BARGE "KIRBY 30313"

ULLAGE TRIM TABLE

FORMERLY "DBL 33"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**
1 CENTER	- 00-0/8	00-0/8	- 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
2 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	- 00-1/8	00-1/8
2 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	- 00-1/8	00-1/8
3 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	- 00-1/8	00-1/8
3 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	- 00-1/8	00-1/8
4 CENTER	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 4 CENTER IS - 00-7/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 4 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 1/8"

LENGTH BETWEEN DRAFT MARKS: 233'-09"

June 9, 2010

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

http://www.pmacorp.net

BARGE "KIRBY 30313"

1 CENTER

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 19'-00 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0		0	7,610.51	0	7,060.01	0	6,507.96	0	5,953.94	0	5,399.99
1/4		1/4		1/4		1/4		1/4		1/4	7,599.04	1/4	7,048.54	1/4	6,496.42	1/4	5,942.40	1/4	5,388.45
1/2		1/2		1/2		1/2		1/2		1/2	7,587.58	1/2	7,037.07	1/2	6,484.88	1/2	5,930.86	1/2	5,376.91
3/4		3/4		3/4		3/4		3/4	8,008.05	3/4	7,576.11	3/4	7,025.60	3/4	6,473.34	3/4	5,919.31	3/4	5,365.37
1		1		1		1		1	8,006.36	1	7,564.64	1	7,014.13	1	6,461.79	1	5,907.77	1	5,353.83
1/4		1/4		1/4		1/4		1/4	8,004.67	1/4	7,553.17	1/4	7,002.66	1/4	6,450.25	1/4	5,896.23	1/4	5,342.29
1/2		1/2		1/2		1/2		1/2	8,002.97	1/2	7,541.70	1/2	6,991.19	1/2	6,438.71	1/2	5,884.69	1/2	5,330.75
3/4		3/4		3/4		3/4		3/4	8,001.28	3/4	7,530.23	3/4	6,979.72	3/4	6,427.17	3/4	5,873.15	3/4	5,319.21
2		2		2		2		2	7,997.66	2	7,518.76	2	6,968.26	2	6,415.63	2	5,861.61	2	5,307.67
1/4		1/4		1/4		1/4		1/4	7,994.04	1/4	7,507.29	1/4	6,956.79	1/4	6,404.08	1/4	5,850.07	1/4	5,296.13
1/2		1/2		1/2		1/2		1/2	7,990.43	1/2	7,495.82	1/2	6,945.32	1/2	6,392.54	1/2	5,838.53	1/2	5,284.59
3/4		3/4		3/4		3/4		3/4	7,986.81	3/4	7,484.36	3/4	6,933.85	3/4	6,381.00	3/4	5,826.98	3/4	5,273.05
3		3		3		3		3	7,981.27	3	7,472.89	3	6,922.38	3	6,369.46	3	5,815.44	3	5,261.51
1/4		1/4		1/4		1/4		1/4	7,975.73	1/4	7,461.42	1/4	6,910.91	1/4	6,357.91	1/4	5,803.90	1/4	5,249.96
1/2		1/2		1/2		1/2		1/2	7,970.19	1/2	7,449.95	1/2	6,899.44	1/2	6,346.37	1/2	5,792.36	1/2	5,238.42
3/4		3/4		3/4		3/4		3/4	7,964.64	3/4	7,438.48	3/4	6,887.97	3/4	6,334.83	3/4	5,780.82	3/4	5,226.88
4		4		4		4		4	7,957.18	4	7,427.01	4	6,876.50	4	6,323.29	4	5,769.28	4	5,215.34
1/4		1/4		1/4		1/4		1/4	7,949.71	1/4	7,415.54	1/4	6,865.04	1/4	6,311.75	1/4	5,757.74	1/4	5,203.80
1/2		1/2		1/2		1/2		1/2	7,942.25	1/2	7,404.07	1/2	6,853.57	1/2	6,300.20	1/2	5,746.20	1/2	5,192.26
3/4		3/4		3/4		3/4		3/4	7,934.78	3/4	7,392.60	3/4	6,842.10	3/4	6,288.66	3/4	5,734.66	3/4	5,180.72
5		5		5		5		5	7,925.40	5	7,381.14	5	6,830.63	5	6,277.12	5	5,723.12	5	5,169.18
1/4		1/4		1/4		1/4		1/4	7,916.01	1/4	7,369.67	1/4	6,819.16	1/4	6,265.58	1/4	5,711.58	1/4	5,157.64
1/2		1/2		1/2		1/2		1/2	7,906.62	1/2	7,358.20	1/2	6,807.69	1/2	6,254.04	1/2	5,700.04	1/2	5,146.10
3/4		3/4		3/4		3/4		3/4	7,897.24	3/4	7,346.73	3/4	6,796.22	3/4	6,242.49	3/4	5,688.50	3/4	5,134.56
6		6		6		6		6	7,885.77	6	7,335.26	6	6,784.75	6	6,230.95	6	5,676.96	6	5,123.02
1/4		1/4		1/4		1/4		1/4	7,874.30	1/4	7,323.79	1/4	6,773.28	1/4	6,219.41	1/4	5,665.42	1/4	5,111.48
1/2		1/2		1/2		1/2		1/2	7,862.83	1/2	7,312.32	1/2	6,761.82	1/2	6,207.87	1/2	5,653.88	1/2	5,099.94
3/4		3/4		3/4		3/4		3/4	7,851.36	3/4	7,300.85	3/4	6,750.35	3/4	6,196.33	3/4	5,642.34	3/4	5,088.40
7		7		7		7		7	7,839.89	7	7,289.38	7	6,738.80	7	6,184.78	7	5,630.80	7	5,076.86
1/4		1/4		1/4		1/4		1/4	7,828.42	1/4	7,277.92	1/4	6,727.26	1/4	6,173.24	1/4	5,619.26	1/4	5,065.32
1/2		1/2		1/2		1/2		1/2	7,816.95	1/2	7,266.45	1/2	6,715.72	1/2	6,161.70	1/2	5,607.72	1/2	5,053.78
3/4		3/4		3/4		3/4		3/4	7,805.48	3/4	7,254.98	3/4	6,704.18	3/4	6,150.16	3/4	5,596.18	3/4	5,042.24
8		8		8		8		8	7,794.02	8	7,243.51	8	6,692.64	8	6,138.61	8	5,584.64	8	5,030.70
1/4		1/4		1/4		1/4		1/4	7,782.55	1/4	7,232.04	1/4	6,681.09	1/4	6,127.07	1/4	5,573.10	1/4	5,019.16
1/2		1/2		1/2		1/2		1/2	7,771.08	1/2	7,220.57	1/2	6,669.55	1/2	6,115.53	1/2	5,561.56	1/2	5,007.62
3/4		3/4		3/4		3/4		3/4	7,759.61	3/4	7,209.10	3/4	6,658.01	3/4	6,103.99	3/4	5,550.02	3/4	4,996.08
9		9		9		9		9	7,748.14	9	7,197.63	9	6,646.47	9	6,092.45	9	5,538.47	9	4,984.54
1/4		1/4		1/4		1/4		1/4	7,736.67	1/4	7,186.16	1/4	6,634.93	1/4	6,080.90	1/4	5,526.93	1/4	4,973.00
1/2		1/2		1/2		1/2		1/2	7,725.20	1/2	7,174.70	1/2	6,623.38	1/2	6,069.36	1/2	5,515.39	1/2	4,961.45
3/4		3/4		3/4		3/4		3/4	7,713.73	3/4	7,163.23	3/4	6,611.84	3/4	6,057.82	3/4	5,503.85	3/4	4,949.91
10		10		10		10		10	7,702.26	10	7,151.76	10	6,600.30	10	6,046.28	10	5,492.31	10	4,938.37
1/4		1/4		1/4		1/4		1/4	7,690.80	1/4	7,140.29	1/4	6,588.76	1/4	6,034.74	1/4	5,480.77	1/4	4,926.83
1/2		1/2		1/2		1/2		1/2	7,679.33	1/2	7,128.82	1/2	6,577.21	1/2	6,023.19	1/2	5,469.23	1/2	4,915.29
3/4		3/4		3/4		3/4		3/4	7,667.86	3/4	7,117.35	3/4	6,565.67	3/4	6,011.65	3/4	5,457.69	3/4	4,903.75
11		11		11		11		11	7,656.39	11	7,105.88	11	6,554.13	11	6,000.11	11	5,446.15	11	4,892.21
1/4		1/4		1/4		1/4		1/4	7,644.92	1/4	7,094.41	1/4	6,542.59	1/4	5,988.57	1/4	5,434.61	1/4	4,880.67
1/2		1/2		1/2		1/2		1/2	7,633.45	1/2	7,082.94	1/2	6,531.05	1/2	5,977.03	1/2	5,423.07	1/2	4,869.13
3/4		3/4		3/4		3/4		3/4	7,621.98	3/4	7,071.48	3/4	6,519.50	3/4	5,965.48	3/4	5,411.53	3/4	4,857.59

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 3'-04" OFF CENTERLINE AND 32'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 30313"

1 CENTER

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 19'-00 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	4,846.05	0	4,292.11	0	3,738.17	0	3,184.23	0	2,630.29	0	2,078.23	0	1,524.63	0	970.71	0	436.88	0	19.98
1/4	4,834.51	1/4	4,280.57	1/4	3,726.63	1/4	3,172.69	1/4	2,618.75	1/4	2,066.73	1/4	1,513.09	1/4	959.17	1/4	426.68	1/4	15.66
1/2	4,822.97	1/2	4,269.03	1/2	3,715.09	1/2	3,161.15	1/2	2,607.21	1/2	2,055.24	1/2	1,501.55	1/2	947.63	1/2	416.47	1/2	11.33
3/4	4,811.43	3/4	4,257.49	3/4	3,703.55	3/4	3,149.61	3/4	2,595.67	3/4	2,043.74	3/4	1,490.01	3/4	936.09	3/4	406.26	3/4	7.00
1	4,799.89	1	4,245.95	1	3,692.01	1	3,138.07	1	2,584.13	1	2,032.25	1	1,478.47	1	924.55	1	396.22	1	
1/4	4,788.35	1/4	4,234.41	1/4	3,680.47	1/4	3,126.53	1/4	2,572.59	1/4	2,020.76	1/4	1,466.93	1/4	913.01	1/4	386.19	1/4	
1/2	4,776.81	1/2	4,222.87	1/2	3,668.93	1/2	3,114.99	1/2	2,561.05	1/2	2,009.26	1/2	1,455.39	1/2	901.47	1/2	376.15	1/2	
3/4	4,765.27	3/4	4,211.33	3/4	3,657.39	3/4	3,103.45	3/4	2,549.51	3/4	1,997.77	3/4	1,443.85	3/4	889.93	3/4	366.11	3/4	
2	4,753.73	2	4,199.79	2	3,645.85	2	3,091.91	2	2,538.02	2	1,986.23	2	1,432.31	2	878.39	2	356.24	2	
1/4	4,742.19	1/4	4,188.25	1/4	3,634.31	1/4	3,080.37	1/4	2,526.52	1/4	1,974.69	1/4	1,420.77	1/4	866.85	1/4	346.36	1/4	
1/2	4,730.65	1/2	4,176.71	1/2	3,622.77	1/2	3,068.83	1/2	2,515.03	1/2	1,963.15	1/2	1,409.23	1/2	855.31	1/2	336.49	1/2	
3/4	4,719.11	3/4	4,165.17	3/4	3,611.23	3/4	3,057.29	3/4	2,503.53	3/4	1,951.61	3/4	1,397.69	3/4	843.77	3/4	326.62	3/4	
3	4,707.57	3	4,153.63	3	3,599.69	3	3,045.75	3	2,492.04	3	1,940.07	3	1,386.15	3	832.23	3	316.91	3	
1/4	4,696.03	1/4	4,142.09	1/4	3,588.15	1/4	3,034.21	1/4	2,480.54	1/4	1,928.53	1/4	1,374.61	1/4	820.69	1/4	307.21	1/4	
1/2	4,684.49	1/2	4,130.55	1/2	3,576.61	1/2	3,022.67	1/2	2,469.05	1/2	1,916.99	1/2	1,363.07	1/2	809.15	1/2	297.50	1/2	
3/4	4,672.94	3/4	4,119.01	3/4	3,565.07	3/4	3,011.13	3/4	2,457.55	3/4	1,905.45	3/4	1,351.53	3/4	797.61	3/4	287.80	3/4	
4	4,661.40	4	4,107.47	4	3,553.53	4	2,999.59	4	2,446.06	4	1,893.91	4	1,339.99	4	786.09	4	278.26	4	
1/4	4,649.86	1/4	4,095.92	1/4	3,541.99	1/4	2,988.05	1/4	2,434.56	1/4	1,882.37	1/4	1,328.45	1/4	774.57	1/4	268.72	1/4	
1/2	4,638.32	1/2	4,084.38	1/2	3,530.45	1/2	2,976.51	1/2	2,423.07	1/2	1,870.83	1/2	1,316.91	1/2	763.05	1/2	259.18	1/2	
3/4	4,626.78	3/4	4,072.84	3/4	3,518.90	3/4	2,964.97	3/4	2,411.57	3/4	1,859.29	3/4	1,305.37	3/4	751.53	3/4	249.64	3/4	
5	4,615.24	5	4,061.30	5	3,507.36	5	2,953.43	5	2,400.08	5	1,847.75	5	1,293.83	5	740.16	5	240.27	5	
1/4	4,603.70	1/4	4,049.76	1/4	3,495.82	1/4	2,941.88	1/4	2,388.59	1/4	1,836.21	1/4	1,282.29	1/4	728.78	1/4	230.90	1/4	
1/2	4,592.16	1/2	4,038.22	1/2	3,484.28	1/2	2,930.34	1/2	2,377.09	1/2	1,824.67	1/2	1,270.75	1/2	717.41	1/2	221.53	1/2	
3/4	4,580.62	3/4	4,026.68	3/4	3,472.74	3/4	2,918.80	3/4	2,365.60	3/4	1,813.13	3/4	1,259.21	3/4	706.04	3/4	212.15	3/4	
6	4,569.08	6	4,015.14	6	3,461.20	6	2,907.26	6	2,354.10	6	1,801.59	6	1,247.67	6	694.83	6	202.95	6	
1/4	4,557.54	1/4	4,003.60	1/4	3,449.66	1/4	2,895.72	1/4	2,342.61	1/4	1,790.05	1/4	1,236.13	1/4	683.62	1/4	193.74	1/4	
1/2	4,546.00	1/2	3,992.06	1/2	3,438.12	1/2	2,884.18	1/2	2,331.11	1/2	1,778.51	1/2	1,224.59	1/2	672.42	1/2	184.54	1/2	
3/4	4,534.46	3/4	3,980.52	3/4	3,426.58	3/4	2,872.64	3/4	2,319.62	3/4	1,766.97	3/4	1,213.05	3/4	661.21	3/4	175.33	3/4	
7	4,522.92	7	3,968.98	7	3,415.04	7	2,861.10	7	2,308.12	7	1,755.43	7	1,201.51	7	650.17	7	166.29	7	
1/4	4,511.38	1/4	3,957.44	1/4	3,403.50	1/4	2,849.56	1/4	2,296.63	1/4	1,743.89	1/4	1,189.97	1/4	639.13	1/4	157.26	1/4	
1/2	4,499.84	1/2	3,945.90	1/2	3,391.96	1/2	2,838.02	1/2	2,285.13	1/2	1,732.35	1/2	1,178.43	1/2	628.09	1/2	148.22	1/2	
3/4	4,488.30	3/4	3,934.36	3/4	3,380.42	3/4	2,826.48	3/4	2,273.64	3/4	1,720.81	3/4	1,166.89	3/4	617.05	3/4	139.18	3/4	
8	4,476.76	8	3,922.82	8	3,368.88	8	2,814.94	8	2,262.14	8	1,709.27	8	1,155.35	8	606.18	8	130.31	8	
1/4	4,465.22	1/4	3,911.28	1/4	3,357.34	1/4	2,803.40	1/4	2,250.65	1/4	1,697.73	1/4	1,143.81	1/4	595.31	1/4	121.44	1/4	
1/2	4,453.68	1/2	3,899.74	1/2	3,345.80	1/2	2,791.86	1/2	2,239.15	1/2	1,686.19	1/2	1,132.27	1/2	584.43	1/2	112.56	1/2	
3/4	4,442.14	3/4	3,888.20	3/4	3,334.26	3/4	2,780.32	3/4	2,227.66	3/4	1,674.65	3/4	1,120.73	3/4	573.56	3/4	103.69	3/4	
9	4,430.60	9	3,876.66	9	3,322.72	9	2,768.78	9	2,216.17	9	1,663.11	9	1,109.19	9	562.85	9	94.99	9	
1/4	4,419.06	1/4	3,865.12	1/4	3,311.18	1/4	2,757.24	1/4	2,204.67	1/4	1,651.57	1/4	1,097.65	1/4	552.15	1/4	86.28	1/4	
1/2	4,407.52	1/2	3,853.58	1/2	3,299.64	1/2	2,745.70	1/2	2,193.18	1/2	1,640.03	1/2	1,086.11	1/2	541.44	1/2	77.58	1/2	
3/4	4,395.98	3/4	3,842.04	3/4	3,288.10	3/4	2,734.16	3/4	2,181.68	3/4	1,628.49	3/4	1,074.57	3/4	530.73	3/4	68.87	3/4	
10	4,384.43	10	3,830.50	10	3,276.56	10	2,722.62	10	2,170.19	10	1,616.95	10	1,063.03	10	520.20	10	61.78	10	
1/4	4,372.89	1/4	3,818.96	1/4	3,265.02	1/4	2,711.08	1/4	2,158.69	1/4	1,605.41	1/4	1,051.49	1/4	509.66	1/4	54.68	1/4	
1/2	4,361.35	1/2	3,807.41	1/2	3,253.48	1/2	2,699.54	1/2	2,147.20	1/2	1,593.87	1/2	1,039.95	1/2	499.12	1/2	47.58	1/2	
3/4	4,349.81	3/4	3,795.87	3/4	3,241.94	3/4	2,688.00	3/4	2,135.70	3/4	1,582.33	3/4	1,028.41	3/4	488.58	3/4	40.49	3/4	
11	4,338.27	11	3,784.33	11	3,230.39	11	2,676.46	11	2,124.21	11	1,570.79	11	1,016.87	11	478.20	11	36.44	11	
1/4	4,326.73	1/4	3,772.79	1/4	3,218.85	1/4	2,664.92	1/4	2,112.71	1/4	1,559.25	1/4	1,005.33	1/4	467.83	1/4	32.40	1/4	
1/2	4,315.19	1/2	3,761.25	1/2	3,207.31	1/2	2,653.37	1/2	2,101.22	1/2	1,547.71	1/2	993.79	1/2	457.46	1/2	28.35	1/2	
3/4	4,303.65	3/4	3,749.71	3/4	3,195.77	3/4	2,641.83	3/4	2,089.72	3/4	1,536.17	3/4	982.25	3/4	447.09	3/4	24.31	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/08/2010 CL - SW
CALCULATED: 06/09/2010 CL
REPRINTED: 09/27/2016 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2016

