



BARGE "KIRBY 29115"

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	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-3/4	- 01-3/4
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-3/4	- 01-3/4
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-1/2	- 02-1/2
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-1/2	- 02-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 261'-00"

April 11, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29115"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,952.28	0	4,618.26	0	4,278.79	0	3,922.82	0	3,550.99	0	3,174.55	0	2,796.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,946.90	1/4	4,611.37	1/4	4,271.55	1/4	3,915.24	1/4	3,543.15	1/4	3,166.67	1/4	2,788.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,940.22	1/2	4,604.45	1/2	4,264.29	1/2	3,907.63	1/2	3,535.31	1/2	3,158.80	1/2	2,780.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,933.54	3/4	4,597.53	3/4	4,257.02	3/4	3,900.02	3/4	3,527.47	3/4	3,150.92	3/4	2,772.97
1		1		1		1	4,926.87	1	4,590.61	1	4,249.76	1	3,892.40	1	3,519.63	1	3,143.05	1	2,765.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,920.19	1/4	4,583.69	1/4	4,242.49	1/4	3,884.79	1/4	3,511.79	1/4	3,135.18	1/4	2,757.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,912.58	1/2	4,576.74	1/2	4,235.20	1/2	3,877.15	1/2	3,503.95	1/2	3,127.30	1/2	2,749.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,904.97	3/4	4,569.79	3/4	4,227.91	3/4	3,869.52	3/4	3,496.11	3/4	3,119.43	3/4	2,741.47
2		2		2		2	4,897.36	2	4,562.84	2	4,220.62	2	3,861.88	2	3,488.27	2	3,111.55	2	2,733.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,889.75	1/4	4,555.89	1/4	4,213.32	1/4	3,854.24	1/4	3,480.43	1/4	3,103.68	1/4	2,725.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,881.91	1/2	4,548.92	1/2	4,206.00	1/2	3,846.58	1/2	3,472.59	1/2	3,095.81	1/2	2,717.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,874.07	3/4	4,541.94	3/4	4,198.68	3/4	3,838.91	3/4	3,464.75	3/4	3,087.93	3/4	2,709.97
3		3		3		3	4,866.24	3	4,534.96	3	4,191.36	3	3,831.25	3	3,456.91	3	3,080.06	3	2,702.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,858.40	1/4	4,527.98	1/4	4,184.04	1/4	3,823.58	1/4	3,449.08	1/4	3,072.18	1/4	2,694.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,850.99	1/2	4,520.98	1/2	4,176.69	1/2	3,815.89	1/2	3,441.24	1/2	3,064.31	1/2	2,686.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,843.58	3/4	4,513.97	3/4	4,169.33	3/4	3,808.19	3/4	3,433.40	3/4	3,056.44	3/4	2,678.48
4		4		4		4	4,836.18	4	4,506.96	4	4,161.98	4	3,800.50	4	3,425.56	4	3,048.56	4	2,670.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,828.77	1/4	4,499.95	1/4	4,154.63	1/4	3,792.81	1/4	3,417.72	1/4	3,040.69	1/4	2,662.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,822.08	1/2	4,492.92	1/2	4,147.25	1/2	3,785.08	1/2	3,409.88	1/2	3,032.81	1/2	2,654.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,815.39	3/4	4,485.88	3/4	4,139.87	3/4	3,777.36	3/4	3,402.04	3/4	3,024.94	3/4	2,646.98
5		5		5		5	4,808.69	5	4,478.85	5	4,132.50	5	3,769.64	5	3,394.20	5	3,017.06	5	2,639.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,802.00	1/4	4,471.81	1/4	4,125.12	1/4	3,761.91	1/4	3,386.36	1/4	3,009.19	1/4	2,631.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,795.28	1/2	4,464.75	1/2	4,117.71	1/2	3,754.16	1/2	3,378.52	1/2	3,001.32	1/2	2,623.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,788.56	3/4	4,457.68	3/4	4,110.30	3/4	3,746.41	3/4	3,370.68	3/4	2,993.44	3/4	2,615.49
6		6		6		6	4,781.84	6	4,450.62	6	4,102.89	6	3,738.66	6	3,362.84	6	2,985.57	6	2,607.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,775.12	1/4	4,443.55	1/4	4,095.48	1/4	3,730.90	1/4	3,355.01	1/4	2,977.69	1/4	2,599.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,768.37	1/2	4,436.46	1/2	4,088.05	1/2	3,723.12	1/2	3,347.17	1/2	2,969.82	1/2	2,591.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,761.62	3/4	4,429.37	3/4	4,080.61	3/4	3,715.34	3/4	3,339.33	3/4	2,961.95	3/4	2,583.99
7		7		7		7	4,754.86	7	4,422.27	7	4,073.17	7	3,707.56	7	3,331.49	7	2,954.07	7	2,576.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,748.11	1/4	4,415.18	1/4	4,065.73	1/4	3,699.78	1/4	3,323.65	1/4	2,946.20	1/4	2,568.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,741.33	1/2	4,408.05	1/2	4,058.27	1/2	3,691.97	1/2	3,315.81	1/2	2,938.32	1/2	2,560.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,734.55	3/4	4,400.93	3/4	4,050.80	3/4	3,684.16	3/4	3,307.97	3/4	2,930.45	3/4	2,552.49
8		8		8		8	4,727.78	8	4,393.81	8	4,043.34	8	3,676.35	8	3,300.13	8	2,922.58	8	2,544.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,721.00	1/4	4,386.68	1/4	4,035.87	1/4	3,668.54	1/4	3,292.29	1/4	2,914.70	1/4	2,536.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,714.19	1/2	4,379.53	1/2	4,028.37	1/2	3,660.71	1/2	3,284.45	1/2	2,906.83	1/2	2,528.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,707.38	3/4	4,372.38	3/4	4,020.88	3/4	3,652.88	3/4	3,276.61	3/4	2,898.95	3/4	2,521.00
9		9		9		9	4,700.57	9	4,365.23	9	4,013.38	9	3,645.05	9	3,268.77	9	2,891.08	9	2,513.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,693.76	1/4	4,358.08	1/4	4,005.89	1/4	3,637.22	1/4	3,260.93	1/4	2,883.20	1/4	2,505.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,686.92	1/2	4,350.90	1/2	3,998.36	1/2	3,629.38	1/2	3,253.10	1/2	2,875.33	1/2	2,497.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,680.08	3/4	4,343.71	3/4	3,990.84	3/4	3,621.54	3/4	3,245.26	3/4	2,867.46	3/4	2,489.50
10		10		10		10	4,673.25	10	4,336.53	10	3,983.31	10	3,613.70	10	3,237.42	10	2,859.58	10	2,481.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,666.41	1/4	4,329.35	1/4	3,975.79	1/4	3,605.86	1/4	3,229.58	1/4	2,851.71	1/4	2,473.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,659.54	1/2	4,322.14	1/2	3,968.23	1/2	3,598.02	1/2	3,221.73	1/2	2,843.83	1/2	2,465.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,652.67	3/4	4,314.93	3/4	3,960.68	3/4	3,590.18	3/4	3,213.87	3/4	2,835.96	3/4	2,458.00
11		11		11		11	4,645.80	11	4,307.72	11	3,953.13	11	3,582.34	11	3,206.02	11	2,828.09	11	2,450.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,638.94	1/4	4,300.51	1/4	3,945.57	1/4	3,574.50	1/4	3,198.17	1/4	2,820.21	1/4	2,442.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,632.05	1/2	4,293.27	1/2	3,937.99	1/2	3,566.66	1/2	3,190.29	1/2	2,812.34	1/2	2,434.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,957.65	3/4	4,625.15	3/4	4,286.03	3/4	3,930.41	3/4	3,558.82	3/4	3,182.42	3/4	2,426.51

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29115"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,418.63	0	2,040.68	0	1,662.72	0	1,286.15	0	908.97	0	531.05	0	182.79	0		0		0	
1/4	2,410.76	1/4	2,032.80	1/4	1,654.85	1/4	1,278.33	1/4	901.10	1/4	523.19	1/4	176.16	1/4	1/4	1/4		1/4	
1/2	2,402.88	1/2	2,024.93	1/2	1,646.97	1/2	1,270.50	1/2	893.22	1/2	515.37	1/2	169.65	1/2	1/2	1/2		1/2	
3/4	2,395.01	3/4	2,017.05	3/4	1,639.10	3/4	1,262.68	3/4	885.35	3/4	507.56	3/4	163.13	3/4	3/4	3/4		3/4	
1	2,387.14	1	2,009.18	1	1,631.22	1	1,254.85	1	877.47	1	499.74	1	156.61	1	1	1		1	
1/4	2,379.26	1/4	2,001.31	1/4	1,623.35	1/4	1,247.03	1/4	869.60	1/4	491.93	1/4	150.09	1/4	1/4	1/4		1/4	
1/2	2,371.39	1/2	1,993.43	1/2	1,615.47	1/2	1,239.20	1/2	861.73	1/2	484.20	1/2	143.69	1/2	1/2	1/2		1/2	
3/4	2,363.51	3/4	1,985.56	3/4	1,607.60	3/4	1,231.38	3/4	853.85	3/4	476.48	3/4	137.29	3/4	3/4	3/4		3/4	
2	2,355.64	2	1,977.68	2	1,599.73	2	1,223.56	2	845.98	2	468.76	2	130.89	2	2	2		2	
