



# BARGE "KIRBY 29104"

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

(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"

February 19, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29104"

## 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
							4,953.42		4,619.33		4,279.78		3,923.73		3,551.81		3,175.28		2,797.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,948.04	1/4	4,612.44	1/4	4,272.54	1/4	3,916.15	1/4	3,543.97	1/4	3,167.40	1/4	2,789.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,941.36	1/2	4,605.52	1/2	4,265.27	1/2	3,908.53	1/2	3,536.13	1/2	3,159.53	1/2	2,781.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,934.69	3/4	4,598.60	3/4	4,258.01	3/4	3,900.92	3/4	3,528.28	3/4	3,151.65	3/4	2,773.61		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,928.01</b>	<b>1</b>	<b>4,591.67</b>	<b>1</b>	<b>4,250.74</b>	<b>1</b>	<b>3,893.31</b>	<b>1</b>	<b>3,520.44</b>	<b>1</b>	<b>3,143.77</b>	<b>1</b>	<b>2,765.73</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,921.33	1/4	4,584.75	1/4	4,243.48	1/4	3,885.69	1/4	3,512.60	1/4	3,135.90	1/4	2,757.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,913.72	1/2	4,577.80	1/2	4,236.18	1/2	3,878.05	1/2	3,504.76	1/2	3,128.02	1/2	2,749.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,906.11	3/4	4,570.85	3/4	4,228.89	3/4	3,870.41	3/4	3,496.92	3/4	3,120.15	3/4	2,742.10		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,898.50</b>	<b>2</b>	<b>4,563.90</b>	<b>2</b>	<b>4,221.59</b>	<b>2</b>	<b>3,862.77</b>	<b>2</b>	<b>3,489.08</b>	<b>2</b>	<b>3,112.27</b>	<b>2</b>	<b>2,734.23</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,890.89	1/4	4,556.95	1/4	4,214.30	1/4	3,855.14	1/4	3,481.24	1/4	3,104.39	1/4	2,726.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,883.04	1/2	4,549.97	1/2	4,206.98	1/2	3,847.47	1/2	3,473.40	1/2	3,096.52	1/2	2,718.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,875.20	3/4	4,542.99	3/4	4,199.65	3/4	3,839.80	3/4	3,465.56	3/4	3,088.64	3/4	2,710.60		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,867.36</b>	<b>3</b>	<b>4,536.01</b>	<b>3</b>	<b>4,192.33</b>	<b>3</b>	<b>3,832.14</b>	<b>3</b>	<b>3,457.72</b>	<b>3</b>	<b>3,080.77</b>	<b>3</b>	<b>2,702.72</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,859.52	1/4	4,529.03	1/4	4,185.00	1/4	3,824.47	1/4	3,449.87	1/4	3,072.89	1/4	2,694.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,852.11	1/2	4,522.02	1/2	4,177.65	1/2	3,816.77	1/2	3,442.03	1/2	3,065.01	1/2	2,686.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,844.71	3/4	4,515.02	3/4	4,170.30	3/4	3,809.08	3/4	3,434.19	3/4	3,057.14	3/4	2,679.10		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,837.30</b>	<b>4</b>	<b>4,508.01</b>	<b>4</b>	<b>4,162.95</b>	<b>4</b>	<b>3,801.38</b>	<b>4</b>	<b>3,426.35</b>	<b>4</b>	<b>3,049.26</b>	<b>4</b>	<b>2,671.22</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,829.89	1/4	4,501.00	1/4	4,155.60	1/4	3,793.68	1/4	3,418.51	1/4	3,041.39	1/4	2,663.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,823.20	1/2	4,493.96	1/2	4,148.22	1/2	3,785.96	1/2	3,410.67	1/2	3,033.51	1/2	2,655.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,816.50	3/4	4,486.92	3/4	4,140.83	3/4	3,778.24	3/4	3,402.83	3/4	3,025.63	3/4	2,647.59		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,809.81</b>	<b>5</b>	<b>4,479.89</b>	<b>5</b>	<b>4,133.45</b>	<b>5</b>	<b>3,770.51</b>	<b>5</b>	<b>3,394.99</b>	<b>5</b>	<b>3,017.76</b>	<b>5</b>	<b>2,639.72</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,803.11	1/4	4,472.85	1/4	4,126.07	1/4	3,762.79	1/4	3,387.15	1/4	3,009.88	1/4	2,631.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,796.39	1/2	4,465.78	1/2	4,118.66	1/2	3,755.03	1/2	3,379.31	1/2	3,002.01	1/2	2,623.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,789.67	3/4	4,458.72	3/4	4,111.25	3/4	3,747.28	3/4	3,371.46	3/4	2,994.13	3/4	2,616.09		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,782.95</b>	<b>6</b>	<b>4,451.65</b>	<b>6</b>	<b>4,103.84</b>	<b>6</b>	<b>3,739.52</b>	<b>6</b>	<b>3,363.62</b>	<b>6</b>	<b>2,986.26</b>	<b>6</b>	<b>2,608.21</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,776.22	1/4	4,444.58	1/4	4,096.43	1/4	3,731.77	1/4	3,355.78	1/4	2,978.38	1/4	2,600.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,769.47	1/2	4,437.49	1/2	4,088.99	1/2	3,723.99	1/2	3,347.94	1/2	2,970.50	1/2	2,592.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,762.72	3/4	4,430.39	3/4	4,081.55	3/4	3,716.20	3/4	3,340.10	3/4	2,962.63	3/4	2,584.58		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,755.97</b>	<b>7</b>	<b>4,423.30</b>	<b>7</b>	<b>4,074.11</b>	<b>7</b>	<b>3,708.42</b>	<b>7</b>	<b>3,332.26</b>	<b>7</b>	<b>2,954.75</b>	<b>7</b>	<b>2,576.71</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,749.21	1/4	4,416.20	1/4	4,066.68	1/4	3,700.64	1/4	3,324.42	1/4	2,946.88	1/4	2,568.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,742.43	1/2	4,409.08	1/2	4,059.21	1/2	3,692.83	1/2	3,316.58	1/2	2,939.00	1/2	2,560.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,735.65	3/4	4,401.95	3/4	4,051.74	3/4	3,685.02	3/4	3,308.74	3/4	2,931.12	3/4	2,553.08		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,728.87</b>	<b>8</b>	<b>4,394.83</b>	<b>8</b>	<b>4,044.27</b>	<b>8</b>	<b>3,677.20</b>	<b>8</b>	<b>3,300.90</b>	<b>8</b>	<b>2,923.25</b>	<b>8</b>	<b>2,545.21</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,722.09	1/4	4,387.70	1/4	4,036.80	1/4	3,669.39	1/4	3,293.05	1/4	2,915.37	1/4	2,537.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,715.28	1/2	4,380.55	1/2	4,029.31	1/2	3,661.56	1/2	3,285.21	1/2	2,907.50	1/2	2,529.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,708.47	3/4	4,373.39	3/4	4,021.81	3/4	3,653.73	3/4	3,277.37	3/4	2,899.62	3/4	2,521.58		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,701.66</b>	<b>9</b>	<b>4,366.24</b>	<b>9</b>	<b>4,014.31</b>	<b>9</b>	<b>3,645.89</b>	<b>9</b>	<b>3,269.53</b>	<b>9</b>	<b>2,891.74</b>	<b>9</b>	<b>2,513.70</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,694.85	1/4	4,359.09	1/4	4,006.81	1/4	3,638.06	1/4	3,261.69	1/4	2,883.87	1/4	2,505.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,688.01	1/2	4,351.90	1/2	3,999.29	1/2	3,630.22	1/2	3,253.85	1/2	2,875.99	1/2	2,497.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,681.17	3/4	4,344.72	3/4	3,991.76	3/4	3,622.38	3/4	3,246.01	3/4	2,868.12	3/4	2,490.07		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,674.33</b>	<b>10</b>	<b>4,337.54</b>	<b>10</b>	<b>3,984.24</b>	<b>10</b>	<b>3,614.54</b>	<b>10</b>	<b>3,238.17</b>	<b>10</b>	<b>2,860.24</b>	<b>10</b>	<b>2,482.20</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,667.49	1/4	4,330.35	1/4	3,976.71	1/4	3,606.69	1/4	3,230.33	1/4	2,852.37	1/4	2,474.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,660.62	1/2	4,323.14	1/2	3,969.15	1/2	3,598.85	1/2	3,222.47	1/2	2,844.49	1/2	2,466.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,653.75	3/4	4,315.93	3/4	3,961.60	3/4	3,591.01	3/4	3,214.62	3/4	2,836.61	3/4	2,458.57		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,646.88</b>	<b>11</b>	<b>4,308.72</b>	<b>11</b>	<b>3,954.04</b>	<b>11</b>	<b>3,583.17</b>	<b>11</b>	<b>3,206.76</b>	<b>11</b>	<b>2,828.74</b>	<b>11</b>	<b>2,450.69</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,640.01	1/4	4,301.51	1/4	3,946.49	1/4	3,575.33	1/4	3,198.90	1/4	2,820.86	1/4	2,442.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,633.12	1/2	4,294.26	1/2	3,938.90	1/2	3,567.49	1/2	3,191.03	1/2	2,812.99	1/2	2,434.94		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,958.80	3/4	4,626.23	3/4	4,287.02	3/4	3,931.32	3/4	3,559.65	3/4	3,183.15	3/4	2,805.11	3/4	2,427.07

