



# BARGE "KIRBY 30414"

## ULLAGE TRIM TABLE

### FORMERLY "HW 3036"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

LENGTH BETWEEN DRAFT MARKS: 249'-00"

April 8, 2004

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

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 30414"

## 1 PORT ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-08 5/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,994.67	0	4,630.22	0	4,264.64	0	3,898.99	0	3,533.27	0	3,168.38
1/4		1/4		1/4		1/4		1/4	4,987.10	1/4	4,622.63	1/4	4,257.03	1/4	3,891.37	1/4	3,525.65	1/4	3,160.80
1/2		1/2		1/2		1/2		1/2	4,979.54	1/2	4,615.03	1/2	4,249.41	1/2	3,883.75	1/2	3,518.03	1/2	3,153.21
3/4		3/4		3/4		3/4		3/4	5,228.76	3/4	4,971.96	3/4	4,607.42	3/4	4,241.79	3/4	3,876.13	3/4	3,510.41
1		1		1		1		1	5,228.24	1	4,964.38	1	4,599.81	1	4,234.17	1	3,868.51	1	3,502.79
1/4		1/4		1/4		1/4		1/4	5,227.73	1/4	4,956.80	1/4	4,592.21	1/4	4,226.56	1/4	3,860.89	1/4	3,495.17
1/2		1/2		1/2		1/2		1/2	5,227.01	1/2	4,949.22	1/2	4,584.60	1/2	4,218.94	1/2	3,853.27	1/2	3,487.55
3/4		3/4		3/4		3/4		3/4	5,225.89	3/4	4,941.62	3/4	4,576.98	3/4	4,211.32	3/4	3,845.65	3/4	3,479.93
2		2		2		2		2	5,224.56	2	4,934.03	2	4,569.36	2	4,203.70	2	3,838.04	2	3,472.31
1/4		1/4		1/4		1/4		1/4	5,223.24	1/4	4,926.43	1/4	4,561.75	1/4	4,196.09	1/4	3,830.42	1/4	3,464.69
1/2		1/2		1/2		1/2		1/2	5,221.64	1/2	4,918.84	1/2	4,554.13	1/2	4,188.47	1/2	3,822.80	1/2	3,457.07
3/4		3/4		3/4		3/4		3/4	5,219.50	3/4	4,911.24	3/4	4,546.51	3/4	4,180.85	3/4	3,815.18	3/4	3,449.45
3		3		3		3		3	5,217.09	3	4,903.65	3	4,538.89	3	4,173.23	3	3,807.56	3	3,441.83
1/4		1/4		1/4		1/4		1/4	5,214.67	1/4	4,896.05	1/4	4,531.28	1/4	4,165.62	1/4	3,799.94	1/4	3,434.21
1/2		1/2		1/2		1/2		1/2	5,211.99	1/2	4,888.45	1/2	4,523.66	1/2	4,158.00	1/2	3,792.32	1/2	3,426.59
3/4		3/4		3/4		3/4		3/4	5,208.76	3/4	4,880.86	3/4	4,516.04	3/4	4,150.38	3/4	3,784.70	3/4	3,418.97
4		4		4		4		4	5,205.26	4	4,873.26	4	4,508.42	4	4,142.76	4	3,777.08	4	3,411.36
1/4		1/4		1/4		1/4		1/4	5,201.76	1/4	4,865.67	1/4	4,500.81	1/4	4,135.14	1/4	3,769.46	1/4	3,403.74
1/2		1/2		1/2		1/2		1/2	5,197.99	1/2	4,858.07	1/2	4,493.19	1/2	4,127.52	1/2	3,761.84	1/2	3,396.12
3/4		3/4		3/4		3/4		3/4	5,193.67	3/4	4,850.48	3/4	4,485.57	3/4	4,119.90	3/4	3,754.22	3/4	3,388.50
5		5		5		5		5	5,189.08	5	4,842.88	5	4,477.95	5	4,112.28	5	3,746.61	5	3,380.88
1/4		1/4		1/4		1/4		1/4	5,184.49	1/4	4,835.29	1/4	4,470.34	1/4	4,104.67	1/4	3,738.99	1/4	3,373.26
1/2		1/2		1/2		1/2		1/2	5,179.63	1/2	4,827.69	1/2	4,462.72	1/2	4,097.05	1/2	3,731.37	1/2	3,365.65
3/4		3/4		3/4		3/4		3/4	5,174.23	3/4	4,820.10	3/4	4,455.10	3/4	4,089.43	3/4	3,723.75	3/4	3,358.04
6		6		6		6		6	5,168.57	6	4,812.50	6	4,447.48	6	4,081.82	6	3,716.13	6	3,350.45
1/4		1/4		1/4		1/4		1/4	5,162.90	1/4	4,804.91	1/4	4,439.86	1/4	4,074.20	1/4	3,708.51	1/4	3,342.85
1/2		1/2		1/2		1/2		1/2	5,156.96	1/2	4,797.31	1/2	4,432.24	1/2	4,066.58	1/2	3,700.89	1/2	3,335.26
3/4		3/4		3/4		3/4		3/4	5,150.48	3/4	4,789.72	3/4	4,424.62	3/4	4,058.96	3/4	3,693.27	3/4	3,327.67
7		7		7		7		7	5,143.74	7	4,782.12	7	4,417.00	7	4,051.34	7	3,685.65	7	3,320.09
1/4		1/4		1/4		1/4		1/4	5,136.99	1/4	4,774.53	1/4	4,409.39	1/4	4,043.73	1/4	3,678.03	1/4	3,312.50
1/2		1/2		1/2		1/2		1/2	5,130.07	1/2	4,766.93	1/2	4,401.77	1/2	4,036.11	1/2	3,670.41	1/2	3,304.92
3/4		3/4		3/4		3/4		3/4	5,122.81	3/4	4,759.34	3/4	4,394.15	3/4	4,028.49	3/4	3,662.79	3/4	3,297.33
8		8		8		8		8	5,115.39	8	4,751.74	8	4,386.53	8	4,020.88	8	3,655.17	8	3,289.75
1/4		1/4		1/4		1/4		1/4	5,107.96	1/4	4,744.15	1/4	4,378.92	1/4	4,013.26	1/4	3,647.55	1/4	3,282.16
1/2		1/2		1/2		1/2		1/2	5,100.51	1/2	4,736.55	1/2	4,371.30	1/2	4,005.64	1/2	3,639.93	1/2	3,274.58
3/4		3/4		3/4		3/4		3/4	5,092.98	3/4	4,728.96	3/4	4,363.68	3/4	3,998.02	3/4	3,632.31	3/4	3,266.99
9		9		9		9		9	5,085.42	9	4,721.36	9	4,356.06	9	3,990.40	9	3,624.70	9	3,259.41
1/4		1/4		1/4		1/4		1/4	5,077.85	1/4	4,713.77	1/4	4,348.45	1/4	3,982.78	1/4	3,617.08	1/4	3,251.82
1/2		1/2		1/2		1/2		1/2	5,070.29	1/2	4,706.17	1/2	4,340.83	1/2	3,975.16	1/2	3,609.46	1/2	3,244.24
3/4		3/4		3/4		3/4		3/4	5,062.73	3/4	4,698.58	3/4	4,333.21	3/4	3,967.54	3/4	3,601.84	3/4	3,236.65
10		10		10		10		10	5,055.17	10	4,690.98	10	4,325.59	10	3,959.92	10	3,594.22	10	3,229.07
1/4		1/4		1/4		1/4		1/4	5,047.60	1/4	4,683.39	1/4	4,317.98	1/4	3,952.31	1/4	3,586.60	1/4	3,221.48
1/2		1/2		1/2		1/2		1/2	5,040.04	1/2	4,675.79	1/2	4,310.36	1/2	3,944.69	1/2	3,578.98	1/2	3,213.89
3/4		3/4		3/4		3/4		3/4	5,032.48	3/4	4,668.20	3/4	4,302.74	3/4	3,937.07	3/4	3,571.36	3/4	3,206.31
11		11		11		11		11	5,024.92	11	4,660.60	11	4,295.12	11	3,929.46	11	3,563.74	11	3,198.72
1/4		1/4		1/4		1/4		1/4	5,017.35	1/4	4,653.01	1/4	4,287.50	1/4	3,921.84	1/4	3,556.12	1/4	3,191.14
1/2		1/2		1/2		1/2		1/2	5,009.79	1/2	4,645.41	1/2	4,279.88	1/2	3,914.22	1/2	3,548.50	1/2	3,183.55
3/4		3/4		3/4		3/4		3/4	5,002.23	3/4	4,637.82	3/4	4,272.26	3/4	3,906.60	3/4	3,540.88	3/4	3,175.97

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-11 1/2" OFF CENTERLINE AND 43'-01" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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# BARGE "KIRBY 30414"