1/4	2,347.77	1/4	1,969.81	1/4	1,591.85	1/4	1,215.73	1/4	838.11	1/4	461.03	1/4	124.48	1/4	1/4	1/4		1/4	
1/2	2,339.89	1/2	1,961.94	1/2	1,583.98	1/2	1,207.91	1/2	830.23	1/2	453.42	1/2	118.20	1/2	1/2	1/2		1/2	
3/4	2,332.02	3/4	1,954.06	3/4	1,576.10	3/4	1,200.08	3/4	822.36	3/4	445.81	3/4	111.92	3/4	3/4	3/4		3/4	
3	2,324.14	3	1,946.19	3	1,568.23	3	1,192.26	3	814.48	3	438.19	3	105.64	3	3	3		3	
1/4	2,316.27	1/4	1,938.31	1/4	1,560.36	1/4	1,184.43	1/4	806.61	1/4	430.58	1/4	99.36	1/4	1/4	1/4		1/4	
1/2	2,308.40	1/2	1,930.44	1/2	1,552.49	1/2	1,176.59	1/2	798.74	1/2	423.07	1/2	93.21	1/2	1/2	1/2		1/2	
3/4	2,300.52	3/4	1,922.56	3/4	1,544.63	3/4	1,168.75	3/4	790.86	3/4	415.57	3/4	87.06	3/4	3/4	3/4		3/4	
4	2,292.65	4	1,914.69	4	1,536.77	4	1,160.90	4	782.99	4	408.06	4	80.91	4	4	4		4	
1/4	2,284.77	1/4	1,906.82	1/4	1,528.90	1/4	1,153.06	1/4	775.11	1/4	400.56	1/4	74.75	1/4	1/4	1/4		1/4	
1/2	2,276.90	1/2	1,898.94	1/2	1,521.06	1/2	1,145.19	1/2	767.24	1/2	393.16	1/2	68.74	1/2	1/2	1/2		1/2	
3/4	2,269.03	3/4	1,891.07	3/4	1,513.21	3/4	1,137.31	3/4	759.37	3/4	385.77	3/4	62.73	3/4	3/4	3/4		3/4	
5	2,261.15	5	1,883.19	5	1,505.37	5	1,129.44	5	751.49	5	378.37	5	56.72	5	5	5		5	
1/4	2,253.28	1/4	1,875.32	1/4	1,497.53	1/4	1,121.57	1/4	743.62	1/4	370.98	1/4	50.71	1/4	1/4	1/4		1/4	
1/2	2,245.40	1/2	1,867.45	1/2	1,489.69	1/2	1,113.69	1/2	735.74	1/2	363.69	1/2	45.30	1/2	1/2	1/2		1/2	
3/4	2,237.53	3/4	1,859.57	3/4	1,481.85	3/4	1,105.82	3/4	727.87	3/4	356.41	3/4	39.88	3/4	3/4	3/4		3/4	
6	2,229.65	6	1,851.70	6	1,474.01	6	1,097.94	6	720.00	6	349.12	6	34.46	6	6	6		6	
1/4	2,221.78	1/4	1,843.82	1/4	1,466.17	1/4	1,090.07	1/4	712.12	1/4	341.83	1/4	29.04	1/4	1/4	1/4		1/4	
1/2	2,213.91	1/2	1,835.95	1/2	1,458.33	1/2	1,082.20	1/2	704.25	1/2	334.66	1/2	25.08	1/2	1/2	1/2		1/2	
3/4	2,206.03	3/4	1,828.08	3/4	1,450.50	3/4	1,074.32	3/4	696.38	3/4	327.48	3/4	21.12	3/4	3/4	3/4		3/4	
7	2,198.16	7	1,820.20	7	1,442.67	7	1,066.45	7	688.50	7	320.30	7	17.15	7	7	7		7	
1/4	2,190.28	1/4	1,812.33	1/4	1,434.84	1/4	1,058.57	1/4	680.63	1/4	313.13	1/4	13.19	1/4	1/4	1/4		1/4	
1/2	2,182.41	1/2	1,804.45	1/2	1,427.01	1/2	1,050.70	1/2	672.75	1/2	306.06	1/2		1/2	1/2	1/2		1/2	
3/4	2,174.54	3/4	1,796.58	3/4	1,419.18	3/4	1,042.83	3/4	664.88	3/4	298.99	3/4		3/4	3/4	3/4		3/4	
8	2,166.66	8	1,788.70	8	1,411.35	8	1,034.95	8	657.01	8	291.93	8		8	8	8		8	
1/4	2,158.79	1/4	1,780.83	1/4	1,403.52	1/4	1,027.08	1/4	649.13	1/4	284.86	1/4		1/4	1/4	1/4		1/4	
1/2	2,150.91	1/2	1,772.96	1/2	1,395.70	1/2	1,019.20	1/2	641.26	1/2	277.90	1/2		1/2	1/2	1/2		1/2	
3/4	2,143.04	3/4	1,765.08	3/4	1,387.87	3/4	1,011.33	3/4	633.38	3/4	270.94	3/4		3/4	3/4	3/4		3/4	
9	2,135.17	9	1,757.21	9	1,380.05	9	1,003.46	9	625.51	9	263.99	9		9	9	9		9	
1/4	2,127.29	1/4	1,749.33	1/4	1,372.22	1/4	995.58	1/4	617.64	1/4	257.03	1/4		1/4	1/4	1/4		1/4	
1/2	2,119.42	1/2	1,741.46	1/2	1,364.40	1/2	987.71	1/2	609.76	1/2	250.18	1/2		1/2	1/2	1/2		1/2	
3/4	2,111.54	3/4	1,733.59	3/4	1,356.58	3/4	979.84	3/4	601.89	3/4	243.33	3/4		3/4	3/4	3/4		3/4	
10	2,103.67	10	1,725.71	10	1,348.75	10	971.96	10	594.01	10	236.48	10		10	10	10		10	
1/4	2,095.79	1/4	1,717.84	1/4	1,340.93	1/4	964.09	1/4	586.14	1/4	229.64	1/4		1/4	1/4	1/4		1/4	
1/2	2,087.92	1/2	1,709.96	1/2	1,333.10	1/2	956.21	1/2	578.27	1/2	222.90	1/2		1/2	1/2	1/2		1/2	
3/4	2,080.05	3/4	1,702.09	3/4	1,325.28	3/4	948.34	3/4	570.39	3/4	216.16	3/4		3/4	3/4	3/4		3/4	
11	2,072.17	11	1,694.22	11	1,317.45	11	940.47	11	562.52	11	209.42	11		11	11	11		11	
1/4	2,064.30	1/4	1,686.34	1/4	1,309.63	1/4	932.59	1/4	554.64	1/4	202.68	1/4		1/4	1/4	1/4		1/4	
1/2	2,056.42	1/2	1,678.47	1/2	1,301.80	1/2	924.72	1/2	546.78	1/2	196.05	1/2		1/2	1/2	1/2		1/2	
3/4	2,048.55	3/4	1,670.59	3/4	1,293.98	3/4	916.84	3/4	538.92	3/4	189.42	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2013 CL - SW
CALCULATED: 04/11/2013 CL
PRINTED: 04/11/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "KIRBY 29115"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4	4,960.00	1/4	4,627.46	1/4	4,288.30	1/4	3,932.63	1/4	3,561.01	1/4	3,184.56	1/4	2,806.56		
1/2		1/2		1/2		1/2	4,954.62	1/2	4,620.57	1/2	4,281.06	1/2	3,925.05	1/2	3,553.17	1/2	3,176.69	1/2	2,798.69		
3/4		3/4		3/4		3/4	4,949.24	3/4	4,613.67	3/4	4,273.81	3/4	3,917.47	3/4	3,545.33	3/4	3,168.81	3/4	2,790.81		
1	1	1	1	1	1	1	4,942.56	1	4,606.75	1	4,266.55	1	3,909.85	1	3,537.49	1	3,160.94	1	2,782.94		
1/4		1/4		1/4		1/4	4,935.88	1/4	4,599.83	1/4	4,259.28	1/4	3,902.24	1/4	3,529.65	1/4	3,153.06	1/4	2,775.06		
1/2		1/2		1/2		1/2	4,929.21	1/2	4,592.91	1/2	4,252.02	1/2	3,894.63	1/2	3,521.81	1/2	3,145.19	1/2	2,767.19		
3/4		3/4		3/4		3/4	4,922.53	3/4	4,585.99	3/4	4,244.75	3/4	3,887.01	3/4	3,513.97	3/4	3,137.31	3/4	2,759.31		
2	2	2	2	2	2	2	4,914.92	2	4,579.04	2	4,237.46	2	3,879.37	2	3,506.13	2	3,129.44	2	2,751.44		
1/4		1/4		1/4		1/4	4,907.31	1/4	4,572.09	1/4	4,230.17	1/4	3,871.74	1/4	3,498.29	1/4	3,121.56	1/4	2,743.56		
1/2		1/2		1/2		1/2	4,899.70	1/2	4,565.14	1/2	4,222.87	1/2	3,864.10	1/2	3,490.45	1/2	3,113.69	1/2	2,735.69		
3/4		3/4		3/4		3/4	4,892.09	3/4	4,558.19	3/4	4,215.58	3/4	3,856.46	3/4	3,482.61	3/4	3,105.81	3/4	2,727.81		
3	3	3	3	3	3	3	4,884.25	3	4,551.21	3	4,208.26	3	3,848.80	3	3,474.77	3	3,097.94	3	2,719.94		
1/4		1/4		1/4		1/4	4,876.41	1/4	4,544.24	1/4	4,200.94	1/4	3,841.13	1/4	3,466.93	1/4	3,090.06	1/4	2,712.06		
1/2		1/2		1/2		1/2	4,868.57	1/2	4,537.26	1/2	4,193.61	1/2	3,833.46	1/2	3,459.09	1/2	3,082.19	1/2	2,704.19		
3/4		3/4		3/4		3/4	4,860.73	3/4	4,530.28	3/4	4,186.29	3/4	3,825.80	3/4	3,451.25	3/4	3,074.31	3/4	2,696.31		
4	4	4	4	4	4	4	4,853.32	4	4,523.27	4	4,178.94	4	3,818.10	4	3,443.41	4	3,066.44	4	2,688.44		
1/4		1/4		1/4		1/4	4,845.92	1/4	4,516.26	1/4	4,171.59	1/4	3,810.41	1/4	3,435.57	1/4	3,058.56	1/4	2,680.56		
1/2		1/2		1/2		1/2	4,838.51	1/2	4,509.25	1/2	4,164.24	1/2	3,802.71	1/2	3,427.73	1/2	3,050.69	1/2	2,672.69		
3/4		3/4		3/4		3/4	4,831.10	3/4	4,502.25	3/4	4,156.89	3/4	3,795.02	3/4	3,419.89	3/4	3,042.81	3/4	2,664.81		
5	5	5	5	5	5	5	4,824.41	5	4,495.21	5	4,149.51	5	3,787.29	5	3,412.05	5	3,034.94	5	2,656.94		
1/4		1/4		1/4		1/4	4,817.71	1/4	4,488.17	1/4	4,142.13	1/4	3,779.57	1/4	3,404.21	1/4	3,027.06	1/4	2,649.06		
1/2		1/2		1/2		1/2	4,811.02	1/2	4,481.14	1/2	4,134.74	1/2	3,771.85	1/2	3,396.37	1/2	3,019.19	1/2	2,641.19		
3/4		3/4		3/4		3/4	4,804.33	3/4	4,474.10	3/4	4,127.36	3/4	3,764.12	3/4	3,388.53	3/4	3,011.31	3/4	2,633.31		
6	6	6	6	6	6	6	4,797.61	6	4,467.04	6	4,119.96	6	3,756.37	6	3,380.69	6	3,003.44	6	2,625.44		
1/4		1/4		1/4		1/4	4,790.88	1/4	4,459.97	1/4	4,112.55	1/4	3,748.62	1/4	3,372.85	1/4	2,995.56	1/4	2,617.56		
1/2		1/2		1/2		1/2	4,784.16	1/2	4,452.90	1/2	4,105.14	1/2	3,740.86	1/2	3,365.01	1/2	2,987.69	1/2	2,609.69		
3/4		3/4		3/4		3/4	4,777.44	3/4	4,445.84	3/4	4,097.73	3/4	3,733.11	3/4	3,357.17	3/4	2,979.81	3/4	2,601.81		
7	7	7	7	7	7	7	4,770.69	7	4,438.74	7	4,090.29	7	3,725.33	7	3,349.33	7	2,971.94	7	2,593.94		
1/4		1/4		1/4		1/4	4,763.94	1/4	4,431.65	1/4	4,082.85	1/4	3,717.55	1/4	3,341.49	1/4	2,964.06	1/4	2,586.06		
1/2		1/2		1/2		1/2	4,757.19	1/2	4,424.55	1/2	4,075.41	1/2	3,709.76	1/2	3,333.65	1/2	2,956.19	1/2	2,578.19		
3/4		3/4		3/4		3/4	4,750.43	3/4	4,417.46	3/4	4,067.97	3/4	3,701.98	3/4	3,325.81	3/4	2,948.31	3/4	2,570.31		
8	8	8	8	8	8	8	4,743.65	8	4,410.34	8	4,060.51	8	3,694.17	8	3,317.97	8	2,940.44	8	2,562.44		
1/4		1/4		1/4		1/4	4,736.87	1/4	4,403.21	1/4	4,053.04	1/4	3,686.36	1/4	3,310.12	1/4	2,932.56	1/4	2,554.56		
1/2		1/2		1/2		1/2	4,730.09	1/2	4,396.09	1/2	4,045.57	1/2	3,678.55	1/2	3,302.28	1/2	2,924.69	1/2	2,546.69		