PRECISION MEASUREMENT
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BARGE "KIRBY 30313"

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0		0	3,737.19	0	3,465.74	0	3,193.04	0	2,919.86	0	2,646.68
1/4		1/4		1/4		1/4		1/4	3,990.48	1/4	3,731.53	1/4	3,460.08	1/4	3,187.35	1/4	2,914.17	1/4	2,640.99
1/2		1/2		1/2		1/2		1/2	3,987.22	1/2	3,725.88	1/2	3,454.42	1/2	3,181.66	1/2	2,908.48	1/2	2,635.30
3/4		3/4		3/4		3/4		3/4	3,983.95	3/4	3,720.22	3/4	3,448.77	3/4	3,175.97	3/4	2,902.79	3/4	2,629.60
1		1		1		1		1	3,979.74	1	3,714.57	1	3,443.11	1	3,170.28	1	2,897.10	1	2,623.91
1/4		1/4		1/4		1/4		1/4	3,975.53	1/4	3,708.91	1/4	3,437.46	1/4	3,164.59	1/4	2,891.40	1/4	2,618.22
1/2		1/2		1/2		1/2		1/2	3,971.32	1/2	3,703.26	1/2	3,431.80	1/2	3,158.90	1/2	2,885.71	1/2	2,612.53
3/4		3/4		3/4		3/4		3/4	3,967.11	3/4	3,697.60	3/4	3,426.15	3/4	3,153.20	3/4	2,880.02	3/4	2,606.84
2		2		2		2		2	3,961.94	2	3,691.95	2	3,420.49	2	3,147.51	2	2,874.33	2	2,601.15
1/4		1/4		1/4		1/4		1/4	3,956.77	1/4	3,686.29	1/4	3,414.84	1/4	3,141.82	1/4	2,868.64	1/4	2,595.46
1/2		1/2		1/2		1/2		1/2	3,951.61	1/2	3,680.64	1/2	3,409.18	1/2	3,136.13	1/2	2,862.95	1/2	2,589.77
3/4		3/4		3/4		3/4		3/4	3,946.44	3/4	3,674.98	3/4	3,403.53	3/4	3,130.44	3/4	2,857.26	3/4	2,584.07
3		3		3		3		3	3,940.78	3	3,669.33	3	3,397.86	3	3,124.75	3	2,851.57	3	2,578.38
1/4		1/4		1/4		1/4		1/4	3,935.12	1/4	3,663.67	1/4	3,392.19	1/4	3,119.06	1/4	2,845.87	1/4	2,572.69
1/2		1/2		1/2		1/2		1/2	3,929.47	1/2	3,658.02	1/2	3,386.52	1/2	3,113.36	1/2	2,840.18	1/2	2,567.00
3/4		3/4		3/4		3/4		3/4	3,923.81	3/4	3,652.36	3/4	3,380.86	3/4	3,107.67	3/4	2,834.49	3/4	2,561.31
4		4		4		4		4	3,918.16	4	3,646.70	4	3,375.16	4	3,101.98	4	2,828.80	4	2,555.62
1/4		1/4		1/4		1/4		1/4	3,912.50	1/4	3,641.05	1/4	3,369.47	1/4	3,096.29	1/4	2,823.11	1/4	2,549.93
1/2		1/2		1/2		1/2		1/2	3,906.85	1/2	3,635.39	1/2	3,363.78	1/2	3,090.60	1/2	2,817.42	1/2	2,544.23
3/4		3/4		3/4		3/4		3/4	3,901.19	3/4	3,629.74	3/4	3,358.09	3/4	3,084.91	3/4	2,811.73	3/4	2,538.54
5		5		5		5		5	3,895.54	5	3,624.08	5	3,352.40	5	3,079.22	5	2,806.03	5	2,532.85
1/4		1/4		1/4		1/4		1/4	3,889.88	1/4	3,618.43	1/4	3,346.71	1/4	3,073.53	1/4	2,800.34	1/4	2,527.16
1/2		1/2		1/2		1/2		1/2	3,884.23	1/2	3,612.77	1/2	3,341.02	1/2	3,067.83	1/2	2,794.65	1/2	2,521.47
3/4		3/4		3/4		3/4		3/4	3,878.57	3/4	3,607.12	3/4	3,335.33	3/4	3,062.14	3/4	2,788.96	3/4	2,515.78
6		6		6		6		6	3,872.92	6	3,601.46	6	3,329.63	6	3,056.45	6	2,783.27	6	2,510.09
1/4		1/4		1/4		1/4		1/4	3,867.26	1/4	3,595.81	1/4	3,323.94	1/4	3,050.76	1/4	2,777.58	1/4	2,504.40
1/2		1/2		1/2		1/2		1/2	3,861.61	1/2	3,590.15	1/2	3,318.25	1/2	3,045.07	1/2	2,771.89	1/2	2,498.70
3/4		3/4		3/4		3/4		3/4	3,855.95	3/4	3,584.50	3/4	3,312.56	3/4	3,039.38	3/4	2,766.20	3/4	2,493.01
7		7		7		7		7	3,850.30	7	3,578.84	7	3,306.87	7	3,033.69	7	2,760.50	7	2,487.32
1/4		1/4		1/4		1/4		1/4	3,844.64	1/4	3,573.19	1/4	3,301.18	1/4	3,028.00	1/4	2,754.81	1/4	2,481.63
1/2		1/2		1/2		1/2		1/2	3,838.98	1/2	3,567.53	1/2	3,295.49	1/2	3,022.30	1/2	2,749.12	1/2	2,475.94
3/4		3/4		3/4		3/4		3/4	3,833.33	3/4	3,561.88	3/4	3,289.80	3/4	3,016.61	3/4	2,743.43	3/4	2,470.25
8		8		8		8		8	3,827.67	8	3,556.22	8	3,284.10	8	3,010.92	8	2,737.74	8	2,464.56
1/4		1/4		1/4		1/4		1/4	3,822.02	1/4	3,550.56	1/4	3,278.41	1/4	3,005.23	1/4	2,732.05	1/4	2,458.87
1/2		1/2		1/2		1/2		1/2	3,816.36	1/2	3,544.91	1/2	3,272.72	1/2	2,999.54	1/2	2,726.36	1/2	2,453.17
3/4		3/4		3/4		3/4		3/4	3,810.71	3/4	3,539.25	3/4	3,267.03	3/4	2,993.85	3/4	2,720.67	3/4	2,447.48
9		9		9		9		9	3,805.05	9	3,533.60	9	3,261.34	9	2,988.16	9	2,714.97	9	2,441.79
1/4		1/4		1/4		1/4		1/4	3,799.40	1/4	3,527.94	1/4	3,255.65	1/4	2,982.46	1/4	2,709.28	1/4	2,436.10
1/2		1/2		1/2		1/2		1/2	3,793.74	1/2	3,522.29	1/2	3,249.96	1/2	2,976.77	1/2	2,703.59	1/2	2,430.41
3/4		3/4		3/4		3/4		3/4	3,788.09	3/4	3,516.63	3/4	3,244.26	3/4	2,971.08	3/4	2,697.90	3/4	2,424.72
10		10		10		10		10	3,782.43	10	3,510.98	10	3,238.57	10	2,965.39	10	2,692.21	10	2,419.03
1/4		1/4		1/4		1/4		1/4	3,776.78	1/4	3,505.32	1/4	3,232.88	1/4	2,959.70	1/4	2,686.52	1/4	2,413.33
1/2		1/2		1/2		1/2		1/2	3,771.12	1/2	3,499.67	1/2	3,227.19	1/2	2,954.01	1/2	2,680.83	1/2	2,407.64
3/4		3/4		3/4		3/4		3/4	3,765.47	3/4	3,494.01	3/4	3,221.50	3/4	2,948.32	3/4	2,675.13	3/4	2,401.95
11		11		11		11		11	3,759.81	11	3,488.36	11	3,215.81	11	2,942.63	11	2,669.44	11	2,396.26
1/4		1/4		1/4		1/4		1/4	3,754.16	1/4	3,482.70	1/4	3,210.12	1/4	2,936.93	1/4	2,663.75	1/4	2,390.57
1/2		1/2		1/2		1/2		1/2	3,748.50	1/2	3,477.05	1/2	3,204.43	1/2	2,931.24	1/2	2,658.06	1/2	2,384.88
3/4		3/4		3/4		3/4		3/4	3,742.84	3/4	3,471.39	3/4	3,198.73	3/4	2,925.55	3/4	2,652.37	3/4	2,379.19

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 11'-03" OFF CENTERLINE AND 32'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 30313"

