



# BARGE "KIRBY 29053"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-5/8	00-5/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-06"

February 14, 2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29053"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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
							4,203.52		3,914.68		3,611.49		3,294.41		2,965.17		2,633.87		2,302.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,197.61	1/4	3,908.53	1/4	3,605.02	1/4	3,287.66	1/4	2,958.26	1/4	2,626.97	1/4	2,295.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,191.70	1/2	3,902.37	1/2	3,598.54	1/2	3,280.91	1/2	2,951.36	1/2	2,620.07	1/2	2,288.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,185.79	3/4	3,896.22	3/4	3,592.07	3/4	3,274.16	3/4	2,944.46	3/4	2,613.17	3/4	2,281.85		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,179.86</b>	<b>1</b>	<b>3,890.04</b>	<b>1</b>	<b>3,585.58</b>	<b>1</b>	<b>3,267.38</b>	<b>1</b>	<b>2,937.56</b>	<b>1</b>	<b>2,606.27</b>	<b>1</b>	<b>2,274.94</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,173.93	1/4	3,883.86	1/4	3,579.08	1/4	3,260.59	1/4	2,930.66	1/4	2,599.36	1/4	2,268.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,168.00	1/2	3,877.68	1/2	3,572.59	1/2	3,253.81	1/2	2,923.75	1/2	2,592.46	1/2	2,261.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,162.07	3/4	3,871.50	3/4	3,566.10	3/4	3,247.03	3/4	2,916.85	3/4	2,585.56	3/4	2,254.23		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,156.11</b>	<b>2</b>	<b>3,865.30</b>	<b>2</b>	<b>3,559.58</b>	<b>2</b>	<b>3,240.23</b>	<b>2</b>	<b>2,909.95</b>	<b>2</b>	<b>2,578.66</b>	<b>2</b>	<b>2,247.33</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,150.15	1/4	3,859.09	1/4	3,553.07	1/4	3,233.43	1/4	2,903.05	1/4	2,571.76	1/4	2,240.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,144.19	1/2	3,852.89	1/2	3,546.55	1/2	3,226.63	1/2	2,896.15	1/2	2,564.86	1/2	2,233.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,138.24	3/4	3,846.69	3/4	3,540.04	3/4	3,219.83	3/4	2,889.24	3/4	2,557.95	3/4	2,226.62		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,132.29</b>	<b>3</b>	<b>3,840.43</b>	<b>3</b>	<b>3,533.49</b>	<b>3</b>	<b>3,213.01</b>	<b>3</b>	<b>2,882.34</b>	<b>3</b>	<b>2,551.05</b>	<b>3</b>	<b>2,219.72</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,126.35	1/4	3,834.18	1/4	3,526.95	1/4	3,206.19	1/4	2,875.44	1/4	2,544.15	1/4	2,212.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,120.40	1/2	3,827.92	1/2	3,520.41	1/2	3,199.37	1/2	2,868.54	1/2	2,537.25	1/2	2,205.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,114.46	3/4	3,821.66	3/4	3,513.87	3/4	3,192.55	3/4	2,861.64	3/4	2,530.35	3/4	2,199.01		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,108.49</b>	<b>4</b>	<b>3,815.38</b>	<b>4</b>	<b>3,507.31</b>	<b>4</b>	<b>3,185.70</b>	<b>4</b>	<b>2,854.74</b>	<b>4</b>	<b>2,523.44</b>	<b>4</b>	<b>2,192.10</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,102.52	1/4	3,809.09	1/4	3,500.74	1/4	3,178.85	1/4	2,847.83	1/4	2,516.54	1/4	2,185.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,096.56	1/2	3,802.81	1/2	3,494.18	1/2	3,172.00	1/2	2,840.93	1/2	2,509.64	1/2	2,178.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,090.59	3/4	3,796.53	3/4	3,487.62	3/4	3,165.15	3/4	2,834.03	3/4	2,502.74	3/4	2,171.39		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,084.60</b>	<b>5</b>	<b>3,790.22</b>	<b>5</b>	<b>3,481.02</b>	<b>5</b>	<b>3,158.28</b>	<b>5</b>	<b>2,827.13</b>	<b>5</b>	<b>2,495.84</b>	<b>5</b>	<b>2,164.49</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,078.60	1/4	3,783.92	1/4	3,474.43	1/4	3,151.41	1/4	2,820.23	1/4	2,488.93	1/4	2,157.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,072.61	1/2	3,777.61	1/2	3,467.84	1/2	3,144.54	1/2	2,813.32	1/2	2,482.03	1/2	2,150.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,066.62	3/4	3,771.30	3/4	3,461.25	3/4	3,137.67	3/4	2,806.42	3/4	2,475.13	3/4	2,143.78		
<b>6</b>	<b>6</b>	<b>6</b>	<b>4,358.97</b>	<b>6</b>	<b>4,060.60</b>	<b>6</b>	<b>3,764.97</b>	<b>6</b>	<b>3,454.63</b>	<b>6</b>	<b>3,130.78</b>	<b>6</b>	<b>2,799.52</b>	<b>6</b>	<b>2,468.23</b>	<b>6</b>	<b>2,136.88</b>				
1/4	1/4	1/4	4,353.79	1/4	4,054.59	1/4	3,758.64	1/4	3,448.02	1/4	3,123.89	1/4	2,792.62	1/4	2,461.33	1/4	2,129.98				
1/2	1/2	1/2	4,348.61	1/2	4,048.57	1/2	3,752.30	1/2	3,441.41	1/2	3,117.00	1/2	2,785.72	1/2	2,454.42	1/2	2,123.07				
3/4	3/4	3/4	4,343.43	3/4	4,042.56	3/4	3,745.97	3/4	3,434.80	3/4	3,110.11	3/4	2,778.81	3/4	2,447.52	3/4	2,116.17				
<b>7</b>	<b>7</b>	<b>7</b>	<b>4,336.53</b>	<b>7</b>	<b>4,036.52</b>	<b>7</b>	<b>3,739.61</b>	<b>7</b>	<b>3,428.17</b>	<b>7</b>	<b>3,103.20</b>	<b>7</b>	<b>2,771.91</b>	<b>7</b>	<b>2,440.62</b>	<b>7</b>	<b>2,109.27</b>				
1/4	1/4	1/4	4,329.62	1/4	4,030.47	1/4	3,733.26	1/4	3,421.53	1/4	3,096.30	1/4	2,765.01	1/4	2,433.72	1/4	2,102.36				
1/2	1/2	1/2	4,322.72	1/2	4,024.43	1/2	3,726.90	1/2	3,414.90	1/2	3,089.40	1/2	2,758.11	1/2	2,426.81	1/2	2,095.46				
3/4	3/4	3/4	4,315.82	3/4	4,018.39	3/4	3,720.55	3/4	3,408.27	3/4	3,082.50	3/4	2,751.21	3/4	2,419.91	3/4	2,088.56				
<b>8</b>	<b>8</b>	<b>8</b>	<b>4,308.92</b>	<b>8</b>	<b>4,012.33</b>	<b>8</b>	<b>3,714.18</b>	<b>8</b>	<b>3,401.61</b>	<b>8</b>	<b>3,075.60</b>	<b>8</b>	<b>2,744.30</b>	<b>8</b>	<b>2,413.01</b>	<b>8</b>	<b>2,081.65</b>				
1/4	1/4	1/4	4,302.01	1/4	4,006.26	1/4	3,707.80	1/4	3,394.94	1/4	3,068.69	1/4	2,737.40	1/4	2,406.10	1/4	2,074.75				
1/2	1/2	1/2	4,295.11	1/2	4,000.20	1/2	3,701.43	1/2	3,388.28	1/2	3,061.79	1/2	2,730.50	1/2	2,399.20	1/2	2,067.85				
3/4	3/4	3/4	4,288.21	3/4	3,994.14	3/4	3,695.05	3/4	3,381.62	3/4	3,054.89	3/4	2,723.60	3/4	2,392.30	3/4	2,060.94				
<b>9</b>	<b>9</b>	<b>9</b>	<b>4,281.30</b>	<b>9</b>	<b>3,988.06</b>	<b>9</b>	<b>3,688.65</b>	<b>9</b>	<b>3,374.94</b>	<b>9</b>	<b>3,047.99</b>	<b>9</b>	<b>2,716.70</b>	<b>9</b>	<b>2,385.39</b>	<b>9</b>	<b>2,054.04</b>				
1/4	1/4	1/4	4,274.40	1/4	3,981.97	1/4	3,682.24	1/4	3,368.26	1/4	3,041.09	1/4	2,709.80	1/4	2,378.49	1/4	2,047.14				
1/2	1/2	1/2	4,267.50	1/2	3,975.89	1/2	3,675.84	1/2	3,361.58	1/2	3,034.18	1/2	2,702.89	1/2	2,371.59	1/2	2,040.23				
3/4	3/4	3/4	4,260.59	3/4	3,969.81	3/4	3,669.44	3/4	3,354.90	3/4	3,027.28	3/4	2,695.99	3/4	2,364.68	3/4	2,033.33				
<b>10</b>	<b>10</b>	<b>10</b>	<b>4,253.69</b>	<b>10</b>	<b>3,963.69</b>	<b>10</b>	<b>3,663.01</b>	<b>10</b>	<b>3,348.19</b>	<b>10</b>	<b>3,020.38</b>	<b>10</b>	<b>2,689.09</b>	<b>10</b>	<b>2,357.78</b>	<b>10</b>	<b>2,026.43</b>				
1/4	1/4	1/4	4,246.79	1/4	3,957.58	1/4	3,656.59	1/4	3,341.49	1/4	3,013.48	1/4	2,682.19	1/4	2,350.88	1/4	2,019.52				
1/2	1/2	1/2	4,239.88	1/2	3,951.47	1/2	3,650.16	1/2	3,334.79	1/2	3,006.58	1/2	2,675.29	1/2	2,343.97	1/2	2,012.62				
3/4	3/4	3/4	4,232.98	3/4	3,945.36	3/4	3,643.74	3/4	3,328.08	3/4	2,999.67	3/4	2,668.38	3/4	2,337.07	3/4	2,005.72				
<b>11</b>	<b>11</b>	<b>11</b>	<b>4,227.09</b>	<b>11</b>	<b>3,939.23</b>	<b>11</b>	<b>3,637.30</b>	<b>11</b>	<b>3,321.35</b>	<b>11</b>	<b>2,992.77</b>	<b>11</b>	<b>2,661.48</b>	<b>11</b>	<b>2,330.17</b>	<b>11</b>	<b>1,998.81</b>				
1/4	1/4	1/4	4,221.20	1/4	3,933.10	1/4	3,630.85	1/4	3,314.62	1/4	2,985.87	1/4	2,654.58	1/4	2,323.27	1/4	1,991.91				
1/2	1/2	1/2	4,215.31	1/2	3,926.96	1/2	3,624.41	1/2	3,307.89	1/2	2,978.97	1/2	2,647.68	1/2	2,316.36	1/2	1,985.01				
3/4	3/4	3/4	4,209.43	3/4	3,920.83	3/4	3,617.96	3/4	3,301.16	3/4	2,972.07	3/4	2,640.78	3/4	2,309.46	3/4	1,978.11				

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 37'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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# BARGE "KIRBY 29053"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,971.20	0	1,639.85	0	1,308.49	0	977.56	0	661.87	0	369.27	0	100.25	0		0		0	
1/4	1,964.30	1/4	1,632.95	1/4	1,301.59	1/4	970.74	1/4	655.54	1/4	363.43	1/4	94.91	1/4	1/4	1/4		1/4	
1/2	1,957.40	1/2	1,626.04	1/2	1,294.69	1/2	963.91	1/2	649.21	1/2	357.59	1/2	89.56	1/2	1/2	1/2		1/2	
3/4	1,950.49	3/4	1,619.14	3/4	1,287.79	3/4	957.09	3/4	642.88	3/4	351.75	3/4	84.21	3/4	3/4	3/4		3/4	
1	1,943.59	1	1,612.24	1	1,280.88	1	950.33	1	636.59	1	345.95	1	78.91	1	1	1		1	
1/4	1,936.69	1/4	1,605.33	1/4	1,273.98	1/4	943.56	1/4	630.30	1/4	340.15	1/4	73.60	1/4	1/4	1/4		1/4	
1/2	1,929.78	1/2	1,598.43	1/2	1,267.08	1/2	936.80	1/2	624.01	1/2	334.35	1/2	68.30	1/2	1/2	1/2		1/2	
3/4	1,922.88	3/4	1,591.53	3/4	1,260.17	3/4	930.03	3/4	617.72	3/4	328.55	3/4	63.00	3/4	3/4	3/4		3/4	