3/4		3/4		3/4		3/4	4,723.31	3/4	4,388.96	3/4	4,038.11	3/4	3,670.74	3/4	3,294.44	3/4	2,916.81	3/4	2,538.81		
9	9	9	9	9	9	9	4,716.50	9	4,381.81	9	4,030.61	9	3,662.91	9	3,286.60	9	2,908.94	9	2,530.94		
1/4		1/4		1/4		1/4	4,709.69	1/4	4,374.66	1/4	4,023.11	1/4	3,655.07	1/4	3,278.76	1/4	2,901.06	1/4	2,523.06		
1/2		1/2		1/2		1/2	4,702.88	1/2	4,367.51	1/2	4,015.62	1/2	3,647.24	1/2	3,270.92	1/2	2,893.19	1/2	2,515.19		
3/4		3/4		3/4		3/4	4,696.07	3/4	4,360.35	3/4	4,008.12	3/4	3,639.41	3/4	3,263.08	3/4	2,885.31	3/4	2,507.31		
10	10	10	10	10	10	10	4,689.23	10	4,353.17	10	4,000.60	10	3,631.57	10	3,255.24	10	2,877.44	10	2,499.44		
1/4		1/4		1/4		1/4	4,682.40	1/4	4,345.99	1/4	3,993.07	1/4	3,623.73	1/4	3,247.40	1/4	2,869.56	1/4	2,491.56		
1/2		1/2		1/2		1/2	4,675.56	1/2	4,338.80	1/2	3,985.54	1/2	3,615.89	1/2	3,239.56	1/2	2,861.69	1/2	2,483.69		
3/4		3/4		3/4		3/4	4,668.72	3/4	4,331.62	3/4	3,978.02	3/4	3,608.05	3/4	3,231.72	3/4	2,853.81	3/4	2,475.81		
11	11	11	11	11	11	11	4,661.85	11	4,324.41	11	3,970.46	11	3,600.21	11	3,223.87	11	2,845.94	11	2,467.94		
1/4		1/4		1/4		1/4	4,654.98	1/4	4,317.20	1/4	3,962.91	1/4	3,592.37	1/4	3,216.02	1/4	2,838.06	1/4	2,460.06		
1/2		1/2		1/2		1/2	4,648.11	1/2	4,309.99	1/2	3,955.35	1/2	3,584.53	1/2	3,208.16	1/2	2,830.19	1/2	2,452.19		
3/4		3/4		3/4		3/4	4,641.24	3/4	4,302.78	3/4	3,947.80	3/4	3,576.69	3/4	3,200.31	3/4	2,822.31	3/4	2,444.31		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29115"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,436.44	0	2,058.44	0	1,680.44	0	1,302.44	0	924.71	0	546.84	0	196.07	0		0		0	
1/4	2,428.56	1/4	2,050.56	1/4	1,672.56	1/4	1,294.56	1/4	916.85	1/4	538.98	1/4	189.44	1/4	1/4	1/4		1/4	1/4
1/2	2,420.69	1/2	2,042.69	1/2	1,664.69	1/2	1,286.69	1/2	908.98	1/2	531.11	1/2	182.81	1/2	1/2	1/2		1/2	1/2
3/4	2,412.81	3/4	2,034.81	3/4	1,656.81	3/4	1,278.81	3/4	901.12	3/4	523.25	3/4	176.18	3/4	3/4	3/4		3/4	3/4
1	2,404.94	1	2,026.94	1	1,648.94	1	1,270.94	1	893.26	1	515.43	1	169.66	1	1	1		1	1
1/4	2,397.06	1/4	2,019.06	1/4	1,641.06	1/4	1,263.06	1/4	885.40	1/4	507.62	1/4	163.15	1/4	1/4	1/4		1/4	1/4
1/2	2,389.19	1/2	2,011.19	1/2	1,633.19	1/2	1,255.19	1/2	877.53	1/2	499.80	1/2	156.63	1/2	1/2	1/2		1/2	1/2
3/4	2,381.31	3/4	2,003.31	3/4	1,625.31	3/4	1,247.31	3/4	869.67	3/4	491.98	3/4	150.11	3/4	3/4	3/4		3/4	3/4
2	2,373.44	2	1,995.44	2	1,617.44	2	1,239.44	2	861.80	2	484.26	2	143.71	2	2	2		2	2
1/4	2,365.56	1/4	1,987.56	1/4	1,609.56	1/4	1,231.56	1/4	853.94	1/4	476.53	1/4	137.30	1/4	1/4	1/4		1/4	1/4
1/2	2,357.69	1/2	1,979.69	1/2	1,601.69	1/2	1,223.69	1/2	846.07	1/2	468.81	1/2	130.90	1/2	1/2	1/2		1/2	1/2
3/4	2,349.81	3/4	1,971.81	3/4	1,593.81	3/4	1,215.81	3/4	838.20	3/4	461.09	3/4	124.50	3/4	3/4	3/4		3/4	3/4
3	2,341.94	3	1,963.94	3	1,585.94	3	1,207.94	3	830.33	3	453.47	3	118.22	3	3	3		3	3
1/4	2,334.06	1/4	1,956.06	1/4	1,578.06	1/4	1,200.06	1/4	822.45	1/4	445.86	1/4	111.94	1/4	1/4	1/4		1/4	1/4
1/2	2,326.19	1/2	1,948.19	1/2	1,570.19	1/2	1,192.19	1/2	814.58	1/2	438.24	1/2	105.65	1/2	1/2	1/2		1/2	1/2
3/4	2,318.31	3/4	1,940.31	3/4	1,562.31	3/4	1,184.31	3/4	806.70	3/4	430.63	3/4	99.37	3/4	3/4	3/4		3/4	3/4
4	2,310.44	4	1,932.44	4	1,554.44	4	1,176.44	4	798.83	4	423.12	4	93.22	4	4	4		4	4
1/4	2,302.56	1/4	1,924.56	1/4	1,546.56	1/4	1,168.56	1/4	790.95	1/4	415.62	1/4	87.07	1/4	1/4	1/4		1/4	1/4
1/2	2,294.69	1/2	1,916.69	1/2	1,538.69	1/2	1,160.69	1/2	783.08	1/2	408.11	1/2	80.91	1/2	1/2	1/2		1/2	1/2
3/4	2,286.81	3/4	1,908.81	3/4	1,530.81	3/4	1,152.81	3/4	775.20	3/4	400.60	3/4	74.76	3/4	3/4	3/4		3/4	3/4
5	2,278.94	5	1,900.94	5	1,522.94	5	1,144.94	5	767.33	5	393.21	5	68.75	5	5	5		5	5
1/4	2,271.06	1/4	1,893.06	1/4	1,515.06	1/4	1,137.06	1/4	759.45	1/4	385.81	1/4	62.74	1/4	1/4	1/4		1/4	1/4
1/2	2,263.19	1/2	1,885.19	1/2	1,507.19	1/2	1,129.19	1/2	751.58	1/2	378.42	1/2	56.73	1/2	1/2	1/2		1/2	1/2
3/4	2,255.31	3/4	1,877.31	3/4	1,499.31	3/4	1,121.31	3/4	743.70	3/4	371.02	3/4	50.72	3/4	3/4	3/4		3/4	3/4
6	2,247.44	6	1,869.44	6	1,491.44	6	1,113.44	6	735.83	6	363.73	6	45.30	6	6	6		6	6
1/4	2,239.56	1/4	1,861.56	1/4	1,483.56	1/4	1,105.57	1/4	727.95	1/4	356.45	1/4	39.88	1/4	1/4	1/4		1/4	1/4
1/2	2,231.69	1/2	1,853.69	1/2	1,475.69	1/2	1,097.70	1/2	720.08	1/2	349.16	1/2	34.47	1/2	1/2	1/2		1/2	1/2
3/4	2,223.81	3/4	1,845.81	3/4	1,467.81	3/4	1,089.83	3/4	712.20	3/4	341.87	3/4	29.05	3/4	3/4	3/4		3/4	3/4
7	2,215.94	7	1,837.94	7	1,459.94	7	1,081.97	7	704.33	7	334.70	7	25.08	7	7	7		7	7
1/4	2,208.06	1/4	1,830.06	1/4	1,452.06	1/4	1,074.10	1/4	696.45	1/4	327.52	1/4	21.12	1/4	1/4	1/4		1/4	1/4
1/2	2,200.19	1/2	1,822.19	1/2	1,444.19	1/2	1,066.24	1/2	688.58	1/2	320.34	1/2	17.15	1/2	1/2	1/2		1/2	1/2
3/4	2,192.31	3/4	1,814.31	3/4	1,436.31	3/4	1,058.38	3/4	680.71	3/4	313.16	3/4	13.19	3/4	3/4	3/4		3/4	3/4
8	2,184.44	8	1,806.44	8	1,428.44	8	1,050.52	8	672.83	8	306.10	8		8	8	8		8	8
1/4	2,176.56	1/4	1,798.56	1/4	1,420.56	1/4	1,042.65	1/4	664.96	1/4	299.03	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,168.69	1/2	1,790.69	1/2	1,412.69	1/2	1,034.79	1/2	657.08	1/2	291.96	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,160.81	3/4	1,782.81	3/4	1,404.81	3/4	1,026.93	3/4	649.21	3/4	284.89	3/4		3/4	3/4	3/4		3/4	3/4
9	2,152.94	9	1,774.94	9	1,396.94	9	1,019.06	9	641.33	9	277.93	9		9	9	9		9	9
1/4	2,145.06	1/4	1,767.06	1/4	1,389.06	1/4	1,011.20	1/4	633.46	1/4	270.98	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,137.19	1/2	1,759.19	1/2	1,381.19	1/2	1,003.34	1/2	625.58	1/2	264.02	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,129.31	3/4	1,751.31	3/4	1,373.31	3/4	995.48	3/4	617.71	3/4	257.06	3/4		3/4	3/4	3/4		3/4	3/4
10	2,121.44	10	1,743.44	10	1,365.44	10	987.61	10	609.83	10	250.21	10		10	10	10		10	10
1/4	2,113.56	1/4	1,735.56	1/4	1,357.56	1/4	979.75	1/4	601.96	1/4	243.36	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,105.69	1/2	1,727.69	1/2	1,349.69	1/2	971.89	1/2	594.08	1/2	236.51	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,097.81	3/4	1,719.81	3/4	1,341.81	3/4	964.02	3/4	586.21	3/4	229.66	3/4		3/4	3/4	3/4		3/4	3/4
11	2,089.94	11	1,711.94	11	1,333.94	11	956.16	11	578.33	11	222.92	11		11	11	11		11	11
1/4	2,082.06	1/4	1,704.06	1/4	1,326.06	1/4	948.30	1/4	570.46	1/4	216.18	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,074.19	1/2	1,696.19	1/2	1,318.19	1/2	940.44	1/2	562.58	1/2	209.44	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,066.31	3/4	1,688.31	3/4	1,310.31	3/4	932.57	3/4	554.71	3/4	202.70	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2013 CL - SW
CALCULATED: 04/11/2013 CL
PRINTED: 04/11/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "KIRBY 29115"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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		
									4,462.25		4,139.42		3,801.45		3,448.70		3,091.10		2,732.01		
1/4		1/4		1/4		1/4		1/4	4,455.67	1/4	4,132.52	1/4	3,794.24	1/4	3,441.25	1/4	3,083.62	1/4	2,724.53		
1/2		1/2		1/2		1/2		1/2	4,766.13	1/2	4,449.09	1/2	4,125.62	1/2	3,787.03	1/2	3,433.80	1/2	3,076.13	1/2	2,717.05
3/4		3/4		3/4		3/4		3/4	4,761.02	3/4	4,442.51	3/4	4,118.72	3/4	3,779.81	3/4	3,426.35	3/4	3,068.65	3/4	2,709.57
1	1	1	1	1	1	1	1	1	4,435.90	1	4,111.82	1	3,772.60	1	3,418.90	1	3,061.17	1	2,702.09		
1/4		1/4		1/4		1/4		1/4	4,749.56	1/4	4,429.33	1/4	4,104.90	1/4	3,765.36	1/4	3,411.45	1/4	3,053.69	1/4	2,694.61
1/2		1/2		1/2		1/2		1/2	4,743.22	1/2	4,422.72	1/2	4,097.98	1/2	3,758.12	1/2	3,404.00	1/2	3,046.21	1/2	2,687.13
3/4		3/4		3/4		3/4		3/4	4,736.88	3/4	4,416.12	3/4	4,091.06	3/4	3,750.88	3/4	3,396.56	3/4	3,038.73	3/4	2,679.65
2	2	2	2	2	2	2	2	2	4,730.53	2	4,409.51	2	4,084.14	2	3,743.64	2	3,389.11	2	3,031.25	2	2,672.17