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,373.50	0	2,100.31	0	1,827.13	0	1,553.95	0	1,280.77	0	1,007.58	0	734.43	0	461.42	0	188.43	0	
1/4	2,367.80	1/4	2,094.62	1/4	1,821.44	1/4	1,548.26	1/4	1,275.07	1/4	1,001.89	1/4	728.75	1/4	455.73	1/4	182.74	1/4	
1/2	2,362.11	1/2	2,088.93	1/2	1,815.75	1/2	1,542.57	1/2	1,269.38	1/2	996.20	1/2	723.06	1/2	450.05	1/2	177.04	1/2	
3/4	2,356.42	3/4	2,083.24	3/4	1,810.06	3/4	1,536.87	3/4	1,263.69	3/4	990.51	3/4	717.37	3/4	444.37	3/4	171.35	3/4	
1	2,350.73	1	2,077.55	1	1,804.37	1	1,531.18	1	1,258.00	1	984.82	1	711.68	1	438.68	1	165.66	1	
1/4	2,345.04	1/4	2,071.86	1/4	1,798.67	1/4	1,525.49	1/4	1,252.31	1/4	979.13	1/4	705.99	1/4	433.00	1/4	159.97	1/4	
1/2	2,339.35	1/2	2,066.17	1/2	1,792.98	1/2	1,519.80	1/2	1,246.62	1/2	973.44	1/2	700.30	1/2	427.32	1/2	154.28	1/2	
3/4	2,333.66	3/4	2,060.47	3/4	1,787.29	3/4	1,514.11	3/4	1,240.93	3/4	967.74	3/4	694.61	3/4	421.63	3/4	148.59	3/4	
2	2,327.97	2	2,054.78	2	1,781.60	2	1,508.42	2	1,235.24	2	962.05	2	688.92	2	415.95	2	142.90	2	
1/4	2,322.27	1/4	2,049.09	1/4	1,775.91	1/4	1,502.73	1/4	1,229.54	1/4	956.36	1/4	683.23	1/4	410.27	1/4	137.21	1/4	
1/2	2,316.58	1/2	2,043.40	1/2	1,770.22	1/2	1,497.04	1/2	1,223.85	1/2	950.67	1/2	677.54	1/2	404.58	1/2	131.52	1/2	
3/4	2,310.89	3/4	2,037.71	3/4	1,764.53	3/4	1,491.34	3/4	1,218.16	3/4	944.98	3/4	671.86	3/4	398.90	3/4	125.83	3/4	
3	2,305.20	3	2,032.02	3	1,758.84	3	1,485.65	3	1,212.47	3	939.29	3	666.17	3	393.22	3	120.13	3	
1/4	2,299.51	1/4	2,026.33	1/4	1,753.14	1/4	1,479.96	1/4	1,206.78	1/4	933.60	1/4	660.48	1/4	387.53	1/4	114.44	1/4	
1/2	2,293.82	1/2	2,020.64	1/2	1,747.45	1/2	1,474.27	1/2	1,201.09	1/2	927.91	1/2	654.79	1/2	381.85	1/2	108.75	1/2	
3/4	2,288.13	3/4	2,014.94	3/4	1,741.76	3/4	1,468.58	3/4	1,195.40	3/4	922.21	3/4	649.10	3/4	376.17	3/4	103.06	3/4	
4	2,282.44	4	2,009.25	4	1,736.07	4	1,462.89	4	1,189.71	4	916.52	4	643.41	4	370.49	4	97.37	4	
1/4	2,276.74	1/4	2,003.56	1/4	1,730.38	1/4	1,457.20	1/4	1,184.01	1/4	910.83	1/4	637.72	1/4	364.80	1/4	91.68	1/4	
1/2	2,271.05	1/2	1,997.87	1/2	1,724.69	1/2	1,451.51	1/2	1,178.32	1/2	905.14	1/2	632.03	1/2	359.12	1/2	85.99	1/2	
3/4	2,265.36	3/4	1,992.18	3/4	1,719.00	3/4	1,445.81	3/4	1,172.63	3/4	899.45	3/4	626.34	3/4	353.44	3/4	80.30	3/4	
5	2,259.67	5	1,986.49	5	1,713.31	5	1,440.12	5	1,166.94	5	893.76	5	620.65	5	347.75	5	74.61	5	
1/4	2,253.98	1/4	1,980.80	1/4	1,707.61	1/4	1,434.43	1/4	1,161.25	1/4	888.07	1/4	614.97	1/4	342.07	1/4	68.92	1/4	
1/2	2,248.29	1/2	1,975.10	1/2	1,701.92	1/2	1,428.74	1/2	1,155.56	1/2	882.38	1/2	609.28	1/2	336.38	1/2	63.22	1/2	
3/4	2,242.60	3/4	1,969.41	3/4	1,696.23	3/4	1,423.05	3/4	1,149.87	3/4	876.68	3/4	603.59	3/4	330.70	3/4	57.53	3/4	
6	2,236.90	6	1,963.72	6	1,690.54	6	1,417.36	6	1,144.18	6	870.99	6	597.90	6	325.01	6	52.20	6	
1/4	2,231.21	1/4	1,958.03	1/4	1,684.85	1/4	1,411.67	1/4	1,138.48	1/4	865.30	1/4	592.21	1/4	319.32	1/4	46.86	1/4	
1/2	2,225.52	1/2	1,952.34	1/2	1,679.16	1/2	1,405.97	1/2	1,132.79	1/2	859.61	1/2	586.52	1/2	313.63	1/2	41.53	1/2	
3/4	2,219.83	3/4	1,946.65	3/4	1,673.47	3/4	1,400.28	3/4	1,127.10	3/4	853.92	3/4	580.83	3/4	307.94	3/4	36.19	3/4	
7	2,214.14	7	1,940.96	7	1,667.77	7	1,394.59	7	1,121.41	7	848.23	7	575.14	7	302.25	7	31.92	7	
1/4	2,208.45	1/4	1,935.27	1/4	1,662.08	1/4	1,388.90	1/4	1,115.72	1/4	842.54	1/4	569.45	1/4	296.56	1/4	27.65	1/4	
1/2	2,202.76	1/2	1,929.57	1/2	1,656.39	1/2	1,383.21	1/2	1,110.03	1/2	836.84	1/2	563.76	1/2	290.86	1/2	23.39	1/2	
3/4	2,197.07	3/4	1,923.88	3/4	1,650.70	3/4	1,377.52	3/4	1,104.34	3/4	831.15	3/4	558.08	3/4	285.17	3/4	19.12	3/4	
8	2,191.37	8	1,918.19	8	1,645.01	8	1,371.83	8	1,098.64	8	825.46	8	552.39	8	279.48	8		8	
1/4	2,185.68	1/4	1,912.50	1/4	1,639.32	1/4	1,366.14	1/4	1,092.95	1/4	819.77	1/4	546.70	1/4	273.79	1/4		1/4	
1/2	2,179.99	1/2	1,906.81	1/2	1,633.63	1/2	1,360.44	1/2	1,087.26	1/2	814.08	1/2	541.01	1/2	268.10	1/2		1/2	
3/4	2,174.30	3/4	1,901.12	3/4	1,627.94	3/4	1,354.75	3/4	1,081.57	3/4	808.39	3/4	535.32	3/4	262.41	3/4		3/4	
9	2,168.61	9	1,895.43	9	1,622.24	9	1,349.06	9	1,075.88	9	802.70	9	529.63	9	256.72	9		9	
1/4	2,162.92	1/4	1,889.74	1/4	1,616.55	1/4	1,343.37	1/4	1,070.19	1/4	797.01	1/4	523.94	1/4	251.03	1/4		1/4	
1/2	2,157.23	1/2	1,884.04	1/2	1,610.86	1/2	1,337.68	1/2	1,064.50	1/2	791.32	1/2	518.26	1/2	245.34	1/2		1/2	
3/4	2,151.54	3/4	1,878.35	3/4	1,605.17	3/4	1,331.99	3/4	1,058.81	3/4	785.64	3/4	512.57	3/4	239.65	3/4		3/4	
10	2,145.84	10	1,872.66	10	1,599.48	10	1,326.30	10	1,053.11	10	779.95	10	506.89	10	233.95	10		10	
1/4	2,140.15	1/4	1,866.97	1/4	1,593.79	1/4	1,320.61	1/4	1,047.42	1/4	774.26	1/4	501.20	1/4	228.26	1/4		1/4	
1/2	2,134.46	1/2	1,861.28	1/2	1,588.10	1/2	1,314.91	1/2	1,041.73	1/2	768.57	1/2	495.52	1/2	222.57	1/2		1/2	
3/4	2,128.77	3/4	1,855.59	3/4	1,582.41	3/4	1,309.22	3/4	1,036.04	3/4	762.88	3/4	489.83	3/4	216.88	3/4		3/4	
11	2,123.08	11	1,849.90	11	1,576.71	11	1,303.53	11	1,030.35	11	757.19	11	484.15	11	211.19	11		11	
1/4	2,117.39	1/4	1,844.20	1/4	1,571.02	1/4	1,297.84	1/4	1,024.66	1/4	751.50	1/4	478.47	1/4	205.50	1/4		1/4	
1/2	2,111.70	1/2	1,838.51	1/2	1,565.33	1/2	1,292.15	1/2	1,018.97	1/2	745.81	1/2	472.78	1/2	199.81	1/2		1/2	
3/4	2,106.00	3/4	1,832.82	3/4	1,559.64	3/4	1,286.46	3/4	1,013.28	3/4	740.12	3/4	467.10	3/4	194.12	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/08/2010 CL - SW
CALCULATED: 06/09/2010 CL
REPRINTED: 09/27/2016 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 30313"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0		0	3,864.60	0	3,583.91	0	3,301.97	0	3,019.50	0	2,737.02
1/4		1/4		1/4		1/4		1/4		1/4	3,858.75	1/4	3,578.06	1/4	3,296.09	1/4	3,013.61	1/4	2,731.14
1/2		1/2		1/2		1/2		1/2		1/2	3,852.91	1/2	3,572.22	1/2	3,290.21	1/2	3,007.73	1/2	2,725.25
3/4		3/4		3/4		3/4		3/4	4,114.64	3/4	3,847.06	3/4	3,566.37	3/4	3,284.32	3/4	3,001.84	3/4	2,719.37
1		1		1		1		1	4,111.29	1	3,841.21	1	3,560.52	1	3,278.44	1	2,995.96	1	2,713.48
1/4		1/4		1/4		1/4		1/4	4,107.94	1/4	3,835.36	1/4	3,554.67	1/4	3,272.55	1/4	2,990.08	1/4	2,707.60
1/2		1/2		1/2		1/2		1/2	4,103.61	1/2	3,829.52	1/2	3,548.83	1/2	3,266.67	1/2	2,984.19	1/2	2,701.72
3/4		3/4		3/4		3/4		3/4	4,099.28	3/4	3,823.67	3/4	3,542.98	3/4	3,260.78	3/4	2,978.31	3/4	2,695.83
2		2		2		2		2	4,094.95	2	3,817.82	2	3,537.13	2	3,254.90	2	2,972.42	2	2,689.95
1/4		1/4		1/4		1/4		1/4	4,090.61	1/4	3,811.97	1/4	3,531.28	1/4	3,249.01	1/4	2,966.54	1/4	2,684.06
1/2		1/2		1/2		1/2		1/2	4,085.28	1/2	3,806.12	1/2	3,525.44	1/2	3,243.13	1/2	2,960.65	1/2	2,678.18
3/4		3/4		3/4		3/4		3/4	4,079.94	3/4	3,800.28	3/4	3,519.59	3/4	3,237.24	3/4	2,954.77	3/4	2,672.29
3		3		3		3		3	4,074.61	3	3,794.43	3	3,513.74	3	3,231.36	3	2,948.88	3	2,666.41
1/4		1/4		1/4		1/4		1/4	4,069.27	1/4	3,788.58	1/4	3,507.89	1/4	3,225.47	1/4	2,943.00	1/4	2,660.52
1/2		1/2		1/2		1/2		1/2	4,063.42	1/2	3,782.73	1/2	3,502.02	1/2	3,219.59	1/2	2,937.11	1/2	2,654.64
3/4		3/4		3/4		3/4		3/4	4,057.58	3/4	3,776.89	3/4	3,496.15	3/4	3,213.70	3/4	2,931.23	3/4	2,648.75
4		4		4		4		4	4,051.73	4	3,771.04	4	3,490.28	4	3,207.82	4	2,925.34	4	2,642.87
1/4		1/4		1/4		1/4		1/4	4,045.88	1/4	3,765.19	1/4	3,484.41	1/4	3,201.93	1/4	2,919.46	1/4	2,636.98
1/2		1/2		1/2		1/2		1/2	4,040.03	1/2	3,759.34	1/2	3,478.52	1/2	3,196.05	1/2	2,913.57	1/2	2,631.10
3/4		3/4		3/4		3/4		3/4	4,034.18	3/4	3,753.50	3/4	3,472.64	3/4	3,190.16	3/4	2,907.69	3/4	2,625.21
5		5		5		5		5	4,028.34	5	3,747.65	5	3,466.75	5	3,184.28	5	2,901.80	5	2,619.33
1/4		1/4		1/4		1/4		1/4	4,022.49	1/4	3,741.80	1/4	3,460.87	1/4	3,178.39	1/4	2,895.92	1/4	2,613.44
1/2		1/2		1/2		1/2		1/2	4,016.64	1/2	3,735.95	1/2	3,454.98	1/2	3,172.51	1/2	2,890.03	1/2	2,607.56
3/4		3/4		3/4		3/4		3/4	4,010.79	3/4	3,730.10	3/4	3,449.10	3/4	3,166.62	3/4	2,884.15	3/4	2,601.67
6		6		6		6		6	4,004.95	6	3,724.26	6	3,443.21	6	3,160.74	6	2,878.26	6	2,595.79
1/4		1/4		1/4		1/4		1/4	3,999.10	1/4	3,718.41	1/4	3,437.33	1/4	3,154.85	1/4	2,872.38	1/4	2,589.90
1/2		1/2		1/2		1/2		1/2	3,993.25	1/2	3,712.56	1/2	3,431.44	1/2	3,148.97	1/2	2,866.49	1/2	2,584.02
3/4		3/4		3/4		3/4		3/4	3,987.40	3/4	3,706.71	3/4	3,425.56	3/4	3,143.08	3/4	2,860.61	3/4	2,578.13
7		7		7		7		7	3,981.56	7	3,700.87	7	3,419.67	7	3,137.20	7	2,854.72	7	2,572.25
1/4		1/4		1/4		1/4		1/4	3,975.71	1/4	3,695.02	1/4	3,413.79	1/4	3,131.31	1/4	2,848.84	1/4	2,566.36
1/2		1/2		1/2		1/2		1/2	3,969.86	1/2	3,689.17	1/2	3,407.90	1/2	3,125.43	1/2	2,842.95	1/2	2,560.48
3/4		3/4		3/4		3/4		3/4	3,964.01	3/4	3,683.32	3/4	3,402.02	3/4	3,119.54	3/4	2,837.07	3/4	2,554.59
8		8		8		8		8	3,958.16	8	3,677.48	8	3,396.13	8	3,113.66	8	2,831.18	8	2,548.71
1/4		1/4		1/4		1/4		1/4	3,952.32	1/4	3,671.63	1/4	3,390.25	1/4	3,107.77	1/4	2,825.30	1/4	2,542.82
1/2		1/2		1/2		1/2		1/2	3,946.47	1/2	3,665.78	1/2	3,384.36	1/2	3,101.89	1/2	2,819.41	1/2	2,536.94
3/4		3/4		3/4		3/4		3/4	3,940.62	3/4	3,659.93	3/4	3,378.48	3/4	3,096.00	3/4	2,813.53	3/4	2,531.05
9		9		9		9		9	3,934.77	9	3,654.08	9	3,372.59	9	3,090.12	9	2,807.64	9	2,525.17
1/4		1/4		1/4		1/4		1/4	3,928.93	1/4	3,648.24	1/4	3,366.71	1/4	3,084.23	1/4	2,801.76	1/4	2,519.28
1/2		1/2		1/2		1/2		1/2	3,923.08	1/2	3,642.39	1/2	3,360.82	1/2	3,078.35	1/2	2,795.87	1/2	2,513.40
3/4		3/4		3/4		3/4		3/4	3,917.23	3/4	3,636.54	3/4	3,354.94	3/4	3,072.46	3/4	2,789.99	3/4	2,507.51
10		10		10		10		10	3,911.38	10	3,630.69	10	3,349.05	10	3,066.58	10	2,784.10	10	2,501.63
1/4		1/4		1/4		1/4		1/4	3,905.54	1/4	3,624.85	1/4	3,343.17	1/4	3,060.69	1/4	2,778.22	1/4	2,495.74
1/2		1/2		1/2		1/2		1/2	3,899.69	1/2	3,619.00	1/2	3,337.28	1/2	3,054.81	1/2	2,772.33	1/2	2,489.86
3/4		3/4		3/4		3/4		3/4	3,893.84	3/4	3,613.15	3/4	3,331.40	3/4	3,048.92	3/4	2,766.45	3/4	2,483.97
11		11		11		11		11	3,887.99	11	3,607.30	11	3,325.51	11	3,043.04	11	2,760.56	11	2,478.09
1/4		1/4		1/4		1/4		1/4	3,882.14	1/4	3,601.46	1/4	3,319.63	1/4	3,037.15	1/4	2,754.68	1/4	2,472.20
1/2		1/2		1/2		1/2		1/2	3,876.30	1/2	3,595.61	1/2	3,313.74	1/2	3,031.27	1/2	2,748.79	1/2	2,466.32
3/4		3/4		3/4		3/4		3/4	3,870.45	3/4	3,589.76	3/4	3,307.86	3/4	3,025.38	3/4	2,742.91	3/4	2,460.43