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 52'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
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# BARGE "KIRBY 29104"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,419.19		2,041.15		1,663.10		1,286.45		909.18		531.18		182.83								
1/4	2,411.31	1/4	2,033.27	1/4	1,655.23	1/4	1,278.62	1/4	901.30	1/4	523.31	1/4	176.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,403.44	1/2	2,025.40	1/2	1,647.35	1/2	1,270.80	1/2	893.43	1/2	515.49	1/2	169.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,395.56	3/4	2,017.52	3/4	1,639.48	3/4	1,262.97	3/4	885.55	3/4	507.68	3/4	163.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,387.69	1	2,009.64	1	1,631.60	1	1,255.14	1	877.68	1	499.86	1	156.65	1	1	1	1	1	1	1	1
1/4	2,379.81	1/4	2,001.77	1/4	1,623.72	1/4	1,247.32	1/4	869.80	1/4	492.04	1/4	150.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,371.94	1/2	1,993.89	1/2	1,615.85	1/2	1,239.49	1/2	861.93	1/2	484.32	1/2	143.72	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,364.06	3/4	1,986.02	3/4	1,607.97	3/4	1,231.67	3/4	854.05	3/4	476.59	3/4	137.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,356.18	2	1,978.14	2	1,600.10	2	1,223.84	2	846.17	2	468.87	2	130.92	2	2	2	2	2	2	2	2
1/4	2,348.31	1/4	1,970.26	1/4	1,592.22	1/4	1,216.01	1/4	838.30	1/4	461.14	1/4	124.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,340.43	1/2	1,962.39	1/2	1,584.35	1/2	1,208.19	1/2	830.42	1/2	453.52	1/2	118.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,332.56	3/4	1,954.51	3/4	1,576.47	3/4	1,200.36	3/4	822.55	3/4	445.91	3/4	111.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,324.68	3	1,946.64	3	1,568.59	3	1,192.53	3	814.67	3	438.29	3	105.67	3	3	3	3	3	3	3	3
1/4	2,316.80	1/4	1,938.76	1/4	1,560.72	1/4	1,184.71	1/4	806.80	1/4	430.68	1/4	99.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,308.93	1/2	1,930.88	1/2	1,552.85	1/2	1,176.86	1/2	798.92	1/2	423.17	1/2	93.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,301.05	3/4	1,923.01	3/4	1,544.99	3/4	1,169.02	3/4	791.04	3/4	415.66	3/4	87.08	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	2,293.18	4	1,915.13	4	1,537.12	4	1,161.17	4	783.17	4	408.16	4	80.92	4	4	4	4	4	4	4	4
1/4	2,285.30	1/4	1,907.26	1/4	1,529.26	1/4	1,153.33	1/4	775.29	1/4	400.65	1/4	74.77	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,277.42	1/2	1,899.38	1/2	1,521.41	1/2	1,145.45	1/2	767.42	1/2	393.25	1/2	68.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,269.55	3/4	1,891.51	3/4	1,513.57	3/4	1,137.58	3/4	759.54	3/4	385.86	3/4	62.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	2,261.67	5	1,883.63	5	1,505.72	5	1,129.70	5	751.67	5	378.46	5	56.74	5	5	5	5	5	5	5	5
1/4	2,253.80	1/4	1,875.75	1/4	1,497.87	1/4	1,121.82	1/4	743.79	1/4	371.06	1/4	50.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,245.92	1/2	1,867.88	1/2	1,490.03	1/2	1,113.95	1/2	735.91	1/2	363.78	1/2	45.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,238.04	3/4	1,860.00	3/4	1,482.19	3/4	1,106.07	3/4	728.04	3/4	356.49	3/4	39.89	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	2,230.17	6	1,852.13	6	1,474.35	6	1,098.20	6	720.16	6	349.20	6	34.47	6	6	6	6	6	6	6	6
1/4	2,222.29	1/4	1,844.25	1/4	1,466.51	1/4	1,090.32	1/4	712.29	1/4	341.91	1/4	29.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,214.42	1/2	1,836.37	1/2	1,458.67	1/2	1,082.45	1/2	704.41	1/2	334.73	1/2	25.09	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,206.54	3/4	1,828.50	3/4	1,450.84	3/4	1,074.57	3/4	696.54	3/4	327.56	3/4	21.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	2,198.67	7	1,820.62	7	1,443.01	7	1,066.69	7	688.66	7	320.38	7	17.16	7	7	7	7	7	7	7	7
1/4	2,190.79	1/4	1,812.75	1/4	1,435.17	1/4	1,058.82	1/4	680.78	1/4	313.20	1/4	13.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,182.91	1/2	1,804.87	1/2	1,427.34	1/2	1,050.94	1/2	672.91	1/2	306.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,175.04	3/4	1,796.99	3/4	1,419.51	3/4	1,043.07	3/4	665.03	3/4	299.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	2,167.16	8	1,789.12	8	1,411.68	8	1,035.19	8	657.16	8	291.99	8		8	8	8	8	8	8	8	8
1/4	2,159.29	1/4	1,781.24	1/4	1,403.85	1/4	1,027.32	1/4	649.28	1/4	284.93	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,151.41	1/2	1,773.37	1/2	1,396.02	1/2	1,019.44	1/2	641.41	1/2	277.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,143.53	3/4	1,765.49	3/4	1,388.20	3/4	1,011.56	3/4	633.53	3/4	271.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	2,135.66	9	1,757.62	9	1,380.37	9	1,003.69	9	625.65	9	264.05	9		9	9	9	9	9	9	9	9
1/4	2,127.78	1/4	1,749.74	1/4	1,372.54	1/4	995.81	1/4	617.78	1/4	257.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,119.91	1/2	1,741.86	1/2	1,364.72	1/2	987.94	1/2	609.90	1/2	250.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,112.03	3/4	1,733.99	3/4	1,356.89	3/4	980.06	3/4	602.03	3/4	243.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	2,104.15	10	1,726.11	10	1,349.06	10	972.19	10	594.15	10	236.54	10		10	10	10	10	10	10	10	10
1/4	2,096.28	1/4	1,718.24	1/4	1,341.24	1/4	964.31	1/4	586.28	1/4	229.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,088.40	1/2	1,710.36	1/2	1,333.41	1/2	956.43	1/2	578.40	1/2	222.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,080.53	3/4	1,702.48	3/4	1,325.58	3/4	948.56	3/4	570.52	3/4	216.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	2,072.65	11	1,694.61	11	1,317.76	11	940.68	11	562.65	11	209.47	11		11	11	11	11	11	11	11	11
1/4	2,064.78	1/4	1,686.73	1/4	1,309.93	1/4	932.81	1/4	554.77	1/4	202.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,056.90	1/2	1,678.86	1/2	1,302.10	1/2	924.93	1/2	546.91	1/2	196.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,049.02	3/4	1,670.98	3/4	1,294.28	3/4	917.06	3/4	539.04	3/4	189.47	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.

STRAPPED: 02/18/2013 SW  
CALCULATED: 02/19/2013 CL  
PRINTED: 02/19/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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



# BARGE "KIRBY 29104"

## 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
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-00" 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 29104"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,436.16	0	2,058.20	0	1,680.24	0	1,302.29	0	924.60	0	546.78	0	196.05	0		0		0	
1/4	2,428.28	1/4	2,050.33	1/4	1,672.37	1/4	1,294.41	1/4	916.74	1/4	538.92	1/4	189.42	1/4	1/4		1/4		1/4
1/2	2,420.41	1/2	2,042.45	1/2	1,664.50	1/2	1,286.54	1/2	908.88	1/2	531.05	1/2	182.79	1/2	1/2		1/2		1/2
3/4	2,412.54	3/4	2,034.58	3/4	1,656.62	3/4	1,278.66	3/4	901.02	3/4	523.19	3/4	176.16	3/4	3/4		3/4		3/4
1	2,404.66	1	2,026.70	1	1,648.75	1	1,270.79	1	893.16	1	515.37	1	169.65	1	1		1		1
1/4	2,396.79	1/4	2,018.83	1/4	1,640.87	1/4	1,262.92	1/4	885.29	1/4	507.56	1/4	163.13	1/4	1/4		1/4		1/4
1/2	2,388.91	1/2	2,010.96	1/2	1,633.00	1/2	1,255.04	1/2	877.43	1/2	499.74	1/2	156.61	1/2	1/2		1/2		1/2
3/4	2,381.04	3/4	2,003.08	3/4	1,625.13	3/4	1,247.17	3/4	869.57	3/4	491.93	3/4	150.09	3/4	3/4		3/4		3/4
2	2,373.16	2	1,995.21	2	1,617.25	2	1,239.29	2	861.70	2	484.20	2	143.69	2	2		2		2
1/4	2,365.29	1/4	1,987.33	1/4	1,609.38	1/4	1,231.42	1/4	853.84	1/4	476.48	1/4	137.29	1/4	1/4		1/4		1/4
1/2	2,357.42	1/2	1,979.46	1/2	1,601.50	1/2	1,223.55	1/2	845.97	1/2	468.76	1/2	130.89	1/2	1/2		1/2		1/2
3/4	2,349.54	3/4	1,971.59	3/4	1,593.63	3/4	1,215.67	3/4	838.11	3/4	461.03	3/4	124.48	3/4	3/4		3/4		3/4
3	2,341.67	3	1,963.71	3	1,585.75	3	1,207.80	3	830.23	3	453.42	3	118.20	3	3		3		3
1/4	2,333.79	1/4	1,955.84	1/4	1,577.88	1/4	1,199.92	1/4	822.36	1/4	445.81	1/4	111.92	1/4	1/4		1/4		1/4
1/2	2,325.92	1/2	1,947.96	1/2	1,570.01	1/2	1,192.05	1/2	814.48	1/2	438.19	1/2	105.64	1/2	1/2		1/2		1/2
3/4	2,318.05	3/4	1,940.09	3/4	1,562.13	3/4	1,184.18	3/4	806.61	3/4	430.58	3/4	99.36	3/4	3/4		3/4		3/4
4	2,310.17	4	1,932.22	4	1,554.26	4	1,176.30	4	798.74	4	423.07	4	93.21	4	4		4		4
1/4	2,302.30	1/4	1,924.34	1/4	1,546.38	1/4	1,168.43	1/4	790.86	1/4	415.57	1/4	87.06	1/4	1/4		1/4		1/4
1/2	2,294.42	1/2	1,916.47	1/2	1,538.51	1/2	1,160.55	1/2	782.99	1/2	408.06	1/2	80.91	1/2	1/2		1/2		1/2
3/4	2,286.55	3/4	1,908.59	3/4	1,530.64	3/4	1,152.68	3/4	775.11	3/4	400.56	3/4	74.75	3/4	3/4		3/4		3/4
5	2,278.68	5	1,900.72	5	1,522.76	5	1,144.81	5	767.24	5	393.16	5	68.74	5	5		5		5
1/4	2,270.80	1/4	1,892.84	1/4	1,514.89	1/4	1,136.93	1/4	759.37	1/4	385.77	1/4	62.73	1/4	1/4		1/4		1/4
1/2	2,262.93	1/2	1,884.97	1/2	1,507.01	1/2	1,129.06	1/2	751.49	1/2	378.37	1/2	56.72	1/2	1/2		1/2		1/2
3/4	2,255.05	3/4	1,877.10	3/4	1,499.14	3/4	1,121.18	3/4	743.62	3/4	370.98	3/4	50.71	3/4	3/4		3/4		3/4
6	2,247.18	6	1,869.22	6	1,491.27	6	1,113.31	6	735.74	6	363.69	6	45.30	6	6		6		6
1/4	2,239.31	1/4	1,861.35	1/4	1,483.39	1/4	1,105.44	1/4	727.87	1/4	356.41	1/4	39.88	1/4	1/4		1/4		1/4
1/2	2,231.43	1/2	1,853.47	1/2	1,475.52	1/2	1,097.58	1/2	720.00	1/2	349.12	1/2	34.46	1/2	1/2		1/2		1/2
3/4	2,223.56	3/4	1,845.60	3/4	1,467.64	3/4	1,089.71	3/4	712.12	3/4	341.83	3/4	29.04	3/4	3/4		3/4		3/4
7	2,215.68	7	1,837.73	7	1,459.77	7	1,081.84	7	704.25	7	334.66	7	25.08	7	7		7		7
1/4	2,207.81	1/4	1,829.85	1/4	1,451.90	1/4	1,073.98	1/4	696.38	1/4	327.48	1/4	21.12	1/4	1/4		1/4		1/4
1/2	2,199.93	1/2	1,821.98	1/2	1,444.02	1/2	1,066.12	1/2	688.50	1/2	320.30	1/2	17.15	1/2	1/2		1/2		1/2
3/4	2,192.06	3/4	1,814.10	3/4	1,436.15	3/4	1,058.26	3/4	680.63	3/4	313.13	3/4	13.19	3/4	3/4		3/4		3/4
8	2,184.19	8	1,806.23	8	1,428.27	8	1,050.40	8	672.75	8	306.06	8		8	8		8		8
1/4	2,176.31	1/4	1,798.36	1/4	1,420.40	1/4	1,042.53	1/4	664.88	1/4	298.99	1/4		1/4	1/4		1/4		1/4
1/2	2,168.44	1/2	1,790.48	1/2	1,412.52	1/2	1,034.67	1/2	657.01	1/2	291.93	1/2		1/2	1/2		1/2		1/2
3/4	2,160.56	3/4	1,782.61	3/4	1,404.65	3/4	1,026.81	3/4	649.13	3/4	284.86	3/4		3/4	3/4		3/4		3/4
9	2,152.69	9	1,774.73	9	1,396.78	9	1,018.95	9	641.26	9	277.90	9		9	9		9		9
1/4	2,144.82	1/4	1,766.86	1/4	1,388.90	1/4	1,011.09	1/4	633.38	1/4	270.94	1/4		1/4	1/4		1/4		1/4
1/2	2,136.94	1/2	1,758.98	1/2	1,381.03	1/2	1,003.22	1/2	625.51	1/2	263.99	1/2		1/2	1/2		1/2		1/2
3/4	2,129.07	3/4	1,751.11	3/4	1,373.15	3/4	995.36	3/4	617.64	3/4	257.03	3/4		3/4	3/4		3/4		3/4
10	2,121.19	10	1,743.24	10	1,365.28	10	987.50	10	609.76	10	250.18	10		10	10		10		10
1/4	2,113.32	1/4	1,735.36	1/4	1,357.41	1/4	979.64	1/4	601.89	1/4	243.33	1/4		1/4	1/4		1/4		1/4
1/2	2,105.45	1/2	1,727.49	1/2	1,349.53	1/2	971.78	1/2	594.01	1/2	236.48	1/2		1/2	1/2		1/2		1/2
3/4	2,097.57	3/4	1,719.61	3/4	1,341.66	3/4	963.91	3/4	586.14	3/4	229.64	3/4		3/4	3/4		3/4		3/4
11	2,089.70	11	1,711.74	11	1,333.78	11	956.05	11	578.27	11	222.90	11		11	11		11		11
1/4	2,081.82	1/4	1,703.87	1/4	1,325.91	1/4	948.19	1/4	570.39	1/4	216.16	1/4		1/4	1/4		1/4		1/4
1/2	2,073.95	1/2	1,695.99	1/2	1,318.04	1/2	940.33	1/2	562.52	1/2	209.42	1/2		1/2	1/2		1/2		1/2
3/4	2,066.07	3/4	1,688.12	3/4	1,310.16	3/4	932.47	3/4	554.64	3/4	202.68	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2013 SW  
CALCULATED: 02/19/2013 CL  
PRINTED: 02/19/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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