1/4		1/4		1/4		1/4		1/4	4,723.31	1/4	4,402.88	1/4	4,077.19	1/4	3,736.37	1/4	3,381.66	1/4	3,023.77	1/4	2,664.69
1/2		1/2		1/2		1/2		1/2	4,716.08	1/2	4,396.24	1/2	4,070.24	1/2	3,729.11	1/2	3,374.21	1/2	3,016.29	1/2	2,657.20
3/4		3/4		3/4		3/4		3/4	4,708.85	3/4	4,389.61	3/4	4,063.30	3/4	3,721.85	3/4	3,366.76	3/4	3,008.81	3/4	2,649.72
3	3	3	3	3	3	3	3	3	4,701.62	3	4,382.98	3	4,056.35	3	3,714.58	3	3,359.31	3	3,001.33	3	2,642.24
1/4		1/4		1/4		1/4		1/4	4,694.17	1/4	4,376.32	1/4	4,049.37	1/4	3,707.29	1/4	3,351.86	1/4	2,993.84	1/4	2,634.76
1/2		1/2		1/2		1/2		1/2	4,686.72	1/2	4,369.66	1/2	4,042.40	1/2	3,700.01	1/2	3,344.41	1/2	2,986.36	1/2	2,627.28
3/4		3/4		3/4		3/4		3/4	4,679.27	3/4	4,363.00	3/4	4,035.43	3/4	3,692.72	3/4	3,336.97	3/4	2,978.88	3/4	2,619.80
4	4	4	4	4	4	4	4	4	4,671.82	4	4,356.34	4	4,028.45	4	3,685.43	4	3,329.52	4	2,971.40	4	2,612.32
1/4		1/4		1/4		1/4		1/4	4,664.77	1/4	4,349.66	1/4	4,021.45	1/4	3,678.11	1/4	3,322.07	1/4	2,963.92	1/4	2,604.84
1/2		1/2		1/2		1/2		1/2	4,657.72	1/2	4,342.97	1/2	4,014.45	1/2	3,670.80	1/2	3,314.62	1/2	2,956.44	1/2	2,597.36
3/4		3/4		3/4		3/4		3/4	4,650.67	3/4	4,336.29	3/4	4,007.45	3/4	3,663.48	3/4	3,307.17	3/4	2,948.96	3/4	2,589.88
5	5	5	5	5	5	5	5	5	4,643.62	5	4,329.60	5	4,000.45	5	3,656.16	5	3,299.72	5	2,941.48	5	2,582.40
1/4		1/4		1/4		1/4		1/4	4,637.22	1/4	4,322.89	1/4	3,993.42	1/4	3,648.82	1/4	3,292.27	1/4	2,934.00	1/4	2,574.91
1/2		1/2		1/2		1/2		1/2	4,630.82	1/2	4,316.18	1/2	3,986.40	1/2	3,641.48	1/2	3,284.82	1/2	2,926.52	1/2	2,567.43
3/4		3/4		3/4		3/4		3/4	4,624.43	3/4	4,309.47	3/4	3,979.37	3/4	3,634.14	3/4	3,277.38	3/4	2,919.04	3/4	2,559.95
6	6	6	6	6	6	6	6	6	4,618.03	6	4,302.75	6	3,972.34	6	3,626.80	6	3,269.93	6	2,911.56	6	2,552.47
1/4		1/4		1/4		1/4		1/4	4,611.61	1/4	4,296.01	1/4	3,965.29	1/4	3,619.43	1/4	3,262.48	1/4	2,904.07	1/4	2,544.99
1/2		1/2		1/2		1/2		1/2	4,605.18	1/2	4,289.28	1/2	3,958.23	1/2	3,612.06	1/2	3,255.03	1/2	2,896.59	1/2	2,537.51
3/4		3/4		3/4		3/4		3/4	4,598.76	3/4	4,282.54	3/4	3,951.18	3/4	3,604.69	3/4	3,247.58	3/4	2,889.11	3/4	2,530.03
7	7	7	7	7	7	7	7	7	4,592.34	7	4,275.80	7	3,944.13	7	3,597.32	7	3,240.13	7	2,881.63	7	2,522.55
1/4		1/4		1/4		1/4		1/4	4,585.88	1/4	4,269.03	1/4	3,937.05	1/4	3,589.92	1/4	3,232.68	1/4	2,874.15	1/4	2,515.07
1/2		1/2		1/2		1/2		1/2	4,579.43	1/2	4,262.27	1/2	3,929.97	1/2	3,582.53	1/2	3,225.23	1/2	2,866.67	1/2	2,507.59
3/4		3/4		3/4		3/4		3/4	4,572.98	3/4	4,255.50	3/4	3,922.89	3/4	3,575.13	3/4	3,217.78	3/4	2,859.19	3/4	2,500.11
8	8	8	8	8	8	8	8	8	4,566.53	8	4,248.74	8	3,915.81	8	3,567.74	8	3,210.34	8	2,851.71	8	2,492.62
1/4		1/4		1/4		1/4		1/4	4,560.05	1/4	4,241.95	1/4	3,908.70	1/4	3,560.32	1/4	3,202.89	1/4	2,844.23	1/4	2,485.14
1/2		1/2		1/2		1/2		1/2	4,553.58	1/2	4,235.15	1/2	3,901.59	1/2	3,552.90	1/2	3,195.44	1/2	2,836.75	1/2	2,477.66
3/4		3/4		3/4		3/4		3/4	4,547.10	3/4	4,228.36	3/4	3,894.49	3/4	3,545.47	3/4	3,187.99	3/4	2,829.27	3/4	2,470.18
9	9	9	9	9	9	9	9	9	4,540.62	9	4,221.57	9	3,887.38	9	3,538.05	9	3,180.54	9	2,821.78	9	2,462.70
1/4		1/4		1/4		1/4		1/4	4,534.12	1/4	4,214.75	1/4	3,880.25	1/4	3,530.61	1/4	3,173.09	1/4	2,814.30	1/4	2,455.22
1/2		1/2		1/2		1/2		1/2	4,527.61	1/2	4,207.93	1/2	3,873.11	1/2	3,523.17	1/2	3,165.64	1/2	2,806.82	1/2	2,447.74
3/4		3/4		3/4		3/4		3/4	4,521.11	3/4	4,201.11	3/4	3,865.98	3/4	3,515.73	3/4	3,158.19	3/4	2,799.34	3/4	2,440.26
10	10	10	10	10	10	10	10	10	4,514.61	10	4,194.29	10	3,858.84	10	3,508.29	10	3,150.75	10	2,791.86	10	2,432.78
1/4		1/4		1/4		1/4		1/4	4,508.08	1/4	4,187.45	1/4	3,851.68	1/4	3,500.84	1/4	3,143.30	1/4	2,784.38	1/4	2,425.30
1/2		1/2		1/2		1/2		1/2	4,501.55	1/2	4,180.60	1/2	3,844.52	1/2	3,493.39	1/2	3,135.85	1/2	2,776.90	1/2	2,417.82
3/4		3/4		3/4		3/4		3/4	4,495.01	3/4	4,173.76	3/4	3,837.36	3/4	3,485.94	3/4	3,128.40	3/4	2,769.42	3/4	2,410.33
11	11	11	11	11	11	11	11	11	4,488.48	11	4,166.91	11	3,830.20	11	3,478.49	11	3,120.95	11	2,761.94	11	2,402.85
1/4		1/4		1/4		1/4		1/4	4,481.93	1/4	4,160.04	1/4	3,823.02	1/4	3,471.04	1/4	3,113.49	1/4	2,754.46	1/4	2,395.37
1/2		1/2		1/2		1/2		1/2	4,475.37	1/2	4,153.17	1/2	3,815.83	1/2	3,463.60	1/2	3,106.02	1/2	2,746.98	1/2	2,387.89
3/4		3/4		3/4		3/4		3/4	4,468.81	3/4	4,146.30	3/4	3,808.64	3/4	3,456.15	3/4	3,098.56	3/4	2,739.49	3/4	2,380.41

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29115"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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	2,372.93	0	2,013.85	0	1,654.76	0	1,304.03	0	959.13	0	602.02	0	242.95	0		0		0	
1/4	2,365.45	1/4	2,006.37	1/4	1,647.28	1/4	1,296.83	1/4	951.95	1/4	594.54	1/4	235.47	1/4	1/4		1/4		1/4
1/2	2,357.97	1/2	1,998.89	1/2	1,639.80	1/2	1,289.63	1/2	944.77	1/2	587.06	1/2	227.99	1/2	1/2		1/2		1/2
3/4	2,350.49	3/4	1,991.40	3/4	1,632.32	3/4	1,282.43	3/4	937.60	3/4	579.58	3/4	220.51	3/4	3/4		3/4		3/4
1	2,343.01	1	1,983.92	1	1,624.84	1	1,275.23	1	930.42	1	572.10	1	213.02	1	1		1		1
1/4	2,335.53	1/4	1,976.44	1/4	1,617.36	1/4	1,268.04	1/4	923.13	1/4	564.62	1/4	205.55	1/4	1/4		1/4		1/4
1/2	2,328.04	1/2	1,968.96	1/2	1,609.88	1/2	1,260.84	1/2	915.83	1/2	557.14	1/2	198.07	1/2	1/2		1/2		1/2
3/4	2,320.56	3/4	1,961.48	3/4	1,602.40	3/4	1,253.64	3/4	908.54	3/4	549.66	3/4	190.59	3/4	3/4		3/4		3/4
2	2,313.08	2	1,954.00	2	1,594.92	2	1,246.44	2	901.25	2	542.17	2	183.11	2	2		2		2
1/4	2,305.60	1/4	1,946.52	1/4	1,587.44	1/4	1,239.24	1/4	893.77	1/4	534.69	1/4	175.64	1/4	1/4		1/4		1/4
1/2	2,298.12	1/2	1,939.04	1/2	1,579.95	1/2	1,232.05	1/2	886.29	1/2	527.21	1/2	168.17	1/2	1/2		1/2		1/2
3/4	2,290.64	3/4	1,931.56	3/4	1,572.47	3/4	1,224.85	3/4	878.81	3/4	519.73	3/4	160.69	3/4	3/4		3/4		3/4
3	2,283.16	3	1,924.08	3	1,564.99	3	1,217.65	3	871.33	3	512.25	3	153.22	3	3		3		3
1/4	2,275.68	1/4	1,916.60	1/4	1,557.51	1/4	1,210.46	1/4	863.85	1/4	504.77	1/4	145.76	1/4	1/4		1/4		1/4
1/2	2,268.20	1/2	1,909.11	1/2	1,550.03	1/2	1,203.26	1/2	856.36	1/2	497.29	1/2	138.30	1/2	1/2		1/2		1/2
3/4	2,260.72	3/4	1,901.63	3/4	1,542.55	3/4	1,196.07	3/4	848.88	3/4	489.81	3/4	130.84	3/4	3/4		3/4		3/4
4	2,253.24	4	1,894.15	4	1,535.07	4	1,188.88	4	841.40	4	482.33	4	123.38	4	4		4		4
1/4	2,245.75	1/4	1,886.67	1/4	1,527.69	1/4	1,181.69	1/4	833.92	1/4	474.85	1/4	115.93	1/4	1/4		1/4		1/4
1/2	2,238.27	1/2	1,879.19	1/2	1,520.32	1/2	1,174.51	1/2	826.44	1/2	467.37	1/2	108.49	1/2	1/2		1/2		1/2
3/4	2,230.79	3/4	1,871.71	3/4	1,512.94	3/4	1,167.32	3/4	818.96	3/4	459.89	3/4	101.05	3/4	3/4		3/4		3/4
5	2,223.31	5	1,864.23	5	1,505.57	5	1,160.14	5	811.48	5	452.41	5	93.61	5	5		5		5
1/4	2,215.83	1/4	1,856.75	1/4	1,498.37	1/4	1,152.95	1/4	804.00	1/4	444.93	1/4	86.19	1/4	1/4		1/4		1/4
1/2	2,208.35	1/2	1,849.27	1/2	1,491.17	1/2	1,145.77	1/2	796.52	1/2	437.45	1/2	78.78	1/2	1/2		1/2		1/2
3/4	2,200.87	3/4	1,841.79	3/4	1,483.98	3/4	1,138.59	3/4	789.04	3/4	429.96	3/4	71.37	3/4	3/4		3/4		3/4
6	2,193.39	6	1,834.31	6	1,476.78	6	1,131.40	6	781.56	6	422.48	6	63.96	6	6		6		6
1/4	2,185.91	1/4	1,826.82	1/4	1,469.58	1/4	1,124.23	1/4	774.08	1/4	415.00	1/4	57.01	1/4	1/4		1/4		1/4
1/2	2,178.43	1/2	1,819.34	1/2	1,462.38	1/2	1,117.05	1/2	766.60	1/2	407.52	1/2	50.05	1/2	1/2		1/2		1/2
3/4	2,170.95	3/4	1,811.86	3/4	1,455.18	3/4	1,109.87	3/4	759.12	3/4	400.04	3/4	43.10	3/4	3/4		3/4		3/4
7	2,163.47	7	1,804.38	7	1,447.99	7	1,102.69	7	751.63	7	392.56	7	36.15	7	7		7		7
1/4	2,155.98	1/4	1,796.90	1/4	1,440.79	1/4	1,095.51	1/4	744.15	1/4	385.08	1/4	30.85	1/4	1/4		1/4		1/4
1/2	2,148.50	1/2	1,789.42	1/2	1,433.59	1/2	1,088.34	1/2	736.67	1/2	377.60	1/2	25.56	1/2	1/2		1/2		1/2
