1,336.30	3/4	1,072.18	3/4	811.13	3/4	549.91	3/4	285.81	3/4	24.50	3/4		3/4		3/4	
4	1,594.80	4	1,330.80	4	1,066.68	4	805.72	4	544.41	4	280.31	4	19.93	4		4		4	
1 1/4	1,589.30	1 1/4	1,325.30	1 1/4	1,061.17	1 1/4	800.31	1 1/4	538.91	1 1/4	274.81	1 1/4	15.35	1 1/4		1 1/4		1 1/4	
1 1/2	1,583.80	1 1/2	1,319.80	1 1/2	1,055.67	1 1/2	794.89	1 1/2	533.41	1 1/2	269.31	1 1/2	12.60	1 1/2		1 1/2		1 1/2	
3/4	1,578.30	3/4	1,314.29	3/4	1,050.17	3/4	789.48	3/4	527.91	3/4	263.81	3/4	9.85	3/4		3/4		3/4	
5	1,572.80	5	1,308.79	5	1,044.67	5	784.07	5	522.40	5	258.30	5	7.10	5		5		5	
1 1/4	1,567.31	1 1/4	1,303.29	1 1/4	1,039.16	1 1/4	778.66	1 1/4	516.90	1 1/4	252.80	1 1/4	4.35	1 1/4		1 1/4		1 1/4	
1 1/2	1,561.81	1 1/2	1,297.78	1 1/2	1,033.66	1 1/2	773.25	1 1/2	511.40	1 1/2	247.30	1 1/2	3.43	1 1/2		1 1/2		1 1/2	
3/4	1,556.31	3/4	1,292.28	3/4	1,028.16	3/4	767.83	3/4	505.90	3/4	241.80	3/4	2.51	3/4		3/4		3/4	
6	1,550.81	6	1,286.78	6	1,022.65	6	762.42	6	500.40	6	236.29	6	1.60	6		6		6	
1 1/4	1,545.31	1 1/4	1,281.28	1 1/4	1,017.15	1 1/4	757.01	1 1/4	494.89	1 1/4	230.79	1 1/4	0.68	1 1/4		1 1/4		1 1/4	
1 1/2	1,539.81	1 1/2	1,275.77	1 1/2	1,011.69	1 1/2	751.60	1 1/2	489.39	1 1/2	225.29	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,534.31	3/4	1,270.27	3/4	1,006.23	3/4	746.19	3/4	483.89	3/4	219.79	3/4		3/4		3/4		3/4	
7	1,528.81	7	1,264.77	7	1,000.77	7	740.77	7	478.39	7	214.29	7		7		7		7	
1 1/4	1,523.32	1 1/4	1,259.27	1 1/4	995.31	1 1/4	735.36	1 1/4	472.88	1 1/4	208.78	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,517.82	1 1/2	1,253.76	1 1/2	989.90	1 1/2	729.95	1 1/2	467.38	1 1/2	203.28	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,512.32	3/4	1,248.26	3/4	984.48	3/4	724.54	3/4	461.88	3/4	197.78	3/4		3/4		3/4		3/4	
8	1,506.82	8	1,242.76	8	979.06	8	719.12	8	456.38	8	192.28	8		8		8		8	
1 1/4	1,501.32	1 1/4	1,237.26	1 1/4	973.64	1 1/4	713.71	1 1/4	450.88	1 1/4	186.78	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,495.82	1 1/2	1,231.75	1 1/2	968.23	1 1/2	708.30	1 1/2	445.37	1 1/2	181.27	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,490.32	3/4	1,226.25	3/4	962.81	3/4	702.89	3/4	439.87	3/4	175.77	3/4		3/4		3/4		3/4	
9	1,484.82	9	1,220.75	9	957.39	9	697.48	9	434.37	9	170.27	9		9		9		9	
1 1/4	1,479.32	1 1/4	1,215.25	1 1/4	951.97	1 1/4	692.06	1 1/4	428.87	1 1/4	164.77	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,473.83	1 1/2	1,209.74	1 1/2	946.56	1 1/2	686.65	1 1/2	423.37	1 1/2	159.27	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,468.33	3/4	1,204.24	3/4	941.14	3/4	681.24	3/4	417.86	3/4	153.76	3/4		3/4		3/4		3/4	
10	1,462.83	10	1,198.74	10	935.72	10	675.83	10	412.36	10	148.26	10		10		10		10	