## 1 PORT ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-08 5/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,804.27	0	2,440.08	0	2,075.84	0	1,711.60	0	1,347.37	0	983.13	0	618.92	0	255.98	0		0	
1/4	2,796.68	1/4	2,432.49	1/4	2,068.25	1/4	1,704.02	1/4	1,339.78	1/4	975.54	1/4	611.33	1/4	248.53	1/4		1/4	
1/2	2,789.09	1/2	2,424.90	1/2	2,060.66	1/2	1,696.43	1/2	1,332.19	1/2	967.95	1/2	603.75	1/2	241.09	1/2		1/2	
3/4	2,781.51	3/4	2,417.31	3/4	2,053.07	3/4	1,688.84	3/4	1,324.60	3/4	960.36	3/4	596.17	3/4	233.69	3/4		3/4	
1	2,773.92	1	2,409.72	1	2,045.48	1	1,681.26	1	1,317.02	1	952.78	1	588.59	1	226.30	1		1	
1/4	2,766.34	1/4	2,402.13	1/4	2,037.90	1/4	1,673.67	1/4	1,309.43	1/4	945.19	1/4	581.01	1/4	218.91	1/4		1/4	
1/2	2,758.75	1/2	2,394.54	1/2	2,030.31	1/2	1,666.08	1/2	1,301.84	1/2	937.60	1/2	573.43	1/2	211.54	1/2		1/2	
3/4	2,751.17	3/4	2,386.95	3/4	2,022.72	3/4	1,658.49	3/4	1,294.25	3/4	930.01	3/4	565.85	3/4	204.21	3/4		3/4	
2	2,743.58	2	2,379.36	2	2,015.14	2	1,650.90	2	1,286.67	2	922.42	2	558.27	2	196.90	2		2	
1/4	2,736.00	1/4	2,371.78	1/4	2,007.55	1/4	1,643.31	1/4	1,279.08	1/4	914.84	1/4	550.69	1/4	189.58	1/4		1/4	
1/2	2,728.41	1/2	2,364.19	1/2	1,999.96	1/2	1,635.72	1/2	1,271.49	1/2	907.25	1/2	543.11	1/2	182.28	1/2		1/2	
3/4	2,720.83	3/4	2,356.60	3/4	1,992.37	3/4	1,628.13	3/4	1,263.90	3/4	899.66	3/4	535.53	3/4	175.01	3/4		3/4	
3	2,713.24	3	2,349.02	3	1,984.79	3	1,620.54	3	1,256.31	3	892.08	3	527.95	3	167.75	3		3	
1/4	2,705.66	1/4	2,341.43	1/4	1,977.20	1/4	1,612.96	1/4	1,248.72	1/4	884.49	1/4	520.36	1/4	160.48	1/4		1/4	
1/2	2,698.07	1/2	2,333.84	1/2	1,969.61	1/2	1,605.37	1/2	1,241.13	1/2	876.90	1/2	512.78	1/2	153.23	1/2		1/2	
3/4	2,690.48	3/4	2,326.25	3/4	1,962.02	3/4	1,597.78	3/4	1,233.54	3/4	869.31	3/4	505.20	3/4	146.00	3/4		3/4	
4	2,682.90	4	2,318.67	4	1,954.43	4	1,590.20	4	1,225.96	4	861.72	4	497.62	4	138.79	4		4	
1/4	2,675.31	1/4	2,311.08	1/4	1,946.84	1/4	1,582.61	1/4	1,218.37	1/4	854.13	1/4	490.04	1/4	131.57	1/4		1/4	
1/2	2,667.72	1/2	2,303.49	1/2	1,939.25	1/2	1,575.02	1/2	1,210.78	1/2	846.54	1/2	482.46	1/2	124.37	1/2		1/2	
3/4	2,660.13	3/4	2,295.90	3/4	1,931.66	3/4	1,567.43	3/4	1,203.19	3/4	838.95	3/4	474.88	3/4	117.19	3/4		3/4	
5	2,652.55	5	2,288.31	5	1,924.08	5	1,559.85	5	1,195.61	5	831.36	5	467.30	5	110.03	5		5	
1/4	2,644.96	1/4	2,280.72	1/4	1,916.49	1/4	1,552.26	1/4	1,188.02	1/4	823.78	1/4	459.72	1/4	102.86	1/4		1/4	
1/2	2,637.37	1/2	2,273.13	1/2	1,908.90	1/2	1,544.67	1/2	1,180.43	1/2	816.19	1/2	452.14	1/2	95.71	1/2		1/2	
3/4	2,629.78	3/4	2,265.54	3/4	1,901.31	3/4	1,537.08	3/4	1,172.84	3/4	808.60	3/4	444.56	3/4	88.59	3/4		3/4	
6	2,622.19	6	2,257.96	6	1,893.73	6	1,529.49	6	1,165.25	6	801.02	6	436.98	6	81.48	6		6	
1/4	2,614.60	1/4	2,250.37	1/4	1,886.14	1/4	1,521.90	1/4	1,157.66	1/4	793.43	1/4	429.40	1/4	74.36	1/4		1/4	
1/2	2,607.01	1/2	2,242.78	1/2	1,878.55	1/2	1,514.31	1/2	1,150.07	1/2	785.84	1/2	421.82	1/2	67.36	1/2		1/2	
3/4	2,599.42	3/4	2,235.19	3/4	1,870.96	3/4	1,506.72	3/4	1,142.48	3/4	778.25	3/4	414.24	3/4	60.59	3/4		3/4	
7	2,591.84	7	2,227.61	7	1,863.37	7	1,499.14	7	1,134.90	7	770.66	7	406.66	7	53.93	7		7	
1/4	2,584.25	1/4	2,220.02	1/4	1,855.78	1/4	1,491.55	1/4	1,127.31	1/4	763.07	1/4	399.08	1/4	47.26	1/4		1/4	
1/2	2,576.66	1/2	2,212.43	1/2	1,848.19	1/2	1,483.96	1/2	1,119.72	1/2	755.48	1/2	391.50	1/2	41.03	1/2		1/2	
3/4	2,569.07	3/4	2,204.84	3/4	1,840.60	3/4	1,476.37	3/4	1,112.13	3/4	747.89	3/4	383.93	3/4	35.65	3/4		3/4	
8	2,561.48	8	2,197.25	8	1,833.02	8	1,468.79	8	1,104.55	8	740.30	8	376.36	8	30.69	8		8	
1/4	2,553.90	1/4	2,189.66	1/4	1,825.43	1/4	1,461.20	1/4	1,096.96	1/4	732.72	1/4	368.78	1/4	25.74	1/4		1/4	
1/2	2,546.31	1/2	2,182.07	1/2	1,817.84	1/2	1,453.61	1/2	1,089.37	1/2	725.13	1/2	361.21	1/2	20.79	1/2		1/2	
3/4	2,538.72	3/4	2,174.48	3/4	1,810.25	3/4	1,446.02	3/4	1,081.78	3/4	717.54	3/4	353.65	3/4	18.31	3/4		3/4	
9	2,531.14	9	2,166.90	9	1,802.66	9	1,438.43	9	1,074.19	9	709.96	9	346.10	9		9		9	
1/4	2,523.55	1/4	2,159.31	1/4	1,795.08	1/4	1,430.84	1/4	1,066.60	1/4	702.37	1/4	338.54	1/4		1/4		1/4	
1/2	2,515.96	1/2	2,151.72	1/2	1,787.49	1/2	1,423.25	1/2	1,059.01	1/2	694.78	1/2	330.99	1/2		1/2		1/2	
3/4	2,508.37	3/4	2,144.13	3/4	1,779.90	3/4	1,415.66	3/4	1,051.42	3/4	687.19	3/4	323.44	3/4		3/4		3/4	
10	2,500.78	10	2,136.54	10	1,772.32	10	1,408.08	10	1,043.84	10	679.60	10	315.91	10		10		10	
1/4	2,493.19	1/4	2,128.96	1/4	1,764.73	1/4	1,400.49	1/4	1,036.25	1/4	672.01	1/4	308.37	1/4		1/4		1/4	
1/2	2,485.60	1/2	2,121.37	1/2	1,757.14	1/2	1,392.90	1/2	1,028.66	1/2	664.42	1/2	300.85	1/2		1/2		1/2	
3/4	2,478.01	3/4	2,113.78	3/4	1,749.55	3/4	1,385.31	3/4	1,021.07	3/4	656.83	3/4	293.35	3/4		3/4		3/4	
11	2,470.42	11	2,106.20	11	1,741.96	11	1,377.73	11	1,013.49	11	649.25	11	285.86	11		11		11	
1/4	2,462.84	1/4	2,098.61	1/4	1,734.37	1/4	1,370.14	1/4	1,005.90	1/4	641.66	1/4	278.36	1/4		1/4		1/4	
1/2	2,455.25	1/2	2,091.02	1/2	1,726.78	1/2	1,362.55	1/2	998.31	1/2	634.08	1/2	270.88	1/2		1/2		1/2	
3/4	2,447.66	3/4	2,083.43	3/4	1,719.19	3/4	1,354.96	3/4	990.72	3/4	626.50	3/4	263.42	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/1994 SI  
REPRINTED: 05/10/2004 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2004

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "KIRBY 30414"