3/4	2,141.02	3/4	1,781.94	3/4	1,426.39	3/4	1,081.16	3/4	729.19	3/4	370.12	3/4	20.26	3/4	3/4		3/4		3/4
8	2,133.54	8	1,774.46	8	1,419.19	8	1,073.98	8	721.71	8	362.64	8	14.96	8	8		8		8
1/4	2,126.06	1/4	1,766.98	1/4	1,412.00	1/4	1,066.80	1/4	714.23	1/4	355.16	1/4		1/4	1/4		1/4		1/4
1/2	2,118.58	1/2	1,759.50	1/2	1,404.80	1/2	1,059.62	1/2	706.75	1/2	347.68	1/2		1/2	1/2		1/2		1/2
3/4	2,111.10	3/4	1,752.02	3/4	1,397.60	3/4	1,052.45	3/4	699.27	3/4	340.20	3/4		3/4	3/4		3/4		3/4
9	2,103.62	9	1,744.53	9	1,390.40	9	1,045.27	9	691.79	9	332.72	9		9	9		9		9
1/4	2,096.14	1/4	1,737.05	1/4	1,383.20	1/4	1,038.09	1/4	684.31	1/4	325.23	1/4		1/4	1/4		1/4		1/4
1/2	2,088.66	1/2	1,729.57	1/2	1,376.01	1/2	1,030.91	1/2	676.83	1/2	317.75	1/2		1/2	1/2		1/2		1/2
3/4	2,081.18	3/4	1,722.09	3/4	1,368.81	3/4	1,023.73	3/4	669.35	3/4	310.27	3/4		3/4	3/4		3/4		3/4
10	2,073.69	10	1,714.61	10	1,361.61	10	1,016.55	10	661.87	10	302.79	10		10	10		10		10
1/4	2,066.21	1/4	1,707.13	1/4	1,354.41	1/4	1,009.38	1/4	654.39	1/4	295.31	1/4		1/4	1/4		1/4		1/4
1/2	2,058.73	1/2	1,699.65	1/2	1,347.21	1/2	1,002.20	1/2	646.90	1/2	287.83	1/2		1/2	1/2		1/2		1/2
3/4	2,051.25	3/4	1,692.17	3/4	1,340.02	3/4	995.02	3/4	639.42	3/4	280.35	3/4		3/4	3/4		3/4		3/4
11	2,043.77	11	1,684.69	11	1,332.82	11	987.84	11	631.94	11	272.87	11		11	11		11		11
1/4	2,036.29	1/4	1,677.21	1/4	1,325.62	1/4	980.66	1/4	624.46	1/4	265.39	1/4		1/4	1/4		1/4		1/4
1/2	2,028.81	1/2	1,669.73	1/2	1,318.42	1/2	973.49	1/2	616.98	1/2	257.91	1/2		1/2	1/2		1/2		1/2
3/4	2,021.33	3/4	1,662.24	3/4	1,311.22	3/4	966.31	3/4	609.50	3/4	250.43	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2013 CL - SW
CALCULATED: 04/11/2013 CL
PRINTED: 04/11/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "KIRBY 29115"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
		1/4		1/4		1/4		1/4		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
0		1		1		1		1		1		1		1		1		1	
	4,480.33		4,790.82		4,774.25		4,767.91		4,447.37		4,122.59		3,782.69		3,428.53		3,070.72		2,711.59
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1		2		2		2		2		2		2		2		2		2	
	4,453.98		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2		3		3		3		3		3		3		3		3		3	
	4,427.53		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		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	
	4,400.97		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4		5		5		5		5		5		5		5		5		5	
	4,371.86		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5		6		6		6		6		6		6		6		6		6	
	4,340.97		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6		7		7		7		7		7		7		7		7		7	
	4,311.86		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7		8		8		8		8		8		8		8		8		8	
	4,282.53		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8		9		9		9		9		9		9		9		9		9	
	4,253.98		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9		10		10		10		10		10		10		10		10		10	
	4,224.53		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10		11		11		11		11		11		11		11		11		11	
	4,195.98		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11																			
	4,166.53		4,767.91		4,747.99		4,740.76		4,420.89		4,094.85		3,753.68		3,398.74		3,040.79		2,681.66
		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	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		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'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





BARGE "KIRBY 29115"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,389.87	0	2,030.74	0	1,671.61	0	1,312.47	0	953.62	0	594.61	0	235.49	0		0		0	
1/4	2,382.39	1/4	2,023.25	1/4	1,664.12	1/4	1,304.99	1/4	946.15	1/4	587.13	1/4	228.01	1/4	1/4	1/4		1/4	
1/2	2,374.90	1/2	2,015.77	1/2	1,656.64	1/2	1,297.51	1/2	938.68	1/2	579.65	1/2	220.53	1/2	1/2	1/2		1/2	
3/4	2,367.42	3/4	2,008.29	3/4	1,649.16	3/4	1,290.03	3/4	931.21	3/4	572.17	3/4	213.05	3/4	3/4	3/4		3/4	
1	2,359.94	1	2,000.81	1	1,641.68	1	1,282.55	1	923.74	1	564.69	1	205.57	1	1	1		1	
1/4	2,352.46	1/4	1,993.33	1/4	1,634.20	1/4	1,275.06	1/4	916.27	1/4	557.20	1/4	198.09	1/4	1/4	1/4		1/4	
1/2	2,344.98	1/2	1,985.85	1/2	1,626.71	1/2	1,267.58	1/2	908.80	1/2	549.72	1/2	190.61	1/2	1/2	1/2		1/2	
3/4	2,337.49	3/4	1,978.36	3/4	1,619.23	3/4	1,260.10	3/4	901.33	3/4	542.24	3/4	183.13	3/4	3/4	3/4		3/4	
2	2,330.01	2	1,970.88	2	1,611.75	2	1,252.62	2	893.85	2	534.76	2	175.66	2	2	2		2	
1/4	2,322.53	1/4	1,963.40	1/4	1,604.27	1/4	1,245.14	1/4	886.38	1/4	527.28	1/4	168.19	1/4	1/4	1/4		1/4	
1/2	2,315.05	1/2	1,955.92	1/2	1,596.79	1/2	1,237.66	1/2	878.91	1/2	519.80	1/2	160.71	1/2	1/2	1/2		1/2	
3/4	2,307.57	3/4	1,948.44	3/4	1,589.30	3/4	1,230.17	3/4	871.43	3/4	512.31	3/4	153.24	3/4	3/4	3/4		3/4	
3	2,300.08	3	1,940.95	3	1,581.82	3	1,222.69	3	863.95	3	504.83	3	145.78	3	3	3		3	
1/4	2,292.60	1/4	1,933.47	1/4	1,574.34	1/4	1,215.21	1/4	856.47	1/4	497.35	1/4	138.32	1/4	1/4	1/4		1/4	
1/2	2,285.12	1/2	1,925.99	1/2	1,566.86	1/2	1,207.73	1/2	848.99	1/2	489.87	1/2	130.85	1/2	1/2	1/2		1/2	
3/4	2,277.64	3/4	1,918.51	3/4	1,559.38	3/4	1,200.25	3/4	841.50	3/4	482.39	3/4	123.39	3/4	3/4	3/4		3/4	
4	2,270.16	4	1,911.03	4	1,551.89	4	1,192.76	4	834.02	4	474.91	4	115.95	4	4	4		4	
1/4	2,262.68	1/4	1,903.54	1/4	1,544.41	1/4	1,185.28	1/4	826.54	1/4	467.42	1/4	108.50	1/4	1/4	1/4		1/4	
1/2	2,255.19	1/2	1,896.06	1/2	1,536.93	1/2	1,177.80	1/2	819.06	1/2	459.94	1/2	101.06	1/2	1/2	1/2		1/2	
3/4	2,247.71	3/4	1,888.58	3/4	1,529.45	3/4	1,170.32	3/4	811.58	3/4	452.46	3/4	93.62	3/4	3/4	3/4		3/4	
5	2,240.23	5	1,881.10	5	1,521.97	5	1,162.84	5	804.10	5	444.98	5	86.20	5	5	5		5	
1/4	2,232.75	1/4	1,873.62	1/4	1,514.49	1/4	1,155.35	1/4	796.61	1/4	437.50	1/4	78.79	1/4	1/4	1/4		1/4	
1/2	2,225.27	1/2	1,866.13	1/2	1,507.00	1/2	1,147.87	1/2	789.13	1/2	430.02	1/2	71.38	1/2	1/2	1/2		1/2	
3/4	2,217.78	3/4	1,858.65	3/4	1,499.52	3/4	1,140.39	3/4	781.65	3/4	422.53	3/4	63.97	3/4	3/4	3/4		3/4	
6	2,210.30	6	1,851.17	6	1,492.04	6	1,132.91	6	774.17	6	415.05	6	57.01	6	6	6		6	
1/4	2,202.82	1/4	1,843.69	1/4	1,484.56	1/4	1,125.44	1/4	766.69	1/4	407.57	1/4	50.06	1/4	1/4	1/4		1/4	
1/2	2,195.34	1/2	1,836.21	1/2	1,477.08	1/2	1,117.96	1/2	759.21	1/2	400.09	1/2	43.11	1/2	1/2	1/2		1/2	
3/4	2,187.86	3/4	1,828.73	3/4	1,469.59	3/4	1,110.48	3/4	751.73	3/4	392.61	3/4	36.15	3/4	3/4	3/4		3/4	
7	2,180.37	7	1,821.24	7	1,462.11	7	1,103.01	7	744.24	7	385.13	7	30.86	7	7	7		7	
1/4	2,172.89	1/4	1,813.76	1/4	1,454.63	1/4	1,095.54	1/4	736.76	1/4	377.65	1/4	25.56	1/4	1/4	1/4		1/4	
1/2	2,165.41	1/2	1,806.28	1/2	1,447.15	1/2	1,088.07	1/2	729.28	1/2	370.16	1/2	20.26	1/2	1/2	1/2		1/2	
3/4	2,157.93	3/4	1,798.80	3/4	1,439.67	3/4	1,080.60	3/4	721.80	3/4	362.68	3/4	14.97	3/4	3/4	3/4		3/4	
8	2,150.45	8	1,791.32	8	1,432.18	8	1,073.13	8	714.32	8	355.20	8		8	8	8		8	
1/4	2,142.96	1/4	1,783.83	1/4	1,424.70	1/4	1,065.66	1/4	706.84	1/4	347.72	1/4		1/4	1/4	1/4		1/4	
1/2	2,135.48	1/2	1,776.35	1/2	1,417.22	1/2	1,058.19	1/2	699.35	1/2	340.24	1/2		1/2	1/2	1/2		1/2	
3/4	2,128.00	3/4	1,768.87	3/4	1,409.74	3/4	1,050.72	3/4	691.87	3/4	332.76	3/4		3/4	3/4	3/4		3/4	
9	2,120.52	9	1,761.39	9	1,402.26	9	1,043.25	9	684.39	9	325.27	9		9	9	9		9	
1/4	2,113.04	1/4	1,753.91	1/4	1,394.77	1/4	1,035.78	1/4	676.91	1/4	317.79	1/4		1/4	1/4	1/4		1/4	
1/2	2,105.56	1/2	1,746.42	1/2	1,387.29	1/2	1,028.31	1/2	669.43	1/2	310.31	1/2		1/2	1/2	1/2		1/2	
3/4	2,098.07	3/4	1,738.94	3/4	1,379.81	3/4	1,020.84	3/4	661.95	3/4	302.83	3/4		3/4	3/4	3/4		3/4	
10	2,090.59	10	1,731.46	10	1,372.33	10	1,013.38	10	654.46	10	295.35	10		10	10	10		10	
1/4	2,083.11	1/4	1,723.98	1/4	1,364.85	1/4	1,005.91	1/4	646.98	1/4	287.87	1/4		1/4	1/4	1/4		1/4	