2	1,915.98	2	1,584.62	2	1,253.27	2	923.30	2	611.47	2	322.80	2	57.73	2	2	2		2	
1/4	1,909.07	1/4	1,577.72	1/4	1,246.37	1/4	916.58	1/4	605.22	1/4	317.04	1/4	52.47	1/4	1/4	1/4		1/4	
1/2	1,902.17	1/2	1,570.82	1/2	1,239.46	1/2	909.85	1/2	598.97	1/2	311.28	1/2	47.20	1/2	1/2	1/2		1/2	
3/4	1,895.27	3/4	1,563.91	3/4	1,232.56	3/4	903.13	3/4	592.72	3/4	305.52	3/4	41.93	3/4	3/4	3/4		3/4	
3	1,888.36	3	1,557.01	3	1,225.66	3	896.44	3	586.51	3	299.80	3	37.58	3	3	3		3	
1/4	1,881.46	1/4	1,550.11	1/4	1,218.75	1/4	889.76	1/4	580.30	1/4	294.09	1/4	33.22	1/4	1/4	1/4		1/4	
1/2	1,874.56	1/2	1,543.20	1/2	1,211.85	1/2	883.08	1/2	574.09	1/2	288.37	1/2	28.86	1/2	1/2	1/2		1/2	
3/4	1,867.65	3/4	1,536.30	3/4	1,204.95	3/4	876.39	3/4	567.88	3/4	282.65	3/4	24.50	3/4	3/4	3/4		3/4	
4	1,860.75	4	1,529.40	4	1,198.04	4	869.75	4	561.72	4	276.98	4	21.91	4	4	4		4	
1/4	1,853.85	1/4	1,522.49	1/4	1,191.14	1/4	863.11	1/4	555.55	1/4	271.30	1/4	19.32	1/4	1/4	1/4		1/4	
1/2	1,846.94	1/2	1,515.59	1/2	1,184.24	1/2	856.46	1/2	549.38	1/2	265.62	1/2	16.72	1/2	1/2	1/2		1/2	
3/4	1,840.04	3/4	1,508.69	3/4	1,177.33	3/4	849.82	3/4	543.21	3/4	259.94	3/4	14.13	3/4	3/4	3/4		3/4	
5	1,833.14	5	1,501.78	5	1,170.43	5	843.22	5	537.09	5	254.31	5		5	5	5		5	
1/4	1,826.23	1/4	1,494.88	1/4	1,163.53	1/4	836.61	1/4	530.96	1/4	248.68	1/4		1/4	1/4	1/4		1/4	
1/2	1,819.33	1/2	1,487.98	1/2	1,156.62	1/2	830.01	1/2	524.83	1/2	243.04	1/2		1/2	1/2	1/2		1/2	
3/4	1,812.43	3/4	1,481.07	3/4	1,149.72	3/4	823.41	3/4	518.71	3/4	237.41	3/4		3/4	3/4	3/4		3/4	
6	1,805.53	6	1,474.17	6	1,142.82	6	816.85	6	512.62	6	231.81	6		6	6	6		6	
1/4	1,798.62	1/4	1,467.27	1/4	1,135.91	1/4	810.29	1/4	506.54	1/4	226.22	1/4		1/4	1/4	1/4		1/4	
1/2	1,791.72	1/2	1,460.37	1/2	1,129.01	1/2	803.72	1/2	500.45	1/2	220.62	1/2		1/2	1/2	1/2		1/2	
3/4	1,784.82	3/4	1,453.46	3/4	1,122.11	3/4	797.16	3/4	494.36	3/4	215.02	3/4		3/4	3/4	3/4		3/4	
7	1,777.91	7	1,446.56	7	1,115.21	7	790.64	7	488.32	7	209.47	7		7	7	7		7	
1/4	1,771.01	1/4	1,439.66	1/4	1,108.30	1/4	784.12	1/4	482.27	1/4	203.92	1/4		1/4	1/4	1/4		1/4	
1/2	1,764.11	1/2	1,432.75	1/2	1,101.40	1/2	777.60	1/2	476.23	1/2	198.37	1/2		1/2	1/2	1/2		1/2	
3/4	1,757.20	3/4	1,425.85	3/4	1,094.50	3/4	771.08	3/4	470.19	3/4	192.82	3/4		3/4	3/4	3/4		3/4	
8	1,750.30	8	1,418.95	8	1,087.59	8	764.60	8	464.18	8	187.30	8		8	8	8		8	
1/4	1,743.40	1/4	1,412.04	1/4	1,080.69	1/4	758.12	1/4	458.18	1/4	181.79	1/4		1/4	1/4	1/4		1/4	
1/2	1,736.49	1/2	1,405.14	1/2	1,073.79	1/2	751.64	1/2	452.17	1/2	176.27	1/2		1/2	1/2	1/2		1/2	
3/4	1,729.59	3/4	1,398.24	3/4	1,066.89	3/4	745.16	3/4	446.17	3/4	170.76	3/4		3/4	3/4	3/4		3/4	
9	1,722.69	9	1,391.33	9	1,059.99	9	738.71	9	440.21	9	165.29	9		9	9	9		9	
1/4	1,715.78	1/4	1,384.43	1/4	1,053.10	1/4	732.26	1/4	434.24	1/4	159.82	1/4		1/4	1/4	1/4		1/4	
1/2	1,708.88	1/2	1,377.53	1/2	1,046.21	1/2	725.80	1/2	428.28	1/2	154.35	1/2		1/2	1/2	1/2		1/2	
3/4	1,701.98	3/4	1,370.62	3/4	1,039.31	3/4	719.35	3/4	422.32	3/4	148.88	3/4		3/4	3/4	3/4		3/4	
10	1,695.07	10	1,363.72	10	1,032.43	10	712.93	10	416.40	10	143.45	10		10	10	10		10	
1/4	1,688.17	1/4	1,356.82	1/4	1,025.55	1/4	706.52	1/4	410.48	1/4	138.01	1/4		1/4	1/4	1/4		1/4	
1/2	1,681.27	1/2	1,349.91	1/2	1,018.68	1/2	700.11	1/2	404.55	1/2	132.58	1/2		1/2	1/2	1/2		1/2	
3/4	1,674.36	3/4	1,343.01	3/4	1,011.80	3/4	693.69	3/4	398.63	3/4	127.15	3/4		3/4	3/4	3/4		3/4	
11	1,667.46	11	1,336.11	11	1,004.94	11	687.32	11	392.75	11	121.76	11		11	11	11		11	
1/4	1,660.56	1/4	1,329.20	1/4	998.09	1/4	680.95	1/4	386.87	1/4	116.37	1/4		1/4	1/4	1/4		1/4	
1/2	1,653.65	1/2	1,322.30	1/2	991.23	1/2	674.58	1/2	380.99	1/2	110.99	1/2		1/2	1/2	1/2		1/2	
3/4	1,646.75	3/4	1,315.40	3/4	984.38	3/4	668.21	3/4	375.11	3/4	105.60	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/14/2013 CL - SW  
CALCULATED: 02/14/2013 CL  
PRINTED: 02/14/2013 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 29053"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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
							4,202.85		3,913.94		3,610.67		3,293.51		2,964.17		2,632.79		2,301.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,196.94	1/4	3,907.78	1/4	3,604.19	1/4	3,286.75	1/4	2,957.27	1/4	2,625.89	1/4	2,294.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,191.03	1/2	3,901.63	1/2	3,597.72	1/2	3,280.00	1/2	2,950.37	1/2	2,618.98	1/2	2,287.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,185.12	3/4	3,895.47	3/4	3,591.24	3/4	3,273.25	3/4	2,943.46	3/4	2,612.08	3/4	2,280.67
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,179.19</b>	<b>1</b>	<b>3,889.29</b>	<b>1</b>	<b>3,584.75</b>	<b>1</b>	<b>3,266.46</b>	<b>1</b>	<b>2,936.56</b>	<b>1</b>	<b>2,605.18</b>	<b>1</b>	<b>2,273.76</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,173.25	1/4	3,883.11	1/4	3,578.25	1/4	3,259.68	1/4	2,929.65	1/4	2,598.27	1/4	2,266.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,167.32	1/2	3,876.93	1/2	3,571.76	1/2	3,252.90	1/2	2,922.75	1/2	2,591.37	1/2	2,259.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,161.39	3/4	3,870.74	3/4	3,565.26	3/4	3,246.11	3/4	2,915.85	3/4	2,584.46	3/4	2,253.05
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,155.43</b>	<b>2</b>	<b>3,864.54</b>	<b>2</b>	<b>3,558.75</b>	<b>2</b>	<b>3,239.31</b>	<b>2</b>	<b>2,908.94</b>	<b>2</b>	<b>2,577.56</b>	<b>2</b>	<b>2,246.14</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,149.47	1/4	3,858.34	1/4	3,552.23	1/4	3,232.51	1/4	2,902.04	1/4	2,570.66	1/4	2,239.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,143.51	1/2	3,852.13	1/2	3,545.71	1/2	3,225.71	1/2	2,895.14	1/2	2,563.75	1/2	2,232.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,137.55	3/4	3,845.93	3/4	3,539.19	3/4	3,218.91	3/4	2,888.23	3/4	2,556.85	3/4	2,225.43
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,131.61</b>	<b>3</b>	<b>3,839.67</b>	<b>3</b>	<b>3,532.65</b>	<b>3</b>	<b>3,212.08</b>	<b>3</b>	<b>2,881.33</b>	<b>3</b>	<b>2,549.95</b>	<b>3</b>	<b>2,218.52</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,125.66	1/4	3,833.41	1/4	3,526.11	1/4	3,205.26	1/4	2,874.42	1/4	2,543.04	1/4	2,211.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,119.71	1/2	3,827.15	1/2	3,519.57	1/2	3,198.44	1/2	2,867.52	1/2	2,536.14	1/2	2,204.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,113.77	3/4	3,820.89	3/4	3,513.02	3/4	3,191.62	3/4	2,860.62	3/4	2,529.23	3/4	2,197.81
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,107.80</b>	<b>4</b>	<b>3,814.61</b>	<b>4</b>	<b>3,506.46</b>	<b>4</b>	<b>3,184.76</b>	<b>4</b>	<b>2,853.71</b>	<b>4</b>	<b>2,522.33</b>	<b>4</b>	<b>2,190.90</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,101.83	1/4	3,808.32	1/4	3,499.89	1/4	3,177.91	1/4	2,846.81	1/4	2,515.43	1/4	2,184.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,095.86	1/2	3,802.04	1/2	3,493.33	1/2	3,171.06	1/2	2,839.90	1/2	2,508.52	1/2	2,177.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,089.89	3/4	3,795.75	3/4	3,486.76	3/4	3,164.21	3/4	2,833.00	3/4	2,501.62	3/4	2,170.19
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,083.90</b>	<b>5</b>	<b>3,789.45</b>	<b>5</b>	<b>3,480.17</b>	<b>5</b>	<b>3,157.34</b>	<b>5</b>	<b>2,826.10</b>	<b>5</b>	<b>2,494.71</b>	<b>5</b>	<b>2,163.28</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,077.90	1/4	3,783.14	1/4	3,473.57	1/4	3,150.46	1/4	2,819.19	1/4	2,487.81	1/4	2,156.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,071.91	1/2	3,776.83	1/2	3,466.98	1/2	3,143.59	1/2	2,812.29	1/2	2,480.91	1/2	2,149.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,065.91	3/4	3,770.52	3/4	3,460.38	3/4	3,136.72	3/4	2,805.39	3/4	2,474.00	3/4	2,142.57
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,059.90</b>	<b>6</b>	<b>3,764.19</b>	<b>6</b>	<b>3,453.77</b>	<b>6</b>	<b>3,129.83</b>	<b>6</b>	<b>2,798.48</b>	<b>6</b>	<b>2,467.10</b>	<b>6</b>	<b>2,135.66</b>
1/4	1/4	1/4	4,353.16	1/4	4,053.88	1/4	3,757.85	1/4	3,447.16	1/4	3,122.94	1/4	2,791.58	1/4	2,460.20	1/4	2,128.76		
1/2	1/2	1/2	4,347.98	1/2	4,047.87	1/2	3,751.52	1/2	3,440.54	1/2	3,116.05	1/2	2,784.67	1/2	2,453.29	1/2	2,121.85		
3/4	3/4	3/4	4,342.80	3/4	4,041.85	3/4	3,745.18	3/4	3,433.93	3/4	3,109.15	3/4	2,777.77	3/4	2,446.39	3/4	2,114.95		
<b>7</b>	<b>7</b>	<b>7</b>	<b>4,335.90</b>	<b>7</b>	<b>4,035.81</b>	<b>7</b>	<b>3,738.82</b>	<b>7</b>	<b>3,427.30</b>	<b>7</b>	<b>3,102.25</b>	<b>7</b>	<b>2,770.87</b>	<b>7</b>	<b>2,439.48</b>	<b>7</b>	<b>2,108.04</b>		