## 1 STBD ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-09 1/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	5,010.54	0	4,646.13	0	4,280.58	0	3,914.90	0	3,549.21	0	3,184.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,002.98	1/4	4,638.54	1/4	4,272.96	1/4	3,907.28	1/4	3,541.59	1/4	3,176.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,995.42	1/2	4,630.94	1/2	4,265.35	1/2	3,899.66	1/2	3,533.97	1/2	3,169.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,987.85	3/4	4,623.35	3/4	4,257.73	3/4	3,892.04	3/4	3,526.35	3/4	3,161.54
1	1	1	1	1	1	1	1	1	4,980.29	1	4,615.75	1	4,250.11	1	3,884.42	1	3,518.73	1	3,153.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,229.54	1/4	4,972.71	1/4	4,608.14	1/4	4,242.49	1/4	3,876.80	1/4	3,511.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,229.02	1/2	4,965.13	1/2	4,600.54	1/2	4,234.87	1/2	3,869.19	1/2	3,503.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,228.50	3/4	4,957.55	3/4	4,592.93	3/4	4,227.25	3/4	3,861.57	3/4	3,495.88
2	2	2	2	2	2	2	2	2	5,227.78	2	4,949.97	2	4,585.32	2	4,219.63	2	3,853.95	2	3,488.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,226.66	1/4	4,942.37	1/4	4,577.70	1/4	4,212.01	1/4	3,846.33	1/4	3,480.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,225.33	1/2	4,934.78	1/2	4,570.08	1/2	4,204.40	1/2	3,838.72	1/2	3,473.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,224.01	3/4	4,927.18	3/4	4,562.46	3/4	4,196.78	3/4	3,831.10	3/4	3,465.40
3	3	3	3	3	3	3	3	3	5,222.41	3	4,919.58	3	4,554.84	3	4,189.16	3	3,823.48	3	3,457.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,220.27	1/4	4,911.98	1/4	4,547.22	1/4	4,181.54	1/4	3,815.86	1/4	3,450.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,217.86	1/2	4,904.39	1/2	4,539.61	1/2	4,173.93	1/2	3,808.24	1/2	3,442.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,215.44	3/4	4,896.79	3/4	4,531.99	3/4	4,166.31	3/4	3,800.62	3/4	3,434.93
4	4	4	4	4	4	4	4	4	5,212.76	4	4,889.19	4	4,524.37	4	4,158.69	4	3,793.00	4	3,427.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,209.53	1/4	4,881.60	1/4	4,516.75	1/4	4,151.07	1/4	3,785.38	1/4	3,419.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,206.03	1/2	4,874.00	1/2	4,509.14	1/2	4,143.45	1/2	3,777.77	1/2	3,412.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,202.52	3/4	4,866.41	3/4	4,501.52	3/4	4,135.83	3/4	3,770.15	3/4	3,404.45
5	5	5	5	5	5	5	5	5	5,198.75	5	4,858.81	5	4,493.90	5	4,128.21	5	3,762.53	5	3,396.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,194.43	1/4	4,851.21	1/4	4,486.28	1/4	4,120.59	1/4	3,754.91	1/4	3,389.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,189.84	1/2	4,843.62	1/2	4,478.66	1/2	4,112.98	1/2	3,747.29	1/2	3,381.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,185.25	3/4	4,836.02	3/4	4,471.04	3/4	4,105.36	3/4	3,739.67	3/4	3,373.98
6	6	6	6	6	6	6	6	6	5,180.38	6	4,828.42	6	4,463.42	6	4,097.74	6	3,732.05	6	3,366.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,174.95	1/4	4,820.83	1/4	4,455.80	1/4	4,090.12	1/4	3,724.43	1/4	3,358.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,169.23	1/2	4,813.23	1/2	4,448.19	1/2	4,082.51	1/2	3,716.82	1/2	3,351.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,163.52	3/4	4,805.64	3/4	4,440.57	3/4	4,074.89	3/4	3,709.20	3/4	3,343.58
7	7	7	7	7	7	7	7	7	5,157.55	7	4,798.04	7	4,432.95	7	4,067.27	7	3,701.58	7	3,335.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,151.10	1/4	4,790.45	1/4	4,425.33	1/4	4,059.65	1/4	3,693.96	1/4	3,328.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,144.40	1/2	4,782.85	1/2	4,417.72	1/2	4,052.03	1/2	3,686.34	1/2	3,320.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,137.70	3/4	4,775.26	3/4	4,410.10	3/4	4,044.41	3/4	3,678.72	3/4	3,313.24
8	8	8	8	8	8	8	8	8	5,130.82	8	4,767.66	8	4,402.48	8	4,036.79	8	3,671.10	8	3,305.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,123.57	1/4	4,760.07	1/4	4,394.86	1/4	4,029.17	1/4	3,663.48	1/4	3,298.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,116.15	1/2	4,752.47	1/2	4,387.24	1/2	4,021.56	1/2	3,655.87	1/2	3,290.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,108.72	3/4	4,744.88	3/4	4,379.62	3/4	4,013.94	3/4	3,648.25	3/4	3,282.90
9	9	9	9	9	9	9	9	9	5,101.26	9	4,737.28	9	4,372.00	9	4,006.32	9	3,640.63	9	3,275.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,093.73	1/4	4,729.69	1/4	4,364.38	1/4	3,998.70	1/4	3,633.01	1/4	3,267.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,086.17	1/2	4,722.09	1/2	4,356.77	1/2	3,991.09	1/2	3,625.39	1/2	3,260.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,078.60	3/4	4,714.50	3/4	4,349.15	3/4	3,983.47	3/4	3,617.77	3/4	3,252.56
10	10	10	10	10	10	10	10	10	5,071.04	10	4,706.90	10	4,341.53	10	3,975.85	10	3,610.15	10	3,244.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,063.48	1/4	4,699.30	1/4	4,333.91	1/4	3,968.23	1/4	3,602.53	1/4	3,237.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,055.92	1/2	4,691.71	1/2	4,326.29	1/2	3,960.61	1/2	3,594.92	1/2	3,229.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,048.35	3/4	4,684.11	3/4	4,318.67	3/4	3,952.99	3/4	3,587.30	3/4	3,222.22
11	11	11	11	11	11	11	11	11	5,040.79	11	4,676.51	11	4,311.05	11	3,945.37	11	3,579.68	11	3,214.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,033.23	1/4	4,668.92	1/4	4,303.43	1/4	3,937.75	1/4	3,572.06	1/4	3,207.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,025.67	1/2	4,661.32	1/2	4,295.82	1/2	3,930.14	1/2	3,564.45	1/2	3,199.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,018.10	3/4	4,653.73	3/4	4,288.20	3/4	3,922.52	3/4	3,556.83	3/4	3,191.88

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-05" 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 30414"

# 1 STBD ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-09 1/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,820.21	0	2,456.06	0	2,091.87	0	1,727.67	0	1,363.48	0	999.28	0	635.08	0	271.57	0		0	
1/4	2,812.63	1/4	2,448.48	1/4	2,084.28	1/4	1,720.08	1/4	1,355.89	1/4	991.69	1/4	627.49	1/4	264.11	1/4		1/4	
1/2	2,805.04	1/2	2,440.89	1/2	2,076.70	1/2	1,712.50	1/2	1,348.31	1/2	984.11	1/2	619.91	1/2	256.67	1/2		1/2	
3/4	2,797.46	3/4	2,433.31	3/4	2,069.11	3/4	1,704.91	3/4	1,340.72	3/4	976.52	3/4	612.32	3/4	249.22	3/4		3/4	
1	2,789.87	1	2,425.72	1	2,061.52	1	1,697.32	1	1,333.13	1	968.93	1	604.73	1	241.78	1		1	
1/4	2,782.29	1/4	2,418.13	1/4	2,053.93	1/4	1,689.74	1/4	1,325.54	1/4	961.34	1/4	597.14	1/4	234.37	1/4		1/4	
1/2	2,774.70	1/2	2,410.55	1/2	2,046.35	1/2	1,682.15	1/2	1,317.96	1/2	953.76	1/2	589.56	1/2	226.98	1/2		1/2	
3/4	2,767.12	3/4	2,402.96	3/4	2,038.76	3/4	1,674.57	3/4	1,310.37	3/4	946.17	3/4	581.97	3/4	219.58	3/4		3/4	
2	2,759.53	2	2,395.37	2	2,031.17	2	1,666.98	2	1,302.78	2	938.58	2	574.38	2	212.19	2		2	
1/4	2,751.95	1/4	2,387.78	1/4	2,023.58	1/4	1,659.39	1/4	1,295.19	1/4	930.99	1/4	566.79	1/4	204.83	1/4		1/4	
1/2	2,744.37	1/2	2,380.20	1/2	2,016.00	1/2	1,651.81	1/2	1,287.61	1/2	923.41	1/2	559.21	1/2	197.49	1/2		1/2	
3/4	2,736.78	3/4	2,372.61	3/4	2,008.41	3/4	1,644.22	3/4	1,280.02	3/4	915.82	3/4	551.62	3/4	190.14	3/4		3/4	
3	2,729.20	3	2,365.02	3	2,000.82	3	1,636.63	3	1,272.43	3	908.23	3	544.03	3	182.80	3		3	
1/4	2,721.62	1/4	2,357.43	1/4	1,993.23	1/4	1,629.04	1/4	1,264.84	1/4	900.64	1/4	536.44	1/4	175.49	1/4		1/4	
1/2	2,714.03	1/2	2,349.85	1/2	1,985.65	1/2	1,621.46	1/2	1,257.26	1/2	893.06	1/2	528.86	1/2	168.20	1/2		1/2	
3/4	2,706.45	3/4	2,342.26	3/4	1,978.06	3/4	1,613.87	3/4	1,249.67	3/4	885.47	3/4	521.27	3/4	160.90	3/4		3/4	
4	2,698.86	4	2,334.67	4	1,970.47	4	1,606.28	4	1,242.08	4	877.88	4	513.68	4	153.61	4		4	
1/4	2,691.27	1/4	2,327.08	1/4	1,962.88	1/4	1,598.69	1/4	1,234.49	1/4	870.29	1/4	506.09	1/4	146.35	1/4		1/4	
1/2	2,683.69	1/2	2,319.50	1/2	1,955.30	1/2	1,591.11	1/2	1,226.91	1/2	862.71	1/2	498.51	1/2	139.11	1/2		1/2	
3/4	2,676.10	3/4	2,311.91	3/4	1,947.71	3/4	1,583.52	3/4	1,219.32	3/4	855.12	3/4	490.92	3/4	131.86	3/4		3/4	
5	2,668.51	5	2,304.32	5	1,940.12	5	1,575.93	5	1,211.73	5	847.53	5	483.33	5	124.62	5		5	
1/4	2,660.92	1/4	2,296.73	1/4	1,932.53	1/4	1,568.34	1/4	1,204.14	1/4	839.94	1/4	475.74	1/4	117.41	1/4		1/4	
1/2	2,653.34	1/2	2,289.15	1/2	1,924.95	1/2	1,560.76	1/2	1,196.56	1/2	832.36	1/2	468.16	1/2	110.22	1/2		1/2	
3/4	2,645.75	3/4	2,281.56	3/4	1,917.36	3/4	1,553.17	3/4	1,188.97	3/4	824.77	3/4	460.57	3/4	103.02	3/4		3/4	
6	2,638.16	6	2,273.97	6	1,909.77	6	1,545.58	6	1,181.38	6	817.18	6	452.98	6	95.83	6		6	
1/4	2,630.57	1/4	2,266.38	1/4	1,902.18	1/4	1,537.99	1/4	1,173.79	1/4	809.59	1/4	445.39	1/4	88.67	1/4		1/4	
1/2	2,622.99	1/2	2,258.80	1/2	1,894.60	1/2	1,530.41	1/2	1,166.21	1/2	802.01	1/2	437.81	1/2	81.52	1/2		1/2	
3/4	2,615.40	3/4	2,251.21	3/4	1,887.01	3/4	1,522.82	3/4	1,158.62	3/4	794.42	3/4	430.22	3/4	74.37	3/4		3/4	
7	2,607.81	7	2,243.62	7	1,879.42	7	1,515.23	7	1,151.03	7	786.83	7	422.63	7	67.34	7		7	
1/4	2,600.22	1/4	2,236.03	1/4	1,871.83	1/4	1,507.64	1/4	1,143.44	1/4	779.24	1/4	415.04	1/4	60.53	1/4		1/4	
1/2	2,592.64	1/2	2,228.45	1/2	1,864.25	1/2	1,500.06	1/2	1,135.86	1/2	771.66	1/2	407.46	1/2	53.85	1/2		1/2	
3/4	2,585.05	3/4	2,220.86	3/4	1,856.66	3/4	1,492.47	3/4	1,128.27	3/4	764.07	3/4	399.87	3/4	47.16	3/4		3/4	
8	2,577.46	8	2,213.27	8	1,849.07	8	1,484.88	8	1,120.68	8	756.48	8	392.28	8	40.90	8		8	
1/4	2,569.87	1/4	2,205.68	1/4	1,841.48	1/4	1,477.29	1/4	1,113.09	1/4	748.89	1/4	384.70	1/4	35.52	1/4		1/4	
1/2	2,562.29	1/2	2,198.10	1/2	1,833.90	1/2	1,469.71	1/2	1,105.51	1/2	741.31	1/2	377.12	1/2	30.56	1/2		1/2	
3/4	2,554.70	3/4	2,190.51	3/4	1,826.31	3/4	1,462.12	3/4	1,097.92	3/4	733.72	3/4	369.54	3/4	25.61	3/4		3/4	
9	2,547.11	9	2,182.92	9	1,818.72	9	1,454.53	9	1,090.33	9	726.13	9	361.96	9	20.66	9		9	
1/4	2,539.52	1/4	2,175.33	1/4	1,811.13	1/4	1,446.94	1/4	1,082.74	1/4	718.54	1/4	354.40	1/8	18.18	1/4		1/4	
1/2	2,531.94	1/2	2,167.75	1/2	1,803.55	1/2	1,439.36	1/2	1,075.16	1/2	710.96	1/2	346.83	1/2		1/2		1/2	
3/4	2,524.35	3/4	2,160.16	3/4	1,795.96	3/4	1,431.77	3/4	1,067.57	3/4	703.37	3/4	339.27	3/4		3/4		3/4	
10	2,516.76	10	2,152.57	10	1,788.37	10	1,424.18	10	1,059.98	10	695.78	10	331.71	10		10		10	
1/4	2,509.17	1/4	2,144.98	1/4	1,780.78	1/4	1,416.59	1/4	1,052.39	1/4	688.19	1/4	324.16	1/4		1/4		1/4	
1/2	2,501.59	1/2	2,137.40	1/2	1,773.20	1/2	1,409.01	1/2	1,044.81	1/2	680.61	1/2	316.62	1/2		1/2		1/2	
3/4	2,494.00	3/4	2,129.81	3/4	1,765.61	3/4	1,401.42	3/4	1,037.22	3/4	673.02	3/4	309.08	3/4		3/4		3/4	
11	2,486.41	11	2,122.22	11	1,758.02	11	1,393.83	11	1,029.63	11	665.43	11	301.55	11		11		11	
1/4	2,478.82	1/4	2,114.63	1/4	1,750.43	1/4	1,386.24	1/4	1,022.04	1/4	657.84	1/4	294.05	1/4		1/4		1/4	
1/2	2,471.24	1/2	2,107.05	1/2	1,742.85	1/2	1,378.66	1/2	1,014.46	1/2	650.26	1/2	286.55	1/2		1/2		1/2	
3/4	2,463.65	3/4	2,099.46	3/4	1,735.26	3/4	1,371.07	3/4	1,006.87	3/4	642.67	3/4	279.06	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/1994 SI  
REPRINTED: 05/10/2004 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2004