# BARGE "KIRBY 29104"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
									4,469.89		4,147.29		3,809.56		3,456.98		3,099.31		2,740.15		
1/4		1/4		1/4		1/4		1/4	4,463.33	1/4	4,140.42	1/4	3,802.37	1/4	3,449.53	1/4	3,091.84	1/4	2,732.67		
1/2		1/2		1/2		1/2		1/2	4,456.74	1/2	4,133.52	1/2	3,795.15	1/2	3,442.08	1/2	3,084.36	1/2	2,725.19		
3/4		3/4		3/4		3/4		3/4	4,767.27	3/4	4,450.16	3/4	4,126.62	3/4	3,787.94	3/4	3,434.63	3/4	3,076.88	3/4	2,717.71
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	4,443.58	<b>1</b>	4,119.72	<b>1</b>	3,780.72	<b>1</b>	3,427.18	<b>1</b>	3,069.39	<b>1</b>	2,710.22		
1/4		1/4		1/4		1/4		1/4	4,757.05	1/4	4,437.00	1/4	4,112.81	1/4	3,773.51	1/4	3,419.73	1/4	3,061.91	1/4	2,702.74
1/2		1/2		1/2		1/2		1/2	4,750.70	1/2	4,430.39	1/2	4,105.89	1/2	3,766.27	1/2	3,412.27	1/2	3,054.43	1/2	2,695.26
3/4		3/4		3/4		3/4		3/4	4,744.36	3/4	4,423.79	3/4	4,098.97	3/4	3,759.02	3/4	3,404.82	3/4	3,046.94	3/4	2,687.77
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	4,738.02	<b>2</b>	4,417.18	<b>2</b>	4,092.04	<b>2</b>	3,751.78	<b>2</b>	3,397.37	<b>2</b>	3,039.46	<b>2</b>	2,680.29
1/4		1/4		1/4		1/4		1/4	4,731.67	1/4	4,410.57	1/4	4,085.12	1/4	3,744.54	1/4	3,389.92	1/4	3,031.98	1/4	2,672.81
1/2		1/2		1/2		1/2		1/2	4,724.44	1/2	4,403.94	1/2	4,078.17	1/2	3,737.27	1/2	3,382.47	1/2	3,024.50	1/2	2,665.33
3/4		3/4		3/4		3/4		3/4	4,717.21	3/4	4,397.30	3/4	4,071.22	3/4	3,730.01	3/4	3,375.02	3/4	3,017.01	3/4	2,657.84
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	4,709.98	<b>3</b>	4,390.67	<b>3</b>	4,064.27	<b>3</b>	3,722.74	<b>3</b>	3,367.57	<b>3</b>	3,009.53	<b>3</b>	2,650.36
1/4		1/4		1/4		1/4		1/4	4,702.75	1/4	4,384.03	1/4	4,057.33	1/4	3,715.48	1/4	3,360.12	1/4	3,002.05	1/4	2,642.88
1/2		1/2		1/2		1/2		1/2	4,695.30	1/2	4,377.37	1/2	4,050.35	1/2	3,708.19	1/2	3,352.67	1/2	2,994.57	1/2	2,635.40
3/4		3/4		3/4		3/4		3/4	4,687.85	3/4	4,370.71	3/4	4,043.37	3/4	3,700.90	3/4	3,345.22	3/4	2,987.08	3/4	2,627.91
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	4,680.40	<b>4</b>	4,364.05	<b>4</b>	4,036.40	<b>4</b>	3,693.61	<b>4</b>	3,337.77	<b>4</b>	2,979.60	<b>4</b>	2,620.43
1/4		1/4		1/4		1/4		1/4	4,672.95	1/4	4,357.39	1/4	4,029.42	1/4	3,686.31	1/4	3,330.32	1/4	2,972.12	1/4	2,612.95
1/2		1/2		1/2		1/2		1/2	4,665.90	1/2	4,350.71	1/2	4,022.42	1/2	3,679.00	1/2	3,322.87	1/2	2,964.63	1/2	2,605.47
3/4		3/4		3/4		3/4		3/4	4,658.84	3/4	4,344.02	3/4	4,015.42	3/4	3,671.68	3/4	3,315.42	3/4	2,957.15	3/4	2,597.98
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	4,651.79	<b>5</b>	4,337.33	<b>5</b>	4,008.41	<b>5</b>	3,664.36	<b>5</b>	3,307.97	<b>5</b>	2,949.67	<b>5</b>	2,590.50
1/4		1/4		1/4		1/4		1/4	4,644.74	1/4	4,330.64	1/4	4,001.41	1/4	3,657.04	1/4	3,300.52	1/4	2,942.19	1/4	2,583.02
1/2		1/2		1/2		1/2		1/2	4,638.34	1/2	4,323.93	1/2	3,994.38	1/2	3,649.70	1/2	3,293.07	1/2	2,934.70	1/2	2,575.53
3/4		3/4		3/4		3/4		3/4	4,631.94	3/4	4,317.22	3/4	3,987.35	3/4	3,642.36	3/4	3,285.61	3/4	2,927.22	3/4	2,568.05
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	4,625.54	<b>6</b>	4,310.50	<b>6</b>	3,980.33	<b>6</b>	3,635.01	<b>6</b>	3,278.16	<b>6</b>	2,919.74	<b>6</b>	2,560.57
1/4		1/4		1/4		1/4		1/4	4,619.14	1/4	4,303.79	1/4	3,973.30	1/4	3,627.67	1/4	3,270.71	1/4	2,912.26	1/4	2,553.09
1/2		1/2		1/2		1/2		1/2	4,612.72	1/2	4,297.05	1/2	3,966.24	1/2	3,620.30	1/2	3,263.26	1/2	2,904.77	1/2	2,545.60
3/4		3/4		3/4		3/4		3/4	4,606.29	3/4	4,290.31	3/4	3,959.19	3/4	3,612.93	3/4	3,255.81	3/4	2,897.29	3/4	2,538.12
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	4,599.87	<b>7</b>	4,283.57	<b>7</b>	3,952.13	<b>7</b>	3,605.56	<b>7</b>	3,248.36	<b>7</b>	2,889.81	<b>7</b>	2,530.64
1/4		1/4		1/4		1/4		1/4	4,593.44	1/4	4,276.83	1/4	3,945.08	1/4	3,598.18	1/4	3,240.91	1/4	2,882.32	1/4	2,523.16
1/2		1/2		1/2		1/2		1/2	4,586.99	1/2	4,270.06	1/2	3,937.99	1/2	3,590.79	1/2	3,233.46	1/2	2,874.84	1/2	2,515.67
3/4		3/4		3/4		3/4		3/4	4,580.54	3/4	4,263.29	3/4	3,930.91	3/4	3,583.39	3/4	3,226.01	3/4	2,867.36	3/4	2,508.19
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	4,574.08	<b>8</b>	4,256.53	<b>8</b>	3,923.83	<b>8</b>	3,575.99	<b>8</b>	3,218.56	<b>8</b>	2,859.88	<b>8</b>	2,500.71
1/4		1/4		1/4		1/4		1/4	4,567.63	1/4	4,249.76	1/4	3,916.75	1/4	3,568.60	1/4	3,211.11	1/4	2,852.39	1/4	2,493.22
1/2		1/2		1/2		1/2		1/2	4,561.15	1/2	4,242.97	1/2	3,909.64	1/2	3,561.17	1/2	3,203.66	1/2	2,844.91	1/2	2,485.74
3/4		3/4		3/4		3/4		3/4	4,554.67	3/4	4,236.17	3/4	3,902.53	3/4	3,553.75	3/4	3,196.21	3/4	2,837.43	3/4	2,478.26
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	4,548.20	<b>9</b>	4,229.38	<b>9</b>	3,895.42	<b>9</b>	3,546.33	<b>9</b>	3,188.76	<b>9</b>	2,829.95	<b>9</b>	2,470.78
1/4		1/4		1/4		1/4		1/4	4,541.72	1/4	4,222.58	1/4	3,888.31	1/4	3,538.90	1/4	3,181.31	1/4	2,822.46	1/4	2,463.29
1/2		1/2		1/2		1/2		1/2	4,535.21	1/2	4,215.76	1/2	3,881.18	1/2	3,531.46	1/2	3,173.86	1/2	2,814.98	1/2	2,455.81
3/4		3/4		3/4		3/4		3/4	4,528.70	3/4	4,208.94	3/4	3,874.04	3/4	3,524.02	3/4	3,166.40	3/4	2,807.50	3/4	2,448.33
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	4,522.20	<b>10</b>	4,202.12	<b>10</b>	3,866.91	<b>10</b>	3,516.57	<b>10</b>	3,158.95	<b>10</b>	2,800.02	<b>10</b>	2,440.85
1/4		1/4		1/4		1/4		1/4	4,515.69	1/4	4,195.30	1/4	3,859.77	1/4	3,509.13	1/4	3,151.50	1/4	2,792.53	1/4	2,433.36
1/2		1/2		1/2		1/2		1/2	4,509.16	1/2	4,188.46	1/2	3,852.61	1/2	3,501.68	1/2	3,144.05	1/2	2,785.05	1/2	2,425.88
3/4		3/4		3/4		3/4		3/4	4,502.63	3/4	4,181.61	3/4	3,845.45	3/4	3,494.23	3/4	3,136.60	3/4	2,777.57	3/4	2,418.40
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	4,496.10	<b>11</b>	4,174.76	<b>11</b>	3,838.29	<b>11</b>	3,486.78	<b>11</b>	3,129.15	<b>11</b>	2,770.08	<b>11</b>	2,410.91
1/4		1/4		1/4		1/4		1/4	4,489.57	1/4	4,167.91	1/4	3,831.13	1/4	3,479.33	1/4	3,121.70	1/4	2,762.60	1/4	2,403.43
1/2		1/2		1/2		1/2		1/2	4,483.01	1/2	4,161.04	1/2	3,823.94	1/2	3,471.88	1/2	3,114.24	1/2	2,755.12	1/2	2,395.95
3/4		3/4		3/4		3/4		3/4	4,476.45	3/4	4,154.17	3/4	3,816.75	3/4	3,464.43	3/4	3,106.77	3/4	2,747.64	3/4	2,388.47