1/2	2,075.63	1/2	1,716.50	1/2	1,357.37	1/2	998.44	1/2	639.50	1/2	280.38	1/2		1/2	1/2	1/2		1/2	
3/4	2,068.15	3/4	1,709.01	3/4	1,349.88	3/4	990.97	3/4	632.02	3/4	272.90	3/4		3/4	3/4	3/4		3/4	
11	2,060.66	11	1,701.53	11	1,342.40	11	983.50	11	624.54	11	265.42	11		11	11	11		11	
1/4	2,053.18	1/4	1,694.05	1/4	1,334.92	1/4	976.03	1/4	617.06	1/4	257.94	1/4		1/4	1/4	1/4		1/4	
1/2	2,045.70	1/2	1,686.57	1/2	1,327.44	1/2	968.56	1/2	609.57	1/2	250.46	1/2		1/2	1/2	1/2		1/2	
3/4	2,038.22	3/4	1,679.09	3/4	1,319.96	3/4	961.09	3/4	602.09	3/4	242.98	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 04/11/2013 CL - SW
CALCULATED: 04/11/2013 CL
PRINTED: 04/11/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29115"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,364.93		4,124.27		3,877.96		3,619.64		3,349.57		2,998.70		2,642.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,360.29	1/4	4,119.25	1/4	3,872.69	1/4	3,614.13	1/4	3,343.86	1/4	2,991.26	1/4	2,634.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,355.65	1/2	4,114.24	1/2	3,867.43	1/2	3,608.62	1/2	3,338.16	1/2	2,983.83	1/2	2,627.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,351.02	3/4	4,109.23	3/4	3,862.16	3/4	3,603.11	3/4	3,332.45	3/4	2,976.40	3/4	2,619.74
1	1	1	1	1	1	1	4,346.86	1	4,104.20	1	3,856.88	1	3,597.57	1	3,325.02	1	2,968.97	1	2,612.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,342.71	1/4	4,099.17	1/4	3,851.60	1/4	3,592.04	1/4	3,317.58	1/4	2,961.54	1/4	2,604.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,338.55	1/2	4,094.14	1/2	3,846.32	1/2	3,586.50	1/2	3,310.15	1/2	2,954.11	1/2	2,597.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,334.40	3/4	4,089.11	3/4	3,841.03	3/4	3,580.96	3/4	3,302.72	3/4	2,946.68	3/4	2,590.02
2	2	2	2	2	2	2	4,329.04	2	4,084.06	2	3,835.73	2	3,575.41	2	3,295.28	2	2,939.25	2	2,582.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,323.68	1/4	4,079.00	1/4	3,830.43	1/4	3,569.86	1/4	3,287.85	1/4	2,931.82	1/4	2,575.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,318.32	1/2	4,073.95	1/2	3,825.13	1/2	3,564.30	1/2	3,280.41	1/2	2,924.39	1/2	2,567.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,312.96	3/4	4,068.90	3/4	3,819.83	3/4	3,558.75	3/4	3,272.98	3/4	2,916.96	3/4	2,560.30
3	3	3	3	3	3	3	4,307.25	3	4,063.83	3	3,814.50	3	3,553.18	3	3,265.55	3	2,909.53	3	2,552.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,301.54	1/4	4,058.75	1/4	3,809.18	1/4	3,547.61	1/4	3,258.11	1/4	2,902.10	1/4	2,545.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,295.84	1/2	4,053.68	1/2	3,803.85	1/2	3,542.04	1/2	3,250.68	1/2	2,894.67	1/2	2,538.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,290.13	3/4	4,048.61	3/4	3,798.53	3/4	3,536.46	3/4	3,243.25	3/4	2,887.24	3/4	2,530.57
4	4	4	4	4	4	4	4,284.42	4	4,043.51	4	3,793.19	4	3,530.87	4	3,235.81	4	2,879.81	4	2,523.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,278.71	1/4	4,038.42	1/4	3,787.84	1/4	3,525.27	1/4	3,228.38	1/4	2,872.38	1/4	2,515.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,273.00	1/2	4,033.32	1/2	3,782.50	1/2	3,519.68	1/2	3,220.95	1/2	2,864.95	1/2	2,508.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,267.30	3/4	4,028.23	3/4	3,777.16	3/4	3,514.08	3/4	3,213.51	3/4	2,857.52	3/4	2,500.85
5	5	5	5	5	5	5	4,262.43	5	4,023.11	5	3,771.79	5	3,508.47	5	3,206.11	5	2,850.09	5	2,493.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,257.56	1/4	4,018.00	1/4	3,766.42	1/4	3,502.85	1/4	3,198.70	1/4	2,842.65	1/4	2,485.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,252.70	1/2	4,012.89	1/2	3,761.06	1/2	3,497.24	1/2	3,191.29	1/2	2,835.22	1/2	2,478.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,247.83	3/4	4,007.77	3/4	3,755.69	3/4	3,491.63	3/4	3,183.89	3/4	2,827.79	3/4	2,471.13
6	6	6	6	6	6	6	4,242.94	6	4,002.63	6	3,750.30	6	3,485.99	6	3,176.48	6	2,820.36	6	2,463.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,238.06	1/4	3,997.50	1/4	3,744.92	1/4	3,480.35	1/4	3,169.07	1/4	2,812.93	1/4	2,456.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,233.17	1/2	3,992.36	1/2	3,739.53	1/2	3,474.71	1/2	3,161.67	1/2	2,805.50	1/2	2,448.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,228.29	3/4	3,987.22	3/4	3,734.15	3/4	3,469.08	3/4	3,154.26	3/4	2,798.07	3/4	2,441.41
7	7	7	7	7	7	7	4,223.38	7	3,982.06	7	3,728.74	7	3,463.42	7	3,146.85	7	2,790.64	7	2,433.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,218.47	1/4	3,976.91	1/4	3,723.33	1/4	3,457.76	1/4	3,139.45	1/4	2,783.21	1/4	2,426.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,213.56	1/2	3,971.75	1/2	3,717.92	1/2	3,452.11	1/2	3,132.04	1/2	2,775.78	1/2	2,419.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,208.65	3/4	3,966.60	3/4	3,712.52	3/4	3,446.45	3/4	3,124.63	3/4	2,768.35	3/4	2,411.69
8	8	8	8	8	8	8	4,203.72	8	3,961.42	8	3,707.09	8	3,440.77	8	3,117.23	8	2,760.92	8	2,404.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,198.80	1/4	3,956.23	1/4	3,701.66	1/4	3,435.09	1/4	3,109.82	1/4	2,753.49	1/4	2,396.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,193.87	1/2	3,951.05	1/2	3,696.24	1/2	3,429.41	1/2	3,102.41	1/2	2,746.06	1/2	2,389.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,188.94	3/4	3,945.87	3/4	3,690.81	3/4	3,423.73	3/4	3,095.01	3/4	2,738.63	3/4	2,381.96
9	9	9	9	9	9	9	4,183.99	9	3,940.68	9	3,685.36	9	3,418.04	9	3,087.60	9	2,731.20	9	2,374.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,179.04	1/4	3,935.48	1/4	3,679.91	1/4	3,412.34	1/4	3,080.19	1/4	2,723.77	1/4	2,367.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,174.09	1/2	3,930.28	1/2	3,674.46	1/2	3,406.64	1/2	3,072.79	1/2	2,716.34	1/2	2,359.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,169.13	3/4	3,925.08	3/4	3,669.01	3/4	3,400.94	3/4	3,065.38	3/4	2,708.91	3/4	2,352.24
10	10	10	10	10	10	10	4,164.17	10	3,919.86	10	3,663.54	10	3,395.23	10	3,057.97	10	2,701.48	10	2,344.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,159.20	1/4	3,914.63	1/4	3,658.07	1/4	3,389.53	1/4	3,050.57	1/4	2,694.04	1/4	2,337.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,154.23	1/2	3,909.41	1/2	3,652.60	1/2	3,383.82	1/2	3,043.16	1/2	2,686.61	1/2	2,329.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,149.26	3/4	3,904.19	3/4	3,647.13	3/4	3,378.11	3/4	3,035.75	3/4	2,679.18	3/4	2,322.52
11	11	11	11	11	11	11	4,144.26	11	3,898.95	11	3,641.64	11	3,372.40	11	3,028.35	11	2,671.75	11	2,315.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,139.27	1/4	3,893.71	1/4	3,636.14	1/4	3,366.70	1/4	3,020.94	1/4	2,664.32	1/4	2,307.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,134.27	1/2	3,888.47	1/2	3,630.65	1/2	3,360.99	1/2	3,013.53	1/2	2,656.89	1/2	2,300.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,369.56	3/4	4,129.28	3/4	3,883.23	3/4	3,625.15	3/4	3,355.28	3/4	3,006.13	3/4	2,292.79

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29115"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,285.36	0	1,928.26	0	1,572.08	0	1,215.06	0	870.84	0	513.65	0	156.22	0		0		0	
1/4	2,277.93	1/4	1,920.82	1/4	1,564.66	1/4	1,207.88	1/4	863.42	1/4	506.20	1/4	148.77	1/4		1/4		1/4	
1/2	2,270.50	1/2	1,913.37	1/2	1,557.25	1/2	1,200.71	1/2	855.99	1/2	498.75	1/2	141.33	1/2		1/2		1/2	
3/4	2,263.07	3/4	1,905.93	3/4	1,549.83	3/4	1,193.53	3/4	848.57	3/4	491.31	3/4	133.88	3/4		3/4		3/4	
1	2,255.64	1	1,898.51	1	1,542.38	1	1,186.35	1	841.14	1	483.86	1	126.44	1		1		1	
1/4	2,248.21	1/4	1,891.09	1/4	1,534.94	1/4	1,179.18	1/4	833.72	1/4	476.42	1/4	118.99	1/4		1/4		1/4	
1/2	2,240.77	1/2	1,883.67	1/2	1,527.49	1/2	1,172.00	1/2	826.29	1/2	468.97	1/2	111.54	1/2		1/2		1/2	