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



# BARGE "KIRBY 30414"

## 2 PORT ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-08 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		IN	
0		0		0		0		0		0		0		0		0		0		0	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
1		1		1		1		1		1		1		1		1		1		1	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
2		2		2		2		2		2		2		2		2		2		2	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
3		3		3		3		3		3		3		3		3		3		3	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
4		4		4		4		4		4		4		4		4		4		4	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
5		5		5		5		5		5		5		5		5		5		5	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
6		6		6		6		6		6		6		6		6		6		6	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
7		7		7		7		7		7		7		7		7		7		7	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
8		8		8		8		8		8		8		8		8		8		8	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
9		9		9		9		9		9		9		9		9		9		9	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
10		10		10		10		10		10		10		10		10		10		10	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
11		11		11		11		11		11		11		11		11		11		11	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-11 1/2" OFF CENTERLINE AND 43'-10" 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 30414"

## 2 PORT ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-08 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	2,789.00	0	2,428.20	0	2,067.36	0	1,706.51	0	1,345.69	0	984.85	0	626.33	0	278.07	0		0	
1/4	2,781.48	1/4	2,420.69	1/4	2,059.85	1/4	1,699.00	1/4	1,338.18	1/4	977.34	1/4	619.13	1/4	270.55	1/4		1/4	
1/2	2,773.97	1/2	2,413.17	1/2	2,052.33	1/2	1,691.49	1/2	1,330.66	1/2	969.82	1/2	611.92	1/2	263.04	1/2		1/2	
3/4	2,766.45	3/4	2,405.65	3/4	2,044.81	3/4	1,683.98	3/4	1,323.14	3/4	962.30	3/4	604.71	3/4	255.52	3/4		3/4	
1	2,758.94	1	2,398.13	1	2,037.29	1	1,676.46	1	1,315.62	1	954.78	1	597.51	1	248.01	1		1	
1/4	2,751.42	1/4	2,390.62	1/4	2,029.78	1/4	1,668.95	1/4	1,308.11	1/4	947.27	1/4	590.30	1/4	240.50	1/4		1/4	
1/2	2,743.91	1/2	2,383.10	1/2	2,022.26	1/2	1,661.43	1/2	1,300.59	1/2	939.75	1/2	583.10	1/2	232.98	1/2		1/2	
3/4	2,736.39	3/4	2,375.58	3/4	2,014.74	3/4	1,653.91	3/4	1,293.07	3/4	932.23	3/4	575.89	3/4	225.47	3/4		3/4	
2	2,728.88	2	2,368.06	2	2,007.22	2	1,646.39	2	1,285.55	2	924.71	2	568.68	2	217.96	2		2	
1/4	2,721.36	1/4	2,360.55	1/4	1,999.71	1/4	1,638.88	1/4	1,278.04	1/4	917.20	1/4	561.48	1/4	210.44	1/4		1/4	
1/2	2,713.85	1/2	2,353.03	1/2	1,992.19	1/2	1,631.36	1/2	1,270.52	1/2	909.68	1/2	554.27	1/2	202.93	1/2		1/2	
3/4	2,706.33	3/4	2,345.51	3/4	1,984.67	3/4	1,623.84	3/4	1,263.00	3/4	902.16	3/4	547.06	3/4	195.41	3/4		3/4	
3	2,698.82	3	2,337.99	3	1,977.15	3	1,616.32	3	1,255.48	3	894.64	3	539.85	3	187.90	3		3	
1/4	2,691.30	1/4	2,330.48	1/4	1,969.64	1/4	1,608.81	1/4	1,247.97	1/4	887.13	1/4	532.65	1/4	180.39	1/4		1/4	
1/2	2,683.79	1/2	2,322.96	1/2	1,962.12	1/2	1,601.29	1/2	1,240.45	1/2	879.61	1/2	525.44	1/2	172.87	1/2		1/2	
3/4	2,676.27	3/4	2,315.44	3/4	1,954.60	3/4	1,593.77	3/4	1,232.93	3/4	872.09	3/4	518.23	3/4	165.36	3/4		3/4	
4	2,668.75	4	2,307.92	4	1,947.08	4	1,586.25	4	1,225.41	4	864.57	4	511.02	4	157.85	4		4	
1/4	2,661.24	1/4	2,300.41	1/4	1,939.57	1/4	1,578.74	1/4	1,217.90	1/4	857.06	1/4	503.82	1/4	150.33	1/4		1/4	
1/2	2,653.72	1/2	2,292.89	1/2	1,932.05	1/2	1,571.22	1/2	1,210.38	1/2	849.54	1/2	496.61	1/2	142.82	1/2		1/2	
3/4	2,646.20	3/4	2,285.37	3/4	1,924.53	3/4	1,563.70	3/4	1,202.86	3/4	842.02	3/4	489.40	3/4	135.30	3/4		3/4	
5	2,638.68	5	2,277.85	5	1,917.01	5	1,556.18	5	1,195.34	5	834.50	5	482.19	5	127.79	5		5	
1/4	2,631.17	1/4	2,270.34	1/4	1,909.50	1/4	1,548.67	1/4	1,187.83	1/4	826.99	1/4	474.99	1/4	120.27	1/4		1/4	
1/2	2,623.65	1/2	2,262.82	1/2	1,901.98	1/2	1,541.15	1/2	1,180.31	1/2	819.47	1/2	467.78	1/2	112.76	1/2		1/2	
3/4	2,616.13	3/4	2,255.30	3/4	1,894.46	3/4	1,533.63	3/4	1,172.79	3/4	811.95	3/4	460.57	3/4	105.24	3/4		3/4	
6	2,608.61	6	2,247.78	6	1,886.94	6	1,526.11	6	1,165.27	6	804.43	6	453.36	6	97.73	6		6	
1/4	2,601.10	1/4	2,240.27	1/4	1,879.43	1/4	1,518.60	1/4	1,157.76	1/4	796.92	1/4	446.16	1/4	90.21	1/4		1/4	
1/2	2,593.58	1/2	2,232.75	1/2	1,871.91	1/2	1,511.08	1/2	1,150.24	1/2	789.40	1/2	438.95	1/2	82.70	1/2		1/2	
3/4	2,586.06	3/4	2,225.23	3/4	1,864.39	3/4	1,503.56	3/4	1,142.72	3/4	781.88	3/4	431.74	3/4	75.18	3/4		3/4	
7	2,578.54	7	2,217.71	7	1,856.87	7	1,496.04	7	1,135.20	7	774.36	7	424.53	7	67.95	7		7	
1/4	2,571.03	1/4	2,210.20	1/4	1,849.36	1/4	1,488.53	1/4	1,127.69	1/4	766.85	1/4	417.33	1/4	60.72	1/4		1/4	
1/2	2,563.51	1/2	2,202.68	1/2	1,841.84	1/2	1,481.01	1/2	1,120.17	1/2	759.33	1/2	410.12	1/2	53.48	1/2		1/2	
3/4	2,555.99	3/4	2,195.16	3/4	1,834.32	3/4	1,473.49	3/4	1,112.65	3/4	751.81	3/4	402.91	3/4	46.25	3/4		3/4	
8	2,548.47	8	2,187.64	8	1,826.80	8	1,465.97	8	1,105.13	8	744.29	8	395.70	8	40.59	8		8	
1/4	2,540.96	1/4	2,180.13	1/4	1,819.29	1/4	1,458.46	1/4	1,097.62	1/4	736.78	1/4	388.50	1/4	34.93	1/4		1/4	
1/2	2,533.44	1/2	2,172.61	1/2	1,811.77	1/2	1,450.94	1/2	1,090.10	1/2	729.26	1/2	381.29	1/2	29.26	1/2		1/2	
3/4	2,525.92	3/4	2,165.09	3/4	1,804.25	3/4	1,443.42	3/4	1,082.58	3/4	721.74	3/4	374.08	3/4	23.60	3/4		3/4	
9	2,518.40	9	2,157.57	9	1,796.73	9	1,435.90	9	1,075.06	9	714.22	9	366.87	9		9		9	
1/4	2,510.89	1/4	2,150.06	1/4	1,789.22	1/4	1,428.39	1/4	1,067.55	1/4	706.71	1/4	359.66	1/4		1/4		1/4	
1/2	2,503.37	1/2	2,142.54	1/2	1,781.70	1/2	1,420.87	1/2	1,060.03	1/2	699.19	1/2	352.45	1/2		1/2		1/2	
3/4	2,495.85	3/4	2,135.02	3/4	1,774.18	3/4	1,413.35	3/4	1,052.51	3/4	691.67	3/4	345.24	3/4		3/4		3/4	
10	2,488.34	10	2,127.50	10	1,766.66	10	1,405.83	10	1,044.99	10	684.35	10	337.84	10		10		10	
1/4	2,480.82	1/4	2,119.99	1/4	1,759.15	1/4	1,398.32	1/4	1,037.48	1/4	677.02	1/4	330.44	1/4		1/4		1/4	
1/2	2,473.31	1/2	2,112.47	1/2	1,751.63	1/2	1,390.80	1/2	1,029.96	1/2	669.70	1/2	323.04	1/2		1/2		1/2	
3/4	2,465.79	3/4	2,104.95	3/4	1,744.11	3/4	1,383.28	3/4	1,022.44	3/4	662.37	3/4	315.64	3/4		3/4		3/4	