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'-06" 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 29104"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,373.50	1/4	2,014.33	1/4	1,655.16	1/4	1,304.34	1/4	959.36	1/4	602.17	1/4	243.01	1/4		1/4		1/4	
1/2	2,366.02	1/2	2,006.85	1/2	1,647.68	1/2	1,297.14	1/2	952.18	1/2	594.68	1/2	235.52	1/2		1/2		1/2	
3/4	2,358.54	3/4	1,999.37	3/4	1,640.20	3/4	1,289.94	3/4	945.00	3/4	587.20	3/4	228.04	3/4		3/4		3/4	
1	2,351.05	1	1,991.88	1	1,632.71	1	1,282.74	1	937.82	1	579.72	1	220.56	1		1		1	
1/4	2,343.57	1/4	1,984.40	1/4	1,625.23	1/4	1,275.54	1/4	930.64	1/4	572.24	1/4	213.08	1/4		1/4		1/4	
1/2	2,336.09	1/2	1,976.92	1/2	1,617.75	1/2	1,268.34	1/2	923.35	1/2	564.75	1/2	205.60	1/2		1/2		1/2	
3/4	2,328.61	3/4	1,969.44	3/4	1,610.27	3/4	1,261.14	3/4	916.05	3/4	557.27	3/4	198.12	3/4		3/4		3/4	
2	2,321.12	2	1,961.95	2	1,602.78	2	1,253.94	2	908.76	2	549.79	2	190.64	2		2		2	
1/4	2,313.64	1/4	1,954.47	1/4	1,595.30	1/4	1,246.74	1/4	901.47	1/4	542.31	1/4	183.15	1/4		1/4		1/4	
1/2	2,306.16	1/2	1,946.99	1/2	1,587.82	1/2	1,239.54	1/2	893.98	1/2	534.82	1/2	175.68	1/2		1/2		1/2	
3/4	2,298.67	3/4	1,939.50	3/4	1,580.34	3/4	1,232.34	3/4	886.50	3/4	527.34	3/4	168.21	3/4		3/4		3/4	
3	2,291.19	3	1,932.02	3	1,572.85	3	1,225.14	3	879.02	3	519.86	3	160.73	3		3		3	
1/4	2,283.71	1/4	1,924.54	1/4	1,565.37	1/4	1,217.94	1/4	871.54	1/4	512.38	1/4	153.26	1/4		1/4		1/4	
1/2	2,276.23	1/2	1,917.06	1/2	1,557.89	1/2	1,210.75	1/2	864.05	1/2	504.89	1/2	145.80	1/2		1/2		1/2	
3/4	2,268.74	3/4	1,909.57	3/4	1,550.40	3/4	1,203.55	3/4	856.57	3/4	497.41	3/4	138.33	3/4		3/4		3/4	
4	2,261.26	4	1,902.09	4	1,542.92	4	1,196.36	4	849.09	4	489.93	4	130.87	4		4		4	
1/4	2,253.78	1/4	1,894.61	1/4	1,535.44	1/4	1,189.16	1/4	841.61	1/4	482.45	1/4	123.41	1/4		1/4		1/4	
1/2	2,246.30	1/2	1,887.13	1/2	1,528.06	1/2	1,181.98	1/2	834.12	1/2	474.96	1/2	115.96	1/2		1/2		1/2	
3/4	2,238.81	3/4	1,879.64	3/4	1,520.68	3/4	1,174.79	3/4	826.64	3/4	467.48	3/4	108.52	3/4		3/4		3/4	
5	2,231.33	5	1,872.16	5	1,513.31	5	1,167.60	5	819.16	5	460.00	5	101.07	5		5		5	
1/4	2,223.85	1/4	1,864.68	1/4	1,505.93	1/4	1,160.41	1/4	811.68	1/4	452.52	1/4	93.63	1/4		1/4		1/4	
1/2	2,216.36	1/2	1,857.20	1/2	1,498.73	1/2	1,153.23	1/2	804.19	1/2	445.03	1/2	86.21	1/2		1/2		1/2	
3/4	2,208.88	3/4	1,849.71	3/4	1,491.53	3/4	1,146.05	3/4	796.71	3/4	437.55	3/4	78.80	3/4		3/4		3/4	
6	2,201.40	6	1,842.23	6	1,484.33	6	1,138.86	6	789.23	6	430.07	6	71.39	6		6		6	
1/4	2,193.92	1/4	1,834.75	1/4	1,477.13	1/4	1,131.68	1/4	781.75	1/4	422.59	1/4	63.97	1/4		1/4		1/4	
1/2	2,186.43	1/2	1,827.26	1/2	1,469.93	1/2	1,124.50	1/2	774.26	1/2	415.10	1/2	57.02	1/2		1/2		1/2	
3/4	2,178.95	3/4	1,819.78	3/4	1,462.73	3/4	1,117.32	3/4	766.78	3/4	407.62	3/4	50.07	3/4		3/4		3/4	
7	2,171.47	7	1,812.30	7	1,455.53	7	1,110.14	7	759.30	7	400.14	7	43.11	7		7		7	
1/4	2,163.99	1/4	1,804.82	1/4	1,448.33	1/4	1,102.96	1/4	751.82	1/4	392.66	1/4	36.16	1/4		1/4		1/4	
1/2	2,156.50	1/2	1,797.33	1/2	1,441.13	1/2	1,095.78	1/2	744.33	1/2	385.17	1/2	30.86	1/2		1/2		1/2	
3/4	2,149.02	3/4	1,789.85	3/4	1,433.93	3/4	1,088.60	3/4	736.85	3/4	377.69	3/4	25.56	3/4		3/4		3/4	
8	2,141.54	8	1,782.37	8	1,426.73	8	1,081.42	8	729.37	8	370.21	8	20.26	8		8		8	
1/4	2,134.05	1/4	1,774.89	1/4	1,419.53	1/4	1,074.24	1/4	721.89	1/4	362.73	1/4	14.97	1/4		1/4		1/4	
1/2	2,126.57	1/2	1,767.40	1/2	1,412.33	1/2	1,067.06	1/2	714.40	1/2	355.24	1/2		1/2		1/2		1/2	
3/4	2,119.09	3/4	1,759.92	3/4	1,405.14	3/4	1,059.88	3/4	706.92	3/4	347.76	3/4		3/4		3/4		3/4	
9	2,111.61	9	1,752.44	9	1,397.94	9	1,052.70	9	699.44	9	340.28	9		9		9		9	
1/4	2,104.12	1/4	1,744.95	1/4	1,390.74	1/4	1,045.52	1/4	691.96	1/4	332.80	1/4		1/4		1/4		1/4	
1/2	2,096.64	1/2	1,737.47	1/2	1,383.54	1/2	1,038.34	1/2	684.47	1/2	325.31	1/2		1/2		1/2		1/2	
3/4	2,089.16	3/4	1,729.99	3/4	1,376.34	3/4	1,031.16	3/4	676.99	3/4	317.83	3/4		3/4		3/4		3/4	
10	2,081.68	10	1,722.51	10	1,369.14	10	1,023.98	10	669.51	10	310.35	10		10		10		10	
1/4	2,074.19	1/4	1,715.02	1/4	1,361.94	1/4	1,016.80	1/4	662.03	1/4	302.87	1/4		1/4		1/4		1/4	
1/2	2,066.71	1/2	1,707.54	1/2	1,354.74	1/2	1,009.62	1/2	654.54	1/2	295.38	1/2		1/2		1/2		1/2	
3/4	2,059.23	3/4	1,700.06	3/4	1,347.54	3/4	1,002.44	3/4	647.06	3/4	287.90	3/4		3/4		3/4		3/4	
11	2,051.75	11	1,692.58	11	1,340.34	11	995.26	11	639.58	11	280.42	11		11		11		11	
1/4	2,044.26	1/4	1,685.09	1/4	1,333.14	1/4	988.08	1/4	632.10	1/4	272.94	1/4		1/4		1/4		1/4	
1/2	2,036.78	1/2	1,677.61	1/2	1,325.94	1/2	980.90	1/2	624.61	1/2	265.45	1/2		1/2		1/2		1/2	
3/4	2,029.30	3/4	1,670.13	3/4	1,318.74	3/4	973.72	3/4	617.13	3/4	257.97	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2013 SW  
CALCULATED: 02/19/2013 CL  
PRINTED: 02/19/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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