1 1/4	1,457.33	1 1/4	1,193.24	1 1/4	930.30	1 1/4	670.42	1 1/4	406.86	1 1/4	142.76	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,451.83	1 1/2	1,187.73	1 1/2	924.89	1 1/2	665.00	1 1/2	401.36	1 1/2	137.27	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,446.33	3/4	1,182.23	3/4	919.47	3/4	659.59	3/4	395.86	3/4	131.77	3/4		3/4		3/4		3/4	
11	1,440.83	11	1,176.73	11	914.05	11	654.18	11	390.35	11	126.27	11		11		11		11	
1 1/4	1,435.33	1 1/4	1,171.22	1 1/4	908.63	1 1/4	648.77	1 1/4	384.85	1 1/4	120.78	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,429.84	1 1/2	1,165.72	1 1/2	903.22	1 1/2	643.31	1 1/2	379.35	1 1/2	115.29	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,424.34	3/4	1,160.22	3/4	897.80	3/4	637.85	3/4	373.85	3/4	109.81	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/17/2010 CL - SW
CALCULATED: 09/18/2010 CL
PRINTED: 09/18/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2010

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



BARGE "KIRBY 10221"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	3,466.02	0	3,230.97	0	2,970.89	0	2,710.82	0	2,450.27	0	2,188.80	0	1,927.32
1/4		1/4		1/4		1/4	3,464.20	1/4	3,225.55	1/4	2,965.48	1/4	2,705.40	1/4	2,444.82	1/4	2,183.35	1/4	1,921.87
1/2		1/2		1/2		1/2	3,462.38	1/2	3,220.14	1/2	2,960.06	1/2	2,699.98	1/2	2,439.38	1/2	2,177.90	1/2	1,916.43
3/4		3/4		3/4		3/4	3,460.57	3/4	3,214.72	3/4	2,954.64	3/4	2,694.56	3/4	2,433.93	3/4	2,172.45	3/4	1,910.98
1		1		1		1	3,458.75	1	3,209.30	1	2,949.22	1	2,689.14	1	2,428.48	1	2,167.01	1	1,905.53
1/4		1/4		1/4		1/4	3,455.12	1/4	3,203.88	1/4	2,943.80	1/4	2,683.72	1/4	2,423.03	1/4	2,161.56	1/4	1,900.08
1/2		1/2		1/2		1/2	3,451.48	1/2	3,198.46	1/2	2,938.38	1/2	2,678.31	1/2	2,417.59	1/2	2,156.11	1/2	1,894.64
3/4		3/4		3/4		3/4	3,447.85	3/4	3,193.04	3/4	2,932.97	3/4	2,672.89	3/4	2,412.14	3/4	2,150.66	3/4	1,889.19
2		2		2		2	3,444.21	2	3,187.63	2	2,927.55	2	2,667.47	2	2,406.69	2	2,145.22	2	1,883.74
1/4		1/4		1/4		1/4	3,439.15	1/4	3,182.21	1/4	2,922.13	1/4	2,662.05	1/4	2,401.24	1/4	2,139.77	1/4	1,878.29
1/2		1/2		1/2		1/2	3,434.08	1/2	3,176.79	1/2	2,916.71	1/2	2,656.63	1/2	2,395.80	1/2	2,134.32	1/2	1,872.85
3/4		3/4		3/4		3/4	3,429.02	3/4	3,171.37	3/4	2,911.29	3/4	2,651.21	3/4	2,390.35	3/4	2,128.87	3/4	1,867.40
3		3		3		3	3,423.95	3	3,165.95	3	2,905.87	3	2,645.80	3	2,384.90	3	2,123.43	3	1,861.95
1/4		1/4		1/4		1/4	3,418.65	1/4	3,160.53	1/4	2,900.46	1/4	2,640.38	1/4	2,379.46	1/4	2,117.98	1/4	1,856.50
1/2		1/2		1/2		1/2	3,413.36	1/2	3,155.12	1/2	2,895.04	1/2	2,634.96	1/2	2,374.01	1/2	2,112.53	1/2	1,851.06
3/4		3/4		3/4		3/4	3,408.06	3/4	3,149.70	3/4	2,889.62	3/4	2,629.54	3/4	2,368.56	3/4	2,107.09	3/4	1,845.61