11	2,458.27	11	2,097.43	11	1,736.59	11	1,375.76	11	1,014.92	11	655.16	11	308.13	11		11		11	
1/4	2,450.76	1/4	2,089.92	1/4	1,729.07	1/4	1,368.25	1/4	1,007.41	1/4	647.96	1/4	300.61	1/4		1/4		1/4	
1/2	2,443.24	1/2	2,082.40	1/2	1,721.54	1/2	1,360.73	1/2	999.89	1/2	640.75	1/2	293.10	1/2		1/2		1/2	
3/4	2,435.72	3/4	2,074.88	3/4	1,714.02	3/4	1,353.21	3/4	992.37	3/4	633.54	3/4	285.58	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/1994 SI  
REPRINTED: 05/10/2004 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2004

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



BARGE "KIRBY 30414"

2 STBD
ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-09"

Table with columns for height (0 to 11 ft) and gauges (0 to 9 ft), showing capacity values in whole barrels of 42 U.S. gallons.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE. GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-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 30414"

## 2 STBD ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-09"

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	2,818.90	0	2,457.04	0	2,095.13	0	1,733.23	0	1,371.32	0	1,009.41	0	647.51	0	285.70	0		0	
1/4	2,811.36	1/4	2,449.50	1/4	2,087.59	1/4	1,725.69	1/4	1,363.78	1/4	1,001.87	1/4	639.97	1/4	278.16	1/4		1/4	
1/2	2,803.83	1/2	2,441.96	1/2	2,080.05	1/2	1,718.15	1/2	1,356.24	1/2	994.33	1/2	632.44	1/2	270.62	1/2		1/2	
3/4	2,796.29	3/4	2,434.42	3/4	2,072.51	3/4	1,710.61	3/4	1,348.70	3/4	986.79	3/4	624.90	3/4	263.08	3/4		3/4	
1	2,788.75	1	2,426.88	1	2,064.97	1	1,703.07	1	1,341.16	1	979.25	1	617.36	1	255.54	1		1	
1/4	2,781.21	1/4	2,419.34	1/4	2,057.43	1/4	1,695.53	1/4	1,333.62	1/4	971.71	1/4	609.83	1/4	248.01	1/4		1/4	
1/2	2,773.68	1/2	2,411.80	1/2	2,049.89	1/2	1,687.99	1/2	1,326.08	1/2	964.17	1/2	602.29	1/2	240.49	1/2		1/2	
3/4	2,766.14	3/4	2,404.26	3/4	2,042.35	3/4	1,680.45	3/4	1,318.54	3/4	956.63	3/4	594.76	3/4	232.96	3/4		3/4	
2	2,758.60	2	2,396.72	2	2,034.81	2	1,672.91	2	1,311.00	2	949.09	2	587.22	2	225.43	2		2	
1/4	2,751.06	1/4	2,389.18	1/4	2,027.27	1/4	1,665.37	1/4	1,303.46	1/4	941.55	1/4	579.68	1/4	217.93	1/4		1/4	
1/2	2,743.53	1/2	2,381.64	1/2	2,019.74	1/2	1,657.83	1/2	1,295.92	1/2	934.01	1/2	572.15	1/2	210.42	1/2		1/2	
3/4	2,735.99	3/4	2,374.10	3/4	2,012.20	3/4	1,650.29	3/4	1,288.38	3/4	926.47	3/4	564.61	3/4	202.92	3/4		3/4	
3	2,728.45	3	2,366.56	3	2,004.66	3	1,642.75	3	1,280.84	3	918.93	3	557.07	3	195.41	3		3	
1/4	2,720.91	1/4	2,359.02	1/4	1,997.12	1/4	1,635.21	1/4	1,273.30	1/4	911.39	1/4	549.53	1/4	187.91	1/4		1/4	
1/2	2,713.38	1/2	2,351.48	1/2	1,989.58	1/2	1,627.67	1/2	1,265.76	1/2	903.85	1/2	542.00	1/2	180.40	1/2		1/2	
3/4	2,705.84	3/4	2,343.94	3/4	1,982.04	3/4	1,620.13	3/4	1,258.22	3/4	896.31	3/4	534.46	3/4	172.90	3/4		3/4	
4	2,698.30	4	2,336.40	4	1,974.50	4	1,612.59	4	1,250.68	4	888.77	4	526.92	4	165.39	4		4	
1/4	2,690.76	1/4	2,328.86	1/4	1,966.96	1/4	1,605.05	1/4	1,243.14	1/4	881.23	1/4	519.38	1/4	157.89	1/4		1/4	
1/2	2,683.23	1/2	2,321.32	1/2	1,959.42	1/2	1,597.51	1/2	1,235.60	1/2	873.69	1/2	511.85	1/2	150.38	1/2		1/2	
3/4	2,675.69	3/4	2,313.78	3/4	1,951.88	3/4	1,589.97	3/4	1,228.06	3/4	866.15	3/4	504.31	3/4	142.88	3/4		3/4	
5	2,668.15	5	2,306.24	5	1,944.34	5	1,582.43	5	1,220.52	5	858.61	5	496.77	5	135.37	5		5	
1/4	2,660.61	1/4	2,298.70	1/4	1,936.80	1/4	1,574.89	1/4	1,212.98	1/4	851.07	1/4	489.23	1/4	127.87	1/4		1/4	
1/2	2,653.07	1/2	2,291.17	1/2	1,929.26	1/2	1,567.35	1/2	1,205.44	1/2	843.53	1/2	481.70	1/2	120.36	1/2		1/2	
3/4	2,645.53	3/4	2,283.63	3/4	1,921.72	3/4	1,559.81	3/4	1,197.90	3/4	835.99	3/4	474.16	3/4	112.86	3/4		3/4	
6	2,637.99	6	2,276.09	6	1,914.18	6	1,552.27	6	1,190.36	6	828.45	6	466.62	6	105.35	6		6	
1/4	2,630.45	1/4	2,268.55	1/4	1,906.64	1/4	1,544.73	1/4	1,182.82	1/4	820.91	1/4	459.08	1/4	97.85	1/4		1/4	
1/2	2,622.91	1/2	2,261.01	1/2	1,899.10	1/2	1,537.19	1/2	1,175.28	1/2	813.37	1/2	451.55	1/2	90.34	1/2		1/2	
3/4	2,615.37	3/4	2,253.47	3/4	1,891.56	3/4	1,529.65	3/4	1,167.74	3/4	805.83	3/4	444.01	3/4	82.84	3/4		3/4	
7	2,607.83	7	2,245.93	7	1,884.02	7	1,522.11	7	1,160.20	7	798.29	7	436.47	7	75.33	7		7	
1/4	2,600.29	1/4	2,238.39	1/4	1,876.48	1/4	1,514.57	1/4	1,152.66	1/4	790.75	1/4	428.93	1/4	68.10	1/4		1/4	
1/2	2,592.75	1/2	2,230.85	1/2	1,868.94	1/2	1,507.03	1/2	1,145.12	1/2	783.21	1/2	421.40	1/2	60.86	1/2		1/2	
3/4	2,585.21	3/4	2,223.31	3/4	1,861.40	3/4	1,499.49	3/4	1,137.58	3/4	775.67	3/4	413.86	3/4	53.63	3/4		3/4	
8	2,577.67	8	2,215.77	8	1,853.86	8	1,491.95	8	1,130.04	8	768.13	8	406.32	8	46.39	8		8	
1/4	2,570.13	1/4	2,208.23	1/4	1,846.33	1/4	1,484.41	1/4	1,122.50	1/4	760.59	1/4	398.78	1/4	40.71	1/4		1/4	
1/2	2,562.59	1/2	2,200.69	1/2	1,838.80	1/2	1,476.88	1/2	1,114.96	1/2	753.05	1/2	391.25	1/2	35.04	1/2		1/2	
3/4	2,555.05	3/4	2,193.15	3/4	1,831.27	3/4	1,469.34	3/4	1,107.42	3/4	745.51	3/4	383.71	3/4	29.36	3/4		3/4	
9	2,547.51	9	2,185.61	9	1,823.74	9	1,461.80	9	1,099.88	9	737.97	9	376.17	9	23.68	9		9	
1/4	2,539.97	1/4	2,178.07	1/4	1,816.19	1/4	1,454.26	1/4	1,092.34	1/4	730.43	1/4	368.63	1/4		1/4		1/4	
1/2	2,532.44	1/2	2,170.53	1/2	1,808.64	1/2	1,446.72	1/2	1,084.81	1/2	722.90	1/2	361.09	1/2		1/2		1/2	
3/4	2,524.90	3/4	2,162.99	3/4	1,801.09	3/4	1,439.18	3/4	1,077.27	3/4	715.36	3/4	353.55	3/4		3/4		3/4	
10	2,517.36	10	2,155.45	10	1,793.54	10	1,431.64	10	1,069.73	10	707.82	10	346.01	10		10		10	
1/4	2,509.82	1/4	2,147.91	1/4	1,786.00	1/4	1,424.10	1/4	1,062.19	1/4	700.28	1/4	338.47	1/4		1/4		1/4	
1/2	2,502.28	1/2	2,140.37	1/2	1,778.47	1/2	1,416.56	1/2	1,054.65	1/2	692.74	1/2	330.93	1/2		1/2		1/2	
3/4	2,494.74	3/4	2,132.83	3/4	1,770.93	3/4	1,409.02	3/4	1,047.11	3/4	685.20	3/4	323.39	3/4		3/4		3/4	
11	2,487.20	11	2,125.29	11	1,763.39	11	1,401.48	11	1,039.57	11	677.66	11	315.85	11		11		11	
1/4	2,479.66	1/4	2,117.75	1/4	1,755.85	1/4	1,393.94	1/4	1,032.03	1/4	670.12	1/4	308.31	1/4		1/4		1/4	
1/2	2,472.12	1/2	2,110.21	1/2	1,748.31	1/2	1,386.40	1/2	1,024.49	1/2	662.59	1/2	300.78	1/2		1/2		1/2	
3/4	2,464.58	3/4	2,102.67	3/4	1,740.77	3/4	1,378.86	3/4	1,016.95	3/4	655.05	3/4	293.24	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2004