# BARGE "KIRBY 29104"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4		1/4	4,496.19	1/4	4,173.44	1/4	3,835.54	1/4	3,482.79	1/4	3,124.95	1/4	2,765.63
1/2		1/2		1/2		1/2		1/2	4,489.62	1/2	4,166.56	1/2	3,828.34	1/2	3,475.33	1/2	3,117.49	1/2	2,758.14
3/4		3/4		3/4		3/4		3/4	4,483.04	3/4	4,159.66	3/4	3,821.13	3/4	3,467.88	3/4	3,110.00	3/4	2,750.66
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	4,793.72	<b>1</b>	4,476.45	<b>1</b>	4,152.75	<b>1</b>	3,813.91	<b>1</b>	3,460.42	<b>1</b>	3,102.52
1/4		1/4		1/4		1/4		1/4	4,469.87	1/4	4,145.85	1/4	3,806.69	1/4	3,452.97	1/4	3,095.03	1/4	2,735.68
1/2		1/2		1/2		1/2		1/2	4,783.49	1/2	4,463.28	1/2	4,138.94	1/2	3,799.47	1/2	3,445.52	1/2	3,087.54
3/4		3/4		3/4		3/4		3/4	4,777.14	3/4	4,456.67	3/4	4,132.01	3/4	3,792.22	3/4	3,438.06	3/4	3,080.06
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	4,770.79	<b>2</b>	4,450.06	<b>2</b>	4,125.09	<b>2</b>	3,784.98	<b>2</b>	3,430.61	<b>2</b>	3,072.57
1/4		1/4		1/4		1/4		1/4	4,764.45	1/4	4,443.45	1/4	4,118.16	1/4	3,777.73	1/4	3,423.15	1/4	3,065.08
1/2		1/2		1/2		1/2		1/2	4,758.10	1/2	4,436.84	1/2	4,111.23	1/2	3,770.49	1/2	3,415.70	1/2	3,057.60
3/4		3/4		3/4		3/4		3/4	4,750.87	3/4	4,430.20	3/4	4,104.28	3/4	3,763.22	3/4	3,408.24	3/4	3,050.11
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	4,743.63	<b>3</b>	4,423.57	<b>3</b>	4,097.33	<b>3</b>	3,755.95	<b>3</b>	3,400.79	<b>3</b>	3,042.63
1/4		1/4		1/4		1/4		1/4	4,736.40	1/4	4,416.93	1/4	4,090.38	1/4	3,748.68	1/4	3,393.34	1/4	3,035.14
1/2		1/2		1/2		1/2		1/2	4,729.16	1/2	4,410.29	1/2	4,083.43	1/2	3,741.41	1/2	3,385.88	1/2	3,027.65
3/4		3/4		3/4		3/4		3/4	4,721.71	3/4	4,403.63	3/4	4,076.45	3/4	3,734.12	3/4	3,378.43	3/4	3,020.17
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	4,714.26	<b>4</b>	4,396.96	<b>4</b>	4,069.47	<b>4</b>	3,726.82	<b>4</b>	3,370.97	<b>4</b>	3,012.68
1/4		1/4		1/4		1/4		1/4	4,706.80	1/4	4,390.30	1/4	4,062.49	1/4	3,719.53	1/4	3,363.52	1/4	3,005.19
1/2		1/2		1/2		1/2		1/2	4,699.35	1/2	4,383.64	1/2	4,055.51	1/2	3,712.24	1/2	3,356.07	1/2	2,997.71
3/4		3/4		3/4		3/4		3/4	4,692.29	3/4	4,376.95	3/4	4,048.50	3/4	3,704.91	3/4	3,348.61	3/4	2,990.22
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	4,685.23	<b>5</b>	4,370.26	<b>5</b>	4,041.50	<b>5</b>	3,697.59	<b>5</b>	3,341.16	<b>5</b>	2,982.73
1/4		1/4		1/4		1/4		1/4	4,678.18	1/4	4,363.57	1/4	4,034.49	1/4	3,690.27	1/4	3,333.70	1/4	2,975.25
1/2		1/2		1/2		1/2		1/2	4,671.12	1/2	4,356.87	1/2	4,027.49	1/2	3,682.95	1/2	3,326.25	1/2	2,967.76
3/4		3/4		3/4		3/4		3/4	4,664.72	3/4	4,350.16	3/4	4,020.45	3/4	3,675.60	3/4	3,318.79	3/4	2,960.28
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	4,658.32	<b>6</b>	4,343.44	<b>6</b>	4,013.42	<b>6</b>	3,668.25	<b>6</b>	3,311.34	<b>6</b>	2,952.79
1/4		1/4		1/4		1/4		1/4	4,651.92	1/4	4,336.73	1/4	4,006.39	1/4	3,660.91	1/4	3,303.89	1/4	2,945.30
1/2		1/2		1/2		1/2		1/2	4,645.51	1/2	4,330.01	1/2	3,999.36	1/2	3,653.56	1/2	3,296.43	1/2	2,937.82
3/4		3/4		3/4		3/4		3/4	4,639.09	3/4	4,323.26	3/4	3,992.30	3/4	3,646.19	3/4	3,288.98	3/4	2,930.33
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	4,632.66	<b>7</b>	4,316.52	<b>7</b>	3,985.24	<b>7</b>	3,638.81	<b>7</b>	3,281.52	<b>7</b>	2,922.84
1/4		1/4		1/4		1/4		1/4	4,626.23	1/4	4,309.78	1/4	3,978.18	1/4	3,631.44	1/4	3,274.07	1/4	2,915.36
1/2		1/2		1/2		1/2		1/2	4,619.80	1/2	4,303.03	1/2	3,971.12	1/2	3,624.06	1/2	3,266.62	1/2	2,907.87
3/4		3/4		3/4		3/4		3/4	4,613.34	3/4	4,296.26	3/4	3,964.04	3/4	3,616.66	3/4	3,259.16	3/4	2,900.38
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	4,606.89	<b>8</b>	4,289.49	<b>8</b>	3,956.95	<b>8</b>	3,609.26	<b>8</b>	3,251.71	<b>8</b>	2,892.90
1/4		1/4		1/4		1/4		1/4	4,600.43	1/4	4,282.72	1/4	3,949.87	1/4	3,601.86	1/4	3,244.25	1/4	2,885.41
1/2		1/2		1/2		1/2		1/2	4,593.98	1/2	4,275.95	1/2	3,942.78	1/2	3,594.46	1/2	3,236.80	1/2	2,877.92
3/4		3/4		3/4		3/4		3/4	4,587.50	3/4	4,269.16	3/4	3,935.67	3/4	3,587.03	3/4	3,229.34	3/4	2,870.44
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	4,581.01	<b>9</b>	4,262.36	<b>9</b>	3,928.56	<b>9</b>	3,579.61	<b>9</b>	3,221.89	<b>9</b>	2,862.95
1/4		1/4		1/4		1/4		1/4	4,574.53	1/4	4,255.56	1/4	3,921.44	1/4	3,572.18	1/4	3,214.44	1/4	2,855.47
1/2		1/2		1/2		1/2		1/2	4,568.05	1/2	4,248.76	1/2	3,914.33	1/2	3,564.75	1/2	3,206.98	1/2	2,847.98
3/4		3/4		3/4		3/4		3/4	4,561.54	3/4	4,241.94	3/4	3,907.19	3/4	3,557.30	3/4	3,199.53	3/4	2,840.49
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	4,555.03	<b>10</b>	4,235.12	<b>10</b>	3,900.05	<b>10</b>	3,549.86	<b>10</b>	3,192.07	<b>10</b>	2,833.01
1/4		1/4		1/4		1/4		1/4	4,548.52	1/4	4,228.29	1/4	3,892.92	1/4	3,542.41	1/4	3,184.62	1/4	2,825.52
1/2		1/2		1/2		1/2		1/2	4,542.01	1/2	4,221.47	1/2	3,885.78	1/2	3,534.97	1/2	3,177.16	1/2	2,818.03
3/4		3/4		3/4		3/4		3/4	4,535.48	3/4	4,214.62	3/4	3,878.61	3/4	3,527.51	3/4	3,169.71	3/4	2,810.55
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	4,528.94	<b>11</b>	4,207.77	<b>11</b>	3,871.45	<b>11</b>	3,520.06	<b>11</b>	3,162.26	<b>11</b>	2,803.06
1/4		1/4		1/4		1/4		1/4	4,522.41	1/4	4,200.92	1/4	3,864.28	1/4	3,512.60	1/4	3,154.80	1/4	2,795.57
1/2		1/2		1/2		1/2		1/2	4,515.87	1/2	4,194.07	1/2	3,857.12	1/2	3,505.15	1/2	3,147.35	1/2	2,788.09
3/4		3/4		3/4		3/4		3/4	4,509.31	3/4	4,187.19	3/4	3,849.92	3/4	3,497.70	3/4	3,139.88	3/4	2,780.60
									4,502.75		4,180.31		3,842.73		3,490.24		3,132.42		2,773.12

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'-06" 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 29104"