1/4	1/4	1/4	4,328.99	1/4	4,029.76	1/4	3,732.47	1/4	3,420.66	1/4	3,095.35	1/4	2,763.96	1/4	2,432.58	1/4	2,101.14		
1/2	1/2	1/2	4,322.09	1/2	4,023.72	1/2	3,726.11	1/2	3,414.03	1/2	3,088.44	1/2	2,757.06	1/2	2,425.67	1/2	2,094.23		
3/4	3/4	3/4	4,315.18	3/4	4,017.67	3/4	3,719.76	3/4	3,407.39	3/4	3,081.54	3/4	2,750.16	3/4	2,418.77	3/4	2,087.33		
<b>8</b>	<b>8</b>	<b>8</b>	<b>4,308.28</b>	<b>8</b>	<b>4,011.61</b>	<b>8</b>	<b>3,713.38</b>	<b>8</b>	<b>3,400.73</b>	<b>8</b>	<b>3,074.63</b>	<b>8</b>	<b>2,743.25</b>	<b>8</b>	<b>2,411.86</b>	<b>8</b>	<b>2,080.42</b>		
1/4	1/4	1/4	4,301.37	1/4	4,005.55	1/4	3,707.00	1/4	3,394.06	1/4	3,067.73	1/4	2,736.35	1/4	2,404.96	1/4	2,073.52		
1/2	1/2	1/2	4,294.47	1/2	3,999.48	1/2	3,700.63	1/2	3,387.40	1/2	3,060.83	1/2	2,729.44	1/2	2,398.05	1/2	2,066.61		
3/4	3/4	3/4	4,287.56	3/4	3,993.42	3/4	3,694.25	3/4	3,380.74	3/4	3,053.92	3/4	2,722.54	3/4	2,391.15	3/4	2,059.71		
<b>9</b>	<b>9</b>	<b>9</b>	<b>4,280.66</b>	<b>9</b>	<b>3,987.33</b>	<b>9</b>	<b>3,687.84</b>	<b>9</b>	<b>3,374.06</b>	<b>9</b>	<b>3,047.02</b>	<b>9</b>	<b>2,715.64</b>	<b>9</b>	<b>2,384.24</b>	<b>9</b>	<b>2,052.80</b>		
1/4	1/4	1/4	4,273.75	1/4	3,981.25	1/4	3,681.44	1/4	3,367.37	1/4	3,040.11	1/4	2,708.73	1/4	2,377.34	1/4	2,045.90		
1/2	1/2	1/2	4,266.85	1/2	3,975.16	1/2	3,675.03	1/2	3,360.69	1/2	3,033.21	1/2	2,701.83	1/2	2,370.43	1/2	2,038.99		
3/4	3/4	3/4	4,259.94	3/4	3,969.08	3/4	3,668.63	3/4	3,354.01	3/4	3,026.31	3/4	2,694.92	3/4	2,363.53	3/4	2,032.09		
<b>10</b>	<b>10</b>	<b>10</b>	<b>4,253.04</b>	<b>10</b>	<b>3,962.96</b>	<b>10</b>	<b>3,662.20</b>	<b>10</b>	<b>3,347.30</b>	<b>10</b>	<b>3,019.40</b>	<b>10</b>	<b>2,688.02</b>	<b>10</b>	<b>2,356.62</b>	<b>10</b>	<b>2,025.18</b>		
1/4	1/4	1/4	4,246.13	1/4	3,956.85	1/4	3,655.78	1/4	3,340.60	1/4	3,012.50	1/4	2,681.12	1/4	2,349.72	1/4	2,018.28		
1/2	1/2	1/2	4,239.23	1/2	3,950.74	1/2	3,649.35	1/2	3,333.89	1/2	3,005.60	1/2	2,674.21	1/2	2,342.81	1/2	2,011.37		
3/4	3/4	3/4	4,232.32	3/4	3,944.62	3/4	3,642.93	3/4	3,327.19	3/4	2,998.69	3/4	2,667.31	3/4	2,335.91	3/4	2,004.47		
<b>11</b>	<b>11</b>	<b>11</b>	<b>4,226.43</b>	<b>11</b>	<b>3,938.49</b>	<b>11</b>	<b>3,636.48</b>	<b>11</b>	<b>3,320.45</b>	<b>11</b>	<b>2,991.79</b>	<b>11</b>	<b>2,660.41</b>	<b>11</b>	<b>2,329.00</b>	<b>11</b>	<b>1,997.56</b>		
1/4	1/4	1/4	4,220.54	1/4	3,932.36	1/4	3,630.03	1/4	3,313.72	1/4	2,984.88	1/4	2,653.50	1/4	2,322.10	1/4	1,990.66		
1/2	1/2	1/2	4,214.65	1/2	3,926.23	1/2	3,623.59	1/2	3,306.99	1/2	2,977.98	1/2	2,646.60	1/2	2,315.19	1/2	1,983.75		
3/4	3/4	3/4	4,208.76	3/4	3,920.09	3/4	3,617.14	3/4	3,300.26	3/4	2,971.08	3/4	2,639.69	3/4	2,308.29	3/4	1,976.85		

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 37'-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 29053"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,969.94	0	1,638.50	0	1,307.06	0	976.19	0	662.04	0	369.36	0	100.28	0		0		0	
1/4	1,963.04	1/4	1,631.60	1/4	1,300.16	1/4	969.41	1/4	655.70	1/4	363.52	1/4	94.93	1/4		1/4		1/4	
1/2	1,956.13	1/2	1,624.69	1/2	1,293.25	1/2	962.62	1/2	649.37	1/2	357.67	1/2	89.58	1/2		1/2		1/2	
3/4	1,949.23	3/4	1,617.79	3/4	1,286.35	3/4	955.83	3/4	643.03	3/4	351.83	3/4	84.23	3/4		3/4		3/4	
1	1,942.32	1	1,610.88	1	1,279.44	1	949.10	1	636.74	1	346.03	1	78.92	1		1		1	
1/4	1,935.42	1/4	1,603.98	1/4	1,272.54	1/4	942.37	1/4	630.45	1/4	340.23	1/4	73.62	1/4		1/4		1/4	
1/2	1,928.51	1/2	1,597.07	1/2	1,265.63	1/2	935.65	1/2	624.16	1/2	334.43	1/2	68.32	1/2		1/2		1/2	
3/4	1,921.61	3/4	1,590.17	3/4	1,258.73	3/4	928.92	3/4	617.87	3/4	328.63	3/4	63.01	3/4		3/4		3/4	
2	1,914.70	2	1,583.26	2	1,251.82	2	922.23	2	611.62	2	322.87	2	57.74	2		2		2	
1/4	1,907.80	1/4	1,576.36	1/4	1,244.92	1/4	915.54	1/4	605.37	1/4	317.11	1/4	52.48	1/4		1/4		1/4	
1/2	1,900.89	1/2	1,569.45	1/2	1,238.01	1/2	908.85	1/2	599.11	1/2	311.35	1/2	47.21	1/2		1/2		1/2	
3/4	1,893.99	3/4	1,562.55	3/4	1,231.11	3/4	902.16	3/4	592.86	3/4	305.59	3/4	41.94	3/4		3/4		3/4	
3	1,887.08	3	1,555.64	3	1,224.20	3	895.52	3	586.65	3	299.87	3	37.58	3		3		3	
1/4	1,880.18	1/4	1,548.74	1/4	1,217.30	1/4	888.87	1/4	580.44	1/4	294.16	1/4	33.23	1/4		1/4		1/4	
1/2	1,873.27	1/2	1,541.83	1/2	1,210.39	1/2	882.22	1/2	574.23	1/2	288.44	1/2	28.87	1/2		1/2		1/2	
3/4	1,866.37	3/4	1,534.93	3/4	1,203.49	3/4	875.57	3/4	568.02	3/4	282.72	3/4	24.51	3/4		3/4		3/4	
4	1,859.46	4	1,528.02	4	1,196.58	4	868.97	4	561.85	4	277.04	4	21.91	4		4		4	
1/4	1,852.56	1/4	1,521.12	1/4	1,189.68	1/4	862.36	1/4	555.68	1/4	271.36	1/4	19.32	1/4		1/4		1/4	
1/2	1,845.65	1/2	1,514.21	1/2	1,182.77	1/2	855.76	1/2	549.51	1/2	265.69	1/2	16.73	1/2		1/2		1/2	
3/4	1,838.75	3/4	1,507.31	3/4	1,175.87	3/4	849.15	3/4	543.34	3/4	260.01	3/4	14.13	3/4		3/4		3/4	
5	1,831.84	5	1,500.40	5	1,168.96	5	842.58	5	537.22	5	254.37	5		5		5		5	
1/4	1,824.94	1/4	1,493.50	1/4	1,162.06	1/4	836.02	1/4	531.09	1/4	248.74	1/4		1/4		1/4		1/4	
1/2	1,818.03	1/2	1,486.59	1/2	1,155.15	1/2	829.45	1/2	524.96	1/2	243.10	1/2		1/2		1/2		1/2	
3/4	1,811.13	3/4	1,479.69	3/4	1,148.25	3/4	822.89	3/4	518.84	3/4	237.47	3/4		3/4		3/4		3/4	
6	1,804.22	6	1,472.78	6	1,141.34	6	816.36	6	512.75	6	231.87	6		6		6		6	
1/4	1,797.32	1/4	1,465.88	1/4	1,134.44	1/4	809.84	1/4	506.66	1/4	226.27	1/4		1/4		1/4		1/4	
1/2	1,790.41	1/2	1,458.97	1/2	1,127.53	1/2	803.31	1/2	500.57	1/2	220.67	1/2		1/2		1/2		1/2	
3/4	1,783.51	3/4	1,452.07	3/4	1,120.63	3/4	796.79	3/4	494.48	3/4	215.08	3/4		3/4		3/4		3/4	
7	1,776.60	7	1,445.16	7	1,113.72	7	790.31	7	488.44	7	209.52	7		7		7		7	
1/4	1,769.70	1/4	1,438.26	1/4	1,106.82	1/4	783.82	1/4	482.39	1/4	203.97	1/4		1/4		1/4		1/4	
1/2	1,762.79	1/2	1,431.35	1/2	1,099.91	1/2	777.34	1/2	476.35	1/2	198.42	1/2		1/2		1/2		1/2	
3/4	1,755.89	3/4	1,424.45	3/4	1,093.01	3/4	770.86	3/4	470.30	3/4	192.87	3/4		3/4		3/4		3/4	
8	1,748.98	8	1,417.54	8	1,086.10	8	764.41	8	464.30	8	187.35	8		8		8		8	
1/4	1,742.08	1/4	1,410.64	1/4	1,079.20	1/4	757.97	1/4	458.29	1/4	181.83	1/4		1/4		1/4		1/4	
1/2	1,735.17	1/2	1,403.73	1/2	1,072.30	1/2	751.53	1/2	452.28	1/2	176.32	1/2		1/2		1/2		1/2	
3/4	1,728.27	3/4	1,396.83	3/4	1,065.39	3/4	745.08	3/4	446.28	3/4	170.80	3/4		3/4		3/4		3/4	
9	1,721.36	9	1,389.92	9	1,058.50	9	738.66	9	440.31	9	165.33	9		9		9		9	
1/4	1,714.46	1/4	1,383.02	1/4	1,051.60	1/4	732.24	1/4	434.35	1/4	159.86	1/4		1/4		1/4		1/4	
1/2	1,707.55	1/2	1,376.11	1/2	1,044.70	1/2	725.83	1/2	428.39	1/2	154.39	1/2		1/2		1/2		1/2	
3/4	1,700.65	3/4	1,369.21	3/4	1,037.81	3/4	719.41	3/4	422.42	3/4	148.92	3/4		3/4		3/4		3/4	
10	1,693.74	10	1,362.30	10	1,030.93	10	713.02	10	416.50	10	143.48	10		10		10		10	
1/4	1,686.84	1/4	1,355.40	1/4	1,024.05	1/4	706.63	1/4	410.58	1/4	138.05	1/4		1/4		1/4		1/4	
1/2	1,679.93	1/2	1,348.49	1/2	1,017.17	1/2	700.25	1/2	404.65	1/2	132.61	1/2		1/2		1/2		1/2	
3/4	1,673.03	3/4	1,341.59	3/4	1,010.29	3/4	693.86	3/4	398.73	3/4	127.18	3/4		3/4		3/4		3/4	
11	1,666.12	11	1,334.68	11	1,003.46	11	687.49	11	392.85	11	121.79	11		11		11		11	
1/4	1,659.22	1/4	1,327.78	1/4	996.63	1/4	681.12	1/4	386.96	1/4	116.40	1/4		1/4		1/4		1/4	
1/2	1,652.31	1/2	1,320.87	1/2	989.81	1/2	674.74	1/2	381.08	1/2	111.01	1/2		1/2		1/2		1/2	
3/4	1,645.41	3/4	1,313.97	3/4	982.98	3/4	668.37	3/4	375.20	3/4	105.63	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/14/2013 CL - SW  
CALCULATED: 02/14/2013 CL  
PRINTED: 02/14/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "KIRBY 29053"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

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	5,083.35	1/4	4,745.48	1/4	4,389.69	1/4	4,017.44	1/4	3,631.23	1/4	3,242.98	1/4	2,854.67		
1/2		1/2		1/2		1/2	5,076.42	1/2	4,738.29	1/2	4,382.10	1/2	4,009.53	1/2	3,623.14	1/2	3,234.89	1/2	2,846.57		
3/4		3/4		3/4		3/4	5,069.47	3/4	4,731.08	3/4	4,374.49	3/4	4,001.58	3/4	3,615.05	3/4	3,226.80	3/4	2,838.48		
1	1	1	1	1	1	1	5,062.52	1	4,723.87	1	4,366.88	1	3,993.63	1	3,606.96	1	3,218.71	1	2,830.39		
1/4		1/4		1/4		1/4	5,055.57	1/4	4,716.66	1/4	4,359.27	1/4	3,985.69	1/4	3,598.88	1/4	3,210.62	1/4	2,822.30		
1/2		1/2		1/2		1/2	5,048.62	1/2	4,709.45	1/2	4,351.66	1/2	3,977.74	1/2	3,590.79	1/2	3,202.53	1/2	2,814.21		
3/4		3/4		3/4		3/4	5,041.64	3/4	4,702.21	3/4	4,344.03	3/4	3,969.77	3/4	3,582.70	3/4	3,194.45	3/4	2,806.12		
2	2	2	2	2	2	2	5,034.65	2	4,694.98	2	4,336.39	2	3,961.80	2	3,574.61	2	3,186.36	2	2,798.03		
1/4		1/4		1/4		1/4	5,027.67	1/4	4,687.74	1/4	4,328.76	1/4	3,953.83	1/4	3,566.52	1/4	3,178.27	1/4	2,789.94		
1/2		1/2		1/2		1/2	5,020.69	1/2	4,680.50	1/2	4,321.12	1/2	3,945.87	1/2	3,558.43	1/2	3,170.18	1/2	2,781.84		