PRECISION MEASUREMENT  
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Pearland, Texas 77588  
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# BARGE "KIRBY 30414"

## 3 PORT ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-08 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-08 1/2" OFF CENTERLINE AND 47'-02" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "KIRBY 30414"

## 3 PORT ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-08 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	2,896.45	0	2,524.64	0	2,150.09	0	1,775.70	0	1,401.32	0	1,026.93	0	653.09	0	280.20	0		0	
1/4	2,888.93	1/4	2,516.84	1/4	2,142.29	1/4	1,767.90	1/4	1,393.52	1/4	1,019.13	1/4	645.32	1/4	272.40	1/4		1/4	
1/2	2,881.42	1/2	2,509.04	1/2	2,134.49	1/2	1,760.10	1/2	1,385.72	1/2	1,011.33	1/2	637.56	1/2	264.59	1/2		1/2	
3/4	2,873.90	3/4	2,501.23	3/4	2,126.69	3/4	1,752.30	3/4	1,377.92	3/4	1,003.53	3/4	629.80	3/4	256.80	3/4		3/4	
1	2,866.39	1	2,493.43	1	2,118.89	1	1,744.50	1	1,370.12	1	995.73	1	622.04	1	249.01	1		1	
1/4	2,858.87	1/4	2,485.62	1/4	2,111.09	1/4	1,736.70	1/4	1,362.32	1/4	987.93	1/4	614.28	1/4	241.21	1/4		1/4	
1/2	2,851.36	1/2	2,477.82	1/2	2,103.29	1/2	1,728.90	1/2	1,354.52	1/2	980.13	1/2	606.52	1/2	233.42	1/2		1/2	
3/4	2,843.81	3/4	2,470.02	3/4	2,095.49	3/4	1,721.10	3/4	1,346.72	3/4	972.33	3/4	598.76	3/4	225.65	3/4		3/4	
2	2,836.26	2	2,462.21	2	2,087.69	2	1,713.30	2	1,338.92	2	964.53	2	591.00	2	217.88	2		2	
1/4	2,828.71	1/4	2,454.41	1/4	2,079.89	1/4	1,705.50	1/4	1,331.12	1/4	956.73	1/4	583.23	1/4	210.11	1/4		1/4	
1/2	2,821.16	1/2	2,446.61	1/2	2,072.09	1/2	1,697.70	1/2	1,323.32	1/2	948.93	1/2	575.47	1/2	202.34	1/2		1/2	
3/4	2,813.36	3/4	2,438.81	3/4	2,064.29	3/4	1,689.90	3/4	1,315.52	3/4	941.13	3/4	567.71	3/4	194.57	3/4		3/4	
3	2,805.55	3	2,431.00	3	2,056.49	3	1,682.10	3	1,307.72	3	933.33	3	559.95	3	186.80	3		3	
1/4	2,797.75	1/4	2,423.20	1/4	2,048.69	1/4	1,674.30	1/4	1,299.92	1/4	925.53	1/4	552.19	1/4	179.03	1/4		1/4	
1/2	2,789.95	1/2	2,415.40	1/2	2,040.89	1/2	1,666.50	1/2	1,292.12	1/2	917.73	1/2	544.43	1/2	171.26	1/2		1/2	
3/4	2,782.15	3/4	2,407.59	3/4	2,033.09	3/4	1,658.70	3/4	1,284.32	3/4	909.93	3/4	536.67	3/4	163.49	3/4		3/4	
4	2,774.34	4	2,399.79	4	2,025.29	4	1,650.91	4	1,276.52	4	902.13	4	528.91	4	155.72	4		4	
1/4	2,766.54	1/4	2,391.98	1/4	2,017.49	1/4	1,643.11	1/4	1,268.72	1/4	894.33	1/4	521.14	1/4	147.95	1/4		1/4	
1/2	2,758.74	1/2	2,384.18	1/2	2,009.69	1/2	1,635.31	1/2	1,260.92	1/2	886.53	1/2	513.38	1/2	140.18	1/2		1/2	
3/4	2,750.94	3/4	2,376.38	3/4	2,001.89	3/4	1,627.51	3/4	1,253.12	3/4	878.73	3/4	505.62	3/4	132.41	3/4		3/4	
5	2,743.13	5	2,368.57	5	1,994.09	5	1,619.71	5	1,245.32	5	870.94	5	497.86	5	124.64	5		5	
1/4	2,735.33	1/4	2,360.77	1/4	1,986.29	1/4	1,611.91	1/4	1,237.52	1/4	863.14	1/4	490.09	1/4	116.86	1/4		1/4	
1/2	2,727.53	1/2	2,352.97	1/2	1,978.49	1/2	1,604.11	1/2	1,229.72	1/2	855.34	1/2	482.33	1/2	109.09	1/2		1/2	
3/4	2,719.72	3/4	2,345.17	3/4	1,970.69	3/4	1,596.31	3/4	1,221.92	3/4	847.54	3/4	474.57	3/4	101.32	3/4		3/4	
6	2,711.92	6	2,337.36	6	1,962.89	6	1,588.51	6	1,214.12	6	839.74	6	466.81	6	93.55	6		6	
1/4	2,704.11	1/4	2,329.56	1/4	1,955.09	1/4	1,580.71	1/4	1,206.32	1/4	831.94	1/4	459.05	1/4	85.77	1/4		1/4	
1/2	2,696.31	1/2	2,321.76	1/2	1,947.29	1/2	1,572.91	1/2	1,198.52	1/2	824.14	1/2	451.29	1/2	78.00	1/2		1/2	
3/4	2,688.51	3/4	2,313.96	3/4	1,939.49	3/4	1,565.11	3/4	1,190.72	3/4	816.34	3/4	443.53	3/4	70.51	3/4		3/4	
7	2,680.70	7	2,306.15	7	1,931.70	7	1,557.31	7	1,182.92	7	808.54	7	435.77	7	63.02	7		7	
1/4	2,672.90	1/4	2,298.35	1/4	1,923.90	1/4	1,549.51	1/4	1,175.12	1/4	800.74	1/4	428.00	1/4	55.52	1/4		1/4	
1/2	2,665.10	1/2	2,290.54	1/2	1,916.10	1/2	1,541.71	1/2	1,167.32	1/2	792.94	1/2	420.24	1/2	48.03	1/2		1/2	
3/4	2,657.30	3/4	2,282.74	3/4	1,908.30	3/4	1,533.91	3/4	1,159.52	3/4	785.15	3/4	412.48	3/4	42.15	3/4		3/4	
8	2,649.49	8	2,274.94	8	1,900.50	8	1,526.11	8	1,151.73	8	777.37	8	404.72	8	36.27	8		8	
1/4	2,641.69	1/4	2,267.13	1/4	1,892.70	1/4	1,518.31	1/4	1,143.93	1/4	769.58	1/4	396.96	1/4	30.39	1/4		1/4	
1/2	2,633.89	1/2	2,259.33	1/2	1,884.90	1/2	1,510.51	1/2	1,136.13	1/2	761.79	1/2	389.20	1/2	24.51	1/2		1/2	
3/4	2,626.09	3/4	2,251.53	3/4	1,877.10	3/4	1,502.71	3/4	1,128.33	3/4	754.03	3/4	381.44	3/4		3/4		3/4	
9	2,618.28	9	2,243.73	9	1,869.30	9	1,494.91	9	1,120.53	9	746.26	9	373.68	9	9	9		9	
1/4	2,610.48	1/4	2,235.92	1/4	1,861.50	1/4	1,487.11	1/4	1,112.73	1/4	738.50	1/4	365.91	1/4		1/4		1/4	
1/2	2,602.68	1/2	2,228.12	1/2	1,853.70	1/2	1,479.31	1/2	1,104.93	1/2	730.73	1/2	358.15	1/2		1/2		1/2	
3/4	2,594.87	3/4	2,220.32	3/4	1,845.90	3/4	1,471.51	3/4	1,097.13	3/4	722.96	3/4	350.37	3/4		3/4		3/4	
10	2,587.07	10	2,212.51	10	1,838.10	10	1,463.71	10	1,089.33	10	715.20	10	342.59	10		10		10	
1/4	2,579.26	1/4	2,204.71	1/4	1,830.30	1/4	1,455.91	1/4	1,081.53	1/4	707.43	1/4	334.81	1/4		1/4		1/4	
1/2	2,571.46	1/2	2,196.90	1/2	1,822.50	1/2	1,448.11	1/2	1,073.73	1/2	699.66	1/2	327.03	1/2		1/2		1/2	
3/4	2,563.66	3/4	2,189.10	3/4	1,814.70	3/4	1,440.31	3/4	1,065.93	3/4	691.90	3/4	319.23	3/4		3/4		3/4	
11	2,555.85	11	2,181.30	11	1,806.90	11	1,432.51	11	1,058.13	11	684.14	11	311.42	11		11		11	
1/4	2,548.05	1/4	2,173.49	1/4	1,799.10	1/4	1,424.71	1/4	1,050.33	1/4	676.37	1/4	303.62	1/4		1/4		1/4	
1/2	2,540.25	1/2	2,165.69	1/2	1,791.30	1/2	1,416.91	1/2	1,042.53	1/2	668.61	1/2	295.81	1/2		1/2		1/2	
3/4	2,532.45	3/4	2,157.89	3/4	1,783.50	3/4	1,409.11	3/4	1,034.73	3/4	660.85	3/4	288.01	3/4		3/4		3/4	