2 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	2,406.28	0	2,046.93	0	1,687.59	0	1,328.24	0	969.14	0	609.94	0	250.61	0		0		0	
1/4	2,398.80	1/4	2,039.45	1/4	1,680.10	1/4	1,320.75	1/4	961.67	1/4	602.46	1/4	243.12	1/4	1/4		1/4		1/4
1/2	2,391.31	1/2	2,031.96	1/2	1,672.61	1/2	1,313.27	1/2	954.19	1/2	594.97	1/2	235.64	1/2	1/2		1/2		1/2
3/4	2,383.82	3/4	2,024.48	3/4	1,665.13	3/4	1,305.78	3/4	946.72	3/4	587.48	3/4	228.15	3/4	3/4		3/4		3/4
1	2,376.34	1	2,016.99	1	1,657.64	1	1,298.29	1	939.25	1	580.00	1	220.67	1	1		1		1
1/4	2,368.85	1/4	2,009.50	1/4	1,650.16	1/4	1,290.81	1/4	931.77	1/4	572.51	1/4	213.18	1/4	1/4		1/4		1/4
1/2	2,361.36	1/2	2,002.02	1/2	1,642.67	1/2	1,283.32	1/2	924.30	1/2	565.03	1/2	205.70	1/2	1/2		1/2		1/2
3/4	2,353.88	3/4	1,994.53	3/4	1,635.18	3/4	1,275.84	3/4	916.82	3/4	557.54	3/4	198.21	3/4	3/4		3/4		3/4
2	2,346.39	2	1,987.04	2	1,627.70	2	1,268.35	2	909.35	2	550.05	2	190.73	2	2		2		2
1/4	2,338.90	1/4	1,979.56	1/4	1,620.21	1/4	1,260.86	1/4	901.87	1/4	542.57	1/4	183.24	1/4	1/4		1/4		1/4
1/2	2,331.42	1/2	1,972.07	1/2	1,612.72	1/2	1,253.38	1/2	894.39	1/2	535.08	1/2	175.77	1/2	1/2		1/2		1/2
3/4	2,323.93	3/4	1,964.58	3/4	1,605.24	3/4	1,245.89	3/4	886.92	3/4	527.59	3/4	168.29	3/4	3/4		3/4		3/4
3	2,316.44	3	1,957.10	3	1,597.75	3	1,238.40	3	879.44	3	520.11	3	160.81	3	3		3		3
1/4	2,308.96	1/4	1,949.61	1/4	1,590.26	1/4	1,230.92	1/4	871.96	1/4	512.62	1/4	153.33	1/4	1/4		1/4		1/4
1/2	2,301.47	1/2	1,942.12	1/2	1,582.78	1/2	1,223.43	1/2	864.47	1/2	505.14	1/2	145.87	1/2	1/2		1/2		1/2
3/4	2,293.99	3/4	1,934.64	3/4	1,575.29	3/4	1,215.94	3/4	856.98	3/4	497.65	3/4	138.40	3/4	3/4		3/4		3/4
4	2,286.50	4	1,927.15	4	1,567.80	4	1,208.46	4	849.50	4	490.16	4	130.93	4	4		4		4
1/4	2,279.01	1/4	1,919.67	1/4	1,560.32	1/4	1,200.97	1/4	842.01	1/4	482.68	1/4	123.47	1/4	1/4		1/4		1/4
1/2	2,271.53	1/2	1,912.18	1/2	1,552.83	1/2	1,193.48	1/2	834.53	1/2	475.19	1/2	116.02	1/2	1/2		1/2		1/2
3/4	2,264.04	3/4	1,904.69	3/4	1,545.35	3/4	1,186.00	3/4	827.04	3/4	467.71	3/4	108.57	3/4	3/4		3/4		3/4
5	2,256.55	5	1,897.21	5	1,537.86	5	1,178.51	5	819.55	5	460.22	5	101.12	5	5		5		5
1/4	2,249.07	1/4	1,889.72	1/4	1,530.37	1/4	1,171.03	1/4	812.07	1/4	452.73	1/4	93.67	1/4	1/4		1/4		1/4
1/2	2,241.58	1/2	1,882.23	1/2	1,522.89	1/2	1,163.54	1/2	804.58	1/2	445.25	1/2	86.26	1/2	1/2		1/2		1/2
3/4	2,234.09	3/4	1,874.75	3/4	1,515.40	3/4	1,156.05	3/4	797.09	3/4	437.76	3/4	78.84	3/4	3/4		3/4		3/4
6	2,226.61	6	1,867.26	6	1,507.91	6	1,148.57	6	789.61	6	430.28	6	71.42	6	6		6		6
1/4	2,219.12	1/4	1,859.77	1/4	1,500.43	1/4	1,141.08	1/4	782.12	1/4	422.79	1/4	64.00	1/4	1/4		1/4		1/4
1/2	2,211.64	1/2	1,852.29	1/2	1,492.94	1/2	1,133.60	1/2	774.64	1/2	415.30	1/2	57.05	1/2	1/2		1/2		1/2
3/4	2,204.15	3/4	1,844.80	3/4	1,485.45	3/4	1,126.12	3/4	767.15	3/4	407.82	3/4	50.09	3/4	3/4		3/4		3/4
7	2,196.66	7	1,837.32	7	1,477.97	7	1,118.63	7	759.66	7	400.33	7	43.13	7	7		7		7
1/4	2,189.18	1/4	1,829.83	1/4	1,470.48	1/4	1,111.15	1/4	752.18	1/4	392.85	1/4	36.17	1/4	1/4		1/4		1/4
1/2	2,181.69	1/2	1,822.34	1/2	1,463.00	1/2	1,103.68	1/2	744.69	1/2	385.36	1/2	30.87	1/2	1/2		1/2		1/2
3/4	2,174.20	3/4	1,814.86	3/4	1,455.51	3/4	1,096.20	3/4	737.21	3/4	377.87	3/4	25.57	3/4	3/4		3/4		3/4
8	2,166.72	8	1,807.37	8	1,448.02	8	1,088.73	8	729.72	8	370.39	8	20.27	8	8		8		8
1/4	2,159.23	1/4	1,799.88	1/4	1,440.54	1/4	1,081.26	1/4	722.23	1/4	362.90	1/4	14.97	1/4	1/4		1/4		1/4
1/2	2,151.74	1/2	1,792.40	1/2	1,433.05	1/2	1,073.78	1/2	714.75	1/2	355.41	1/2		1/2	1/2		1/2		1/2
3/4	2,144.26	3/4	1,784.91	3/4	1,425.56	3/4	1,066.31	3/4	707.26	3/4	347.93	3/4		3/4	3/4		3/4		3/4
9	2,136.77	9	1,777.42	9	1,418.08	9	1,058.83	9	699.78	9	340.44	9		9	9		9		9
1/4	2,129.28	1/4	1,769.94	1/4	1,410.59	1/4	1,051.36	1/4	692.29	1/4	332.96	1/4		1/4	1/4		1/4		1/4
1/2	2,121.80	1/2	1,762.45	1/2	1,403.10	1/2	1,043.88	1/2	684.80	1/2	325.47	1/2		1/2	1/2		1/2		1/2
3/4	2,114.31	3/4	1,754.96	3/4	1,395.62	3/4	1,036.41	3/4	677.32	3/4	317.98	3/4		3/4	3/4		3/4		3/4
10	2,106.83	10	1,747.48	10	1,388.13	10	1,028.94	10	669.83	10	310.50	10		10	10		10		10
1/4	2,099.34	1/4	1,739.99	1/4	1,380.64	1/4	1,021.46	1/4	662.34	1/4	303.01	1/4		1/4	1/4		1/4		1/4
1/2	2,091.85	1/2	1,732.51	1/2	1,373.16	1/2	1,013.99	1/2	654.86	1/2	295.53	1/2		1/2	1/2		1/2		1/2
3/4	2,084.37	3/4	1,725.02	3/4	1,365.67	3/4	1,006.51	3/4	647.37	3/4	288.04	3/4		3/4	3/4		3/4		3/4
11	2,076.88	11	1,717.53	11	1,358.19	11	999.04	11	639.89	11	280.55	11		11	11		11		11
1/4	2,069.39	1/4	1,710.05	1/4	1,350.70	1/4	991.57	1/4	632.40	1/4	273.07	1/4		1/4	1/4		1/4		1/4
1/2	2,061.91	1/2	1,702.56	1/2	1,343.21	1/2	984.09	1/2	624.91	1/2	265.58	1/2		1/2	1/2		1/2		1/2
3/4	2,054.42	3/4	1,695.07	3/4	1,335.73	3/4	976.62	3/4	617.43	3/4	258.10	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2013 SW  
CALCULATED: 02/19/2013 CL  
PRINTED: 02/19/2013 CL