3/4		3/4		3/4		3/4	5,013.75	3/4	4,673.17	3/4	4,313.46	3/4	3,937.87	3/4	3,550.34	3/4	3,162.09	3/4	2,773.75		
3	3	3	3	3	3	3	5,006.81	3	4,665.84	3	4,305.79	3	3,929.88	3	3,542.26	3	3,154.00	3	2,765.66		
1/4		1/4		1/4		1/4	4,999.88	1/4	4,658.50	1/4	4,298.12	1/4	3,921.88	1/4	3,534.17	1/4	3,145.91	1/4	2,757.57		
1/2		1/2		1/2		1/2	4,992.94	1/2	4,651.17	1/2	4,290.46	1/2	3,913.89	1/2	3,526.08	1/2	3,137.83	1/2	2,749.48		
3/4		3/4		3/4		3/4	4,985.98	3/4	4,643.81	3/4	4,282.77	3/4	3,905.86	3/4	3,517.99	3/4	3,129.74	3/4	2,741.39		
4	4	4	4	4	4	4	4,979.02	4	4,636.44	4	4,275.07	4	3,897.83	4	3,509.90	4	3,121.65	4	2,733.30		
1/4		1/4		1/4		1/4	4,972.05	1/4	4,629.08	1/4	4,267.38	1/4	3,889.80	1/4	3,501.81	1/4	3,113.56	1/4	2,725.21		
1/2		1/2		1/2		1/2	4,965.09	1/2	4,621.71	1/2	4,259.69	1/2	3,881.78	1/2	3,493.72	1/2	3,105.47	1/2	2,717.11		
3/4		3/4		3/4		3/4	4,958.10	3/4	4,614.32	3/4	4,251.96	3/4	3,873.73	3/4	3,485.64	3/4	3,097.38	3/4	2,709.02		
5	5	5	5	5	5	5	4,951.10	5	4,606.93	5	4,244.24	5	3,865.67	5	3,477.55	5	3,089.29	5	2,700.93		
1/4		1/4		1/4		1/4	4,944.11	1/4	4,599.54	1/4	4,236.51	1/4	3,857.62	1/4	3,469.46	1/4	3,081.21	1/4	2,692.84		
1/2		1/2		1/2		1/2	4,937.12	1/2	4,592.15	1/2	4,228.79	1/2	3,849.57	1/2	3,461.37	1/2	3,073.12	1/2	2,684.75		
3/4		3/4		3/4		3/4	4,930.10	3/4	4,584.73	3/4	4,221.04	3/4	3,841.50	3/4	3,453.28	3/4	3,065.03	3/4	2,676.66		
6	6	6	6	6	5,273.33	6	4,923.08	6	4,577.31	6	4,213.29	6	3,833.42	6	3,445.19	6	3,056.94	6	2,668.57		
1/4		1/4		1/4	5,267.26	1/4	4,916.06	1/4	4,569.88	1/4	4,205.54	1/4	3,825.34	1/4	3,437.10	1/4	3,048.85	1/4	2,660.48		
1/2		1/2		1/2	5,261.20	1/2	4,909.04	1/2	4,562.46	1/2	4,197.79	1/2	3,817.27	1/2	3,429.02	1/2	3,040.76	1/2	2,652.39		
3/4		3/4		3/4	5,253.11	3/4	4,901.99	3/4	4,555.01	3/4	4,190.02	3/4	3,809.18	3/4	3,420.93	3/4	3,032.67	3/4	2,644.29		
7	7	7	7	7	5,245.01	7	4,894.94	7	4,547.57	7	4,182.25	7	3,801.09	7	3,412.84	7	3,024.58	7	2,636.20		
1/4		1/4		1/4	5,236.92	1/4	4,887.89	1/4	4,540.12	1/4	4,174.47	1/4	3,793.00	1/4	3,404.75	1/4	3,016.49	1/4	2,628.11		
1/2		1/2		1/2	5,228.83	1/2	4,880.84	1/2	4,532.67	1/2	4,166.70	1/2	3,784.91	1/2	3,396.66	1/2	3,008.40	1/2	2,620.02		
3/4		3/4		3/4	5,220.74	3/4	4,873.77	3/4	4,525.20	3/4	4,158.89	3/4	3,776.83	3/4	3,388.57	3/4	3,000.31	3/4	2,611.93		
8	8	8	8	8	5,212.65	8	4,866.70	8	4,517.73	8	4,151.08	8	3,768.74	8	3,380.48	8	2,992.22	8	2,603.84		
1/4		1/4		1/4	5,204.56	1/4	4,859.62	1/4	4,510.26	1/4	4,143.28	1/4	3,760.65	1/4	3,372.40	1/4	2,984.12	1/4	2,595.75		
1/2		1/2		1/2	5,196.47	1/2	4,852.55	1/2	4,502.79	1/2	4,135.47	1/2	3,752.56	1/2	3,364.31	1/2	2,976.03	1/2	2,587.66		
3/4		3/4		3/4	5,188.38	3/4	4,845.45	3/4	4,495.28	3/4	4,127.64	3/4	3,744.47	3/4	3,356.22	3/4	2,967.94	3/4	2,579.56		
9	9	9	9	9	5,180.28	9	4,838.35	9	4,487.78	9	4,119.81	9	3,736.38	9	3,348.13	9	2,959.85	9	2,571.47		
1/4		1/4		1/4	5,172.19	1/4	4,831.26	1/4	4,480.27	1/4	4,111.98	1/4	3,728.29	1/4	3,340.04	1/4	2,951.76	1/4	2,563.38		
1/2		1/2		1/2	5,164.10	1/2	4,824.16	1/2	4,472.77	1/2	4,104.15	1/2	3,720.21	1/2	3,331.95	1/2	2,943.67	1/2	2,555.29		
3/4		3/4		3/4	5,156.01	3/4	4,817.03	3/4	4,465.24	3/4	4,096.29	3/4	3,712.12	3/4	3,323.86	3/4	2,935.58	3/4	2,547.20		
10	10	10	10	10	5,147.92	10	4,809.90	10	4,457.71	10	4,088.44	10	3,704.03	10	3,315.78	10	2,927.49	10	2,539.11		
1/4		1/4		1/4	5,139.83	1/4	4,802.76	1/4	4,450.19	1/4	4,080.58	1/4	3,695.94	1/4	3,307.69	1/4	2,919.39	1/4	2,531.02		
1/2		1/2		1/2	5,131.74	1/2	4,795.63	1/2	4,442.66	1/2	4,072.73	1/2	3,687.85	1/2	3,299.60	1/2	2,911.30	1/2	2,522.93		
3/4		3/4		3/4	5,124.84	3/4	4,788.48	3/4	4,435.11	3/4	4,064.84	3/4	3,679.76	3/4	3,291.51	3/4	2,903.21	3/4	2,514.83		
11	11	11	11	11	5,117.93	11	4,781.32	11	4,427.55	11	4,056.95	11	3,671.67	11	3,283.42	11	2,895.12	11	2,506.74		
1/4		1/4		1/4	5,111.03	1/4	4,774.17	1/4	4,420.00	1/4	4,049.07	1/4	3,663.59	1/4	3,275.33	1/4	2,887.03	1/4	2,498.65		
1/2		1/2		1/2	5,104.13	1/2	4,767.02	1/2	4,412.44	1/2	4,041.18	1/2	3,655.50	1/2	3,267.24	1/2	2,878.94	1/2	2,490.56		
3/4		3/4		3/4	5,097.20	3/4	4,759.84	3/4	4,404.86	3/4	4,033.27	3/4	3,647.41	3/4	3,259.16	3/4	2,870.85	3/4	2,482.47		

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 43'-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 29053"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,474.38	0	2,086.00	0	1,697.62	0	1,309.25	0	920.87	0	533.38	0	145.42	0		0		0	
1/4	2,466.29	1/4	2,077.91	1/4	1,689.53	1/4	1,301.15	1/4	912.78	1/4	525.30	1/4	137.34	1/4	1/4	1/4		1/4	1/4
1/2	2,458.20	1/2	2,069.82	1/2	1,681.44	1/2	1,293.06	1/2	904.69	1/2	517.21	1/2	129.25	1/2	1/2	1/2		1/2	1/2
3/4	2,450.11	3/4	2,061.73	3/4	1,673.35	3/4	1,284.97	3/4	896.61	3/4	509.13	3/4	121.17	3/4	3/4	3/4		3/4	3/4
1	2,442.01	1	2,053.64	1	1,665.26	1	1,276.88	1	888.53	1	501.05	1	113.09	1	1	1		1	1
1/4	2,433.92	1/4	2,045.55	1/4	1,657.17	1/4	1,268.79	1/4	880.45	1/4	492.97	1/4	105.01	1/4	1/4	1/4		1/4	1/4
1/2	2,425.83	1/2	2,037.45	1/2	1,649.08	1/2	1,260.70	1/2	872.37	1/2	484.88	1/2	96.92	1/2	1/2	1/2		1/2	1/2
3/4	2,417.74	3/4	2,029.36	3/4	1,640.99	3/4	1,252.61	3/4	864.30	3/4	476.80	3/4	88.84	3/4	3/4	3/4		3/4	3/4
2	2,409.65	2	2,021.27	2	1,632.89	2	1,244.52	2	856.24	2	468.72	2	80.76	2	2	2		2	2
1/4	2,401.56	1/4	2,013.18	1/4	1,624.80	1/4	1,236.43	1/4	848.17	1/4	460.64	1/4	72.68	1/4	1/4	1/4		1/4	1/4
1/2	2,393.47	1/2	2,005.09	1/2	1,616.71	1/2	1,228.33	1/2	840.10	1/2	452.55	1/2	64.59	1/2	1/2	1/2		1/2	1/2
3/4	2,385.38	3/4	1,997.00	3/4	1,608.62	3/4	1,220.24	3/4	832.04	3/4	444.47	3/4	57.52	3/4	3/4	3/4		3/4	3/4
3	2,377.28	3	1,988.91	3	1,600.53	3	1,212.15	3	823.97	3	436.39	3	50.45	3	3	3		3	3
1/4	2,369.19	1/4	1,980.82	1/4	1,592.44	1/4	1,204.06	1/4	815.90	1/4	428.31	1/4	43.38	1/4	1/4	1/4		1/4	1/4
1/2	2,361.10	1/2	1,972.72	1/2	1,584.35	1/2	1,195.97	1/2	807.84	1/2	420.22	1/2	36.31	1/2	1/2	1/2		1/2	1/2
3/4	2,353.01	3/4	1,964.63	3/4	1,576.26	3/4	1,187.88	3/4	799.77	3/4	412.14	3/4	31.26	3/4	3/4	3/4		3/4	3/4
4	2,344.92	4	1,956.54	4	1,568.16	4	1,179.79	4	791.70	4	404.06	4	26.21	4	4	4		4	4
1/4	2,336.83	1/4	1,948.45	1/4	1,560.07	1/4	1,171.70	1/4	783.64	1/4	395.98	1/4	21.16	1/4	1/4	1/4		1/4	1/4
1/2	2,328.74	1/2	1,940.36	1/2	1,551.98	1/2	1,163.60	1/2	775.57	1/2	387.89	1/2	16.11	1/2	1/2	1/2		1/2	1/2
3/4	2,320.65	3/4	1,932.27	3/4	1,543.89	3/4	1,155.51	3/4	767.50	3/4	379.81	3/4		3/4	3/4	3/4		3/4	3/4
5	2,312.55	5	1,924.18	5	1,535.80	5	1,147.42	5	759.44	5	371.73	5		5	5	5		5	5
1/4	2,304.46	1/4	1,916.09	1/4	1,527.71	1/4	1,139.33	1/4	751.37	1/4	363.65	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,296.37	1/2	1,907.99	1/2	1,519.62	1/2	1,131.24	1/2	743.30	1/2	355.56	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,288.28	3/4	1,899.90	3/4	1,511.53	3/4	1,123.15	3/4	735.24	3/4	347.48	3/4		3/4	3/4	3/4		3/4	3/4
6	2,280.19	6	1,891.81	6	1,503.43	6	1,115.06	6	727.17	6	339.40	6		6	6	6		6	6
1/4	2,272.10	1/4	1,883.72	1/4	1,495.34	1/4	1,106.97	1/4	719.10	1/4	331.32	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,264.01	1/2	1,875.63	1/2	1,487.25	1/2	1,098.87	1/2	711.04	1/2	323.23	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,255.92	3/4	1,867.54	3/4	1,479.16	3/4	1,090.78	3/4	702.97	3/4	315.15	3/4		3/4	3/4	3/4		3/4	3/4
7	2,247.83	7	1,859.45	7	1,471.07	7	1,082.69	7	694.90	7	307.07	7		7	7	7		7	7
1/4	2,239.73	1/4	1,851.36	1/4	1,462.98	1/4	1,074.60	1/4	686.84	1/4	298.99	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,231.64	1/2	1,843.27	1/2	1,454.89	1/2	1,066.51	1/2	678.77	1/2	290.90	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,223.55	3/4	1,835.17	3/4	1,446.80	3/4	1,058.42	3/4	670.70	3/4	282.82	3/4		3/4	3/4	3/4		3/4	3/4
8	2,215.46	8	1,827.08	8	1,438.71	8	1,050.33	8	662.64	8	274.74	8		8	8	8		8	8
1/4	2,207.37	1/4	1,818.99	1/4	1,430.61	1/4	1,042.24	1/4	654.57	1/4	266.66	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,199.28	1/2	1,810.90	1/2	1,422.52	1/2	1,034.15	1/2	646.50	1/2	258.57	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,191.19	3/4	1,802.81	3/4	1,414.43	3/4	1,026.05	3/4	638.43	3/4	250.49	3/4		3/4	3/4	3/4		3/4	3/4
9	2,183.10	9	1,794.72	9	1,406.34	9	1,017.96	9	630.35	9	242.41	9		9	9	9		9	9
1/4	2,175.00	1/4	1,786.63	1/4	1,398.25	1/4	1,009.87	1/4	622.28	1/4	234.33	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,166.91	1/2	1,778.54	1/2	1,390.16	1/2	1,001.78	1/2	614.20	1/2	226.24	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,158.82	3/4	1,770.44	3/4	1,382.07	3/4	993.69	3/4	606.12	3/4	218.16	3/4		3/4	3/4	3/4		3/4	3/4