STRAPPED: 04/11/1994 SI  
REPRINTED: 05/10/2004 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2004

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 30414"

## 3 STBD ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,730.26	0	4,453.93	0	4,176.47	0	3,898.89	0	3,621.25	0	3,285.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,724.53	1/4	4,448.17	1/4	4,170.69	1/4	3,893.11	1/4	3,615.47	1/4	3,278.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,718.81	1/2	4,442.41	1/2	4,164.90	1/2	3,887.32	1/2	3,609.68	1/2	3,270.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,713.08	3/4	4,436.65	3/4	4,159.12	3/4	3,881.54	3/4	3,603.90	3/4	3,262.67
1		1		1		1		1	4,707.35	1	4,430.89	1	4,153.34	1	3,875.76	1	3,598.11	1	3,254.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,701.56	1/4	4,425.11	1/4	4,147.56	1/4	3,869.97	1/4	3,592.33	1/4	3,247.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,890.17	1/2	4,695.78	1/2	4,419.34	1/2	3,864.19	1/2	3,586.55	1/2	3,239.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,889.74	3/4	4,689.99	3/4	4,413.56	3/4	3,858.40	3/4	3,580.76	3/4	3,232.29
2		2		2		2		2	4,889.30	2	4,684.20	2	4,407.79	2	3,852.62	2	3,574.98	2	3,224.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,888.44	1/4	4,678.48	1/4	4,402.01	1/4	3,846.83	1/4	3,569.20	1/4	3,217.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,887.58	1/2	4,672.76	1/2	4,396.22	1/2	3,841.05	1/2	3,563.41	1/2	3,209.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,886.72	3/4	4,667.03	3/4	4,390.44	3/4	3,835.26	3/4	3,557.63	3/4	3,202.14
3		3		3		3		3	4,885.86	3	4,661.31	3	4,384.66	3	3,829.48	3	3,551.84	3	3,194.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,884.20	1/4	4,655.55	1/4	4,378.88	1/4	3,823.70	1/4	3,546.07	1/4	3,187.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,882.55	1/2	4,649.79	1/2	4,373.09	1/2	3,817.91	1/2	3,540.29	1/2	3,179.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,880.89	3/4	4,644.02	3/4	4,367.31	3/4	3,812.13	3/4	3,534.52	3/4	3,171.98
4		4		4		4		4	4,879.23	4	4,638.26	4	4,361.53	4	3,806.35	4	3,528.74	4	3,164.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,876.77	1/4	4,632.50	1/4	4,355.75	1/4	3,800.56	1/4	3,522.69	1/4	3,156.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,874.32	1/2	4,626.74	1/2	4,349.96	1/2	3,794.78	1/2	3,516.64	1/2	3,149.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,871.86	3/4	4,620.98	3/4	4,344.18	3/4	3,788.99	3/4	3,510.59	3/4	3,141.83
5		5		5		5		5	4,869.40	5	4,615.22	5	4,338.40	5	3,783.21	5	3,504.54	5	3,134.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,866.15	1/4	4,609.46	1/4	4,332.62	1/4	3,777.42	1/4	3,496.72	1/4	3,126.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,862.89	1/2	4,603.70	1/2	4,326.83	1/2	3,771.64	1/2	3,488.89	1/2	3,119.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,859.64	3/4	4,597.93	3/4	4,321.05	3/4	3,765.85	3/4	3,481.07	3/4	3,111.67
6		6		6		6		6	4,856.38	6	4,592.17	6	4,315.27	6	3,760.07	6	3,473.24	6	3,104.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,852.34	1/4	4,586.41	1/4	4,309.48	1/4	3,754.29	1/4	3,465.42	1/4	3,096.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,848.30	1/2	4,580.65	1/2	4,303.70	1/2	3,748.50	1/2	3,457.59	1/2	3,089.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,844.26	3/4	4,574.89	3/4	4,297.91	3/4	3,742.72	3/4	3,449.77	3/4	3,081.52
7		7		7		7		7	4,840.22	7	4,569.13	7	4,292.13	7	3,736.94	7	3,441.94	7	3,073.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,835.39	1/4	4,563.37	1/4	4,286.35	1/4	3,731.15	1/4	3,434.12	1/4	3,066.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,830.56	1/2	4,557.61	1/2	4,280.56	1/2	3,725.37	1/2	3,426.30	1/2	3,058.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,825.73	3/4	4,551.85	3/4	4,274.78	3/4	3,997.20	3/4	3,418.47	3/4	3,051.36
8		8		8		8		8	4,820.90	8	4,546.09	8	4,269.00	8	3,991.42	8	3,410.65	8	3,043.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,815.42	1/4	4,540.33	1/4	4,263.22	1/4	3,985.64	1/4	3,402.86	1/4	3,036.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,809.95	1/2	4,534.57	1/2	4,257.43	1/2	3,979.85	1/2	3,402.23	1/2	3,028.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,804.47	3/4	4,528.81	3/4	4,251.65	3/4	3,974.07	3/4	3,396.45	3/4	3,021.21
9		9		9		9		9	4,798.99	9	4,523.05	9	4,245.87	9	3,968.29	9	3,379.48	9	3,013.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,793.26	1/4	4,517.29	1/4	4,240.09	1/4	3,962.50	1/4	3,371.69	1/4	3,006.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,787.54	1/2	4,511.53	1/2	4,234.30	1/2	3,956.72	1/2	3,363.90	1/2	2,998.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,781.81	3/4	4,505.77	3/4	4,228.52	3/4	3,950.93	3/4	3,356.10	3/4	2,991.06
10		10		10		10		10	4,776.08	10	4,500.01	10	4,222.74	10	3,945.15	10	3,348.31	10	2,983.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,770.35	1/4	4,494.25	1/4	4,216.96	1/4	3,939.37	1/4	3,340.52	1/4	2,975.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,764.63	1/2	4,488.49	1/2	4,211.17	1/2	3,933.58	1/2	3,332.72	1/2	2,968.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,758.90	3/4	4,482.73	3/4	4,205.39	3/4	3,927.80	3/4	3,324.93	3/4	2,960.90
11		11		11		11		11	4,753.17	11	4,476.97	11	4,199.61	11	3,922.02	11	3,317.13	11	2,953.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,747.44	1/4	4,471.21	1/4	4,193.82	1/4	3,916.24	1/4	3,309.34	1/4	2,945.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,741.72	1/2	4,465.45	1/2	4,188.04	1/2	3,910.45	1/2	3,302.82	1/2	2,938.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,735.99	3/4	4,459.69	3/4	4,182.25	3/4	3,904.67	3/4	3,293.75	3/4	2,930.75