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'-03" OFF CENTERLINE AND 32'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 30313"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,454.55	0	2,172.07	0	1,889.60	0	1,607.12	0	1,324.65	0	1,044.81	0	771.37	0	489.05	0	206.59	0	
1/4	2,448.66	1/4	2,166.19	1/4	1,883.71	1/4	1,601.24	1/4	1,318.76	1/4	1,039.17	1/4	765.49	1/4	483.17	1/4	200.70	1/4	
1/2	2,442.78	1/2	2,160.30	1/2	1,877.83	1/2	1,595.35	1/2	1,312.88	1/2	1,033.53	1/2	759.61	1/2	477.28	1/2	194.82	1/2	
3/4	2,436.89	3/4	2,154.42	3/4	1,871.94	3/4	1,589.47	3/4	1,306.99	3/4	1,027.88	3/4	753.73	3/4	471.40	3/4	188.93	3/4	
1	2,431.01	1	2,148.53	1	1,866.06	1	1,583.58	1	1,301.11	1	1,022.24	1	747.85	1	465.52	1	183.05	1	
1/4	2,425.12	1/4	2,142.65	1/4	1,860.17	1/4	1,577.70	1/4	1,295.22	1/4	1,016.60	1/4	741.98	1/4	459.63	1/4	177.17	1/4	
1/2	2,419.24	1/2	2,136.76	1/2	1,854.29	1/2	1,571.81	1/2	1,289.34	1/2	1,010.96	1/2	736.10	1/2	453.75	1/2	171.28	1/2	
3/4	2,413.35	3/4	2,130.88	3/4	1,848.40	3/4	1,565.93	3/4	1,283.45	3/4	1,005.32	3/4	730.22	3/4	447.86	3/4	165.40	3/4	
2	2,407.47	2	2,124.99	2	1,842.52	2	1,560.04	2	1,277.57	2	999.68	2	724.34	2	441.98	2	159.51	2	
1/4	2,401.59	1/4	2,119.11	1/4	1,836.63	1/4	1,554.16	1/4	1,271.68	1/4	994.04	1/4	718.46	1/4	436.09	1/4	153.63	1/4	
1/2	2,395.70	1/2	2,113.23	1/2	1,830.75	1/2	1,548.27	1/2	1,265.80	1/2	988.40	1/2	712.58	1/2	430.21	1/2	147.74	1/2	
3/4	2,389.82	3/4	2,107.34	3/4	1,824.86	3/4	1,542.39	3/4	1,259.91	3/4	982.76	3/4	706.70	3/4	424.32	3/4	141.86	3/4	
3	2,383.93	3	2,101.46	3	1,818.98	3	1,536.50	3	1,254.03	3	977.11	3	700.82	3	418.44	3	135.97	3	
1/4	2,378.05	1/4	2,095.57	1/4	1,813.10	1/4	1,530.62	1/4	1,248.14	1/4	971.47	1/4	694.94	1/4	412.55	1/4	130.09	1/4	
1/2	2,372.16	1/2	2,089.69	1/2	1,807.21	1/2	1,524.74	1/2	1,242.26	1/2	965.83	1/2	689.06	1/2	406.67	1/2	124.20	1/2	
3/4	2,366.28	3/4	2,083.80	3/4	1,801.33	3/4	1,518.85	3/4	1,236.37	3/4	960.19	3/4	683.18	3/4	400.78	3/4	118.32	3/4	
4	2,360.39	4	2,077.92	4	1,795.44	4	1,512.97	4	1,230.49	4	954.55	4	677.31	4	394.90	4	112.43	4	
1/4	2,354.51	1/4	2,072.03	1/4	1,789.56	1/4	1,507.08	1/4	1,224.61	1/4	948.91	1/4	671.43	1/4	389.01	1/4	106.55	1/4	
1/2	2,348.62	1/2	2,066.15	1/2	1,783.67	1/2	1,501.20	1/2	1,218.72	1/2	943.27	1/2	665.55	1/2	383.13	1/2	100.66	1/2	
3/4	2,342.74	3/4	2,060.26	3/4	1,777.79	3/4	1,495.31	3/4	1,212.84	3/4	937.63	3/4	659.67	3/4	377.24	3/4	94.78	3/4	
5	2,336.85	5	2,054.38	5	1,771.90	5	1,489.43	5	1,206.95	5	931.99	5	653.79	5	371.36	5	88.89	5	
1/4	2,330.97	1/4	2,048.49	1/4	1,766.02	1/4	1,483.54	1/4	1,201.07	1/4	926.35	1/4	647.91	1/4	365.48	1/4	83.01	1/4	
1/2	2,325.08	1/2	2,042.61	1/2	1,760.13	1/2	1,477.66	1/2	1,195.18	1/2	920.71	1/2	642.03	1/2	359.59	1/2	77.13	1/2	
3/4	2,319.20	3/4	2,036.72	3/4	1,754.25	3/4	1,471.77	3/4	1,189.30	3/4	915.07	3/4	636.15	3/4	353.71	3/4	71.24	3/4	
6	2,313.31	6	2,030.84	6	1,748.36	6	1,465.89	6	1,183.41	6	909.43	6	630.27	6	347.82	6	65.36	6	
1/4	2,307.43	1/4	2,024.95	1/4	1,742.48	1/4	1,460.00	1/4	1,177.53	1/4	903.78	1/4	624.39	1/4	341.94	1/4	59.47	1/4	
1/2	2,301.54	1/2	2,019.07	1/2	1,736.59	1/2	1,454.12	1/2	1,171.64	1/2	898.14	1/2	618.51	1/2	336.05	1/2	53.95	1/2	
3/4	2,295.66	3/4	2,013.18	3/4	1,730.71	3/4	1,448.23	3/4	1,165.76	3/4	892.50	3/4	612.63	3/4	330.17	3/4	48.44	3/4	
7	2,289.77	7	2,007.30	7	1,724.82	7	1,442.35	7	1,159.87	7	886.86	7	606.75	7	324.28	7	42.92	7	
1/4	2,283.89	1/4	2,001.41	1/4	1,718.94	1/4	1,436.46	1/4	1,153.99	1/4	881.22	1/4	600.86	1/4	318.40	1/4	37.40	1/4	
1/2	2,278.00	1/2	1,995.53	1/2	1,713.05	1/2	1,430.58	1/2	1,148.10	1/2	875.58	1/2	594.98	1/2	312.51	1/2	32.99	1/2	
3/4	2,272.12	3/4	1,989.64	3/4	1,707.17	3/4	1,424.69	3/4	1,142.22	3/4	869.94	3/4	589.09	3/4	306.63	3/4	28.57	3/4	
8	2,266.23	8	1,983.76	8	1,701.28	8	1,418.81	8	1,136.33	8	864.30	8	583.21	8	300.74	8	24.16	8	
1/4	2,260.35	1/4	1,977.87	1/4	1,695.40	1/4	1,412.92	1/4	1,130.45	1/4	858.65	1/4	577.32	1/4	294.86	1/4	19.75	1/4	
1/2	2,254.46	1/2	1,971.99	1/2	1,689.51	1/2	1,407.04	1/2	1,124.62	1/2	852.95	1/2	571.44	1/2	288.97	1/2		1/2	
3/4	2,248.58	3/4	1,966.10	3/4	1,683.63	3/4	1,401.15	3/4	1,118.80	3/4	847.25	3/4	565.56	3/4	283.09	3/4		3/4	
9	2,242.69	9	1,960.22	9	1,677.74	9	1,395.27	9	1,112.97	9	841.54	9	559.67	9	277.21	9		9	
1/4	2,236.81	1/4	1,954.33	1/4	1,671.86	1/4	1,389.38	1/4	1,107.15	1/4	835.84	1/4	553.79	1/4	271.32	1/4		1/4	
1/2	2,230.92	1/2	1,948.45	1/2	1,665.97	1/2	1,383.50	1/2	1,101.44	1/2	830.01	1/2	547.90	1/2	265.44	1/2		1/2	
3/4	2,225.04	3/4	1,942.56	3/4	1,660.09	3/4	1,377.61	3/4	1,095.74	3/4	824.19	3/4	542.02	3/4	259.55	3/4		3/4	
10	2,219.15	10	1,936.68	10	1,654.20	10	1,371.73	10	1,090.03	10	818.36	10	536.13	10	253.67	10		10	
1/4	2,213.27	1/4	1,930.79	1/4	1,648.32	1/4	1,365.84	1/4	1,084.33	1/4	812.54	1/4	530.25	1/4	247.78	1/4		1/4	
1/2	2,207.38	1/2	1,924.91	1/2	1,642.43	1/2	1,359.96	1/2	1,078.68	1/2	806.65	1/2	524.36	1/2	241.90	1/2		1/2	
3/4	2,201.50	3/4	1,919.02	3/4	1,636.55	3/4	1,354.07	3/4	1,073.03	3/4	800.77	3/4	518.48	3/4	236.01	3/4		3/4	
11	2,195.61	11	1,913.14	11	1,630.66	11	1,348.19	11	1,067.39	11	794.89	11	512.59	11	230.13	11		11	
1/4	2,189.73	1/4	1,907.25	1/4	1,624.78	1/4	1,342.30	1/4	1,061.74	1/4	789.01	1/4	506.71	1/4	224.24	1/4		1/4	
1/2	2,183.84	1/2	1,901.37	1/2	1,618.89	1/2	1,336.42	1/2	1,056.10	1/2	783.13	1/2	500.82	1/2	218.36	1/2		1/2	
3/4	2,177.96	3/4	1,895.48	3/4	1,613.01	3/4	1,330.53	3/4	1,050.46	3/4	777.25	3/4	494.94	3/4	212.47	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/08/2010 CL - SW
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REPRINTED: 09/27/2016 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2016

PRECISION MEASUREMENT
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BARGE "KIRBY 30313"

3 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-08"