10	2,150.73	10	1,762.35	10	1,373.98	10	985.60	10	598.04	10	210.08	10		10	10	10		10	10
1/4	2,142.64	1/4	1,754.26	1/4	1,365.88	1/4	977.51	1/4	589.96	1/4	202.00	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,134.55	1/2	1,746.17	1/2	1,357.79	1/2	969.42	1/2	581.87	1/2	193.91	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,126.46	3/4	1,738.08	3/4	1,349.70	3/4	961.32	3/4	573.79	3/4	185.83	3/4		3/4	3/4	3/4		3/4	3/4
11	2,118.37	11	1,729.99	11	1,341.61	11	953.23	11	565.71	11	177.75	11		11	11	11		11	11
1/4	2,110.27	1/4	1,721.90	1/4	1,333.52	1/4	945.14	1/4	557.63	1/4	169.67	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,102.18	1/2	1,713.81	1/2	1,325.43	1/2	937.05	1/2	549.54	1/2	161.58	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,094.09	3/4	1,705.71	3/4	1,317.34	3/4	928.96	3/4	541.46	3/4	153.50	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/14/2013 CL - SW  
CALCULATED: 02/14/2013 CL  
PRINTED: 02/14/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>



# BARGE "KIRBY 29053"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	5,077.93	1/4	4,740.19	1/4	4,384.70	1/4	4,012.66	1/4	3,626.50	1/4	3,238.13	1/4	2,849.70		
1/2		1/2		1/2		1/2	5,071.00	1/2	4,733.01	1/2	4,377.11	1/2	4,004.74	1/2	3,618.41	1/2	3,230.04	1/2	2,841.60		
3/4		3/4		3/4		3/4	5,064.08	3/4	4,725.83	3/4	4,369.52	3/4	3,996.83	3/4	3,610.32	3/4	3,221.94	3/4	2,833.51		
1	1	1	1	1	1	1	5,057.12	1	4,718.61	1	4,361.91	1	3,988.88	1	3,602.23	1	3,213.85	1	2,825.42		
1/4		1/4		1/4		1/4	5,050.17	1/4	4,711.40	1/4	4,354.30	1/4	3,980.93	1/4	3,594.14	1/4	3,205.76	1/4	2,817.32		
1/2		1/2		1/2		1/2	5,043.21	1/2	4,704.19	1/2	4,346.68	1/2	3,972.98	1/2	3,586.05	1/2	3,197.67	1/2	2,809.23		
3/4		3/4		3/4		3/4	5,036.26	3/4	4,696.97	3/4	4,339.07	3/4	3,965.03	3/4	3,577.96	3/4	3,189.58	3/4	2,801.13		
2	2	2	2	2	2	2	5,029.28	2	4,689.73	2	4,331.43	2	3,957.06	2	3,569.87	2	3,181.49	2	2,793.04		
1/4		1/4		1/4		1/4	5,022.29	1/4	4,682.49	1/4	4,323.80	1/4	3,949.09	1/4	3,561.77	1/4	3,173.40	1/4	2,784.95		
1/2		1/2		1/2		1/2	5,015.30	1/2	4,675.26	1/2	4,316.16	1/2	3,941.12	1/2	3,553.68	1/2	3,165.31	1/2	2,776.85		
3/4		3/4		3/4		3/4	5,008.32	3/4	4,668.02	3/4	4,308.52	3/4	3,933.14	3/4	3,545.59	3/4	3,157.21	3/4	2,768.76		
3	3	3	3	3	3	3	5,001.38	3	4,660.68	3	4,300.85	3	3,925.15	3	3,537.50	3	3,149.12	3	2,760.67		
1/4		1/4		1/4		1/4	4,994.44	1/4	4,653.35	1/4	4,293.18	1/4	3,917.15	1/4	3,529.41	1/4	3,141.03	1/4	2,752.57		
1/2		1/2		1/2		1/2	4,987.50	1/2	4,646.01	1/2	4,285.51	1/2	3,909.16	1/2	3,521.32	1/2	3,132.94	1/2	2,744.48		
3/4		3/4		3/4		3/4	4,980.56	3/4	4,638.67	3/4	4,277.85	3/4	3,901.16	3/4	3,513.23	3/4	3,124.85	3/4	2,736.39		
4	4	4	4	4	4	4	4,973.60	4	4,631.31	4	4,270.15	4	3,893.13	4	3,505.14	4	3,116.76	4	2,728.29		
1/4		1/4		1/4		1/4	4,966.63	1/4	4,623.94	1/4	4,262.46	1/4	3,885.10	1/4	3,497.04	1/4	3,108.67	1/4	2,720.20		
1/2		1/2		1/2		1/2	4,959.67	1/2	4,616.57	1/2	4,254.76	1/2	3,877.07	1/2	3,488.95	1/2	3,100.58	1/2	2,712.10		
3/4		3/4		3/4		3/4	4,952.70	3/4	4,609.21	3/4	4,247.07	3/4	3,869.04	3/4	3,480.86	3/4	3,092.48	3/4	2,704.01		
5	5	5	5	5	5	5	4,945.71	5	4,601.82	5	4,239.34	5	3,860.98	5	3,472.77	5	3,084.39	5	2,695.92		
1/4		1/4		1/4		1/4	4,938.71	1/4	4,594.42	1/4	4,231.61	1/4	3,852.93	1/4	3,464.68	1/4	3,076.30	1/4	2,687.82		
1/2		1/2		1/2		1/2	4,931.72	1/2	4,587.03	1/2	4,223.88	1/2	3,844.88	1/2	3,456.59	1/2	3,068.21	1/2	2,679.73		
3/4		3/4		3/4		3/4	4,924.72	3/4	4,579.64	3/4	4,216.15	3/4	3,836.82	3/4	3,448.50	3/4	3,060.12	3/4	2,671.64		
6	6	6	6	6	6	6	4,917.70	6	4,572.21	6	4,208.40	6	3,828.75	6	3,440.41	6	3,052.03	6	2,663.54		
1/4		1/4		1/4	5,261.05	1/4	4,910.68	1/4	4,564.79	1/4	4,200.65	1/4	3,820.67	1/4	3,432.32	1/4	3,043.94	1/4	2,655.45		
1/2		1/2		1/2	5,254.98	1/2	4,903.66	1/2	4,557.36	1/2	4,192.90	1/2	3,812.59	1/2	3,424.22	1/2	3,035.85	1/2	2,647.36		
3/4		3/4		3/4	5,248.91	3/4	4,896.64	3/4	4,549.93	3/4	4,185.15	3/4	3,804.51	3/4	3,416.13	3/4	3,027.76	3/4	2,639.26		
7	7	7	7	7	7	7	5,240.81	7	4,889.58	7	4,542.49	7	4,177.37	7	3,796.42	7	3,408.04	7	3,019.66	7	2,631.17
1/4		1/4		1/4	5,232.72	1/4	4,882.53	1/4	4,535.04	1/4	4,169.60	1/4	3,788.33	1/4	3,399.95	1/4	3,011.57	1/4	2,623.08		
1/2		1/2		1/2	5,224.63	1/2	4,875.48	1/2	4,527.59	1/2	4,161.82	1/2	3,780.24	1/2	3,391.86	1/2	3,003.47	1/2	2,614.98		
3/4		3/4		3/4	5,216.53	3/4	4,868.42	3/4	4,520.14	3/4	4,154.05	3/4	3,772.15	3/4	3,383.77	3/4	2,995.38	3/4	2,606.89		
8	8	8	8	8	8	8	5,208.44	8	4,861.35	8	4,512.67	8	4,146.24	8	3,764.05	8	3,375.68	8	2,987.29	8	2,598.79
1/4		1/4		1/4	5,200.35	1/4	4,854.27	1/4	4,505.19	1/4	4,138.43	1/4	3,755.96	1/4	3,367.59	1/4	2,979.19	1/4	2,590.70		
1/2		1/2		1/2	5,192.25	1/2	4,847.20	1/2	4,497.72	1/2	4,130.62	1/2	3,747.87	1/2	3,359.49	1/2	2,971.10	1/2	2,582.61		
3/4		3/4		3/4	5,184.16	3/4	4,840.12	3/4	4,490.24	3/4	4,122.81	3/4	3,739.78	3/4	3,351.40	3/4	2,963.01	3/4	2,574.51		
9	9	9	9	9	9	9	5,176.06	9	4,833.02	9	4,482.74	9	4,114.98	9	3,731.69	9	3,343.31	9	2,954.91	9	2,566.42
1/4		1/4		1/4	5,167.97	1/4	4,825.92	1/4	4,475.23	1/4	4,107.14	1/4	3,723.60	1/4	3,335.22	1/4	2,945.82	1/4	2,558.33		
1/2		1/2		1/2	5,159.88	1/2	4,818.82	1/2	4,467.72	1/2	4,099.31	1/2	3,715.51	1/2	3,327.13	1/2	2,937.73	1/2	2,550.23		
3/4		3/4		3/4	5,151.78	3/4	4,811.72	3/4	4,460.22	3/4	4,091.48	3/4	3,707.42	3/4	3,319.04	3/4	2,929.63	3/4	2,542.14		
10	10	10	10	10	10	10	5,143.69	10	4,804.59	10	4,452.69	10	4,083.62	10	3,699.32	10	3,310.95	10	2,922.54	10	2,534.05
1/4		1/4		1/4	5,135.60	1/4	4,797.45	1/4	4,445.16	1/4	4,075.76	1/4	3,691.23	1/4	3,302.86	1/4	2,914.44	1/4	2,525.95		
1/2		1/2		1/2	5,127.50	1/2	4,790.32	1/2	4,437.63	1/2	4,067.90	1/2	3,683.14	1/2	3,294.76	1/2	2,906.35	1/2	2,517.86		
3/4		3/4		3/4	5,119.41	3/4	4,783.19	3/4	4,430.10	3/4	4,060.05	3/4	3,675.05	3/4	3,286.67	3/4	2,898.26	3/4	2,509.76		
11	11	11	11	11	11	11	5,112.50	11	4,776.03	11	4,422.54	11	4,052.16	11	3,666.96	11	2,890.16	11	2,501.67		
1/4		1/4		1/4	5,105.60	1/4	4,768.87	1/4	4,414.98	1/4	4,044.27	1/4	3,658.87	1/4	3,270.49	1/4	2,882.07	1/4	2,493.58		
1/2		1/2		1/2	5,098.69	1/2	4,761.72	1/2	4,407.43	1/2	4,036.38	1/2	3,650.78	1/2	3,262.40	1/2	2,873.98	1/2	2,485.48		
3/4		3/4		3/4	5,091.79	3/4	4,754.56	3/4	4,399.87	3/4	4,028.49	3/4	3,642.69	3/4	3,254.31	3/4	2,865.88	3/4	2,477.39		

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 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "KIRBY 29053"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,469.30	0	2,080.80	0	1,692.31	0	1,303.82	0	916.25	0	542.53	0	154.08	0		0		0	
1/4	2,461.20	1/4	2,072.71	1/4	1,684.22	1/4	1,295.72	1/4	908.46	1/4	534.44	1/4	145.99	1/4	1/4	1/4		1/4	1/4
1/2	2,453.11	1/2	2,064.62	1/2	1,676.12	1/2	1,287.63	1/2	900.68	1/2	526.34	1/2	137.89	1/2	1/2	1/2		1/2	1/2
3/4	2,445.02	3/4	2,056.52	3/4	1,668.03	3/4	1,279.54	3/4	892.89	3/4	518.25	3/4	129.80	3/4	3/4	3/4		3/4	3/4
1	2,436.92	1	2,048.43	1	1,659.94	1	1,271.44	1	885.12	1	510.16	1	121.71	1	1	1		1	1
1/4	2,428.83	1/4	2,040.34	1/4	1,651.84	1/4	1,263.35	1/4	877.35	1/4	502.07	1/4	113.62	1/4	1/4	1/4		1/4	1/4
1/2	2,420.74	1/2	2,032.24	1/2	1,643.75	1/2	1,255.26	1/2	869.58	1/2	493.97	1/2	105.52	1/2	1/2	1/2		1/2	1/2
3/4	2,412.64	3/4	2,024.15	3/4	1,635.66	3/4	1,247.16	3/4	861.81	3/4	485.88	3/4	97.43	3/4	3/4	3/4		3/4	3/4
2	2,404.55	2	2,016.05	2	1,627.56	2	1,239.07	2	854.06	2	477.79	2	89.34	2	2	2		2	2
1/4	2,396.45	1/4	2,007.96	1/4	1,619.47	1/4	1,230.98	1/4	846.30	1/4	469.69	1/4	81.24	1/4	1/4	1/4		1/4	1/4
1/2	2,388.36	1/2	1,999.87	1/2	1,611.38	1/2	1,222.88	1/2	838.54	1/2	461.60	1/2	73.15	1/2	1/2	1/2		1/2	1/2
3/4	2,380.27	3/4	1,991.77	3/4	1,603.28	3/4	1,214.79	3/4	830.78	3/4	453.51	3/4	65.06	3/4	3/4	3/4		3/4	3/4
3	2,372.17	3	1,983.68	3	1,595.19	3	1,206.70	3	823.02	3	445.42	3	57.98	3	3	3		3	3
1/4	2,364.08	1/4	1,975.59	1/4	1,587.09	1/4	1,198.60	1/4	815.26	1/4	437.32	1/4	50.89	1/4	1/4	1/4		1/4	1/4
1/2	2,355.99	1/2	1,967.49	1/2	1,579.00	1/2	1,190.51	1/2	807.50	1/2	429.23	1/2	43.81	1/2	1/2	1/2		1/2	1/2
3/4	2,347.89	3/4	1,959.40	3/4	1,570.91	3/4	1,182.41	3/4	799.74	3/4	421.14	3/4	36.73	3/4	3/4	3/4		3/4	3/4
4	2,339.80	4	1,951.31	4	1,562.81	4	1,174.32	4	791.98	4	413.05	4	31.67	4	4	4		4	4
1/4	2,331.71	1/4	1,943.21	1/4	1,554.72	1/4	1,166.23	1/4	784.22	1/4	404.95	1/4	26.61	1/4	1/4	1/4		1/4	1/4
1/2	2,323.61	1/2	1,935.12	1/2	1,546.63	1/2	1,158.13	1/2	776.46	1/2	396.86	1/2	21.55	1/2	1/2	1/2		1/2	1/2
3/4	2,315.52	3/4	1,927.03	3/4	1,538.53	3/4	1,150.04	3/4	768.70	3/4	388.77	3/4	16.50	3/4	3/4	3/4		3/4	3/4
5	2,307.42	5	1,918.93	5	1,530.44	5	1,141.95	5	760.94	5	380.67	5		5	5	5		5	5