3/4	2,233.34	3/4	1,876.25	3/4	1,520.05	3/4	1,164.82	3/4	818.87	3/4	461.52	3/4	104.10	3/4		3/4		3/4	
2	2,225.91	2	1,868.83	2	1,512.60	2	1,157.65	2	811.44	2	454.08	2	96.97	2		2		2	
1/4	2,218.48	1/4	1,861.42	1/4	1,505.16	1/4	1,150.47	1/4	804.02	1/4	446.63	1/4	89.84	1/4		1/4		1/4	
1/2	2,211.05	1/2	1,854.00	1/2	1,497.71	1/2	1,143.29	1/2	796.59	1/2	439.18	1/2	82.70	1/2		1/2		1/2	
3/4	2,203.62	3/4	1,846.58	3/4	1,490.26	3/4	1,136.11	3/4	789.16	3/4	431.74	3/4	75.57	3/4		3/4		3/4	
3	2,196.19	3	1,839.16	3	1,482.82	3	1,128.94	3	781.72	3	424.29	3	69.38	3		3		3	
1/4	2,188.76	1/4	1,831.74	1/4	1,475.37	1/4	1,121.76	1/4	774.27	1/4	416.84	1/4	63.19	1/4		1/4		1/4	
1/2	2,181.33	1/2	1,824.32	1/2	1,467.93	1/2	1,114.58	1/2	766.83	1/2	409.40	1/2	57.00	1/2		1/2		1/2	
3/4	2,173.90	3/4	1,816.90	3/4	1,460.48	3/4	1,107.41	3/4	759.38	3/4	401.95	3/4	50.81	3/4		3/4		3/4	
4	2,166.46	4	1,809.48	4	1,453.04	4	1,100.23	4	751.93	4	394.51	4	45.88	4		4		4	
1/4	2,159.03	1/4	1,802.07	1/4	1,445.59	1/4	1,093.05	1/4	744.49	1/4	387.06	1/4	40.95	1/4		1/4		1/4	
1/2	2,151.60	1/2	1,794.65	1/2	1,438.15	1/2	1,085.88	1/2	737.04	1/2	379.61	1/2	36.02	1/2		1/2		1/2	
3/4	2,144.17	3/4	1,787.23	3/4	1,430.70	3/4	1,078.70	3/4	729.59	3/4	372.17	3/4	31.09	3/4		3/4		3/4	
5	2,136.73	5	1,779.81	5	1,423.26	5	1,071.54	5	722.15	5	364.72	5	27.42	5		5		5	
1/4	2,129.28	1/4	1,772.39	1/4	1,415.81	1/4	1,064.37	1/4	714.70	1/4	357.27	1/4	23.75	1/4		1/4		1/4	
1/2	2,121.84	1/2	1,764.97	1/2	1,408.37	1/2	1,057.21	1/2	707.25	1/2	349.83	1/2	20.08	1/2		1/2		1/2	
3/4	2,114.39	3/4	1,757.55	3/4	1,400.92	3/4	1,050.05	3/4	699.81	3/4	342.38	3/4	16.41	3/4		3/4		3/4	
6	2,106.95	6	1,750.13	6	1,393.48	6	1,042.88	6	692.36	6	334.93	6		6		6		6	
1/4	2,099.50	1/4	1,742.72	1/4	1,386.03	1/4	1,035.72	1/4	684.91	1/4	327.49	1/4		1/4		1/4		1/4	
1/2	2,092.06	1/2	1,735.30	1/2	1,378.59	1/2	1,028.56	1/2	677.47	1/2	320.04	1/2		1/2		1/2		1/2	
3/4	2,084.61	3/4	1,727.88	3/4	1,371.14	3/4	1,021.40	3/4	670.02	3/4	312.59	3/4		3/4		3/4		3/4	
7	2,077.17	7	1,720.46	7	1,363.70	7	1,014.24	7	662.58	7	305.15	7		7		7		7	
1/4	2,069.72	1/4	1,713.04	1/4	1,356.25	1/4	1,007.08	1/4	655.13	1/4	297.70	1/4		1/4		1/4		1/4	
1/2	2,062.28	1/2	1,705.62	1/2	1,348.81	1/2	999.92	1/2	647.68	1/2	290.26	1/2		1/2		1/2		1/2	
3/4	2,054.83	3/4	1,698.20	3/4	1,341.36	3/4	992.76	3/4	640.24	3/4	282.81	3/4		3/4		3/4		3/4	
8	2,047.39	8	1,690.78	8	1,333.92	8	985.60	8	632.79	8	275.36	8		8		8		8	
1/4	2,039.94	1/4	1,683.36	1/4	1,326.47	1/4	978.45	1/4	625.34	1/4	267.92	1/4		1/4		1/4		1/4	
1/2	2,032.50	1/2	1,675.95	1/2	1,319.03	1/2	971.29	1/2	617.90	1/2	260.47	1/2		1/2		1/2		1/2	
3/4	2,025.05	3/4	1,668.53	3/4	1,311.58	3/4	964.14	3/4	610.45	3/4	253.02	3/4		3/4		3/4		3/4	
9	2,017.61	9	1,661.11	9	1,304.13	9	956.98	9	603.00	9	245.58	9		9		9		9	
1/4	2,010.16	1/4	1,653.69	1/4	1,296.69	1/4	949.83	1/4	595.56	1/4	238.13	1/4		1/4		1/4		1/4	
1/2	2,002.71	1/2	1,646.27	1/2	1,289.24	1/2	942.67	1/2	588.11	1/2	230.68	1/2		1/2		1/2		1/2	
3/4	1,995.27	3/4	1,638.85	3/4	1,281.80	3/4	935.51	3/4	580.67	3/4	223.24	3/4		3/4		3/4		3/4	
10	1,987.82	10	1,631.43	10	1,274.35	10	928.36	10	573.22	10	215.79	10		10		10		10	
1/4	1,980.38	1/4	1,624.01	1/4	1,266.91	1/4	921.20	1/4	565.77	1/4	208.35	1/4		1/4		1/4		1/4	
1/2	1,972.93	1/2	1,616.60	1/2	1,259.46	1/2	914.05	1/2	558.33	1/2	200.90	1/2		1/2		1/2		1/2	
3/4	1,965.49	3/4	1,609.18	3/4	1,252.02	3/4	906.89	3/4	550.88	3/4	193.45	3/4		3/4		3/4		3/4	
11	1,958.04	11	1,601.76	11	1,244.57	11	899.74	11	543.43	11	186.01	11		11		11		11	
1/4	1,950.60	1/4	1,594.34	1/4	1,237.13	1/4	892.58	1/4	535.99	1/4	178.56	1/4		1/4		1/4		1/4	
1/2	1,943.15	1/2	1,586.92	1/2	1,229.68	1/2	885.42	1/2	528.54	1/2	171.11	1/2		1/2		1/2		1/2	
3/4	1,935.71	3/4	1,579.50	3/4	1,222.24	3/4	878.27	3/4	521.09	3/4	163.67	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2013 CL - SW
CALCULATED: 04/11/2013 CL
PRINTED: 04/11/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

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



BARGE "KIRBY 29115"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
							4,392.90		4,151.08		3,903.61		3,644.13		3,372.85		3,020.03		2,662.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,388.24	1/4	4,146.04	1/4	3,898.32	1/4	3,638.59	1/4	3,367.12	1/4	3,012.57	1/4	2,654.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,383.58	1/2	4,141.01	1/2	3,893.03	1/2	3,633.05	1/2	3,361.38	1/2	3,005.11	1/2	2,647.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,378.92	3/4	4,135.97	3/4	3,887.74	3/4	3,627.52	3/4	3,355.65	3/4	2,997.66	3/4	2,639.66		
1	1	1	1	1	1	1	4,374.74	1	4,130.92	1	3,882.44	1	3,621.96	1	3,348.19	1	2,990.20	1	2,632.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,370.56	1/4	4,125.87	1/4	3,877.13	1/4	3,616.40	1/4	3,340.73	1/4	2,982.74	1/4	2,624.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,366.38	1/2	4,120.81	1/2	3,871.82	1/2	3,610.84	1/2	3,333.27	1/2	2,975.28	1/2	2,617.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,362.20	3/4	4,115.76	3/4	3,866.52	3/4	3,605.27	3/4	3,325.82	3/4	2,967.82	3/4	2,609.83		
2	2	2	2	2	2	2	4,356.82	2	4,110.68	2	3,861.19	2	3,599.70	2	3,318.36	2	2,960.36	2	2,602.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,351.44	1/4	4,105.60	1/4	3,855.87	1/4	3,594.12	1/4	3,310.90	1/4	2,952.91	1/4	2,594.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,346.05	1/2	4,100.52	1/2	3,850.54	1/2	3,588.54	1/2	3,303.44	1/2	2,945.45	1/2	2,587.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,340.67	3/4	4,095.45	3/4	3,845.22	3/4	3,582.96	3/4	3,295.98	3/4	2,937.99	3/4	2,580.00		
3	3	3	3	3	3	3	4,334.94	3	4,090.35	3	3,839.87	3	3,577.37	3	3,288.53	3	2,930.53	3	2,572.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,329.21	1/4	4,085.25	1/4	3,834.52	1/4	3,571.77	1/4	3,281.07	1/4	2,923.07	1/4	2,565.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,323.47	1/2	4,080.16	1/2	3,829.17	1/2	3,566.17	1/2	3,273.61	1/2	2,915.62	1/2	2,557.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,317.74	3/4	4,075.06	3/4	3,823.82	3/4	3,560.58	3/4	3,266.15	3/4	2,908.16	3/4	2,550.16		
4	4	4	4	4	4	4	4,312.01	4	4,069.94	4	3,818.45	4	3,554.96	4	3,258.69	4	2,900.70	4	2,542.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,306.28	1/4	4,064.82	1/4	3,813.09	1/4	3,549.34	1/4	3,251.23	1/4	2,893.24	1/4	2,535.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,300.54	1/2	4,059.70	1/2	3,807.72	1/2	3,543.72	1/2	3,243.78	1/2	2,885.78	1/2	2,527.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,294.81	3/4	4,054.58	3/4	3,802.35	3/4	3,538.10	3/4	3,236.32	3/4	2,878.32	3/4	2,520.33		
5	5	5	5	5	5	5	4,289.92	5	4,049.44	5	3,796.96	5	3,532.46	5	3,228.86	5	2,870.87	5	2,512.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,285.03	1/4	4,044.31	1/4	3,791.57	1/4	3,526.82	1/4	3,221.40	1/4	2,863.41	1/4	2,505.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,280.14	1/2	4,039.17	1/2	3,786.18	1/2	3,521.18	1/2	3,213.94	1/2	2,855.95	1/2	2,497.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,275.25	3/4	4,034.03	3/4	3,780.79	3/4	3,515.54	3/4	3,206.49	3/4	2,848.49	3/4	2,490.50		
6	6	6	6	6	6	6	4,270.34	6	4,028.87	6	3,775.38	6	3,509.88	6	3,199.03	6	2,841.03	6	2,483.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,265.43	1/4	4,023.71	1/4	3,769.97	1/4	3,504.22	1/4	3,191.57	1/4	2,833.58	1/4	2,475.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,260.52	1/2	4,018.54	1/2	3,764.56	1/2	3,498.56	1/2	3,184.11	1/2	2,826.12	1/2	2,468.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,255.61	3/4	4,013.38	3/4	3,759.15	3/4	3,492.90	3/4	3,176.65	3/4	2,818.66	3/4	2,460.67		