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	3,742.84	0	3,471.39	0	3,198.73	0	2,925.55	0	2,652.37
1/4		1/4		1/4		1/4		1/4		1/4	3,737.19	1/4	3,465.74	1/4	3,193.04	1/4	2,919.86	1/4	2,646.68
1/2		1/2		1/2		1/2		1/2	3,990.48	1/2	3,731.53	1/2	3,460.08	1/2	3,187.35	1/2	2,914.17	1/2	2,640.99
3/4		3/4		3/4		3/4		3/4	3,987.22	3/4	3,725.88	3/4	3,454.42	3/4	3,181.66	3/4	2,908.48	3/4	2,635.30
1		1		1		1		1	3,983.95	1	3,720.22	1	3,448.77	1	3,175.97	1	2,902.79	1	2,629.60
1/4		1/4		1/4		1/4		1/4	3,979.74	1/4	3,714.57	1/4	3,443.11	1/4	3,170.28	1/4	2,897.10	1/4	2,623.91
1/2		1/2		1/2		1/2		1/2	3,975.53	1/2	3,708.91	1/2	3,437.46	1/2	3,164.59	1/2	2,891.40	1/2	2,618.22
3/4		3/4		3/4		3/4		3/4	3,971.32	3/4	3,703.26	3/4	3,431.80	3/4	3,158.90	3/4	2,885.71	3/4	2,612.53
2		2		2		2		2	3,967.11	2	3,697.60	2	3,426.15	2	3,153.20	2	2,880.02	2	2,606.84
1/4		1/4		1/4		1/4		1/4	3,961.94	1/4	3,691.95	1/4	3,420.49	1/4	3,147.51	1/4	2,874.33	1/4	2,601.15
1/2		1/2		1/2		1/2		1/2	3,956.77	1/2	3,686.29	1/2	3,414.84	1/2	3,141.82	1/2	2,868.64	1/2	2,595.46
3/4		3/4		3/4		3/4		3/4	3,951.61	3/4	3,680.64	3/4	3,409.18	3/4	3,136.13	3/4	2,862.95	3/4	2,589.77
3		3		3		3		3	3,946.44	3	3,674.98	3	3,403.53	3	3,130.44	3	2,857.26	3	2,584.07
1/4		1/4		1/4		1/4		1/4	3,940.78	1/4	3,669.33	1/4	3,397.86	1/4	3,124.75	1/4	2,851.57	1/4	2,578.38
1/2		1/2		1/2		1/2		1/2	3,935.12	1/2	3,663.67	1/2	3,392.19	1/2	3,119.06	1/2	2,845.87	1/2	2,572.69
3/4		3/4		3/4		3/4		3/4	3,929.47	3/4	3,658.02	3/4	3,386.52	3/4	3,113.36	3/4	2,840.18	3/4	2,567.00
4		4		4		4		4	3,923.81	4	3,652.36	4	3,380.86	4	3,107.67	4	2,834.49	4	2,561.31
1/4		1/4		1/4		1/4		1/4	3,918.16	1/4	3,646.70	1/4	3,375.16	1/4	3,101.98	1/4	2,828.80	1/4	2,555.62
1/2		1/2		1/2		1/2		1/2	3,912.50	1/2	3,641.05	1/2	3,369.47	1/2	3,096.29	1/2	2,823.11	1/2	2,549.93
3/4		3/4		3/4		3/4		3/4	3,906.85	3/4	3,635.39	3/4	3,363.78	3/4	3,090.60	3/4	2,817.42	3/4	2,544.23
5		5		5		5		5	3,901.19	5	3,629.74	5	3,358.09	5	3,084.91	5	2,811.73	5	2,538.54
1/4		1/4		1/4		1/4		1/4	3,895.54	1/4	3,624.08	1/4	3,352.40	1/4	3,079.22	1/4	2,806.03	1/4	2,532.85
1/2		1/2		1/2		1/2		1/2	3,889.88	1/2	3,618.43	1/2	3,346.71	1/2	3,073.53	1/2	2,800.34	1/2	2,527.16
3/4		3/4		3/4		3/4		3/4	3,884.23	3/4	3,612.77	3/4	3,341.02	3/4	3,067.83	3/4	2,794.65	3/4	2,521.47
6		6		6		6		6	3,878.57	6	3,607.12	6	3,335.33	6	3,062.14	6	2,788.96	6	2,515.78
1/4		1/4		1/4		1/4		1/4	3,872.92	1/4	3,601.46	1/4	3,329.63	1/4	3,056.45	1/4	2,783.27	1/4	2,510.09
1/2		1/2		1/2		1/2		1/2	3,867.26	1/2	3,595.81	1/2	3,323.94	1/2	3,050.76	1/2	2,777.58	1/2	2,504.40
3/4		3/4		3/4		3/4		3/4	3,861.61	3/4	3,590.15	3/4	3,318.25	3/4	3,045.07	3/4	2,771.89	3/4	2,498.70
7		7		7		7		7	3,855.95	7	3,584.50	7	3,312.56	7	3,039.38	7	2,766.20	7	2,493.01
1/4		1/4		1/4		1/4		1/4	3,850.30	1/4	3,578.84	1/4	3,306.87	1/4	3,033.69	1/4	2,760.50	1/4	2,487.32
1/2		1/2		1/2		1/2		1/2	3,844.64	1/2	3,573.19	1/2	3,301.18	1/2	3,028.00	1/2	2,754.81	1/2	2,481.63
3/4		3/4		3/4		3/4		3/4	3,838.98	3/4	3,567.53	3/4	3,295.49	3/4	3,022.30	3/4	2,749.12	3/4	2,475.94
8		8		8		8		8	3,833.33	8	3,561.88	8	3,289.80	8	3,016.61	8	2,743.43	8	2,470.25
1/4		1/4		1/4		1/4		1/4	3,827.67	1/4	3,556.22	1/4	3,284.10	1/4	3,010.92	1/4	2,737.74	1/4	2,464.56
1/2		1/2		1/2		1/2		1/2	3,822.02	1/2	3,550.56	1/2	3,278.41	1/2	3,005.23	1/2	2,732.05	1/2	2,458.87
3/4		3/4		3/4		3/4		3/4	3,816.36	3/4	3,544.91	3/4	3,272.72	3/4	2,999.54	3/4	2,726.36	3/4	2,453.17
9		9		9		9		9	3,810.71	9	3,539.25	9	3,267.03	9	2,993.85	9	2,720.67	9	2,447.48
1/4		1/4		1/4		1/4		1/4	3,805.05	1/4	3,533.60	1/4	3,261.34	1/4	2,988.16	1/4	2,714.97	1/4	2,441.79
1/2		1/2		1/2		1/2		1/2	3,799.40	1/2	3,527.94	1/2	3,255.65	1/2	2,982.46	1/2	2,709.28	1/2	2,436.10
3/4		3/4		3/4		3/4		3/4	3,793.74	3/4	3,522.29	3/4	3,249.96	3/4	2,976.77	3/4	2,703.59	3/4	2,430.41
10		10		10		10		10	3,788.09	10	3,516.63	10	3,244.26	10	2,971.08	10	2,697.90	10	2,424.72
1/4		1/4		1/4		1/4		1/4	3,782.43	1/4	3,510.98	1/4	3,238.57	1/4	2,965.39	1/4	2,692.21	1/4	2,419.03
1/2		1/2		1/2		1/2		1/2	3,776.78	1/2	3,505.32	1/2	3,232.88	1/2	2,959.70	1/2	2,686.52	1/2	2,413.33
3/4		3/4		3/4		3/4		3/4	3,771.12	3/4	3,499.67	3/4	3,227.19	3/4	2,954.01	3/4	2,680.83	3/4	2,407.64
11		11		11		11		11	3,765.47	11	3,494.01	11	3,221.50	11	2,948.32	11	2,675.13	11	2,401.95
1/4		1/4		1/4		1/4		1/4	3,759.81	1/4	3,488.36	1/4	3,215.81	1/4	2,942.63	1/4	2,669.44	1/4	2,396.26
1/2		1/2		1/2		1/2		1/2	3,754.16	1/2	3,482.70	1/2	3,210.12	1/2	2,936.93	1/2	2,663.75	1/2	2,390.57
3/4		3/4		3/4		3/4		3/4	3,748.50	3/4	3,477.05	3/4	3,204.43	3/4	2,931.24	3/4	2,658.06	3/4	2,384.88

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 11'-03" OFF CENTERLINE AND 32'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 30313"

3 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,379.19	0	2,106.00	0	1,832.82	0	1,559.64	0	1,286.46	0	1,013.28	0	740.12	0	467.10	0	194.12	0	
1/4	2,373.50	1/4	2,100.31	1/4	1,827.13	1/4	1,553.95	1/4	1,280.77	1/4	1,007.58	1/4	734.43	1/4	461.42	1/4	188.43	1/4	
1/2	2,367.80	1/2	2,094.62	1/2	1,821.44	1/2	1,548.26	1/2	1,275.07	1/2	1,001.89	1/2	728.75	1/2	455.73	1/2	182.74	1/2	
3/4	2,362.11	3/4	2,088.93	3/4	1,815.75	3/4	1,542.57	3/4	1,269.38	3/4	996.20	3/4	723.06	3/4	450.05	3/4	177.04	3/4	
1	2,356.42	1	2,083.24	1	1,810.06	1	1,536.87	1	1,263.69	1	990.51	1	717.37	1	444.37	1	171.35	1	
1/4	2,350.73	1/4	2,077.55	1/4	1,804.37	1/4	1,531.18	1/4	1,258.00	1/4	984.82	1/4	711.68	1/4	438.68	1/4	165.66	1/4	
1/2	2,345.04	1/2	2,071.86	1/2	1,798.67	1/2	1,525.49	1/2	1,252.31	1/2	979.13	1/2	705.99	1/2	433.00	1/2	159.97	1/2	
3/4	2,339.35	3/4	2,066.17	3/4	1,792.98	3/4	1,519.80	3/4	1,246.62	3/4	973.44	3/4	700.30	3/4	427.32	3/4	154.28	3/4	
2	2,333.66	2	2,060.47	2	1,787.29	2	1,514.11	2	1,240.93	2	967.74	2	694.61	2	421.63	2	148.59	2	
1/4	2,327.97	1/4	2,054.78	1/4	1,781.60	1/4	1,508.42	1/4	1,235.24	1/4	962.05	1/4	688.92	1/4	415.95	1/4	142.90	1/4	
1/2	2,322.27	1/2	2,049.09	1/2	1,775.91	1/2	1,502.73	1/2	1,229.54	1/2	956.36	1/2	683.23	1/2	410.27	1/2	137.21	1/2	
3/4	2,316.58	3/4	2,043.40	3/4	1,770.22	3/4	1,497.04	3/4	1,223.85	3/4	950.67	3/4	677.54	3/4	404.58	3/4	131.52	3/4	
3	2,310.89	3	2,037.71	3	1,764.53	3	1,491.34	3	1,218.16	3	944.98	3	671.86	3	398.90	3	125.83	3	
1/4	2,305.20	1/4	2,032.02	1/4	1,758.84	1/4	1,485.65	1/4	1,212.47	1/4	939.29	1/4	666.17	1/4	393.22	1/4	120.13	1/4	
1/2	2,299.51	1/2	2,026.33	1/2	1,753.14	1/2	1,479.96	1/2	1,206.78	1/2	933.60	1/2	660.48	1/2	387.53	1/2	114.44	1/2	
3/4	2,293.82	3/4	2,020.64	3/4	1,747.45	3/4	1,474.27	3/4	1,201.09	3/4	927.91	3/4	654.79	3/4	381.85	3/4	108.75	3/4	
4	2,288.13	4	2,014.94	4	1,741.76	4	1,468.58	4	1,195.40	4	922.21	4	649.10	4	376.17	4	103.06	4	
1/4	2,282.44	1/4	2,009.25	1/4	1,736.07	1/4	1,462.89	1/4	1,189.71	1/4	916.52	1/4	643.41	1/4	370.49	1/4	97.37	1/4	
1/2	2,276.74	1/2	2,003.56	1/2	1,730.38	1/2	1,457.20	1/2	1,184.01	1/2	910.83	1/2	637.72	1/2	364.80	1/2	91.68	1/2	
3/4	2,271.05	3/4	1,997.87	3/4	1,724.69	3/4	1,451.51	3/4	1,178.32	3/4	905.14	3/4	632.03	3/4	359.12	3/4	85.99	3/4	
5	2,265.36	5	1,992.18	5	1,719.00	5	1,445.81	5	1,172.63	5	899.45	5	626.34	5	353.44	5	80.30	5	
1/4	2,259.67	1/4	1,986.49	1/4	1,713.31	1/4	1,440.12	1/4	1,166.94	1/4	893.76	1/4	620.65	1/4	347.75	1/4	74.61	1/4	
1/2	2,253.98	1/2	1,980.80	1/2	1,707.61	1/2	1,434.43	1/2	1,161.25	1/2	888.07	1/2	614.97	1/2	342.07	1/2	68.92	1/2	
3/4	2,248.29	3/4	1,975.10	3/4	1,701.92	3/4	1,428.74	3/4	1,155.56	3/4	882.38	3/4	609.28	3/4	336.38	3/4	63.22	3/4	
6	2,242.60	6	1,969.41	6	1,696.23	6	1,423.05	6	1,149.87	6	876.68	6	603.59	6	330.70	6	57.53	6	
1/4	2,236.90	1/4	1,963.72	1/4	1,690.54	1/4	1,417.36	1/4	1,144.18	1/4	870.99	1/4	597.90	1/4	325.01	1/4	52.20	1/4	
1/2	2,231.21	1/2	1,958.03	1/2	1,684.85	1/2	1,411.67	1/2	1,138.48	1/2	865.30	1/2	592.21	1/2	319.32	1/2	46.86	1/2	
3/4	2,225.52	3/4	1,952.34	3/4	1,679.16	3/4	1,405.97	3/4	1,132.79	3/4	859.61	3/4	586.52	3/4	313.63	3/4	41.53	3/4	
7	2,219.83	7	1,946.65	7	1,673.47	7	1,400.28	7	1,127.10	7	853.92	7	580.83	7	307.94	7	36.19	7	
1/4	2,214.14	1/4	1,940.96	1/4	1,667.77	1/4	1,394.59	1/4	1,121.41	1/4	848.23	1/4	575.14	1/4	302.25	1/4	31.92	1/4	
1/2	2,208.45	1/2	1,935.27	1/2	1,662.08	1/2	1,388.90	1/2	1,115.72	1/2	842.54	1/2	569.45	1/2	296.56	1/2	27.65	1/2	
3/4	2,202.76	3/4	1,929.57	3/4	1,656.39	3/4	1,383.21	3/4	1,110.03	3/4	836.84	3/4	563.76	3/4	290.86	3/4	23.39	3/4	
8	2,197.07	8	1,923.88	8	1,650.70	8	1,377.52	8	1,104.34	8	831.15	8	558.08	8	285.17	8	19.12	8	
1/4	2,191.37	1/4	1,918.19	1/4	1,645.01	1/4	1,371.83	1/4	1,098.64	1/4	825.46	1/4	552.39	1/4	279.48	1/4		1/4	
1/2	2,185.68	1/2	1,912.50	1/2	1,639.32	1/2	1,366.14	1/2	1,092.95	1/2	819.77	1/2	546.70	1/2	273.79	1/2		1/2	
3/4	2,179.99	3/4	1,906.81	3/4	1,633.63	3/4	1,360.44	3/4	1,087.26	3/4	814.08	3/4	541.01	3/4	268.10	3/4		3/4	
9	2,174.30	9	1,901.12	9	1,627.94	9	1,354.75	9	1,081.57	9	808.39	9	535.32	9	262.41	9		9	
1/4	2,168.61	1/4	1,895.43	1/4	1,622.24	1/4	1,349.06	1/4	1,075.88	1/4	802.70	1/4	529.63	1/4	256.72	1/4		1/4	
1/2	2,162.92	1/2	1,889.74	1/2	1,616.55	1/2	1,343.37	1/2	1,070.19	1/2	797.01	1/2	523.94	1/2	251.03	1/2		1/2	
3/4	2,157.23	3/4	1,884.04	3/4	1,610.86	3/4	1,337.68	3/4	1,064.50	3/4	791.32	3/4	518.26	3/4	245.34	3/4		3/4	
10	2,151.54	10	1,878.35	10	1,605.17	10	1,331.99	10	1,058.81	10	785.64	10	512.57	10	239.65	10		10	
1/4	2,145.84	1/4	1,872.66	1/4	1,599.48	1/4	1,326.30	1/4	1,053.11	1/4	779.95	1/4	506.89	1/4	233.95	1/4		1/4	
1/2	2,140.15	1/2	1,866.97	1/2	1,593.79	1/2	1,320.61	1/2	1,047.42	1/2	774.26	1/2	501.20	1/2	228.26	1/2		1/2	
3/4	2,134.46	3/4	1,861.28	3/4	1,588.10	3/4	1,314.91	3/4	1,041.73	3/4	768.57	3/4	495.52	3/4	222.57	3/4		3/4	
11	2,128.77	11	1,855.59	11	1,582.41	11	1,309.22	11	1,036.04	11	762.88	11	489.83	11	216.88	11		11	
1/4	2,123.08	1/4	1,849.90	1/4	1,576.71	1/4	1,303.53	1/4	1,030.35	1/4	757.19	1/4	484.15	1/4	211.19	1/4		1/4	
1/2	2,117.39	1/2	1,844.20	1/2	1,571.02	1/2	1,297.84	1/2	1,024.66	1/2	751.50	1/2	478.47	1/2	205.50	1/2		1/2	
3/4	2,111.70	3/4	1,838.51	3/4	1,565.33	3/4	1,292.15	3/4	1,018.97	3/4	745.81	3/4	472.78	3/4	199.81	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/08/2010 CL - SW
CALCULATED: 06/09/2010 CL
REPRINTED: 09/27/2016 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2016