4		4		4		4	3,402.76	4	3,144.28	4	2,884.20	4	2,624.12	4	2,363.11	4	2,101.64	4	1,840.16
1/4		1/4		1/4		1/4	3,397.44	1/4	3,138.86	1/4	2,878.78	1/4	2,618.70	1/4	2,357.67	1/4	2,096.19	1/4	1,834.72
1/2		1/2		1/2		1/2	3,392.13	1/2	3,133.44	1/2	2,873.36	1/2	2,613.29	1/2	2,352.22	1/2	2,090.74	1/2	1,829.27
3/4		3/4		3/4		3/4	3,386.82	3/4	3,128.02	3/4	2,867.95	3/4	2,607.87	3/4	2,346.77	3/4	2,085.30	3/4	1,823.82
5		5		5		5	3,381.50	5	3,122.61	5	2,862.53	5	2,602.45	5	2,341.32	5	2,079.85	5	1,818.37
1/4		1/4		1/4		1/4	3,376.18	1/4	3,117.19	1/4	2,857.11	1/4	2,597.03	1/4	2,335.88	1/4	2,074.40	1/4	1,812.93
1/2		1/2		1/2		1/2	3,370.86	1/2	3,111.77	1/2	2,851.69	1/2	2,591.61	1/2	2,330.43	1/2	2,068.95	1/2	1,807.48
3/4		3/4		3/4		3/4	3,365.53	3/4	3,106.35	3/4	2,846.27	3/4	2,586.19	3/4	2,324.98	3/4	2,063.51	3/4	1,802.03
6		6		6		6	3,360.21	6	3,100.93	6	2,840.85	6	2,580.78	6	2,319.53	6	2,058.06	6	1,796.58
1/4		1/4		1/4		1/4	3,354.89	1/4	3,095.51	1/4	2,835.44	1/4	2,575.36	1/4	2,314.09	1/4	2,052.61	1/4	1,791.14
1/2		1/2		1/2		1/2	3,349.57	1/2	3,090.10	1/2	2,830.02	1/2	2,569.94	1/2	2,308.64	1/2	2,047.16	1/2	1,785.69
3/4		3/4		3/4		3/4	3,344.26	3/4	3,084.68	3/4	2,824.60	3/4	2,564.52	3/4	2,303.19	3/4	2,041.72	3/4	1,780.24
7		7		7		7	3,338.94	7	3,079.26	7	2,819.18	7	2,559.10	7	2,297.74	7	2,036.27	7	1,774.79
1/4		1/4		1/4		1/4	3,333.62	1/4	3,073.84	1/4	2,813.76	1/4	2,553.68	1/4	2,292.30	1/4	2,030.82	1/4	1,769.35
1/2		1/2		1/2		1/2	3,328.30	1/2	3,068.42	1/2	2,808.34	1/2	2,548.27	1/2	2,286.85	1/2	2,025.37	1/2	1,763.90
3/4		3/4		3/4		3/4	3,322.98	3/4	3,063.00	3/4	2,802.93	3/4	2,542.85	3/4	2,281.40	3/4	2,019.93	3/4	1,758.45
8		8		8		8	3,317.67	8	3,057.59	8	2,797.51	8	2,537.43	8	2,275.95	8	2,014.48	8	1,753.00
1/4		1/4		1/4		1/4	3,312.25	1/4	3,052.17	1/4	2,792.09	1/4	2,531.98	1/4	2,270.51	1/4	2,009.03	1/4	1,747.56
1/2		1/2		1/2		1/2	3,306.83	1/2	3,046.75	1/2	2,786.67	1/2	2,526.54	1/2	2,265.06	1/2	2,003.58	1/2	1,742.11
3/4		3/4		3/4		3/4	3,301.41	3/4	3,041.33	3/4	2,781.25	3/4	2,521.09	3/4	2,259.61	3/4	1,998.14	3/4	1,736.66
9		9		9		9	3,295.99	9	3,035.91	9	2,775.84	9	2,515.64	9	2,254.17	9	1,992.69	9	1,731.21
1/4		1/4		1/4		1/4	3,290.57	1/4	3,030.50	1/4	2,770.42	1/4	2,510.19	1/4	2,248.72	1/4	1,987.24	1/4	1,725.77
1/2		1/2		1/2		1/2	3,285.16	1/2	3,025.08	1/2	2,765.00	1/2	2,504.75	1/2	2,243.27	1/2	1,981.80	1/2	1,720.32
3/4		3/4		3/4		3/4	3,279.74	3/4	3,019.66	3/4	2,759.58	3/4	2,499.30	3/4	2,237.82	3/4	1,976.35	3/4	1,714.87
10		10		10		10	3,274.32	10	3,014.24	10	2,754.16	10	2,493.85	10	2,232.38	10	1,970.90	10	1,709.43
1/4		1/4		1/4		1/4	3,268.90	1/4	3,008.82	1/4	2,748.74	1/4	2,488.40	1/4	2,226.93	1/4	1,965.45	1/4	1,703.98