1/4	2,299.33	1/4	1,910.84	1/4	1,522.35	1/4	1,133.85	1/4	753.18	1/4	372.58	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,291.24	1/2	1,902.74	1/2	1,514.25	1/2	1,125.76	1/2	745.43	1/2	364.49	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,283.14	3/4	1,894.65	3/4	1,506.16	3/4	1,117.67	3/4	737.67	3/4	356.40	3/4		3/4	3/4	3/4		3/4	3/4
6	2,275.05	6	1,886.56	6	1,498.06	6	1,109.57	6	729.91	6	348.30	6		6	6	6		6	6
1/4	2,266.96	1/4	1,878.46	1/4	1,489.97	1/4	1,101.48	1/4	722.15	1/4	340.21	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,258.86	1/2	1,870.37	1/2	1,481.88	1/2	1,093.38	1/2	714.39	1/2	332.12	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,250.77	3/4	1,862.28	3/4	1,473.78	3/4	1,085.29	3/4	706.63	3/4	324.03	3/4		3/4	3/4	3/4		3/4	3/4
7	2,242.68	7	1,854.18	7	1,465.69	7	1,077.20	7	698.87	7	315.93	7		7	7	7		7	7
1/4	2,234.58	1/4	1,846.09	1/4	1,457.60	1/4	1,069.10	1/4	691.11	1/4	307.84	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,226.49	1/2	1,838.00	1/2	1,449.50	1/2	1,061.01	1/2	683.36	1/2	299.75	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,218.40	3/4	1,829.90	3/4	1,441.41	3/4	1,052.92	3/4	675.60	3/4	291.66	3/4		3/4	3/4	3/4		3/4	3/4
8	2,210.30	8	1,821.81	8	1,433.32	8	1,044.82	8	667.84	8	283.56	8		8	8	8		8	8
1/4	2,202.21	1/4	1,813.71	1/4	1,425.22	1/4	1,036.73	1/4	660.09	1/4	275.47	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,194.11	1/2	1,805.62	1/2	1,417.13	1/2	1,028.64	1/2	652.33	1/2	267.38	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,186.02	3/4	1,797.53	3/4	1,409.04	3/4	1,020.54	3/4	644.57	3/4	259.28	3/4		3/4	3/4	3/4		3/4	3/4
9	2,177.93	9	1,789.43	9	1,400.94	9	1,012.45	9	636.80	9	251.19	9		9	9	9		9	9
1/4	2,169.83	1/4	1,781.34	1/4	1,392.85	1/4	1,004.36	1/4	629.04	1/4	243.10	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,161.74	1/2	1,773.25	1/2	1,384.75	1/2	996.26	1/2	621.27	1/2	235.01	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,153.65	3/4	1,765.15	3/4	1,376.66	3/4	988.17	3/4	613.50	3/4	226.91	3/4		3/4	3/4	3/4		3/4	3/4
10	2,145.55	10	1,757.06	10	1,368.57	10	980.07	10	605.72	10	218.82	10		10	10	10		10	10
1/4	2,137.46	1/4	1,748.97	1/4	1,360.47	1/4	971.98	1/4	597.94	1/4	210.73	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,129.37	1/2	1,740.87	1/2	1,352.38	1/2	963.89	1/2	590.16	1/2	202.64	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,121.27	3/4	1,732.78	3/4	1,344.29	3/4	955.79	3/4	582.37	3/4	194.54	3/4		3/4	3/4	3/4		3/4	3/4
11	2,113.18	11	1,724.69	11	1,336.19	11	947.85	11	574.44	11	186.45	11		11	11	11		11	11
1/4	2,105.08	1/4	1,716.59	1/4	1,328.10	1/4	939.91	1/4	566.50	1/4	178.36	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,096.99	1/2	1,708.50	1/2	1,320.01	1/2	931.97	1/2	558.56	1/2	170.26	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,088.90	3/4	1,700.40	3/4	1,311.91	3/4	924.03	3/4	550.62	3/4	162.17	3/4		3/4	3/4	3/4		3/4	3/4

STRAPPED: 02/14/2013 CL - SW  
CALCULATED: 02/14/2013 CL  
PRINTED: 02/14/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>



# BARGE "KIRBY 29053"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	4,488.79	1/4	4,232.59	1/4	3,963.48	1/4	3,681.96	1/4	3,386.71	1/4	3,030.13	1/4	2,669.21		
1/2		1/2		1/2		1/2	4,483.54	1/2	4,227.14	1/2	3,957.73	1/2	3,675.97	1/2	3,379.89	1/2	3,022.61	1/2	2,661.69		
3/4		3/4		3/4		3/4	4,478.30	3/4	4,221.68	3/4	3,951.99	3/4	3,669.97	3/4	3,373.06	3/4	3,015.10	3/4	2,654.17		
1		1		1		1	4,473.05	1	4,216.22	1	3,946.24	1	3,663.98	1	3,366.24	1	3,007.58	1	2,646.65		
1/4		1/4		1/4		1/4	4,467.78	1/4	4,210.74	1/4	3,940.47	1/4	3,657.96	1/4	3,359.14	1/4	3,000.06	1/4	2,639.13		
1/2		1/2		1/2		1/2	4,462.52	1/2	4,205.26	1/2	3,934.71	1/2	3,651.93	1/2	3,352.04	1/2	2,992.54	1/2	2,631.61		
3/4		3/4		3/4		3/4	4,457.25	3/4	4,199.78	3/4	3,928.94	3/4	3,645.91	3/4	3,344.94	3/4	2,985.02	3/4	2,624.09		
2		2		2		2	4,451.99	2	4,194.30	2	3,923.18	2	3,639.89	2	3,337.83	2	2,977.50	2	2,616.57		
1/4		1/4		1/4		1/4	4,446.70	1/4	4,188.80	1/4	3,917.39	1/4	3,633.85	1/4	3,330.46	1/4	2,969.98	1/4	2,609.05		
1/2		1/2		1/2		1/2	4,441.41	1/2	4,183.30	1/2	3,911.61	1/2	3,627.82	1/2	3,323.08	1/2	2,962.47	1/2	2,601.53		
3/4		3/4		3/4		3/4	4,436.12	3/4	4,177.80	3/4	3,905.82	3/4	3,621.78	3/4	3,315.70	3/4	2,954.95	3/4	2,594.01		
3		3		3		3	4,430.83	3	4,172.31	3	3,900.04	3	3,615.74	3	3,308.32	3	2,947.43	3	2,586.49		
1/4		1/4		1/4		1/4	4,425.56	1/4	4,166.75	1/4	3,894.23	1/4	3,609.69	1/4	3,300.80	1/4	2,939.91	1/4	2,578.97		
1/2		1/2		1/2		1/2	4,420.28	1/2	4,161.19	1/2	3,888.42	1/2	3,603.63	1/2	3,293.28	1/2	2,932.39	1/2	2,571.45		
3/4		3/4		3/4		3/4	4,415.01	3/4	4,155.64	3/4	3,882.62	3/4	3,597.57	3/4	3,285.77	3/4	2,924.87	3/4	2,563.93		
4		4		4		4	4,409.74	4	4,150.08	4	3,876.81	4	3,591.52	4	3,278.25	4	2,917.35	4	2,556.41		
1/4		1/4		1/4		1/4	4,404.45	1/4	4,144.50	1/4	3,870.98	1/4	3,585.44	1/4	3,270.73	1/4	2,909.84	1/4	2,548.89		
1/2		1/2		1/2		1/2	4,399.16	1/2	4,138.92	1/2	3,865.15	1/2	3,579.35	1/2	3,263.21	1/2	2,902.32	1/2	2,541.37		
3/4		3/4		3/4		3/4	4,393.87	3/4	4,133.35	3/4	3,859.33	3/4	3,573.27	3/4	3,255.69	3/4	2,894.80	3/4	2,533.85		
5		5		5		5	4,388.58	5	4,127.77	5	3,853.50	5	3,567.19	5	3,248.17	5	2,887.28	5	2,526.33		
1/4		1/4		1/4		1/4	4,383.26	1/4	4,122.17	1/4	3,847.65	1/4	3,561.09	1/4	3,240.65	1/4	2,879.76	1/4	2,518.81		
1/2		1/2		1/2		1/2	4,377.95	1/2	4,116.57	1/2	3,841.79	1/2	3,554.99	1/2	3,233.14	1/2	2,872.24	1/2	2,511.29		
3/4		3/4		3/4		3/4	4,372.63	3/4	4,110.97	3/4	3,835.94	3/4	3,548.89	3/4	3,225.62	3/4	2,864.72	3/4	2,503.77		
6		6		6		6	4,367.32	6	4,105.37	6	3,830.09	6	3,542.79	6	3,218.10	6	2,857.21	6	2,496.25		
1/4		1/4		1/4		1/4	4,361.99	1/4	4,099.75	1/4	3,824.22	1/4	3,536.68	1/4	3,210.58	1/4	2,849.69	1/4	2,488.73		
1/2		1/2		1/2		1/2	4,622.22	1/2	4,356.65	1/2	4,094.12	1/2	3,818.35	1/2	3,530.56	1/2	3,203.06	1/2	2,842.17	1/2	2,481.21
3/4		3/4		3/4		3/4	4,617.62	3/4	4,351.32	3/4	4,088.50	3/4	3,812.48	3/4	3,524.44	3/4	3,195.54	3/4	2,834.65	3/4	2,473.69
7		7		7		7	4,613.02	7	4,345.99	7	4,082.88	7	3,806.61	7	3,518.32	7	3,188.02	7	2,827.13	7	2,466.17
1/4		1/4		1/4		1/4	4,606.89	1/4	4,340.63	1/4	4,077.23	1/4	3,800.72	1/4	3,512.19	1/4	3,180.51	1/4	2,819.61	1/4	2,458.65
1/2		1/2		1/2		1/2	4,600.76	1/2	4,335.27	1/2	4,071.59	1/2	3,794.83	1/2	3,506.06	1/2	3,172.99	1/2	2,812.09	1/2	2,451.13
3/4		3/4		3/4		3/4	4,594.63	3/4	4,329.91	3/4	4,065.95	3/4	3,788.94	3/4	3,499.94	3/4	3,165.47	3/4	2,804.57	3/4	2,443.61
8		8		8		8	4,588.50	8	4,324.55	8	4,060.31	8	3,783.05	8	3,493.81	8	3,157.95	8	2,797.05	8	2,436.09
1/4		1/4		1/4		1/4	4,582.37	1/4	4,319.18	1/4	4,054.65	1/4	3,777.13	1/4	3,487.68	1/4	3,150.43	1/4	2,789.53	1/4	2,428.57
1/2		1/2		1/2		1/2	4,576.24	1/2	4,313.80	1/2	4,048.99	1/2	3,771.22	1/2	3,481.55	1/2	3,142.91	1/2	2,782.01	1/2	2,421.05
3/4		3/4		3/4		3/4	4,570.11	3/4	4,308.43	3/4	4,043.33	3/4	3,765.30	3/4	3,475.42	3/4	3,135.39	3/4	2,774.49	3/4	2,413.53
9		9		9		9	4,563.98	9	4,303.05	9	4,037.67	9	3,759.39	9	3,469.30	9	3,127.88	9	2,766.97	9	2,406.01
1/4		1/4		1/4		1/4	4,557.86	1/4	4,297.66	1/4	4,031.98	1/4	3,753.46	1/4	3,463.17	1/4	3,120.36	1/4	2,759.45	1/4	2,398.49
1/2		1/2		1/2		1/2	4,551.73	1/2	4,292.26	1/2	4,026.30	1/2	3,747.53	1/2	3,457.04	1/2	3,112.84	1/2	2,751.93	1/2	2,390.97
3/4		3/4		3/4		3/4	4,545.60	3/4	4,286.87	3/4	4,020.61	3/4	3,741.59	3/4	3,450.91	3/4	3,105.32	3/4	2,744.41	3/4	2,383.45
10		10		10		10	4,539.47	10	4,281.48	10	4,014.93	10	3,735.66	10	3,444.78	10	3,097.80	10	2,736.89	10	2,375.93
1/4		1/4		1/4		1/4	4,533.34	1/4	4,276.06	1/4	4,009.23	1/4	3,729.71	1/4	3,438.52	1/4	3,090.28	1/4	2,729.37	1/4	2,368.41
1/2		1/2		1/2		1/2	4,527.21	1/2	4,270.64	1/2	4,003.52	1/2	3,723.76	1/2	3,432.25	1/2	3,082.76	1/2	2,721.85	1/2	2,360.89
3/4		3/4		3/4		3/4	4,521.08	3/4	4,265.22	3/4	3,997.82	3/4	3,717.81	3/4	3,425.98	3/4	3,075.24	3/4	2,714.33	3/4	2,353.37
11		11		11		11	4,514.95	11	4,259.80	11	3,992.12	11	3,711.86	11	3,419.71	11	3,067.73	11	2,706.81	11	2,345.85
1/4		1/4		1/4		1/4	4,509.72	1/4	4,254.36	1/4	3,986.39	1/4	3,705.88	1/4	3,413.17	1/4	3,060.21	1/4	2,699.29	1/4	2,338.33
1/2		1/2		1/2		1/2	4,504.49	1/2	4,248.92	1/2	3,980.67	1/2	3,699.90	1/2	3,406.62	1/2	3,052.69	1/2	2,691.77	1/2	2,330.81
3/4		3/4		3/4		3/4	4,499.26	3/4	4,243.49	3/4	3,974.95	3/4	3,693.93	3/4	3,400.08	3/4	3,045.17	3/4	2,684.25	3/4	2,323.29
12		12		12		12	4,494.04	12	4,238.05	12	3,969.23	12	3,687.95	12	3,393.53	12	3,037.65	12	2,676.73	12	2,315.77