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

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013



# BARGE "KIRBY 29104"

## 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,362.28	0	4,121.76	0	3,875.61	0	3,617.45	0	3,347.54	0	2,996.88	0	2,640.43
1/4		1/4		1/4		1/4	4,357.64	1/4	4,116.76	1/4	3,870.34	1/4	3,611.94	1/4	3,341.84	1/4	2,989.45	1/4	2,633.00
1/2		1/2		1/2		1/2	4,353.01	1/2	4,111.75	1/2	3,865.08	1/2	3,606.43	1/2	3,336.13	1/2	2,982.03	1/2	2,625.58
3/4		3/4		3/4		3/4	4,348.38	3/4	4,106.74	3/4	3,859.82	3/4	3,600.92	3/4	3,330.43	3/4	2,974.60	3/4	2,618.15
1		1		1		1	4,344.22	1	4,101.71	1	3,854.54	1	3,595.39	1	3,323.00	1	2,967.17	1	2,610.73
1/4		1/4		1/4		1/4	4,340.07	1/4	4,096.68	1/4	3,849.26	1/4	3,589.86	1/4	3,315.57	1/4	2,959.75	1/4	2,603.30
1/2		1/2		1/2		1/2	4,335.92	1/2	4,091.66	1/2	3,843.98	1/2	3,584.32	1/2	3,308.14	1/2	2,952.32	1/2	2,595.87
3/4		3/4		3/4		3/4	4,331.77	3/4	4,086.63	3/4	3,838.70	3/4	3,578.79	3/4	3,300.71	3/4	2,944.90	3/4	2,588.45
2		2		2		2	4,326.41	2	4,081.58	2	3,833.40	2	3,573.24	2	3,293.28	2	2,937.47	2	2,581.02
1/4		1/4		1/4		1/4	4,321.06	1/4	4,076.53	1/4	3,828.11	1/4	3,567.69	1/4	3,285.85	1/4	2,930.04	1/4	2,573.60
1/2		1/2		1/2		1/2	4,315.70	1/2	4,071.48	1/2	3,822.81	1/2	3,562.14	1/2	3,278.42	1/2	2,922.62	1/2	2,566.17
3/4		3/4		3/4		3/4	4,310.34	3/4	4,066.43	3/4	3,817.51	3/4	3,556.59	3/4	3,271.00	3/4	2,915.19	3/4	2,558.74
3		3		3		3	4,304.64	3	4,061.36	3	3,812.19	3	3,551.02	3	3,263.57	3	2,907.77	3	2,551.32
1/4		1/4		1/4		1/4	4,298.93	1/4	4,056.29	1/4	3,806.87	1/4	3,545.45	1/4	3,256.14	1/4	2,900.34	1/4	2,543.89
1/2		1/2		1/2		1/2	4,293.23	1/2	4,051.22	1/2	3,801.55	1/2	3,539.89	1/2	3,248.71	1/2	2,892.91	1/2	2,536.47
3/4		3/4		3/4		3/4	4,287.53	3/4	4,046.15	3/4	3,796.22	3/4	3,534.32	3/4	3,241.28	3/4	2,885.49	3/4	2,529.04
4		4		4		4	4,281.82	4	4,041.06	4	3,790.88	4	3,528.73	4	3,233.85	4	2,878.06	4	2,521.61
1/4		1/4		1/4		1/4	4,276.12	1/4	4,035.97	1/4	3,785.54	1/4	3,523.13	1/4	3,226.42	1/4	2,870.64	1/4	2,514.19
1/2		1/2		1/2		1/2	4,270.41	1/2	4,030.88	1/2	3,780.20	1/2	3,517.54	1/2	3,218.99	1/2	2,863.21	1/2	2,506.76
3/4		3/4		3/4		3/4	4,264.71	3/4	4,025.78	3/4	3,774.86	3/4	3,511.95	3/4	3,211.56	3/4	2,855.78	3/4	2,499.34
5		5		5		5	4,259.84	5	4,020.67	5	3,769.50	5	3,506.34	5	3,204.16	5	2,848.36	5	2,491.91
1/4		1/4		1/4		1/4	4,254.98	1/4	4,015.56	1/4	3,764.14	1/4	3,500.73	1/4	3,196.76	1/4	2,840.93	1/4	2,484.48
1/2		1/2		1/2		1/2	4,250.12	1/2	4,010.45	1/2	3,758.77	1/2	3,495.12	1/2	3,189.36	1/2	2,833.51	1/2	2,477.06
3/4		3/4		3/4		3/4	4,245.25	3/4	4,005.34	3/4	3,753.41	3/4	3,489.51	3/4	3,181.95	3/4	2,826.08	3/4	2,469.63
6		6		6		6	4,240.37	6	4,000.20	6	3,748.03	6	3,483.87	6	3,174.55	6	2,818.65	6	2,462.21
1/4		1/4		1/4		1/4	4,235.49	1/4	3,995.07	1/4	3,742.65	1/4	3,478.24	1/4	3,167.15	1/4	2,811.23	1/4	2,454.78
1/2		1/2		1/2		1/2	4,230.61	1/2	3,989.94	1/2	3,737.27	1/2	3,472.61	1/2	3,159.75	1/2	2,803.80	1/2	2,447.35
3/4		3/4		3/4		3/4	4,225.72	3/4	3,984.80	3/4	3,731.88	3/4	3,466.97	3/4	3,152.35	3/4	2,796.38	3/4	2,439.93
7		7		7		7	4,220.82	7	3,979.65	7	3,726.48	7	3,461.32	7	3,144.94	7	2,788.95	7	2,432.50
1/4		1/4		1/4		1/4	4,215.91	1/4	3,974.50	1/4	3,721.07	1/4	3,455.67	1/4	3,137.54	1/4	2,781.52	1/4	2,425.08
1/2		1/2		1/2		1/2	4,211.00	1/2	3,969.34	1/2	3,715.67	1/2	3,450.01	1/2	3,130.14	1/2	2,774.10	1/2	2,417.65
3/4		3/4		3/4		3/4	4,206.10	3/4	3,964.19	3/4	3,710.26	3/4	3,444.36	3/4	3,122.74	3/4	2,766.67	3/4	2,410.22
8		8		8		8	4,201.17	8	3,959.01	8	3,704.84	8	3,438.69	8	3,115.34	8	2,759.25	8	2,402.80
1/4		1/4		1/4		1/4	4,196.25	1/4	3,953.83	1/4	3,699.42	1/4	3,433.01	1/4	3,107.93	1/4	2,751.82	1/4	2,395.37
1/2		1/2		1/2		1/2	4,191.33	1/2	3,948.66	1/2	3,693.99	1/2	3,427.33	1/2	3,100.53	1/2	2,744.39	1/2	2,387.95
3/4		3/4		3/4		3/4	4,186.40	3/4	3,943.48	3/4	3,688.57	3/4	3,421.66	3/4	3,093.13	3/4	2,736.97	3/4	2,380.52
9		9		9		9	4,181.45	9	3,938.28	9	3,683.12	9	3,415.96	9	3,085.73	9	2,729.54	9	2,373.09
1/4		1/4		1/4		1/4	4,176.50	1/4	3,933.09	1/4	3,677.67	1/4	3,410.27	1/4	3,078.33	1/4	2,722.12	1/4	2,365.67
1/2		1/2		1/2		1/2	4,171.55	1/2	3,927.89	1/2	3,672.23	1/2	3,404.57	1/2	3,070.92	1/2	2,714.69	1/2	2,358.24
3/4		3/4		3/4		3/4	4,166.60	3/4	3,922.70	3/4	3,666.78	3/4	3,398.88	3/4	3,063.52	3/4	2,707.26	3/4	2,350.81
10		10		10		10	4,161.64	10	3,917.48	10	3,661.31	10	3,393.17	10	3,056.12	10	2,699.84	10	2,343.39
1/4		1/4		1/4		1/4	4,156.67	1/4	3,912.26	1/4	3,655.85	1/4	3,387.47	1/4	3,048.72	1/4	2,692.41	1/4	2,335.96
1/2		1/2		1/2		1/2	4,151.71	1/2	3,907.04	1/2	3,650.38	1/2	3,381.77	1/2	3,041.31	1/2	2,684.99	1/2	2,328.53
3/4		3/4		3/4		3/4	4,146.74	3/4	3,901.82	3/4	3,644.92	3/4	3,376.06	3/4	3,033.91	3/4	2,677.56	3/4	2,321.11
11		11		11		11	4,141.75	11	3,896.58	11	3,639.43	11	3,370.36	11	3,026.51	11	2,670.13	11	2,313.68
1/4		1/4		1/4		1/4	4,136.76	1/4	3,891.34	1/4	3,633.94	1/4	3,364.65	1/4	3,019.11	1/4	2,662.71	1/4	2,306.26
1/2		1/2		1/2		1/2	4,131.76	1/2	3,886.11	1/2	3,628.45	1/2	3,358.95	1/2	3,011.71	1/2	2,655.28	1/2	2,298.83
3/4		3/4		3/4		3/4	4,366.91	3/4	4,126.77	3/4	3,880.87	3/4	3,622.96	3/4	3,353.25	3/4	3,004.30	3/4	2,291.40

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'-06" 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 29104"

## 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,276.55	1/4	1,919.65	1/4	1,563.71	1/4	1,207.15	1/4	862.89	1/4	505.89	1/4	148.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,269.12	1/2	1,912.21	1/2	1,556.30	1/2	1,199.98	1/2	855.47	1/2	498.45	1/2	141.24	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,261.70	3/4	1,904.77	3/4	1,548.88	3/4	1,192.81	3/4	848.05	3/4	491.01	3/4	133.80	3/4	3/4	3/4	3/4	3/4	3/4
1	2,254.27	1	1,897.36	1	1,541.44	1	1,185.63	1	840.63	1	483.57	1	126.36	1	1	1	1	1	1
1/4	2,246.84	1/4	1,889.94	1/4	1,534.00	1/4	1,178.46	1/4	833.21	1/4	476.13	1/4	118.92	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,239.42	1/2	1,882.53	1/2	1,526.56	1/2	1,171.29	1/2	825.79	1/2	468.68	1/2	111.48	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,231.99	3/4	1,875.11	3/4	1,519.12	3/4	1,164.12	3/4	818.37	3/4	461.24	3/4	104.03	3/4	3/4	3/4	3/4	3/4	3/4
2	2,224.56	2	1,867.70	2	1,511.68	2	1,156.94	2	810.95	2	453.80	2	96.91	2	2	2	2	2	2
1/4	2,217.14	1/4	1,860.28	1/4	1,504.24	1/4	1,149.77	1/4	803.53	1/4	446.36	1/4	89.78	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,209.71	1/2	1,852.87	1/2	1,496.80	1/2	1,142.60	1/2	796.11	1/2	438.92	1/2	82.65	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,202.28	3/4	1,845.46	3/4	1,489.36	3/4	1,135.43	3/4	788.69	3/4	431.48	3/4	75.53	3/4	3/4	3/4	3/4	3/4	3/4
3	2,194.86	3	1,838.04	3	1,481.92	3	1,128.25	3	781.24	3	424.03	3	69.34	3	3	3	3	3	3
1/4	2,187.43	1/4	1,830.63	1/4	1,474.48	1/4	1,121.08	1/4	773.80	1/4	416.59	1/4	63.16	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,180.00	1/2	1,823.21	1/2	1,467.04	1/2	1,113.91	1/2	766.36	1/2	409.15	1/2	56.97	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,172.58	3/4	1,815.80	3/4	1,459.60	3/4	1,106.74	3/4	758.92	3/4	401.71	3/4	50.78	3/4	3/4	3/4	3/4	3/4	3/4
4	2,165.15	4	1,808.38	4	1,452.16	4	1,099.56	4	751.48	4	394.27	4	45.85	4	4	4	4	4	4
1/4	2,157.73	1/4	1,800.97	1/4	1,444.72	1/4	1,092.39	1/4	744.04	1/4	386.82	1/4	40.93	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,150.30	1/2	1,793.56	1/2	1,437.27	1/2	1,085.22	1/2	736.59	1/2	379.38	1/2	36.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,142.87	3/4	1,786.14	3/4	1,429.83	3/4	1,078.05	3/4	729.15	3/4	371.94	3/4	31.07	3/4	3/4	3/4	3/4	3/4	3/4
5	2,135.43	5	1,778.73	5	1,422.39	5	1,070.89	5	721.71	5	364.50	5	27.40	5	5	5	5	5	5
1/4	2,127.99	1/4	1,771.31	1/4	1,414.95	1/4	1,063.73	1/4	714.27	1/4	357.06	1/4	23.73	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,120.55	1/2	1,763.90	1/2	1,407.51	1/2	1,056.57	1/2	706.83	1/2	349.61	1/2	20.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,113.11	3/4	1,756.48	3/4	1,400.07	3/4	1,049.41	3/4	699.38	3/4	342.17	3/4	16.40	3/4	3/4	3/4	3/4	3/4	3/4
6	2,105.67	6	1,749.07	6	1,392.63	6	1,042.25	6	691.94	6	334.73	6	12.40	6	6	6	6	6	6
1/4	2,098.23	1/4	1,741.66	1/4	1,385.19	1/4	1,035.09	1/4	684.50	1/4	327.29	1/4	8.90	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,090.79	1/2	1,734.24	1/2	1,377.75	1/2	1,027.93	1/2	677.06	1/2	319.85	1/2	6.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,083.35	3/4	1,726.83	3/4	1,370.31	3/4	1,020.78	3/4	669.62	3/4	312.41	3/4	3.60	3/4	3/4	3/4	3/4	3/4	3/4
7	2,075.91	7	1,719.41	7	1,362.87	7	1,013.62	7	662.17	7	304.96	7	1.60	7	7	7	7	7	7
1/4	2,068.47	1/4	1,712.00	1/4	1,355.43	1/4	1,006.47	1/4	654.73	1/4	297.52	1/4	0.20	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,061.02	1/2	1,704.58	1/2	1,347.99	1/2	999.31	1/2	647.29	1/2	290.08	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,053.58	3/4	1,697.17	3/4	1,340.55	3/4	992.16	3/4	639.85	3/4	282.64	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
8	2,046.14	8	1,689.76	8	1,333.11	8	985.01	8	632.41	8	275.20	8	0.00	8	8	8	8	8	8
1/4	2,038.70	1/4	1,682.34	1/4	1,325.67	1/4	977.85	1/4	624.96	1/4	267.75	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,031.26	1/2	1,674.93	1/2	1,318.22	1/2	970.70	1/2	617.52	1/2	260.31	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,023.82	3/4	1,667.51	3/4	1,310.78	3/4	963.55	3/4	610.08	3/4	252.87	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	2,016.38	9	1,660.10	9	1,303.34	9	956.40	9	602.64	9	245.43	9	0.00	9	9	9	9	9	9
1/4	2,008.94	1/4	1,652.68	1/4	1,295.90	1/4	949.25	1/4	595.20	1/4	237.99	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,001.50	1/2	1,645.27	1/2	1,288.46	1/2	942.10	1/2	587.76	1/2	230.54	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,994.06	3/4	1,637.86	3/4	1,281.02	3/4	934.95	3/4	580.31	3/4	223.10	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	1,986.62	10	1,630.44	10	1,273.58	10	927.80	10	572.87	10	215.66	10	0.00	10	10	10	10	10	10
1/4	1,979.18	1/4	1,623.03	1/4	1,266.14	1/4	920.64	1/4	565.43	1/4	208.22	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,971.74	1/2	1,615.61	1/2	1,258.70	1/2	913.49	1/2	557.99	1/2	200.78	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,964.30	3/4	1,608.20	3/4	1,251.26	3/4	906.34	3/4	550.55	3/4	193.33	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	1,956.85	11	1,600.78	11	1,243.82	11	899.19	11	543.10	11	185.89	11	0.00	11	11	11	11	11	11
1/4	1,949.41	1/4	1,593.37	1/4	1,236.38	1/4	892.04	1/4	535.66	1/4	178.45	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.97	1/2	1,585.95	1/2	1,228.94	1/2	884.89	1/2	528.22	1/2	171.01	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,934.53	3/4	1,578.54	3/4	1,221.50	3/4	877.74	3/4	520.78	3/4	163.57	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2013 SW  
CALCULATED: 02/19/2013 CL  
PRINTED: 02/19/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "KIRBY 29104"