PRECISION MEASUREMENT
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BARGE "KIRBY 30313"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-08"

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	3,858.75	0	3,578.06	0	3,296.09	0	3,013.61	0	2,731.14
1/4		1/4		1/4		1/4		1/4		1/4	3,852.91	1/4	3,572.22	1/4	3,290.21	1/4	3,007.73	1/4	2,725.25
1/2		1/2		1/2		1/2		1/2	4,114.64	1/2	3,847.06	1/2	3,566.37	1/2	3,284.32	1/2	3,001.84	1/2	2,719.37
3/4		3/4		3/4		3/4		3/4	4,111.29	3/4	3,841.21	3/4	3,560.52	3/4	3,278.44	3/4	2,995.96	3/4	2,713.48
1		1		1		1		1	4,107.94	1	3,835.36	1	3,554.67	1	3,272.55	1	2,990.08	1	2,707.60
1/4		1/4		1/4		1/4		1/4	4,103.61	1/4	3,829.52	1/4	3,548.83	1/4	3,266.67	1/4	2,984.19	1/4	2,701.72
1/2		1/2		1/2		1/2		1/2	4,099.28	1/2	3,823.67	1/2	3,542.98	1/2	3,260.78	1/2	2,978.31	1/2	2,695.83
3/4		3/4		3/4		3/4		3/4	4,094.95	3/4	3,817.82	3/4	3,537.13	3/4	3,254.90	3/4	2,972.42	3/4	2,689.95
2		2		2		2		2	4,090.61	2	3,811.97	2	3,531.28	2	3,249.01	2	2,966.54	2	2,684.06
1/4		1/4		1/4		1/4		1/4	4,085.28	1/4	3,806.12	1/4	3,525.44	1/4	3,243.13	1/4	2,960.65	1/4	2,678.18
1/2		1/2		1/2		1/2		1/2	4,079.94	1/2	3,800.28	1/2	3,519.59	1/2	3,237.24	1/2	2,954.77	1/2	2,672.29
3/4		3/4		3/4		3/4		3/4	4,074.61	3/4	3,794.43	3/4	3,513.74	3/4	3,231.36	3/4	2,948.88	3/4	2,666.41
3		3		3		3		3	4,069.27	3	3,788.58	3	3,507.89	3	3,225.47	3	2,943.00	3	2,660.52
1/4		1/4		1/4		1/4		1/4	4,063.42	1/4	3,782.73	1/4	3,502.02	1/4	3,219.59	1/4	2,937.11	1/4	2,654.64
1/2		1/2		1/2		1/2		1/2	4,057.58	1/2	3,776.89	1/2	3,496.15	1/2	3,213.70	1/2	2,931.23	1/2	2,648.75
3/4		3/4		3/4		3/4		3/4	4,051.73	3/4	3,771.04	3/4	3,490.28	3/4	3,207.82	3/4	2,925.34	3/4	2,642.87
4		4		4		4		4	4,045.88	4	3,765.19	4	3,484.41	4	3,201.93	4	2,919.46	4	2,636.98
1/4		1/4		1/4		1/4		1/4	4,040.03	1/4	3,759.34	1/4	3,478.52	1/4	3,196.05	1/4	2,913.57	1/4	2,631.10
1/2		1/2		1/2		1/2		1/2	4,034.18	1/2	3,753.50	1/2	3,472.64	1/2	3,190.16	1/2	2,907.69	1/2	2,625.21
3/4		3/4		3/4		3/4		3/4	4,028.34	3/4	3,747.65	3/4	3,466.75	3/4	3,184.28	3/4	2,901.80	3/4	2,619.33
5		5		5		5		5	4,022.49	5	3,741.80	5	3,460.87	5	3,178.39	5	2,895.92	5	2,613.44
1/4		1/4		1/4		1/4		1/4	4,016.64	1/4	3,735.95	1/4	3,454.98	1/4	3,172.51	1/4	2,890.03	1/4	2,607.56
1/2		1/2		1/2		1/2		1/2	4,010.79	1/2	3,730.10	1/2	3,449.10	1/2	3,166.62	1/2	2,884.15	1/2	2,601.67
3/4		3/4		3/4		3/4		3/4	4,004.95	3/4	3,724.26	3/4	3,443.21	3/4	3,160.74	3/4	2,878.26	3/4	2,595.79
6		6		6		6		6	3,999.10	6	3,718.41	6	3,437.33	6	3,154.85	6	2,872.38	6	2,589.90
1/4		1/4		1/4		1/4		1/4	3,993.25	1/4	3,712.56	1/4	3,431.44	1/4	3,148.97	1/4	2,866.49	1/4	2,584.02
1/2		1/2		1/2		1/2		1/2	3,987.40	1/2	3,706.71	1/2	3,425.56	1/2	3,143.08	1/2	2,860.61	1/2	2,578.13
3/4		3/4		3/4		3/4		3/4	3,981.56	3/4	3,700.87	3/4	3,419.67	3/4	3,137.20	3/4	2,854.72	3/4	2,572.25
7		7		7		7		7	3,975.71	7	3,695.02	7	3,413.79	7	3,131.31	7	2,848.84	7	2,566.36
1/4		1/4		1/4		1/4		1/4	3,969.86	1/4	3,689.17	1/4	3,407.90	1/4	3,125.43	1/4	2,842.95	1/4	2,560.48
1/2		1/2		1/2		1/2		1/2	3,964.01	1/2	3,683.32	1/2	3,402.02	1/2	3,119.54	1/2	2,837.07	1/2	2,554.59
3/4		3/4		3/4		3/4		3/4	3,958.16	3/4	3,677.48	3/4	3,396.13	3/4	3,113.66	3/4	2,831.18	3/4	2,548.71
8		8		8		8		8	3,952.32	8	3,671.63	8	3,390.25	8	3,107.77	8	2,825.30	8	2,542.82
1/4		1/4		1/4		1/4		1/4	3,946.47	1/4	3,665.78	1/4	3,384.36	1/4	3,101.89	1/4	2,819.41	1/4	2,536.94
1/2		1/2		1/2		1/2		1/2	3,940.62	1/2	3,659.93	1/2	3,378.48	1/2	3,096.00	1/2	2,813.53	1/2	2,531.05
3/4		3/4		3/4		3/4		3/4	3,934.77	3/4	3,654.08	3/4	3,372.59	3/4	3,090.12	3/4	2,807.64	3/4	2,525.17
9		9		9		9		9	3,928.93	9	3,648.24	9	3,366.71	9	3,084.23	9	2,801.76	9	2,519.28
1/4		1/4		1/4		1/4		1/4	3,923.08	1/4	3,642.39	1/4	3,360.82	1/4	3,078.35	1/4	2,795.87	1/4	2,513.40
1/2		1/2		1/2		1/2		1/2	3,917.23	1/2	3,636.54	1/2	3,354.94	1/2	3,072.46	1/2	2,789.99	1/2	2,507.51
3/4		3/4		3/4		3/4		3/4	3,911.38	3/4	3,630.69	3/4	3,349.05	3/4	3,066.58	3/4	2,784.10	3/4	2,501.63
10		10		10		10		10	3,905.54	10	3,624.85	10	3,343.17	10	3,060.69	10	2,778.22	10	2,495.74
1/4		1/4		1/4		1/4		1/4	3,899.69	1/4	3,619.00	1/4	3,337.28	1/4	3,054.81	1/4	2,772.33	1/4	2,489.86
1/2		1/2		1/2		1/2		1/2	3,893.84	1/2	3,613.15	1/2	3,331.40	1/2	3,048.92	1/2	2,766.45	1/2	2,483.97
3/4		3/4		3/4		3/4		3/4	3,887.99	3/4	3,607.30	3/4	3,325.51	3/4	3,043.04	3/4	2,760.56	3/4	2,478.09
11		11		11		11		11	3,882.14	11	3,601.46	11	3,319.63	11	3,037.15	11	2,754.68	11	2,472.20
1/4		1/4		1/4		1/4		1/4	3,876.30	1/4	3,595.61	1/4	3,313.74	1/4	3,031.27	1/4	2,748.79	1/4	2,466.32
1/2		1/2		1/2		1/2		1/2	3,870.45	1/2	3,589.76	1/2	3,307.86	1/2	3,025.38	1/2	2,742.91	1/2	2,460.43
3/4		3/4		3/4		3/4		3/4	3,864.60	3/4	3,583.91	3/4	3,301.97	3/4	3,019.50	3/4	2,737.02	3/4	2,454.55

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'-03" OFF CENTERLINE AND 32'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 30313"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 18'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,448.66	0	2,166.19	0	1,883.71	0	1,601.24	0	1,318.76	0	1,039.17	0	765.49	0	483.17	0	200.70	0	
1/4	2,442.78	1/4	2,160.30	1/4	1,877.83	1/4	1,595.35	1/4	1,312.88	1/4	1,033.53	1/4	759.61	1/4	477.28	1/4	194.82	1/4	
1/2	2,436.89	1/2	2,154.42	1/2	1,871.94	1/2	1,589.47	1/2	1,306.99	1/2	1,027.88	1/2	753.73	1/2	471.40	1/2	188.93	1/2	
3/4	2,431.01	3/4	2,148.53	3/4	1,866.06	3/4	1,583.58	3/4	1,301.11	3/4	1,022.24	3/4	747.85	3/4	465.52	3/4	183.05	3/4	
1	2,425.12	1	2,142.65	1	1,860.17	1	1,577.70	1	1,295.22	1	1,016.60	1	741.98	1	459.63	1	177.17	1	
1/4	2,419.24	1/4	2,136.76	1/4	1,854.29	1/4	1,571.81	1/4	1,289.34	1/4	1,010.96	1/4	736.10	1/4	453.75	1/4	171.28	1/4	
1/2	2,413.35	1/2	2,130.88	1/2	1,848.40	1/2	1,565.93	1/2	1,283.45	1/2	1,005.32	1/2	730.22	1/2	447.86	1/2	165.40	1/2	
3/4	2,407.47	3/4	2,124.99	3/4	1,842.52	3/4	1,560.04	3/4	1,277.57	3/4	999.68	3/4	724.34	3/4	441.98	3/4	159.51	3/4	
2	2,401.59	2	2,119.11	2	1,836.63	2	1,554.16	2	1,271.68	2	994.04	2	718.46	2	436.09	2	153.63	2	
1/4	2,395.70	1/4	2,113.23	1/4	1,830.75	1/4	1,548.27	1/4	1,265.80	1/4	988.40	1/4	712.58	1/4	430.21	1/4	147.74	1/4	
1/2	2,389.82	1/2	2,107.34	1/2	1,824.86	1/2	1,542.39	1/2	1,259.91	1/2	982.76	1/2	706.70	1/2	424.32	1/2	141.86	1/2	
3/4	2,383.93	3/4	2,101.46	3/4	1,818.98	3/4	1,536.50	3/4	1,254.03	3/4	977.11	3/4	700.82	3/4	418.44	3/4	135.97	3/4	
3	2,378.05	3	2,095.57	3	1,813.10	3	1,530.62	3	1,248.14	3	971.47	3	694.94	3	412.55	3	130.09	3	
1/4	2,372.16	1/4	2,089.69	1/4	1,807.21	1/4	1,524.74	1/4	1,242.26	1/4	965.83	1/4	689.06	1/4	406.67	1/4	124.20	1/4	
1/2	2,366.28	1/2	2,083.80	1/2	1,801.33	1/2	1,518.85	1/2	1,236.37	1/2	960.19	1/2	683.18	1/2	400.78	1/2	118.32	1/2	
3/4	2,360.39	3/4	2,077.92	3/4	1,795.44	3/4	1,512.97	3/4	1,230.49	3/4	954.55	3/4	677.31	3/4	394.90	3/4	112.43	3/4	
4	2,354.51	4	2,072.03	4	1,789.56	4	1,507.08	4	1,224.61	4	948.91	4	671.43	4	389.01	4	106.55	4	
1/4	2,348.62	1/4	2,066.15	1/4	1,783.67	1/4	1,501.20	1/4	1,218.72	1/4	943.27	1/4	665.55	1/4	383.13	1/4	100.66	1/4	
1/2	2,342.74	1/2	2,060.26	1/2	1,777.79	1/2	1,495.31	1/2	1,212.84	1/2	937.63	1/2	659.67	1/2	377.24	1/2	94.78	1/2	
3/4	2,336.85	3/4	2,054.38	3/4	1,771.90	3/4	1,489.43	3/4	1,206.95	3/4	931.99	3/4	653.79	3/4	371.36	3/4	88.89	3/4	
5	2,330.97	5	2,048.49	5	1,766.02	5	1,483.54	5	1,201.07	5	926.35	5	647.91	5	365.48	5	83.01	5	
1/4	2,325.08	1/4	2,042.61	1/4	1,760.13	1/4	1,477.66	1/4	1,195.18	1/4	920.71	1/4	642.03	1/4	359.59	1/4	77.13	1/4	
1/2	2,319.20	1/2	2,036.72	1/2	1,754.25	1/2	1,471.77	1/2	1,189.30	1/2	915.07	1/2	636.15	1/2	353.71	1/2	71.24	1/2	
3/4	2,313.31	3/4	2,030.84	3/4	1,748.36	3/4	1,465.89	3/4	1,183.41	3/4	909.43	3/4	630.27	3/4	347.82	3/4	65.36	3/4	
6	2,307.43	6	2,024.95	6	1,742.48	6	1,460.00	6	1,177.53	6	903.78	6	624.39	6	341.94	6	59.47	6	
1/4	2,301.54	1/4	2,019.07	1/4	1,736.59	1/4	1,454.12	1/4	1,171.64	1/4	898.14	1/4	618.51	1/4	336.05	1/4	53.95	1/4	
1/2	2,295.66	1/2	2,013.18	1/2	1,730.71	1/2	1,448.23	1/2	1,165.76	1/2	892.50	1/2	612.63	1/2	330.17	1/2	48.44	1/2	
3/4	2,289.77	3/4	2,007.30	3/4	1,724.82	3/4	1,442.35	3/4	1,159.87	3/4	886.86	3/4	606.75	3/4	324.28	3/4	42.92	3/4	
7	2,283.89	7	2,001.41	7	1,718.94	7	1,436.46	7	1,153.99	7	881.22	7	600.86	7	318.40	7	37.40	7	
1/4	2,278.00	1/4	1,995.53	1/4	1,713.05	1/4	1,430.58	1/4	1,148.10	1/4	875.58	1/4	594.98	1/4	312.51	1/4	32.99	1/4	
1/2	2,272.12	1/2	1,989.64	1/2	1,707.17	1/2	1,424.69	1/2	1,142.22	1/2	869.94	1/2	589.09	1/2	306.63	1/2	28.57	1/2	
3/4	2,266.23	3/4	1,983.76	3/4	1,701.28	3/4	1,418.81	3/4	1,136.33	3/4	864.30	3/4	583.21	3/4	300.74	3/4	24.16	3/4	
8	2,260.35	8	1,977.87	8	1,695.40	8	1,412.92	8	1,130.45	8	858.65	8	577.32	8	294.86	8	19.75	8	
1/4	2,254.46	1/4	1,971.99	1/4	1,689.51	1/4	1,407.04	1/4	1,124.62	1/4	852.95	1/4	571.44	1/4	288.97	1/4		1/4	
1/2	2,248.58	1/2	1,966.10	1/2	1,683.63	1/2	1,401.15	1/2	1,118.80	1/2	847.25	1/2	565.56	1/2	283.09	1/2		1/2	
3/4	2,242.69	3/4	1,960.22	3/4	1,677.74	3/4	1,395.27	3/4	1,112.97	3/4	841.54	3/4	559.67	3/4	277.21	3/4		3/4	
9	2,236.81	9	1,954.33	9	1,671.86	9	1,389.38	9	1,107.15	9	835.84	9	553.79	9	271.32	9		9	
1/4	2,230.92	1/4	1,948.45	1/4	1,665.97	1/4	1,383.50	1/4	1,101.44	1/4	830.01	1/4	547.90	1/4	265.44	1/4		1/4	
1/2	2,225.04	1/2	1,942.56	1/2	1,660.09	1/2	1,377.61	1/2	1,095.74	1/2	824.19	1/2	542.02	1/2	259.55	1/2		1/2	
3/4	2,219.15	3/4	1,936.68	3/4	1,654.20	3/4	1,371.73	3/4	1,090.03	3/4	818.36	3/4	536.13	3/4	253.67	3/4		3/4	
10	2,213.27	10	1,930.79	10	1,648.32	10	1,365.84	10	1,084.33	10	812.54	10	530.25	10	247.78	10		10	
1/4	2,207.38	1/4	1,924.91	1/4	1,642.43	1/4	1,359.96	1/4	1,078.68	1/4	806.65	1/4	524.36	1/4	241.90	1/4		1/4	
1/2	2,201.50	1/2	1,919.02	1/2	1,636.55	1/2	1,354.07	1/2	1,073.03	1/2	800.77	1/2	518.48	1/2	236.01	1/2		1/2	
3/4	2,195.61	3/4	1,913.14	3/4	1,630.66	3/4	1,348.19	3/4	1,067.39	3/4	794.89	3/4	512.59	3/4	230.13	3/4		3/4	
11	2,189.73	11	1,907.25	11	1,624.78	11	1,342.30	11	1,061.74	11	789.01	11	506.71	11	224.24	11		11	
1/4	2,183.84	1/4	1,901.37	1/4	1,618.89	1/4	1,336.42	1/4	1,056.10	1/4	783.13	1/4	500.82	1/4	218.36	1/4		1/4	
1/2	2,177.96	1/2	1,895.48	1/2	1,613.01	1/2	1,330.53	1/2	1,050.46	1/2	777.25	1/2	494.94	1/2	212.47	1/2		1/2	
3/4	2,172.07	3/4	1,889.60	3/4	1,607.12	3/4	1,324.65	3/4	1,044.81	3/4	771.37	3/4	489.05	3/4	206.59	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/08/2010 CL - SW
CALCULATED: 06/09/2010 CL
REPRINTED: 09/27/2016 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2016