1/2		1/2		1/2		1/2	3,263.48	1/2	3,003.40	1/2	2,743.33	1/2	2,482.96	1/2	2,221.48	1/2	1,960.01	1/2	1,698.53
3/4		3/4		3/4		3/4	3,258.06	3/4	2,997.99	3/4	2,737.91	3/4	2,477.51	3/4	2,216.03	3/4	1,954.56	3/4	1,693.08
11		11		11		11	3,252.65	11	2,992.57	11	2,732.49	11	2,472.06	11	2,210.59	11	1,949.11	11	1,687.64
1/4		1/4		1/4		1/4	3,247.23	1/4	2,987.15	1/4	2,727.07	1/4	2,466.61	1/4	2,205.14	1/4	1,943.66	1/4	1,682.19
1/2		1/2		1/2		1/2	3,466.93	1/2	3,241.81	1/2	2,981.73	1/2	2,721.65	1/2	2,461.17	1/2	2,199.69	1/2	1,938.22
3/4		3/4		3/4		3/4	3,466.47	3/4	3,236.39	3/4	2,976.31	3/4	2,716.23	3/4	2,455.72	3/4	2,194.24	3/4	1,932.77

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 ON CENTERLINE AND 27'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 10221"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	1,665.85	0	1,404.37	0	1,142.72	0	881.95	0	621.07	0	359.45	0	97.91	0		0		0	
1/4	1,660.40	1/4	1,398.92	1/4	1,137.27	1/4	876.54	1/4	615.62	1/4	354.00	1/4	92.50	1/4		1/4		1/4	
1/2	1,654.95	1/2	1,393.47	1/2	1,131.82	1/2	871.12	1/2	610.17	1/2	348.55	1/2	87.08	1/2		1/2		1/2	
3/4	1,649.50	3/4	1,388.02	3/4	1,126.37	3/4	865.71	3/4	604.72	3/4	343.10	3/4	81.67	3/4		3/4		3/4	
1	1,644.06	1	1,382.57	1	1,120.92	1	860.30	1	599.27	1	337.65	1	76.25	1		1		1	
1/4	1,638.61	1/4	1,377.12	1/4	1,115.47	1/4	854.88	1/4	593.82	1/4	332.19	1/4	70.86	1/4		1/4		1/4	
1/2	1,633.16	1/2	1,371.66	1/2	1,110.02	1/2	849.47	1/2	588.37	1/2	326.74	1/2	65.47	1/2		1/2		1/2	
3/4	1,627.71	3/4	1,366.21	3/4	1,104.57	3/4	844.05	3/4	582.92	3/4	321.29	3/4	60.09	3/4		3/4		3/4	
2	1,622.27	2	1,360.76	2	1,099.11	2	838.64	2	577.47	2	315.84	2	54.70	2		2		2	
1/4	1,616.82	1/4	1,355.31	1/4	1,093.66	1/4	833.22	1/4	572.02	1/4	310.39	1/4	49.36	1/4		1/4		1/4	
1/2	1,611.37	1/2	1,349.86	1/2	1,088.21	1/2	827.81	1/2	566.57	1/2	304.94	1/2	44.02	1/2		1/2		1/2	
3/4	1,605.92	3/4	1,344.41	3/4	1,082.76	3/4	822.39	3/4	561.12	3/4	299.49	3/4	38.69	3/4		3/4		3/4	
3	1,600.48	3	1,338.96	3	1,077.31	3	816.98	3	555.67	3	294.04	3	33.35	3		3		3	
1/4	1,595.03	1/4	1,333.51	1/4	1,071.86	1/4	811.57	1/4	550.21	1/4	288.59	1/4	28.81	1/4		1/4		1/4	
1/2	1,589.58	1/2	1,328.06	1/2	1,066.41	1/2	806.16	1/2	544.76	1/2	283.14	1/2	24.28	1/2		1/2		1/2	
3/4	1,584.13	3/4	1,322.61	3/4	1,060.96	3/4	800.75	3/4	539.31	3/4	277.69	3/4	19.75	3/4		3/4		3/4	
4	1,578.69	4	1,317.15	4	1,055.51	4	795.34	4	533.86	4	272.24	4	15.21	4		4		4	
1/4	1,573.24	1/4	1,311.70	1/4	1,050.06	1/4	789.90	1/4	528.41	1/4	266.79	1/4	12.49	1/4		1/4		1/4	
1/2	1,567.79	1/2	1,306.25	1/2	1,044.60	1/2	784.45	1/2	522.96	1/2	261.34	1/2	9.76	1/2		1/2		1/2	
3/4	1,562.35	3/4	1,300.80	3/4	1,039.15	3/4	779.01	3/4	517.51	3/4	255.89	3/4	7.04	3/4		3/4		3/4	