**3 STBD**  
**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.	
0	2,302.09	0	1,944.40	0	1,586.71	0	1,229.02	0	871.58	0	514.02	0	156.34	0		0		0	
1/4	2,294.64	1/4	1,936.95	1/4	1,579.26	1/4	1,221.56	1/4	864.14	1/4	506.57	1/4	148.89	1/4	1/4	1/4		1/4	
1/2	2,287.19	1/2	1,929.49	1/2	1,571.80	1/2	1,214.11	1/2	856.70	1/2	499.12	1/2	141.44	1/2	1/2	1/2		1/2	
3/4	2,279.73	3/4	1,922.04	3/4	1,564.35	3/4	1,206.66	3/4	849.26	3/4	491.67	3/4	133.99	3/4	3/4	3/4		3/4	
1	2,272.28	1	1,914.59	1	1,556.90	1	1,199.21	1	841.82	1	484.22	1	126.54	1	1	1		1	
1/4	2,264.83	1/4	1,907.14	1/4	1,549.45	1/4	1,191.76	1/4	834.38	1/4	476.77	1/4	119.09	1/4	1/4	1/4		1/4	
1/2	2,257.38	1/2	1,899.69	1/2	1,542.00	1/2	1,184.30	1/2	826.94	1/2	469.31	1/2	111.63	1/2	1/2	1/2		1/2	
3/4	2,249.93	3/4	1,892.24	3/4	1,534.54	3/4	1,176.85	3/4	819.50	3/4	461.86	3/4	104.18	3/4	3/4	3/4		3/4	
2	2,242.47	2	1,884.78	2	1,527.09	2	1,169.40	2	812.06	2	454.41	2	97.05	2	2	2		2	
1/4	2,235.02	1/4	1,877.33	1/4	1,519.64	1/4	1,161.95	1/4	804.62	1/4	446.96	1/4	89.91	1/4	1/4	1/4		1/4	
1/2	2,227.57	1/2	1,869.88	1/2	1,512.19	1/2	1,154.50	1/2	797.18	1/2	439.51	1/2	82.77	1/2	1/2	1/2		1/2	
3/4	2,220.12	3/4	1,862.43	3/4	1,504.74	3/4	1,147.04	3/4	789.74	3/4	432.06	3/4	75.64	3/4	3/4	3/4		3/4	
3	2,212.67	3	1,854.98	3	1,497.28	3	1,139.59	3	782.29	3	424.60	3	69.44	3	3	3		3	
1/4	2,205.21	1/4	1,847.52	1/4	1,489.83	1/4	1,132.14	1/4	774.83	1/4	417.15	1/4	63.24	1/4	1/4	1/4		1/4	
1/2	2,197.76	1/2	1,840.07	1/2	1,482.38	1/2	1,124.69	1/2	767.38	1/2	409.70	1/2	57.05	1/2	1/2	1/2		1/2	
3/4	2,190.31	3/4	1,832.62	3/4	1,474.93	3/4	1,117.24	3/4	759.93	3/4	402.25	3/4	50.85	3/4	3/4	3/4		3/4	
4	2,182.86	4	1,825.17	4	1,467.48	4	1,109.79	4	752.48	4	394.80	4	45.91	4	4	4		4	
1/4	2,175.41	1/4	1,817.72	1/4	1,460.02	1/4	1,102.33	1/4	745.03	1/4	387.35	1/4	40.97	1/4	1/4	1/4		1/4	
1/2	2,167.96	1/2	1,810.26	1/2	1,452.57	1/2	1,094.88	1/2	737.58	1/2	379.89	1/2	36.03	1/2	1/2	1/2		1/2	
3/4	2,160.50	3/4	1,802.81	3/4	1,445.12	3/4	1,087.43	3/4	730.12	3/4	372.44	3/4	31.09	3/4	3/4	3/4		3/4	
5	2,153.05	5	1,795.36	5	1,437.67	5	1,079.98	5	722.67	5	364.99	5	27.42	5	5	5		5	
1/4	2,145.60	1/4	1,787.91	1/4	1,430.22	1/4	1,072.53	1/4	715.22	1/4	357.54	1/4	23.74	1/4	1/4	1/4		1/4	
1/2	2,138.15	1/2	1,780.46	1/2	1,422.77	1/2	1,065.07	1/2	707.77	1/2	350.09	1/2	20.07	1/2	1/2	1/2		1/2	
3/4	2,130.70	3/4	1,773.00	3/4	1,415.31	3/4	1,057.62	3/4	700.32	3/4	342.64	3/4	16.40	3/4	3/4	3/4		3/4	
6	2,123.24	6	1,765.55	6	1,407.86	6	1,050.17	6	692.87	6	335.18	6		6	6	6		6	
1/4	2,115.79	1/4	1,758.10	1/4	1,400.41	1/4	1,042.72	1/4	685.41	1/4	327.73	1/4		1/4	1/4	1/4		1/4	
1/2	2,108.34	1/2	1,750.65	1/2	1,392.96	1/2	1,035.27	1/2	677.96	1/2	320.28	1/2		1/2	1/2	1/2		1/2	
3/4	2,100.89	3/4	1,743.20	3/4	1,385.51	3/4	1,027.81	3/4	670.51	3/4	312.83	3/4		3/4	3/4	3/4		3/4	
7	2,093.44	7	1,735.75	7	1,378.05	7	1,020.37	7	663.06	7	305.38	7		7	7	7		7	
1/4	2,085.98	1/4	1,728.29	1/4	1,370.60	1/4	1,012.93	1/4	655.61	1/4	297.93	1/4		1/4	1/4	1/4		1/4	
1/2	2,078.53	1/2	1,720.84	1/2	1,363.15	1/2	1,005.49	1/2	648.16	1/2	290.47	1/2		1/2	1/2	1/2		1/2	
3/4	2,071.08	3/4	1,713.39	3/4	1,355.70	3/4	998.05	3/4	640.70	3/4	283.02	3/4		3/4	3/4	3/4		3/4	
8	2,063.63	8	1,705.94	8	1,348.25	8	990.62	8	633.25	8	275.57	8		8	8	8		8	
1/4	2,056.18	1/4	1,698.49	1/4	1,340.79	1/4	983.18	1/4	625.80	1/4	268.12	1/4		1/4	1/4	1/4		1/4	
1/2	2,048.72	1/2	1,691.03	1/2	1,333.34	1/2	975.74	1/2	618.35	1/2	260.67	1/2		1/2	1/2	1/2		1/2	
3/4	2,041.27	3/4	1,683.58	3/4	1,325.89	3/4	968.30	3/4	610.90	3/4	253.22	3/4		3/4	3/4	3/4		3/4	
9	2,033.82	9	1,676.13	9	1,318.44	9	960.86	9	603.45	9	245.76	9		9	9	9		9	
1/4	2,026.37	1/4	1,668.68	1/4	1,310.99	1/4	953.42	1/4	595.99	1/4	238.31	1/4		1/4	1/4	1/4		1/4	
1/2	2,018.92	1/2	1,661.23	1/2	1,303.53	1/2	945.98	1/2	588.54	1/2	230.86	1/2		1/2	1/2	1/2		1/2	
3/4	2,011.47	3/4	1,653.77	3/4	1,296.08	3/4	938.54	3/4	581.09	3/4	223.41	3/4		3/4	3/4	3/4		3/4	
10	2,004.01	10	1,646.32	10	1,288.63	10	931.10	10	573.64	10	215.96	10		10	10	10		10	
1/4	1,996.56	1/4	1,638.87	1/4	1,281.18	1/4	923.66	1/4	566.19	1/4	208.51	1/4		1/4	1/4	1/4		1/4	
1/2	1,989.11	1/2	1,631.42	1/2	1,273.73	1/2	916.22	1/2	558.74	1/2	201.05	1/2		1/2	1/2	1/2		1/2	
3/4	1,981.66	3/4	1,623.97	3/4	1,266.28	3/4	908.78	3/4	551.28	3/4	193.60	3/4		3/4	3/4	3/4		3/4	
11	1,974.21	11	1,616.51	11	1,258.82	11	901.34	11	543.83	11	186.15	11		11	11	11		11	
1/4	1,966.75	1/4	1,609.06	1/4	1,251.37	1/4	893.90	1/4	536.38	1/4	178.70	1/4		1/4	1/4	1/4		1/4	
1/2	1,959.30	1/2	1,601.61	1/2	1,243.92	1/2	886.46	1/2	528.93	1/2	171.25	1/2		1/2	1/2	1/2		1/2	
3/4	1,951.85	3/4	1,594.16	3/4	1,236.47	3/4	879.02	3/4	521.48	3/4	163.79	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2013 SW  
CALCULATED: 02/19/2013 CL  
PRINTED: 02/19/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
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