PRECISION MEASUREMENT
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BARGE "KIRBY 30313"

4 CENTER

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 19'-00 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0		0	6,645.74	0	6,291.46	0	5,936.20	0	5,563.67	0	5,056.98
1/4		1/4		1/4		1/4		1/4		1/4	6,638.36	1/4	6,284.08	1/4	5,928.77	1/4	5,553.08	1/4	5,046.41
1/2		1/2		1/2		1/2		1/2		1/2	6,630.98	1/2	6,276.70	1/2	5,921.34	1/2	5,542.48	1/2	5,035.84
3/4		3/4		3/4		3/4		3/4	6,880.23	3/4	6,623.60	3/4	6,269.32	3/4	5,913.91	3/4	5,531.89	3/4	5,025.27
1		1		1		1		1	6,879.73	1	6,616.21	1	6,261.94	1	5,906.47	1	5,521.29	1	5,014.70
1/4		1/4		1/4		1/4		1/4	6,879.23	1/4	6,608.83	1/4	6,254.56	1/4	5,899.04	1/4	5,510.69	1/4	5,004.13
1/2		1/2		1/2		1/2		1/2	6,878.73	1/2	6,601.45	1/2	6,247.17	1/2	5,891.61	1/2	5,500.10	1/2	4,993.56
3/4		3/4		3/4		3/4		3/4	6,878.23	3/4	6,594.07	3/4	6,239.79	3/4	5,884.18	3/4	5,489.50	3/4	4,982.99
2		2		2		2		2	6,877.48	2	6,586.69	2	6,232.41	2	5,876.75	2	5,478.98	2	4,972.42
1/4		1/4		1/4		1/4		1/4	6,876.73	1/4	6,579.31	1/4	6,225.03	1/4	5,869.32	1/4	5,468.45	1/4	4,961.84
1/2		1/2		1/2		1/2		1/2	6,875.98	1/2	6,571.93	1/2	6,217.65	1/2	5,861.89	1/2	5,457.92	1/2	4,951.27
3/4		3/4		3/4		3/4		3/4	6,875.23	3/4	6,564.55	3/4	6,210.27	3/4	5,854.45	3/4	5,447.39	3/4	4,940.70
3		3		3		3		3	6,873.25	3	6,557.17	3	6,202.89	3	5,847.02	3	5,436.87	3	4,930.13
1/4		1/4		1/4		1/4		1/4	6,871.27	1/4	6,549.79	1/4	6,195.51	1/4	5,839.59	1/4	5,426.34	1/4	4,919.56
1/2		1/2		1/2		1/2		1/2	6,869.29	1/2	6,542.41	1/2	6,188.13	1/2	5,832.16	1/2	5,415.81	1/2	4,908.99
3/4		3/4		3/4		3/4		3/4	6,867.31	3/4	6,535.03	3/4	6,180.75	3/4	5,824.73	3/4	5,405.29	3/4	4,898.42
4		4		4		4		4	6,863.56	4	6,527.65	4	6,173.37	4	5,817.30	4	5,394.76	4	4,887.85
1/4		1/4		1/4		1/4		1/4	6,859.81	1/4	6,520.26	1/4	6,165.99	1/4	5,809.87	1/4	5,384.23	1/4	4,877.28
1/2		1/2		1/2		1/2		1/2	6,856.06	1/2	6,512.88	1/2	6,158.61	1/2	5,802.43	1/2	5,373.70	1/2	4,866.71
3/4		3/4		3/4		3/4		3/4	6,852.32	3/4	6,505.50	3/4	6,151.22	3/4	5,795.00	3/4	5,363.18	3/4	4,856.14
5		5		5		5		5	6,846.80	5	6,498.12	5	6,143.84	5	5,787.57	5	5,352.65	5	4,845.57
1/4		1/4		1/4		1/4		1/4	6,841.29	1/4	6,490.74	1/4	6,136.46	1/4	5,780.14	1/4	5,342.12	1/4	4,835.00
1/2		1/2		1/2		1/2		1/2	6,835.77	1/2	6,483.36	1/2	6,129.08	1/2	5,772.71	1/2	5,331.60	1/2	4,824.43
3/4		3/4		3/4		3/4		3/4	6,830.26	3/4	6,475.98	3/4	6,121.70	3/4	5,765.28	3/4	5,321.07	3/4	4,813.86
6		6		6		6		6	6,822.88	6	6,468.60	6	6,114.32	6	5,757.85	6	5,310.54	6	4,803.29
1/4		1/4		1/4		1/4		1/4	6,815.50	1/4	6,461.22	1/4	6,106.94	1/4	5,750.41	1/4	5,300.01	1/4	4,792.72
1/2		1/2		1/2		1/2		1/2	6,808.12	1/2	6,453.84	1/2	6,099.56	1/2	5,742.98	1/2	5,289.49	1/2	4,782.15
3/4		3/4		3/4		3/4		3/4	6,800.73	3/4	6,446.46	3/4	6,092.18	3/4	5,735.55	3/4	5,278.96	3/4	4,771.58
7		7		7		7		7	6,793.35	7	6,439.08	7	6,084.75	7	5,728.12	7	5,268.39	7	4,761.01
1/4		1/4		1/4		1/4		1/4	6,785.97	1/4	6,431.69	1/4	6,077.33	1/4	5,720.69	1/4	5,257.82	1/4	4,750.43
1/2		1/2		1/2		1/2		1/2	6,778.59	1/2	6,424.31	1/2	6,069.90	1/2	5,713.26	1/2	5,247.25	1/2	4,739.86
3/4		3/4		3/4		3/4		3/4	6,771.21	3/4	6,416.93	3/4	6,062.48	3/4	5,705.83	3/4	5,236.68	3/4	4,729.29
8		8		8		8		8	6,763.83	8	6,409.55	8	6,055.05	8	5,698.40	8	5,226.11	8	4,718.72
1/4		1/4		1/4		1/4		1/4	6,756.45	1/4	6,402.17	1/4	6,047.63	1/4	5,690.96	1/4	5,215.54	1/4	4,708.15
1/2		1/2		1/2		1/2		1/2	6,749.07	1/2	6,394.79	1/2	6,040.21	1/2	5,683.53	1/2	5,204.97	1/2	4,697.58
3/4		3/4		3/4		3/4		3/4	6,741.69	3/4	6,387.41	3/4	6,032.78	3/4	5,676.10	3/4	5,194.40	3/4	4,687.01
9		9		9		9		9	6,734.31	9	6,380.03	9	6,025.36	9	5,668.67	9	5,183.83	9	4,676.44
1/4		1/4		1/4		1/4		1/4	6,726.93	1/4	6,372.65	1/4	6,017.93	1/4	5,661.24	1/4	5,173.25	1/4	4,665.87
1/2		1/2		1/2		1/2		1/2	6,719.55	1/2	6,365.27	1/2	6,010.51	1/2	5,653.81	1/2	5,162.68	1/2	4,655.30
3/4		3/4		3/4		3/4		3/4	6,712.17	3/4	6,357.89	3/4	6,003.08	3/4	5,646.38	3/4	5,152.11	3/4	4,644.73
10		10		10		10		10	6,704.78	10	6,350.51	10	5,995.65	10	5,638.94	10	5,141.54	10	4,634.16
1/4		1/4		1/4		1/4		1/4	6,697.40	1/4	6,343.13	1/4	5,988.22	1/4	5,631.51	1/4	5,130.97	1/4	4,623.59
1/2		1/2		1/2		1/2		1/2	6,690.02	1/2	6,335.74	1/2	5,980.79	1/2	5,624.08	1/2	5,120.40	1/2	4,613.02
3/4		3/4		3/4		3/4		3/4	6,682.64	3/4	6,328.36	3/4	5,973.36	3/4	5,616.65	3/4	5,109.83	3/4	4,602.45
11		11		11		11		11	6,675.26	11	6,320.98	11	5,965.93	11	5,606.05	11	5,099.26	11	4,591.88
1/4		1/4		1/4		1/4		1/4	6,667.88	1/4	6,313.60	1/4	5,958.49	1/4	5,595.46	1/4	5,088.69	1/4	4,581.31
1/2		1/2		1/2		1/2		1/2	6,660.50	1/2	6,306.22	1/2	5,951.06	1/2	5,584.86	1/2	5,078.12	1/2	4,570.74
3/4		3/4		3/4		3/4		3/4	6,653.12	3/4	6,298.84	3/4	5,943.63	3/4	5,574.27	3/4	5,067.55	3/4	4,560.17

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 3'-04" OFF CENTERLINE AND 38'-09" FORWARD OF AFT BULKHEAD.