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-04 1/2" OFF CENTERLINE AND 46'-10" 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 30414"

## 3 STBD ULLAGE TABLE

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

FORMERLY "HW 3036"

GAUGE HEIGHT 17'-09"

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	2,923.21	0	2,550.83	0	2,175.12	0	1,799.40	0	1,423.68	0	1,047.96	0	672.25	0	296.57	0		0	
1/4	2,915.67	1/4	2,543.00	1/4	2,167.29	1/4	1,791.57	1/4	1,415.85	1/4	1,040.13	1/4	664.42	1/4	288.75	1/4		1/4	
1/2	2,908.14	1/2	2,535.18	1/2	2,159.47	1/2	1,783.75	1/2	1,408.03	1/2	1,032.31	1/2	656.60	1/2	280.92	1/2		1/2	
3/4	2,900.60	3/4	2,527.35	3/4	2,151.64	3/4	1,775.92	3/4	1,400.20	3/4	1,024.48	3/4	648.77	3/4	273.10	3/4		3/4	
1	2,893.06	1	2,519.52	1	2,143.81	1	1,768.09	1	1,392.37	1	1,016.65	1	640.94	1	265.27	1		1	
1/4	2,885.52	1/4	2,511.69	1/4	2,135.98	1/4	1,760.26	1/4	1,384.54	1/4	1,008.82	1/4	633.11	1/4	257.46	1/4		1/4	
1/2	2,877.98	1/2	2,503.87	1/2	2,128.16	1/2	1,752.44	1/2	1,376.72	1/2	1,001.00	1/2	625.29	1/2	249.64	1/2		1/2	
3/4	2,870.44	3/4	2,496.04	3/4	2,120.33	3/4	1,744.61	3/4	1,368.89	3/4	993.17	3/4	617.46	3/4	241.83	3/4		3/4	
2	2,862.90	2	2,488.21	2	2,112.50	2	1,736.78	2	1,361.06	2	985.34	2	609.63	2	234.01	2		2	
1/4	2,855.33	1/4	2,480.38	1/4	2,104.67	1/4	1,728.95	1/4	1,353.23	1/4	977.51	1/4	601.81	1/4	226.22	1/4		1/4	
1/2	2,847.75	1/2	2,472.56	1/2	2,096.85	1/2	1,721.13	1/2	1,345.41	1/2	969.69	1/2	593.98	1/2	218.43	1/2		1/2	
3/4	2,840.18	3/4	2,464.73	3/4	2,089.02	3/4	1,713.30	3/4	1,337.58	3/4	961.86	3/4	586.16	3/4	210.64	3/4		3/4	
3	2,832.60	3	2,456.90	3	2,081.19	3	1,705.47	3	1,329.75	3	954.03	3	578.33	3	202.85	3		3	
1/4	2,824.78	1/4	2,449.07	1/4	2,073.36	1/4	1,697.64	1/4	1,321.92	1/4	946.20	1/4	570.50	1/4	195.06	1/4		1/4	
1/2	2,816.96	1/2	2,441.25	1/2	2,065.54	1/2	1,689.82	1/2	1,314.10	1/2	938.38	1/2	562.68	1/2	187.27	1/2		1/2	
3/4	2,809.13	3/4	2,433.42	3/4	2,057.71	3/4	1,681.99	3/4	1,306.27	3/4	930.55	3/4	554.85	3/4	179.48	3/4		3/4	
4	2,801.31	4	2,425.59	4	2,049.88	4	1,674.16	4	1,298.44	4	922.72	4	547.02	4	171.69	4		4	
1/4	2,793.48	1/4	2,417.76	1/4	2,042.05	1/4	1,666.33	1/4	1,290.61	1/4	914.89	1/4	539.20	1/4	163.90	1/4		1/4	
1/2	2,785.66	1/2	2,409.94	1/2	2,034.23	1/2	1,658.51	1/2	1,282.79	1/2	907.07	1/2	531.37	1/2	156.11	1/2		1/2	
3/4	2,777.83	3/4	2,402.11	3/4	2,026.40	3/4	1,650.68	3/4	1,274.96	3/4	899.24	3/4	523.55	3/4	148.31	3/4		3/4	
5	2,770.00	5	2,394.28	5	2,018.57	5	1,642.85	5	1,267.13	5	891.41	5	515.72	5	140.52	5		5	
1/4	2,762.17	1/4	2,386.45	1/4	2,010.74	1/4	1,635.02	1/4	1,259.30	1/4	883.58	1/4	507.89	1/4	132.73	1/4		1/4	
1/2	2,754.35	1/2	2,378.63	1/2	2,002.92	1/2	1,627.20	1/2	1,251.48	1/2	875.76	1/2	500.07	1/2	124.94	1/2		1/2	
3/4	2,746.52	3/4	2,370.80	3/4	1,995.09	3/4	1,619.37	3/4	1,243.65	3/4	867.93	3/4	492.24	3/4	117.15	3/4		3/4	
6	2,738.69	6	2,362.97	6	1,987.26	6	1,611.54	6	1,235.82	6	860.10	6	484.41	6	109.36	6		6	
1/4	2,730.86	1/4	2,355.15	1/4	1,979.43	1/4	1,603.71	1/4	1,227.99	1/4	852.27	1/4	476.58	1/4	101.57	1/4		1/4	
1/2	2,723.04	1/2	2,347.32	1/2	1,971.61	1/2	1,595.89	1/2	1,220.17	1/2	844.45	1/2	468.76	1/2	93.78	1/2		1/2	
3/4	2,715.21	3/4	2,339.50	3/4	1,963.78	3/4	1,588.06	3/4	1,212.34	3/4	836.62	3/4	460.93	3/4	85.99	3/4		3/4	
7	2,707.38	7	2,331.67	7	1,955.95	7	1,580.23	7	1,204.51	7	828.79	7	453.10	7	78.20	7		7	
1/4	2,699.55	1/4	2,323.84	1/4	1,948.12	1/4	1,572.40	1/4	1,196.68	1/4	820.96	1/4	445.28	1/4	70.69	1/4		1/4	
1/2	2,691.73	1/2	2,316.02	1/2	1,940.30	1/2	1,564.58	1/2	1,188.86	1/2	813.14	1/2	437.45	1/2	63.18	1/2		1/2	
3/4	2,683.90	3/4	2,308.19	3/4	1,932.47	3/4	1,556.75	3/4	1,181.03	3/4	805.31	3/4	429.63	3/4	55.67	3/4		3/4	
8	2,676.07	8	2,300.36	8	1,924.64	8	1,548.92	8	1,173.20	8	797.48	8	421.80	8	48.16	8		8	
1/4	2,668.24	1/4	2,292.53	1/4	1,916.81	1/4	1,541.09	1/4	1,165.37	1/4	789.65	1/4	413.97	1/4	42.26	1/4		1/4	
1/2	2,660.42	1/2	2,284.71	1/2	1,908.99	1/2	1,533.27	1/2	1,157.55	1/2	781.83	1/2	406.15	1/2	36.37	1/2		1/2	
3/4	2,652.59	3/4	2,276.88	3/4	1,901.16	3/4	1,525.44	3/4	1,149.72	3/4	774.00	3/4	398.32	3/4	30.47	3/4		3/4	
9	2,644.76	9	2,269.05	9	1,893.33	9	1,517.61	9	1,141.89	9	766.17	9	390.49	9	24.57	9		9	
1/4	2,636.93	1/4	2,261.22	1/4	1,885.50	1/4	1,509.78	1/4	1,134.06	1/4	758.34	1/4	382.67	1/4		1/4		1/4	
1/2	2,629.11	1/2	2,253.40	1/2	1,877.68	1/2	1,501.96	1/2	1,126.24	1/2	750.52	1/2	374.84	1/2		1/2		1/2	
3/4	2,621.28	3/4	2,245.57	3/4	1,869.85	3/4	1,494.13	3/4	1,118.41	3/4	742.69	3/4	367.02	3/4		3/4		3/4	
10	2,613.45	10	2,237.74	10	1,862.02	10	1,486.30	10	1,110.58	10	734.86	10	359.19	10		10		10	
1/4	2,605.62	1/4	2,229.91	1/4	1,854.19	1/4	1,478.47	1/4	1,102.75	1/4	727.03	1/4	351.36	1/4		1/4		1/4	
1/2	2,597.80	1/2	2,222.09	1/2	1,846.37	1/2	1,470.65	1/2	1,094.93	1/2	719.21	1/2	343.54	1/2		1/2		1/2	
3/4	2,589.97	3/4	2,214.26	3/4	1,838.54	3/4	1,462.82	3/4	1,087.10	3/4	711.38	3/4	335.71	3/4		3/4		3/4	
11	2,582.14	11	2,206.43	11	1,830.71	11	1,454.99	11	1,079.27	11	703.55	11	327.88	11		11		11	
1/4	2,574.31	1/4	2,198.60	1/4	1,822.88	1/4	1,447.16	1/4	1,071.44	1/4	695.73	1/4	320.05	1/4		1/4		1/4	
1/2	2,566.49	1/2	2,190.78	1/2	1,815.06	1/2	1,439.34	1/2	1,063.62	1/2	687.90	1/2	312.23	1/2		1/2		1/2	
3/4	2,558.66	3/4	2,182.95	3/4	1,807.23	3/4	1,431.51	3/4	1,055.79	3/4	680.08	3/4	304.40	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2004

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