7	7	7	7	7	7	7	4,250.68	7	4,008.20	7	3,753.72	7	3,487.21	7	3,169.19	7	2,811.20	7	2,453.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,245.74	1/4	4,003.02	1/4	3,748.28	1/4	3,481.53	1/4	3,161.74	1/4	2,803.74	1/4	2,445.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,240.81	1/2	3,997.84	1/2	3,742.85	1/2	3,475.85	1/2	3,154.28	1/2	2,796.28	1/2	2,438.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,235.88	3/4	3,992.66	3/4	3,737.42	3/4	3,470.17	3/4	3,146.82	3/4	2,788.83	3/4	2,430.83		
8	8	8	8	8	8	8	4,230.93	8	3,987.46	8	3,731.97	8	3,464.47	8	3,139.36	8	2,781.37	8	2,423.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,225.97	1/4	3,982.25	1/4	3,726.52	1/4	3,458.76	1/4	3,131.90	1/4	2,773.91	1/4	2,415.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,221.02	1/2	3,977.05	1/2	3,721.06	1/2	3,453.06	1/2	3,124.45	1/2	2,766.45	1/2	2,408.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,216.07	3/4	3,971.84	3/4	3,715.61	3/4	3,447.36	3/4	3,116.99	3/4	2,758.99	3/4	2,401.00		
9	9	9	9	9	9	9	4,211.10	9	3,966.62	9	3,710.14	9	3,441.63	9	3,109.53	9	2,751.54	9	2,393.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,206.12	1/4	3,961.40	1/4	3,704.66	1/4	3,435.91	1/4	3,102.07	1/4	2,744.08	1/4	2,386.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,201.14	1/2	3,956.18	1/2	3,699.19	1/2	3,430.19	1/2	3,094.61	1/2	2,736.62	1/2	2,378.63		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,196.17	3/4	3,950.95	3/4	3,693.71	3/4	3,424.46	3/4	3,087.15	3/4	2,729.16	3/4	2,371.17		
10	10	10	10	10	10	10	4,191.17	10	3,945.71	10	3,688.22	10	3,418.73	10	3,079.70	10	2,721.70	10	2,363.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,186.18	1/4	3,940.46	1/4	3,682.72	1/4	3,413.00	1/4	3,072.24	1/4	2,714.24	1/4	2,356.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,181.19	1/2	3,935.21	1/2	3,677.23	1/2	3,407.26	1/2	3,064.78	1/2	2,706.79	1/2	2,348.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,176.19	3/4	3,929.96	3/4	3,671.74	3/4	3,401.53	3/4	3,057.32	3/4	2,699.33	3/4	2,341.33		
11	11	11	11	11	11	11	4,171.17	11	3,924.70	11	3,666.22	11	3,395.79	11	3,049.86	11	2,691.87	11	2,333.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,166.15	1/4	3,919.43	1/4	3,660.70	1/4	3,390.06	1/4	3,042.41	1/4	2,684.41	1/4	2,326.42		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,161.13	1/2	3,914.17	1/2	3,655.18	1/2	3,384.32	1/2	3,034.95	1/2	2,676.95	1/2	2,318.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,397.56	3/4	4,156.12	3/4	3,908.90	3/4	3,649.66	3/4	3,378.59	3/4	3,027.49	3/4	2,669.50	3/4	2,311.50

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29115"

3 STBD 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	2,304.04	0	1,946.05	0	1,588.06	0	1,230.06	0	872.32	0	514.46	0	156.48	0		0		0	
1/4	2,296.59	1/4	1,938.59	1/4	1,580.60	1/4	1,222.60	1/4	864.87	1/4	507.00	1/4	149.02	1/4	1/4	1/4		1/4	
1/2	2,289.13	1/2	1,931.13	1/2	1,573.14	1/2	1,215.15	1/2	857.42	1/2	499.54	1/2	141.56	1/2	1/2	1/2		1/2	
3/4	2,281.67	3/4	1,923.68	3/4	1,565.68	3/4	1,207.69	3/4	849.98	3/4	492.09	3/4	134.10	3/4	3/4	3/4		3/4	
1	2,274.21	1	1,916.22	1	1,558.22	1	1,200.23	1	842.53	1	484.63	1	126.64	1	1	1		1	
1/4	2,266.75	1/4	1,908.76	1/4	1,550.76	1/4	1,192.77	1/4	835.08	1/4	477.17	1/4	119.19	1/4	1/4	1/4		1/4	
1/2	2,259.29	1/2	1,901.30	1/2	1,543.31	1/2	1,185.31	1/2	827.64	1/2	469.71	1/2	111.73	1/2	1/2	1/2		1/2	
3/4	2,251.84	3/4	1,893.84	3/4	1,535.85	3/4	1,177.85	3/4	820.19	3/4	462.25	3/4	104.27	3/4	3/4	3/4		3/4	
2	2,244.38	2	1,886.38	2	1,528.39	2	1,170.40	2	812.75	2	454.80	2	97.13	2	2	2		2	
1/4	2,236.92	1/4	1,878.93	1/4	1,520.93	1/4	1,162.94	1/4	805.30	1/4	447.34	1/4	89.99	1/4	1/4	1/4		1/4	
1/2	2,229.46	1/2	1,871.47	1/2	1,513.47	1/2	1,155.48	1/2	797.85	1/2	439.88	1/2	82.84	1/2	1/2	1/2		1/2	
3/4	2,222.00	3/4	1,864.01	3/4	1,506.02	3/4	1,148.02	3/4	790.41	3/4	432.42	3/4	75.70	3/4	3/4	3/4		3/4	
3	2,214.54	3	1,856.55	3	1,498.56	3	1,140.56	3	782.95	3	424.96	3	69.50	3	3	3		3	
1/4	2,207.09	1/4	1,849.09	1/4	1,491.10	1/4	1,133.11	1/4	775.49	1/4	417.51	1/4	63.30	1/4	1/4	1/4		1/4	
1/2	2,199.63	1/2	1,841.63	1/2	1,483.64	1/2	1,125.65	1/2	768.03	1/2	410.05	1/2	57.10	1/2	1/2	1/2		1/2	
3/4	2,192.17	3/4	1,834.18	3/4	1,476.18	3/4	1,118.19	3/4	760.57	3/4	402.59	3/4	50.90	3/4	3/4	3/4		3/4	
4	2,184.71	4	1,826.72	4	1,468.72	4	1,110.73	4	753.12	4	395.13	4	45.95	4	4	4		4	
1/4	2,177.25	1/4	1,819.26	1/4	1,461.27	1/4	1,103.27	1/4	745.66	1/4	387.67	1/4	41.01	1/4	1/4	1/4		1/4	
1/2	2,169.80	1/2	1,811.80	1/2	1,453.81	1/2	1,095.81	1/2	738.20	1/2	380.22	1/2	36.06	1/2	1/2	1/2		1/2	
3/4	2,162.34	3/4	1,804.34	3/4	1,446.35	3/4	1,088.36	3/4	730.74	3/4	372.76	3/4	31.12	3/4	3/4	3/4		3/4	
5	2,154.88	5	1,796.89	5	1,438.89	5	1,080.90	5	723.28	5	365.30	5	27.44	5	5	5		5	
1/4	2,147.42	1/4	1,789.43	1/4	1,431.43	1/4	1,073.44	1/4	715.83	1/4	357.84	1/4	23.76	1/4	1/4	1/4		1/4	
1/2	2,139.96	1/2	1,781.97	1/2	1,423.98	1/2	1,065.98	1/2	708.37	1/2	350.38	1/2	20.09	1/2	1/2	1/2		1/2	
3/4	2,132.50	3/4	1,774.51	3/4	1,416.52	3/4	1,058.52	3/4	700.91	3/4	342.93	3/4	16.41	3/4	3/4	3/4		3/4	
6	2,125.05	6	1,767.05	6	1,409.06	6	1,051.07	6	693.45	6	335.47	6		6	6	6		6	
1/4	2,117.59	1/4	1,759.59	1/4	1,401.60	1/4	1,043.61	1/4	685.99	1/4	328.01	1/4		1/4	1/4	1/4		1/4	
1/2	2,110.13	1/2	1,752.14	1/2	1,394.14	1/2	1,036.15	1/2	678.54	1/2	320.55	1/2		1/2	1/2	1/2		1/2	
3/4	2,102.67	3/4	1,744.68	3/4	1,386.68	3/4	1,028.69	3/4	671.08	3/4	313.09	3/4		3/4	3/4	3/4		3/4	
7	2,095.21	7	1,737.22	7	1,379.23	7	1,021.24	7	663.62	7	305.64	7		7	7	7		7	
1/4	2,087.76	1/4	1,729.76	1/4	1,371.77	1/4	1,013.80	1/4	656.16	1/4	298.18	1/4		1/4	1/4	1/4		1/4	
1/2	2,080.30	1/2	1,722.30	1/2	1,364.31	1/2	1,006.35	1/2	648.70	1/2	290.72	1/2		1/2	1/2	1/2		1/2	
3/4	2,072.84	3/4	1,714.85	3/4	1,356.85	3/4	998.91	3/4	641.25	3/4	283.26	3/4		3/4	3/4	3/4		3/4	
8	2,065.38	8	1,707.39	8	1,349.39	8	991.46	8	633.79	8	275.80	8		8	8	8		8	
1/4	2,057.92	1/4	1,699.93	1/4	1,341.94	1/4	984.01	1/4	626.33	1/4	268.35	1/4		1/4	1/4	1/4		1/4	
1/2	2,050.46	1/2	1,692.47	1/2	1,334.48	1/2	976.57	1/2	618.87	1/2	260.89	1/2		1/2	1/2	1/2		1/2	
3/4	2,043.01	3/4	1,685.01	3/4	1,327.02	3/4	969.12	3/4	611.41	3/4	253.43	3/4		3/4	3/4	3/4		3/4	
9	2,035.55	9	1,677.55	9	1,319.56	9	961.67	9	603.96	9	245.97	9		9	9	9		9	
1/4	2,028.09	1/4	1,670.10	1/4	1,312.10	1/4	954.23	1/4	596.50	1/4	238.51	1/4		1/4	1/4	1/4		1/4	
1/2	2,020.63	1/2	1,662.64	1/2	1,304.64	1/2	946.78	1/2	589.04	1/2	231.06	1/2		1/2	1/2	1/2		1/2	
3/4	2,013.17	3/4	1,655.18	3/4	1,297.19	3/4	939.33	3/4	581.58	3/4	223.60	3/4		3/4	3/4	3/4		3/4	
10	2,005.72	10	1,647.72	10	1,289.73	10	931.89	10	574.12	10	216.14	10		10	10	10		10	
1/4	1,998.26	1/4	1,640.26	1/4	1,282.27	1/4	924.44	1/4	566.67	1/4	208.68	1/4		1/4	1/4	1/4		1/4	
1/2	1,990.80	1/2	1,632.81	1/2	1,274.81	1/2	916.99	1/2	559.21	1/2	201.22	1/2		1/2	1/2	1/2		1/2	
3/4	1,983.34	3/4	1,625.35	3/4	1,267.35	3/4	909.55	3/4	551.75	3/4	193.77	3/4		3/4	3/4	3/4		3/4	
11	1,975.88	11	1,617.89	11	1,259.90	11	902.10	11	544.29	11	186.31	11		11	11	11		11	
1/4	1,968.42	1/4	1,610.43	1/4	1,252.44	1/4	894.66	1/4	536.83	1/4	178.85	1/4		1/4	1/4	1/4		1/4	
1/2	1,960.97	1/2	1,602.97	1/2	1,244.98	1/2	887.21	1/2	529.38	1/2	171.39	1/2		1/2	1/2	1/2		1/2	
3/4	1,953.51	3/4	1,595.51	3/4	1,237.52	3/4	879.76	3/4	521.92	3/4	163.93	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 04/11/2013 CL - SW
CALCULATED: 04/11/2013 CL
PRINTED: 04/11/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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