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

BARGE "KIRBY 30313"

4 CENTER

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 19'-00 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	4,549.60	0	4,042.08	0	3,534.21	0	3,026.34	0	2,518.47	0	2,010.60	0	1,504.33	0	1,006.88	0	498.92	0	18.45
1/4	4,539.02	1/4	4,031.50	1/4	3,523.63	1/4	3,015.76	1/4	2,507.89	1/4	2,000.02	1/4	1,494.01	1/4	996.30	1/4	488.34	1/4	14.47
1/2	4,528.45	1/2	4,020.92	1/2	3,513.05	1/2	3,005.18	1/2	2,497.31	1/2	1,989.44	1/2	1,483.69	1/2	985.71	1/2	477.75	1/2	10.50
3/4	4,517.88	3/4	4,010.34	3/4	3,502.47	3/4	2,994.60	3/4	2,486.73	3/4	1,978.86	3/4	1,473.37	3/4	975.13	3/4	467.17	3/4	6.53
1	4,507.31	1	3,999.76	1	3,491.89	1	2,984.02	1	2,476.15	1	1,968.28	1	1,463.05	1	964.55	1	456.59	1	
1/4	4,496.74	1/4	3,989.18	1/4	3,481.31	1/4	2,973.44	1/4	2,465.57	1/4	1,957.70	1/4	1,452.73	1/4	953.97	1/4	446.01	1/4	
1/2	4,486.17	1/2	3,978.60	1/2	3,470.73	1/2	2,962.86	1/2	2,454.99	1/2	1,947.12	1/2	1,442.41	1/2	943.38	1/2	435.42	1/2	
3/4	4,475.60	3/4	3,968.01	3/4	3,460.15	3/4	2,952.28	3/4	2,444.41	3/4	1,936.54	3/4	1,432.09	3/4	932.80	3/4	424.84	3/4	
2	4,465.03	2	3,957.43	2	3,449.57	2	2,941.70	2	2,433.83	2	1,925.96	2	1,421.77	2	922.22	2	414.26	2	
1/4	4,454.46	1/4	3,946.85	1/4	3,438.99	1/4	2,931.12	1/4	2,423.25	1/4	1,915.38	1/4	1,411.45	1/4	911.64	1/4	403.68	1/4	
1/2	4,443.89	1/2	3,936.27	1/2	3,428.40	1/2	2,920.54	1/2	2,412.67	1/2	1,904.80	1/2	1,401.13	1/2	901.05	1/2	393.09	1/2	
3/4	4,433.32	3/4	3,925.69	3/4	3,417.82	3/4	2,909.96	3/4	2,402.09	3/4	1,894.22	3/4	1,390.81	3/4	890.47	3/4	382.51	3/4	
3	4,422.75	3	3,915.11	3	3,407.24	3	2,899.37	3	2,391.51	3	1,883.64	3	1,380.49	3	879.89	3	371.93	3	
1/4	4,412.18	1/4	3,904.53	1/4	3,396.66	1/4	2,888.79	1/4	2,380.93	1/4	1,873.06	1/4	1,370.16	1/4	869.31	1/4	361.34	1/4	
1/2	4,401.61	1/2	3,893.95	1/2	3,386.08	1/2	2,878.21	1/2	2,370.34	1/2	1,862.48	1/2	1,359.84	1/2	858.72	1/2	350.76	1/2	
3/4	4,391.04	3/4	3,883.37	3/4	3,375.50	3/4	2,867.63	3/4	2,359.76	3/4	1,851.90	3/4	1,349.52	3/4	848.14	3/4	340.18	3/4	
4	4,380.47	4	3,872.79	4	3,364.92	4	2,857.05	4	2,349.18	4	1,841.31	4	1,339.20	4	837.56	4	329.59	4	
1/4	4,369.90	1/4	3,862.21	1/4	3,354.34	1/4	2,846.47	1/4	2,338.60	1/4	1,830.73	1/4	1,328.88	1/4	826.98	1/4	319.01	1/4	
1/2	4,359.33	1/2	3,851.63	1/2	3,343.76	1/2	2,835.89	1/2	2,328.02	1/2	1,820.15	1/2	1,318.56	1/2	816.39	1/2	308.42	1/2	
3/4	4,348.76	3/4	3,841.05	3/4	3,333.18	3/4	2,825.31	3/4	2,317.44	3/4	1,809.57	3/4	1,308.24	3/4	805.81	3/4	297.84	3/4	
5	4,338.19	5	3,830.47	5	3,322.60	5	2,814.73	5	2,306.86	5	1,798.99	5	1,297.92	5	795.23	5	287.26	5	
1/4	4,327.61	1/4	3,819.89	1/4	3,312.02	1/4	2,804.15	1/4	2,296.28	1/4	1,788.41	1/4	1,287.60	1/4	784.65	1/4	276.67	1/4	
1/2	4,317.04	1/2	3,809.31	1/2	3,301.44	1/2	2,793.57	1/2	2,285.70	1/2	1,777.83	1/2	1,277.28	1/2	774.06	1/2	266.09	1/2	
3/4	4,306.47	3/4	3,798.73	3/4	3,290.86	3/4	2,782.99	3/4	2,275.12	3/4	1,767.25	3/4	1,266.96	3/4	763.48	3/4	255.50	3/4	
6	4,295.90	6	3,788.14	6	3,280.28	6	2,772.41	6	2,264.54	6	1,756.67	6	1,256.64	6	752.90	6	244.91	6	
1/4	4,285.33	1/4	3,777.56	1/4	3,269.70	1/4	2,761.83	1/4	2,253.96	1/4	1,746.09	1/4	1,246.32	1/4	742.32	1/4	234.31	1/4	
1/2	4,274.76	1/2	3,766.98	1/2	3,259.11	1/2	2,751.25	1/2	2,243.38	1/2	1,735.51	1/2	1,236.00	1/2	731.73	1/2	223.72	1/2	
3/4	4,264.19	3/4	3,756.40	3/4	3,248.53	3/4	2,740.67	3/4	2,232.80	3/4	1,724.93	3/4	1,225.68	3/4	721.15	3/4	213.12	3/4	
7	4,253.62	7	3,745.82	7	3,237.95	7	2,730.08	7	2,222.22	7	1,714.35	7	1,215.36	7	710.57	7	202.53	7	
1/4	4,243.05	1/4	3,735.24	1/4	3,227.37	1/4	2,719.50	1/4	2,211.64	1/4	1,703.77	1/4	1,205.04	1/4	699.99	1/4	191.93	1/4	
1/2	4,232.48	1/2	3,724.66	1/2	3,216.79	1/2	2,708.92	1/2	2,201.05	1/2	1,693.19	1/2	1,194.72	1/2	689.40	1/2	181.34	1/2	
3/4	4,221.91	3/4	3,714.08	3/4	3,206.21	3/4	2,698.34	3/4	2,190.47	3/4	1,682.61	3/4	1,184.40	3/4	678.82	3/4	170.74	3/4	
8	4,211.33	8	3,703.50	8	3,195.63	8	2,687.76	8	2,179.89	8	1,672.02	8	1,174.08	8	668.24	8	160.15	8	
1/4	4,200.76	1/4	3,692.92	1/4	3,185.05	1/4	2,677.18	1/4	2,169.31	1/4	1,661.44	1/4	1,163.75	1/4	657.66	1/4	149.55	1/4	
1/2	4,190.18	1/2	3,682.34	1/2	3,174.47	1/2	2,666.60	1/2	2,158.73	1/2	1,650.86	1/2	1,153.43	1/2	647.07	1/2	138.95	1/2	
3/4	4,179.60	3/4	3,671.76	3/4	3,163.89	3/4	2,656.02	3/4	2,148.15	3/4	1,640.28	3/4	1,143.11	3/4	636.49	3/4	128.36	3/4	
9	4,169.02	9	3,661.18	9	3,153.31	9	2,645.44	9	2,137.57	9	1,629.70	9	1,132.76	9	625.91	9	117.76	9	
1/4	4,158.45	1/4	3,650.60	1/4	3,142.73	1/4	2,634.86	1/4	2,126.99	1/4	1,619.12	1/4	1,122.41	1/4	615.33	1/4	107.17	1/4	
1/2	4,147.87	1/2	3,640.02	1/2	3,132.15	1/2	2,624.28	1/2	2,116.41	1/2	1,608.54	1/2	1,112.06	1/2	604.74	1/2	96.57	1/2	
3/4	4,137.29	3/4	3,629.44	3/4	3,121.57	3/4	2,613.70	3/4	2,105.83	3/4	1,597.96	3/4	1,101.72	3/4	594.16	3/4	85.98	3/4	
10	4,126.71	10	3,618.86	10	3,110.99	10	2,603.12	10	2,095.25	10	1,587.48	10	1,091.23	10	583.58	10	76.71	10	
1/4	4,116.14	1/4	3,608.27	1/4	3,100.41	1/4	2,592.54	1/4	2,084.67	1/4	1,577.00	1/4	1,080.75	1/4	573.00	1/4	67.44	1/4	
1/2	4,105.56	1/2	3,597.69	1/2	3,089.83	1/2	2,581.96	1/2	2,074.09	1/2	1,566.52	1/2	1,070.27	1/2	562.41	1/2	58.17	1/2	
3/4	4,094.98	3/4	3,587.11	3/4	3,079.24	3/4	2,571.38	3/4	2,063.51	3/4	1,556.05	3/4	1,059.79	3/4	551.83	3/4	48.90	3/4	
11	4,084.40	11	3,576.53	11	3,068.66	11	2,560.80	11	2,052.93	11	1,545.70	11	1,049.21	11	541.25	11	42.28	11	
1/4	4,073.82	1/4	3,565.95	1/4	3,058.08	1/4	2,550.21	1/4	2,042.35	1/4	1,535.35	1/4	1,038.63	1/4	530.67	1/4	35.66	1/4	
1/2	4,063.24	1/2	3,555.37	1/2	3,047.50	1/2	2,539.63	1/2	2,031.77	1/2	1,525.00	1/2	1,028.04	1/2	520.08	1/2	29.04	1/2	
3/4	4,052.66	3/4	3,544.79	3/4	3,036.92	3/4	2,529.05	3/4	2,021.18	3/4	1,514.65	3/4	1,017.46	3/4	509.50	3/4	22.42	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/08/2010 CL - SW
CALCULATED: 06/09/2010 CL
REPRINTED: 09/27/2016 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2016

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

BARGE "KIRBY 30313"

PORT HOLDING TANK

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 3'-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	1,058	0	2,117	0		0		0		0		0		0		0	
1/4	22	1/4	1,081	1/4	2,139	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,103	1/2	2,161	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,125	3/4	2,183	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	88	1	1,147	1	2,205	1		1		1		1		1		1		1	
1/4	110	1/4	1,169	1/4	2,227	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	1,191	1/2	2,249	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154	3/4	1,213	3/4	2,271	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	176	2	1,235	2	2,293	2		2		2		2		2		2		2	
1/4	198	1/4	1,257	1/4	2,315	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	221	1/2	1,279	1/2	2,338	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	243	3/4	1,301	3/4	2,360	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	265	3	1,323	3	2,382	3		3		3		3		3		3		3	
1/4	287	1/4	1,345	1/4	2,404	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	309	1/2	1,367	1/2	2,426	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	331	3/4	1,389	3/4	2,448	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	353	4	1,411	4	2,470	4		4		4		4		4		4		4	
1/4	375	1/4	1,433	1/4	2,492	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	397	1/2	1,455	1/2	2,514	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	419	3/4	1,477	3/4	2,536	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	441	5	1,500	5	2,558	5		5		5		5		5		5		5	
1/4	463	1/4	1,522	1/4	2,580	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	485	1/2	1,544	1/2	2,602	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	507	3/4	1,566	3/4	2,624	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	529	6	1,588	6	2,646	6		6		6		6		6		6		6	
1/4	551	1/4	1,610	1/4	2,668	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	573	1/2	1,632	1/2	2,690	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	595	3/4	1,654	3/4	2,712	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	617	7	1,676	7	2,734	7		7		7		7		7		7		7	
1/4	640	1/4	1,698	1/4	2,756	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	662	1/2	1,720	1/2	2,779	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	684	3/4	1,742	3/4	2,801	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	706	8	1,764	8	2,823	8		8		8		8		8		8		8	
1/4	728	1/4	1,786	1/4	2,845	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	750	1/2	1,808	1/2	2,867	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	772	3/4	1,830	3/4	2,889	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	794	9	1,852	9	2,911	9		9		9		9		9		9		9	
1/4	816	1/4	1,874	1/4	2,933	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	838	1/2	1,896	1/2	2,955	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	860	3/4	1,919	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	882	10	1,941	10		10		10		10		10		10		10		10	
1/4	904	1/4	1,963	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	926	1/2	1,985	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	948	3/4	2,007	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	970	11	2,029	11		11		11		11		11		11		11		11	
1/4	992	1/4	2,051	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,014	1/2	2,073	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,036	3/4	2,095	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.

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

BARGE "KIRBY 30313"

STBD HOLDING TANK

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

FORMERLY "DBL 33"

GAUGE HEIGHT 3'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,058	0	2,117	0		0		0		0		0		0		0	
1/4	22	1/4	1,081	1/4	2,139	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,103	1/2	2,161	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,125	3/4	2,183	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	88	1	1,147	1	2,205	1		1		1		1		1		1		1	
1/4	110	1/4	1,169	1/4	2,227	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	1,191	1/2	2,249	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154	3/4	1,213	3/4	2,271	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	176	2	1,235	2	2,293	2		2		2		2		2		2		2	
1/4	198	1/4	1,257	1/4	2,315	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	221	1/2	1,279	1/2	2,338	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	243	3/4	1,301	3/4	2,360	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	265	3	1,323	3	2,382	3		3		3		3		3		3		3	
1/4	287	1/4	1,345	1/4	2,404	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	309	1/2	1,367	1/2	2,426	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	331	3/4	1,389	3/4	2,448	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	353	4	1,411	4	2,470	4		4		4		4		4		4		4	
1/4	375	1/4	1,433	1/4	2,492	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	397	1/2	1,455	1/2	2,514	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	419	3/4	1,477	3/4	2,536	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	441	5	1,500	5	2,558	5		5		5		5		5		5		5	
1/4	463	1/4	1,522	1/4	2,580	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	485	1/2	1,544	1/2	2,602	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	507	3/4	1,566	3/4	2,624	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	529	6	1,588	6	2,646	6		6		6		6		6		6		6	
1/4	551	1/4	1,610	1/4	2,668	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	573	1/2	1,632	1/2	2,690	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	595	3/4	1,654	3/4	2,712	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	617	7	1,676	7	2,734	7		7		7		7		7		7		7	
1/4	640	1/4	1,698	1/4	2,756	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	662	1/2	1,720	1/2	2,779	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	684	3/4	1,742	3/4	2,801	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	706	8	1,764	8	2,823	8		8		8		8		8		8		8	
1/4	728	1/4	1,786	1/4	2,845	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	750	1/2	1,808	1/2	2,867	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	772	3/4	1,830	3/4	2,889	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	794	9	1,852	9	2,911	9		9		9		9		9		9		9	
1/4	816	1/4	1,874	1/4	2,933	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	838	1/2	1,896	1/2	2,955	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	860	3/4	1,919	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	882	10	1,941	10		10		10		10		10		10		10		10	
1/4	904	1/4	1,963	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	926	1/2	1,985	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	948	3/4	2,007	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	970	11	2,029	11		11		11		11		11		11		11		11	
1/4	992	1/4	2,051	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,014	1/2	2,073	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,036	3/4	2,095	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.

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