5	1,556.90	5	1,295.35	5	1,033.70	5	773.56	5	512.06	5	250.44	5	4.31	5		5		5	
1/4	1,551.45	1/4	1,289.90	1/4	1,028.25	1/4	768.12	1/4	506.61	1/4	244.99	1/4	3.40	1/4		1/4		1/4	
1/2	1,546.00	1/2	1,284.45	1/2	1,022.80	1/2	762.67	1/2	501.16	1/2	239.54	1/2	2.50	1/2		1/2		1/2	
3/4	1,540.56	3/4	1,279.00	3/4	1,017.35	3/4	757.23	3/4	495.71	3/4	234.09	3/4	1.59	3/4		3/4		3/4	
6	1,535.11	6	1,273.55	6	1,011.90	6	751.78	6	490.26	6	228.64	6	0.68	6		6		6	
1/4	1,529.66	1/4	1,268.10	1/4	1,006.48	1/4	746.33	1/4	484.81	1/4	223.18	1/4		1/4		1/4		1/4	
1/2	1,524.21	1/2	1,262.64	1/2	1,001.07	1/2	740.89	1/2	479.36	1/2	217.73	1/2		1/2		1/2		1/2	
3/4	1,518.77	3/4	1,257.19	3/4	995.66	3/4	735.44	3/4	473.91	3/4	212.28	3/4		3/4		3/4		3/4	
7	1,513.32	7	1,251.74	7	990.24	7	730.00	7	468.46	7	206.83	7		7		7		7	
1/4	1,507.87	1/4	1,246.29	1/4	984.83	1/4	724.55	1/4	463.01	1/4	201.38	1/4		1/4		1/4		1/4	
1/2	1,502.42	1/2	1,240.84	1/2	979.41	1/2	719.11	1/2	457.56	1/2	195.93	1/2		1/2		1/2		1/2	
3/4	1,496.98	3/4	1,235.39	3/4	974.00	3/4	713.66	3/4	452.11	3/4	190.48	3/4		3/4		3/4		3/4	
8	1,491.53	8	1,229.94	8	968.58	8	708.21	8	446.66	8	185.03	8		8		8		8	
1/4	1,486.08	1/4	1,224.49	1/4	963.17	1/4	702.77	1/4	441.20	1/4	179.58	1/4		1/4		1/4		1/4	
1/2	1,480.63	1/2	1,219.04	1/2	957.75	1/2	697.32	1/2	435.75	1/2	174.13	1/2		1/2		1/2		1/2	
3/4	1,475.19	3/4	1,213.59	3/4	952.34	3/4	691.88	3/4	430.30	3/4	168.68	3/4		3/4		3/4		3/4	
9	1,469.74	9	1,208.13	9	946.93	9	686.43	9	424.85	9	163.23	9		9		9		9	
1/4	1,464.29	1/4	1,202.68	1/4	941.51	1/4	680.99	1/4	419.40	1/4	157.78	1/4		1/4		1/4		1/4	
1/2	1,458.84	1/2	1,197.23	1/2	936.10	1/2	675.54	1/2	413.95	1/2	152.33	1/2		1/2		1/2		1/2	
3/4	1,453.40	3/4	1,191.78	3/4	930.68	3/4	670.10	3/4	408.50	3/4	146.88	3/4		3/4		3/4		3/4	
10	1,447.95	10	1,186.33	10	925.27	10	664.65	10	403.05	10	141.43	10		10		10		10	
1/4	1,442.50	1/4	1,180.88	1/4	919.85	1/4	659.21	1/4	397.60	1/4	135.98	1/4		1/4		1/4		1/4	
1/2	1,437.06	1/2	1,175.43	1/2	914.44	1/2	653.76	1/2	392.15	1/2	130.54	1/2		1/2		1/2		1/2	
3/4	1,431.61	3/4	1,169.98	3/4	909.03	3/4	648.32	3/4	386.70	3/4	125.09	3/4		3/4		3/4		3/4	
11	1,426.16	11	1,164.53	11	903.61	11	642.87	11	381.25	11	119.65	11		11		11		11	
1/4	1,420.71	1/4	1,159.08	1/4	898.20	1/4	637.42	1/4	375.80	1/4	114.22	1/4		1/4		1/4		1/4	
1/2	1,415.27	1/2	1,153.62	1/2	892.78	1/2	631.97	1/2	370.35	1/2	108.78	1/2		1/2		1/2		1/2	
3/4	1,409.82	3/4	1,148.17	3/4	887.37	3/4	626.52	3/4	364.90	3/4	103.35	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/17/2010 CL - SW
CALCULATED: 09/18/2010 CL
PRINTED: 09/18/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2010

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