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 44'-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 29053"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,308.25	0	1,947.29	0	1,586.33	0	1,225.37	0	865.21	0	504.27	0	143.32	0		0		0	
1/4	2,300.73	1/4	1,939.77	1/4	1,578.81	1/4	1,217.85	1/4	857.69	1/4	496.75	1/4	135.80	1/4	1/4	1/4		1/4	
1/2	2,293.21	1/2	1,932.25	1/2	1,571.29	1/2	1,210.33	1/2	850.17	1/2	489.23	1/2	128.28	1/2	1/2	1/2		1/2	
3/4	2,285.69	3/4	1,924.73	3/4	1,563.77	3/4	1,202.81	3/4	842.65	3/4	481.71	3/4	120.76	3/4	3/4	3/4		3/4	
1	2,278.17	1	1,917.21	1	1,556.25	1	1,195.29	1	835.13	1	474.19	1	113.24	1	1	1		1	
1/4	2,270.65	1/4	1,909.69	1/4	1,548.73	1/4	1,187.77	1/4	827.61	1/4	466.67	1/4	105.72	1/4	1/4	1/4		1/4	
1/2	2,263.13	1/2	1,902.17	1/2	1,541.21	1/2	1,180.25	1/2	820.09	1/2	459.15	1/2	98.20	1/2	1/2	1/2		1/2	
3/4	2,255.61	3/4	1,894.65	3/4	1,533.69	3/4	1,172.73	3/4	812.57	3/4	451.63	3/4	90.68	3/4	3/4	3/4		3/4	
2	2,248.09	2	1,887.13	2	1,526.17	2	1,165.21	2	805.05	2	444.11	2	83.16	2	2	2		2	
1/4	2,240.57	1/4	1,879.61	1/4	1,518.65	1/4	1,157.69	1/4	797.53	1/4	436.59	1/4	75.64	1/4	1/4	1/4		1/4	
1/2	2,233.05	1/2	1,872.09	1/2	1,511.13	1/2	1,150.17	1/2	790.01	1/2	429.07	1/2	68.12	1/2	1/2	1/2		1/2	
3/4	2,225.53	3/4	1,864.57	3/4	1,503.61	3/4	1,142.65	3/4	782.49	3/4	421.55	3/4	60.60	3/4	3/4	3/4		3/4	
3	2,218.01	3	1,857.05	3	1,496.09	3	1,135.13	3	774.97	3	414.03	3	54.02	3	3	3		3	
1/4	2,210.49	1/4	1,849.53	1/4	1,488.57	1/4	1,127.61	1/4	767.46	1/4	406.51	1/4	47.44	1/4	1/4	1/4		1/4	
1/2	2,202.97	1/2	1,842.01	1/2	1,481.05	1/2	1,120.09	1/2	759.94	1/2	398.99	1/2	40.86	1/2	1/2	1/2		1/2	
3/4	2,195.45	3/4	1,834.49	3/4	1,473.53	3/4	1,112.57	3/4	752.42	3/4	391.47	3/4	34.28	3/4	3/4	3/4		3/4	
4	2,187.93	4	1,826.97	4	1,466.01	4	1,105.08	4	744.90	4	383.95	4	29.58	4	4	4		4	
1/4	2,180.41	1/4	1,819.45	1/4	1,458.49	1/4	1,097.58	1/4	737.38	1/4	376.43	1/4	24.88	1/4	1/4	1/4		1/4	
1/2	2,172.89	1/2	1,811.93	1/2	1,450.97	1/2	1,090.09	1/2	729.86	1/2	368.91	1/2	20.18	1/2	1/2	1/2		1/2	
3/4	2,165.37	3/4	1,804.41	3/4	1,443.45	3/4	1,082.59	3/4	722.34	3/4	361.39	3/4	15.48	3/4	3/4	3/4		3/4	
5	2,157.85	5	1,796.89	5	1,435.93	5	1,075.10	5	714.82	5	353.87	5		5	5	5		5	
1/4	2,150.33	1/4	1,789.37	1/4	1,428.41	1/4	1,067.60	1/4	707.30	1/4	346.35	1/4		1/4	1/4	1/4		1/4	
1/2	2,142.81	1/2	1,781.85	1/2	1,420.89	1/2	1,060.11	1/2	699.78	1/2	338.83	1/2		1/2	1/2	1/2		1/2	
3/4	2,135.29	3/4	1,774.33	3/4	1,413.37	3/4	1,052.61	3/4	692.26	3/4	331.31	3/4		3/4	3/4	3/4		3/4	
6	2,127.77	6	1,766.81	6	1,405.85	6	1,045.12	6	684.74	6	323.79	6		6	6	6		6	
1/4	2,120.25	1/4	1,759.29	1/4	1,398.33	1/4	1,037.62	1/4	677.22	1/4	316.27	1/4		1/4	1/4	1/4		1/4	
1/2	2,112.73	1/2	1,751.77	1/2	1,390.81	1/2	1,030.13	1/2	669.70	1/2	308.75	1/2		1/2	1/2	1/2		1/2	
3/4	2,105.21	3/4	1,744.25	3/4	1,383.29	3/4	1,022.63	3/4	662.18	3/4	301.23	3/4		3/4	3/4	3/4		3/4	
7	2,097.69	7	1,736.73	7	1,375.77	7	1,015.14	7	654.66	7	293.71	7		7	7	7		7	
1/4	2,090.17	1/4	1,729.21	1/4	1,368.25	1/4	1,007.64	1/4	647.14	1/4	286.19	1/4		1/4	1/4	1/4		1/4	
1/2	2,082.65	1/2	1,721.69	1/2	1,360.73	1/2	1,000.15	1/2	639.62	1/2	278.67	1/2		1/2	1/2	1/2		1/2	
3/4	2,075.13	3/4	1,714.17	3/4	1,353.21	3/4	992.65	3/4	632.10	3/4	271.16	3/4		3/4	3/4	3/4		3/4	
8	2,067.61	8	1,706.65	8	1,345.69	8	985.16	8	624.58	8	263.64	8		8	8	8		8	
1/4	2,060.09	1/4	1,699.13	1/4	1,338.17	1/4	977.66	1/4	617.06	1/4	256.12	1/4		1/4	1/4	1/4		1/4	
1/2	2,052.57	1/2	1,691.61	1/2	1,330.65	1/2	970.17	1/2	609.54	1/2	248.60	1/2		1/2	1/2	1/2		1/2	
3/4	2,045.05	3/4	1,684.09	3/4	1,323.13	3/4	962.67	3/4	602.02	3/4	241.08	3/4		3/4	3/4	3/4		3/4	
9	2,037.53	9	1,676.57	9	1,315.61	9	955.18	9	594.50	9	233.56	9		9	9	9		9	
1/4	2,030.01	1/4	1,669.05	1/4	1,308.09	1/4	947.68	1/4	586.98	1/4	226.04	1/4		1/4	1/4	1/4		1/4	
1/2	2,022.49	1/2	1,661.53	1/2	1,300.57	1/2	940.19	1/2	579.46	1/2	218.52	1/2		1/2	1/2	1/2		1/2	
3/4	2,014.97	3/4	1,654.01	3/4	1,293.05	3/4	932.69	3/4	571.94	3/4	211.00	3/4		3/4	3/4	3/4		3/4	
10	2,007.45	10	1,646.49	10	1,285.53	10	925.20	10	564.42	10	203.48	10		10	10	10		10	
1/4	1,999.93	1/4	1,638.97	1/4	1,278.01	1/4	917.70	1/4	556.90	1/4	195.96	1/4		1/4	1/4	1/4		1/4	
1/2	1,992.41	1/2	1,631.45	1/2	1,270.49	1/2	910.21	1/2	549.38	1/2	188.44	1/2		1/2	1/2	1/2		1/2	
3/4	1,984.89	3/4	1,623.93	3/4	1,262.97	3/4	902.71	3/4	541.86	3/4	180.92	3/4		3/4	3/4	3/4		3/4	
11	1,977.37	11	1,616.41	11	1,255.45	11	895.22	11	534.34	11	173.40	11		11	11	11		11	
1/4	1,969.85	1/4	1,608.89	1/4	1,247.93	1/4	887.72	1/4	526.82	1/4	165.88	1/4		1/4	1/4	1/4		1/4	
1/2	1,962.33	1/2	1,601.37	1/2	1,240.41	1/2	880.23	1/2	519.31	1/2	158.36	1/2		1/2	1/2	1/2		1/2	
3/4	1,954.81	3/4	1,593.85	3/4	1,232.89	3/4	872.73	3/4	511.79	3/4	150.84	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/14/2013 CL - SW  
CALCULATED: 02/14/2013 CL  
PRINTED: 02/14/2013 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 29053"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	4,464.81	1/4	4,208.70	1/4	3,939.66	1/4	3,658.22	1/4	3,363.06	1/4	3,007.11	1/4	2,646.97		
1/4			1/4		1/4		4,459.57		4,203.24		3,933.92		3,652.23		3,356.24		2,999.61		2,639.47		
1/2			1/2		1/2		4,454.32		4,197.79		3,928.17		3,646.24		3,349.42		2,992.11		2,631.97		
3/4			3/4		3/4		4,449.08		4,192.33		3,922.43		3,640.25		3,342.60		2,984.60		2,624.46		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,443.81</b>	<b>1</b>	<b>4,186.85</b>	<b>1</b>	<b>3,916.66</b>	<b>1</b>	<b>3,634.23</b>	<b>1</b>	<b>3,335.50</b>	<b>1</b>	<b>2,977.10</b>	<b>1</b>	<b>2,616.96</b>		
1/4		1/4		1/4		1/4	4,438.55	1/4	4,181.37	1/4	3,910.90	1/4	3,628.21	1/4	3,328.40	1/4	2,969.60	1/4	2,609.45		
1/2		1/2		1/2		1/2	4,433.29	1/2	4,175.89	1/2	3,905.14	1/2	3,622.19	1/2	3,321.30	1/2	2,962.10	1/2	2,601.95		
3/4		3/4		3/4		3/4	4,428.02	3/4	4,170.42	3/4	3,899.37	3/4	3,616.17	3/4	3,314.20	3/4	2,954.59	3/4	2,594.45		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,422.73</b>	<b>2</b>	<b>4,164.92</b>	<b>2</b>	<b>3,893.59</b>	<b>2</b>	<b>3,610.13</b>	<b>2</b>	<b>3,306.83</b>	<b>2</b>	<b>2,947.09</b>	<b>2</b>	<b>2,586.94</b>		
1/4		1/4		1/4		1/4	4,417.45	1/4	4,159.42	1/4	3,887.81	1/4	3,604.10	1/4	3,299.45	1/4	2,939.59	1/4	2,579.44		
1/2		1/2		1/2		1/2	4,412.16	1/2	4,153.92	1/2	3,882.02	1/2	3,598.06	1/2	3,292.08	1/2	2,932.09	1/2	2,571.94		
3/4		3/4		3/4		3/4	4,406.87	3/4	4,148.43	3/4	3,876.24	3/4	3,592.03	3/4	3,284.70	3/4	2,924.58	3/4	2,564.43		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,401.60</b>	<b>3</b>	<b>4,142.87</b>	<b>3</b>	<b>3,870.43</b>	<b>3</b>	<b>3,585.97</b>	<b>3</b>	<b>3,277.20</b>	<b>3</b>	<b>2,917.08</b>	<b>3</b>	<b>2,556.93</b>		
1/4		1/4		1/4		1/4	4,396.33	1/4	4,137.32	1/4	3,864.63	1/4	3,579.92	1/4	3,269.69	1/4	2,909.58	1/4	2,549.43		
1/2		1/2		1/2		1/2	4,391.06	1/2	4,131.76	1/2	3,858.82	1/2	3,573.87	1/2	3,262.19	1/2	2,902.08	1/2	2,541.92		
3/4		3/4		3/4		3/4	4,385.79	3/4	4,126.21	3/4	3,853.02	3/4	3,567.81	3/4	3,254.69	3/4	2,894.57	3/4	2,534.42		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,380.50</b>	<b>4</b>	<b>4,120.63</b>	<b>4</b>	<b>3,847.19</b>	<b>4</b>	<b>3,561.73</b>	<b>4</b>	<b>3,247.19</b>	<b>4</b>	<b>2,887.07</b>	<b>4</b>	<b>2,526.92</b>		
1/4		1/4		1/4		1/4	4,375.21	1/4	4,115.05	1/4	3,841.36	1/4	3,555.65	1/4	3,239.69	1/4	2,879.57	1/4	2,519.41		
1/2		1/2		1/2		1/2	4,369.92	1/2	4,109.48	1/2	3,835.54	1/2	3,549.57	1/2	3,232.18	1/2	2,872.07	1/2	2,511.91		
3/4		3/4		3/4		3/4	4,364.63	3/4	4,103.90	3/4	3,829.71	3/4	3,543.49	3/4	3,224.68	3/4	2,864.57	3/4	2,504.41		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,359.32</b>	<b>5</b>	<b>4,098.30</b>	<b>5</b>	<b>3,823.86</b>	<b>5</b>	<b>3,537.39</b>	<b>5</b>	<b>3,217.18</b>	<b>5</b>	<b>2,857.06</b>	<b>5</b>	<b>2,496.90</b>		
1/4		1/4		1/4		1/4	4,354.01	1/4	4,092.71	1/4	3,818.01	1/4	3,531.29	1/4	3,209.68	1/4	2,849.56	1/4	2,489.40		
1/2		1/2		1/2		1/2	4,348.69	1/2	4,087.11	1/2	3,812.16	1/2	3,525.20	1/2	3,202.17	1/2	2,842.06	1/2	2,481.90		
3/4		3/4		3/4		3/4	4,343.38	3/4	4,081.51	3/4	3,806.31	3/4	3,519.10	3/4	3,194.67	3/4	2,834.56	3/4	2,474.39		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,338.05</b>	<b>6</b>	<b>4,075.89</b>	<b>6</b>	<b>3,800.44</b>	<b>6</b>	<b>3,512.98</b>	<b>6</b>	<b>3,187.17</b>	<b>6</b>	<b>2,827.05</b>	<b>6</b>	<b>2,466.89</b>		
1/4		1/4		1/4	4,598.20	1/4	4,332.72	1/4	4,070.27	1/4	3,794.57	1/4	3,506.87	1/4	3,179.67	1/4	2,819.55	1/4	2,459.39		
1/2		1/2		1/2	4,593.61	1/2	4,327.39	1/2	4,064.64	1/2	3,788.70	1/2	3,500.75	1/2	3,172.16	1/2	2,812.05	1/2	2,451.89		
3/4		3/4		3/4	4,589.01	3/4	4,322.05	3/4	4,059.02	3/4	3,782.83	3/4	3,494.63	3/4	3,164.66	3/4	2,804.55	3/4	2,444.39		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,582.88</b>	<b>7</b>	<b>4,316.70</b>	<b>7</b>	<b>4,053.38</b>	<b>7</b>	<b>3,776.95</b>	<b>7</b>	<b>3,488.51</b>	<b>7</b>	<b>3,157.16</b>	<b>7</b>	<b>2,797.04</b>	<b>7</b>	<b>2,436.89</b>		
1/4		1/4		1/4	4,576.75	1/4	4,311.34	1/4	4,047.74	1/4	3,771.06	1/4	3,482.38	1/4	3,149.66	1/4	2,789.54	1/4	2,429.39		
1/2		1/2		1/2	4,570.63	1/2	4,305.98	1/2	4,042.10	1/2	3,765.17	1/2	3,476.26	1/2	3,142.15	1/2	2,782.04	1/2	2,421.89		
3/4		3/4		3/4	4,564.50	3/4	4,300.63	3/4	4,036.46	3/4	3,759.28	3/4	3,470.13	3/4	3,134.65	3/4	2,774.53	3/4	2,414.39		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,558.37</b>	<b>8</b>	<b>4,295.25</b>	<b>8</b>	<b>4,030.81</b>	<b>8</b>	<b>3,753.37</b>	<b>8</b>	<b>3,464.00</b>	<b>8</b>	<b>3,127.15</b>	<b>8</b>	<b>2,767.03</b>	<b>8</b>	<b>2,406.89</b>		
1/4		1/4		1/4	4,552.24	1/4	4,289.88	1/4	4,025.15	1/4	3,747.46	1/4	3,457.88	1/4	3,119.65	1/4	2,759.52	1/4	2,399.39		
1/2		1/2		1/2	4,546.12	1/2	4,284.51	1/2	4,019.49	1/2	3,741.54	1/2	3,451.75	1/2	3,112.14	1/2	2,752.02	1/2	2,391.89		
3/4		3/4		3/4	4,539.99	3/4	4,279.13	3/4	4,013.83	3/4	3,735.63	3/4	3,445.62	3/4	3,104.64	3/4	2,744.52	3/4	2,384.39		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,533.86</b>	<b>9</b>	<b>4,273.74</b>	<b>9</b>	<b>4,008.15</b>	<b>9</b>	<b>3,729.70</b>	<b>9</b>	<b>3,439.50</b>	<b>9</b>	<b>3,097.14</b>	<b>9</b>	<b>2,737.01</b>	<b>9</b>	<b>2,376.89</b>		
1/4		1/4		1/4	4,527.73	1/4	4,268.35	1/4	4,002.46	1/4	3,723.77	1/4	3,433.37	1/4	3,089.64	1/4	2,729.51	1/4	2,369.39		
1/2		1/2		1/2	4,521.61	1/2	4,262.96	1/2	3,996.78	1/2	3,717.84	1/2	3,427.25	1/2	3,082.13	1/2	2,722.01	1/2	2,361.89		
3/4		3/4		3/4	4,515.48	3/4	4,257.56	3/4	3,991.09	3/4	3,711.91	3/4	3,421.12	3/4	3,074.63	3/4	2,714.50	3/4	2,354.39		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,509.35</b>	<b>10</b>	<b>4,252.14</b>	<b>10</b>	<b>3,985.39</b>	<b>10</b>	<b>3,705.96</b>	<b>10</b>	<b>3,414.85</b>	<b>10</b>	<b>3,067.13</b>	<b>10</b>	<b>2,707.00</b>	<b>10</b>	<b>2,346.89</b>		
1/4		1/4		1/4	4,503.22	1/4	4,246.73	1/4	3,979.69	1/4	3,700.01	1/4	3,408.59	1/4	3,059.63	1/4	2,699.50	1/4	2,339.39		
1/2		1/2		1/2	4,497.10	1/2	4,241.31	1/2	3,973.99	1/2	3,694.06	1/2	3,402.32	1/2	3,052.13	1/2	2,691.99	1/2	2,331.89		
3/4		3/4		3/4	4,490.97	3/4	4,235.89	3/4	3,968.29	3/4	3,688.11	3/4	3,396.06	3/4	3,044.62	3/4	2,684.49	3/4	2,324.39		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,485.74</b>	<b>11</b>	<b>4,230.46</b>	<b>11</b>	<b>3,962.57</b>	<b>11</b>	<b>3,682.14</b>	<b>11</b>	<b>3,389.52</b>	<b>11</b>	<b>3,037.12</b>	<b>11</b>	<b>2,676.99</b>	<b>11</b>	<b>2,316.89</b>		
1/4		1/4		1/4	4,480.51	1/4	4,225.02	1/4	3,956.85	1/4	3,676.16	1/4	3,382.97	1/4	3,029.62	1/4	2,669.48	1/4	2,309.39		
1/2		1/2		1/2	4,475.29	1/2	4,219.59	1/2	3,951.13	1/2	3,670.19	1/2	3,376.43	1/2	3,022.12	1/2	2,661.98	1/2	2,301.89		
3/4		3/4		3/4	4,470.06	3/4	4,214.15	3/4	3,945.41	3/4	3,664.22	3/4	3,369.89	3/4	3,014.61	3/4	2,654.48	3/4	2,294.39		

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 44'-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 29053"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,286.89	0	1,928.06	0	1,569.62	0	1,209.54	0	856.09	0	503.43	0	143.27	0		0		0	
1/4	2,279.38	1/4	1,920.62	1/4	1,562.11	1/4	1,202.17	1/4	848.72	1/4	495.99	1/4	135.75	1/4	1/4	1/4		1/4	1/4
1/2	2,271.88	1/2	1,913.18	1/2	1,554.61	1/2	1,194.80	1/2	841.36	1/2	488.56	1/2	128.23	1/2	1/2	1/2		1/2	1/2
3/4	2,264.37	3/4	1,905.74	3/4	1,547.10	3/4	1,187.43	3/4	833.99	3/4	481.12	3/4	120.72	3/4	3/4	3/4		3/4	3/4
1	2,256.87	1	1,898.30	1	1,539.60	1	1,180.07	1	826.62	1	473.61	1	113.20	1	1	1		1	1
1/4	2,249.37	1/4	1,890.86	1/4	1,532.09	1/4	1,172.70	1/4	819.26	1/4	466.11	1/4	105.68	1/4	1/4	1/4		1/4	1/4
1/2	2,241.86	1/2	1,883.42	1/2	1,524.59	1/2	1,165.33	1/2	811.90	1/2	458.60	1/2	98.17	1/2	1/2	1/2		1/2	1/2
3/4	2,234.36	3/4	1,875.99	3/4	1,517.09	3/4	1,157.96	3/4	804.53	3/4	451.10	3/4	90.65	3/4	3/4	3/4		3/4	3/4
2	2,226.85	2	1,868.55	2	1,509.58	2	1,150.59	2	797.18	2	443.59	2	83.13	2	2	2		2	2
1/4	2,219.35	1/4	1,861.11	1/4	1,502.08	1/4	1,143.23	1/4	789.83	1/4	436.09	1/4	75.61	1/4	1/4	1/4		1/4	1/4
1/2	2,211.84	1/2	1,853.67	1/2	1,494.57	1/2	1,135.86	1/2	782.49	1/2	428.58	1/2	68.10	1/2	1/2	1/2		1/2	1/2
3/4	2,204.34	3/4	1,846.23	3/4	1,487.07	3/4	1,128.49	3/4	775.14	3/4	421.08	3/4	60.58	3/4	3/4	3/4		3/4	3/4
3	2,196.83	3	1,838.79	3	1,479.56	3	1,121.12	3	767.80	3	413.57	3	54.00	3	3	3		3	3
1/4	2,189.33	1/4	1,831.35	1/4	1,472.06	1/4	1,113.75	1/4	760.47	1/4	406.06	1/4	47.42	1/4	1/4	1/4		1/4	1/4
1/2	2,181.83	1/2	1,823.91	1/2	1,464.55	1/2	1,106.39	1/2	753.13	1/2	398.56	1/2	40.85	1/2	1/2	1/2		1/2	1/2
3/4	2,174.32	3/4	1,816.48	3/4	1,457.05	3/4	1,099.02	3/4	745.80	3/4	391.05	3/4	34.27	3/4	3/4	3/4		3/4	3/4
4	2,166.82	4	1,809.04	4	1,449.54	4	1,091.66	4	738.46	4	383.55	4	29.57	4	4	4		4	4
1/4	2,159.31	1/4	1,801.60	1/4	1,442.04	1/4	1,084.29	1/4	731.13	1/4	376.04	1/4	24.87	1/4	1/4	1/4		1/4	1/4
1/2	2,151.81	1/2	1,794.16	1/2	1,434.54	1/2	1,076.93	1/2	723.79	1/2	368.54	1/2	20.17	1/2	1/2	1/2		1/2	1/2
3/4	2,144.30	3/4	1,786.72	3/4	1,427.03	3/4	1,069.57	3/4	716.46	3/4	361.03	3/4	15.48	3/4	3/4	3/4		3/4	3/4
5	2,136.80	5	1,779.28	5	1,419.53	5	1,062.21	5	709.12	5	353.53	5		5	5	5		5	5
1/4	2,129.30	1/4	1,771.84	1/4	1,412.02	1/4	1,054.85	1/4	701.79	1/4	346.02	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,121.79	1/2	1,764.40	1/2	1,404.52	1/2	1,047.49	1/2	694.45	1/2	338.52	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,114.29	3/4	1,756.97	3/4	1,397.01	3/4	1,040.13	3/4	687.11	3/4	331.01	3/4		3/4	3/4	3/4		3/4	3/4
6	2,106.78	6	1,749.53	6	1,389.51	6	1,032.77	6	679.78	6	323.50	6		6	6	6		6	6
1/4	2,099.28	1/4	1,742.09	1/4	1,382.00	1/4	1,025.41	1/4	672.44	1/4	316.00	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,091.77	1/2	1,734.65	1/2	1,374.50	1/2	1,018.04	1/2	665.10	1/2	308.49	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,084.27	3/4	1,727.21	3/4	1,367.00	3/4	1,010.68	3/4	657.77	3/4	300.99	3/4		3/4	3/4	3/4		3/4	3/4
7	2,076.83	7	1,719.71	7	1,359.49	7	1,003.32	7	650.43	7	293.48	7		7	7	7		7	7
1/4	2,069.39	1/4	1,712.20	1/4	1,351.99	1/4	995.96	1/4	643.09	1/4	285.98	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,061.95	1/2	1,704.70	1/2	1,344.48	1/2	988.60	1/2	635.76	1/2	278.47	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,054.51	3/4	1,697.19	3/4	1,336.98	3/4	981.24	3/4	628.42	3/4	270.97	3/4		3/4	3/4	3/4		3/4	3/4
8	2,047.08	8	1,689.69	8	1,329.47	8	973.88	8	621.09	8	263.46	8		8	8	8		8	8
1/4	2,039.64	1/4	1,682.18	1/4	1,321.97	1/4	966.52	1/4	613.75	1/4	255.96	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,032.20	1/2	1,674.68	1/2	1,314.46	1/2	959.15	1/2	606.41	1/2	248.45	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,024.76	3/4	1,667.18	3/4	1,306.96	3/4	951.79	3/4	599.08	3/4	240.95	3/4		3/4	3/4	3/4		3/4	3/4
9	2,017.32	9	1,659.67	9	1,299.45	9	944.43	9	591.74	9	233.44	9		9	9	9		9	9
1/4	2,009.88	1/4	1,652.17	1/4	1,291.95	1/4	937.07	1/4	584.40	1/4	225.93	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,002.44	1/2	1,644.66	1/2	1,284.45	1/2	929.71	1/2	577.07	1/2	218.43	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,995.00	3/4	1,637.16	3/4	1,276.94	3/4	922.35	3/4	569.73	3/4	210.92	3/4		3/4	3/4	3/4		3/4	3/4
10	1,987.57	10	1,629.65	10	1,269.44	10	914.99	10	562.38	10	203.41	10		10	10	10		10	10
1/4	1,980.13	1/4	1,622.15	1/4	1,261.93	1/4	907.63	1/4	555.03	1/4	195.89	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,972.69	1/2	1,614.64	1/2	1,254.43	1/2	900.26	1/2	547.68	1/2	188.37	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,965.25	3/4	1,607.14	3/4	1,246.92	3/4	892.90	3/4	540.33	3/4	180.86	3/4		3/4	3/4	3/4		3/4	3/4
11	1,957.81	11	1,599.63	11	1,239.42	11	885.54	11	532.97	11	173.34	11		11	11	11		11	11
1/4	1,950.37	1/4	1,592.13	1/4	1,231.91	1/4	878.18	1/4	525.60	1/4	165.82	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,942.93	1/2	1,584.63	1/2	1,224.41	1/2	870.82	1/2	518.23	1/2	158.30	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,935.49	3/4	1,577.12	3/4	1,216.91	3/4	863.46	3/4	510.87	3/4	150.79	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/14/2013 CL - SW  
CALCULATED: 02/14/2013 CL  
PRINTED: 02/14/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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