



# BARGE "KIRBY 11531"

ULLAGE TRIM TABLE

FORMERLY "CGBM 105"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 167'-06"

February 24, 2022

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 11531"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CGBM 105"

GAUGE HEIGHT 17'-08"

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	3,438.44	0	3,226.14	0	3,013.59	0	2,801.05	0	2,584.69	0	2,341.82	0	2,098.62
1/4		1/4		1/4		1/4	3,434.06	1/4	3,221.71	1/4	3,009.16	1/4	2,796.62	1/4	2,579.69	1/4	2,336.76	1/4	2,093.55
1/2		1/2		1/2		1/2	3,429.67	1/2	3,217.29	1/2	3,004.74	1/2	2,792.20	1/2	2,574.69	1/2	2,331.69	1/2	2,088.49
3/4		3/4		3/4		3/4	3,425.29	3/4	3,212.86	3/4	3,000.31	3/4	2,787.77	3/4	2,569.68	3/4	2,326.63	3/4	2,083.42
1		1		1		1	3,420.90	1	3,208.43	1	2,995.88	1	2,783.34	1	2,564.68	1	2,321.56	1	2,078.35
1/4		1/4		1/4		1/4	3,416.49	1/4	3,204.00	1/4	2,991.45	1/4	2,778.91	1/4	2,559.62	1/4	2,316.49	1/4	2,073.28
1/2		1/2		1/2		1/2	3,412.08	1/2	3,199.57	1/2	2,987.03	1/2	2,774.49	1/2	2,554.56	1/2	2,311.43	1/2	2,068.22
3/4		3/4		3/4		3/4	3,407.67	3/4	3,195.14	3/4	2,982.60	3/4	2,770.06	3/4	2,549.49	3/4	2,306.36	3/4	2,063.15
2		2		2		2	3,403.26	2	3,190.71	2	2,978.17	2	2,765.63	2	2,544.43	2	2,301.29	2	2,058.08
1/4		1/4		1/4		1/4	3,398.83	1/4	3,186.28	1/4	2,973.74	1/4	2,761.20	1/4	2,539.37	1/4	2,296.22	1/4	2,053.02
1/2		1/2		1/2		1/2	3,394.41	1/2	3,181.86	1/2	2,969.32	1/2	2,756.77	1/2	2,534.30	1/2	2,291.16	1/2	2,047.95
3/4		3/4		3/4		3/4	3,389.98	3/4	3,177.43	3/4	2,964.89	3/4	2,752.34	3/4	2,529.24	3/4	2,286.09	3/4	2,042.89
3		3		3		3	3,385.55	3	3,173.00	3	2,960.46	3	2,747.91	3	2,524.17	3	2,281.02	3	2,037.82
1/4		1/4		1/4		1/4	3,381.12	1/4	3,168.57	1/4	2,956.03	1/4	2,743.48	1/4	2,519.11	1/4	2,275.95	1/4	2,032.75
1/2		1/2		1/2		1/2	3,376.69	1/2	3,164.15	1/2	2,951.61	1/2	2,739.06	1/2	2,514.04	1/2	2,270.89	1/2	2,027.69
3/4		3/4		3/4		3/4	3,372.26	3/4	3,159.72	3/4	2,947.18	3/4	2,734.63	3/4	2,508.98	3/4	2,265.82	3/4	2,022.62
4		4		4		4	3,367.83	4	3,155.29	4	2,942.75	4	2,730.20	4	2,503.91	4	2,260.75	4	2,017.55
1/4		1/4		1/4		1/4	3,363.40	1/4	3,150.86	1/4	2,938.32	1/4	2,725.77	1/4	2,498.85	1/4	2,255.69	1/4	2,012.48
1/2		1/2		1/2		1/2	3,358.98	1/2	3,146.44	1/2	2,933.89	1/2	2,721.35	1/2	2,493.78	1/2	2,250.62	1/2	2,007.42
3/4		3/4		3/4		3/4	3,354.55	3/4	3,142.01	3/4	2,929.46	3/4	2,716.92	3/4	2,488.72	3/4	2,245.56	3/4	2,002.35
5		5		5		5	3,350.12	5	3,137.58	5	2,925.03	5	2,712.49	5	2,483.65	5	2,240.49	5	1,997.28
1/4		1/4		1/4		1/4	3,345.69	1/4	3,133.15	1/4	2,920.60	1/4	2,708.06	1/4	2,478.59	1/4	2,235.42	1/4	1,992.21
1/2		1/2		1/2		1/2	3,341.27	1/2	3,128.73	1/2	2,916.18	1/2	2,703.64	1/2	2,473.52	1/2	2,230.36	1/2	1,987.15
3/4		3/4		3/4		3/4	3,336.84	3/4	3,124.30	3/4	2,911.75	3/4	2,699.21	3/4	2,468.46	3/4	2,225.29	3/4	1,982.08
6		6		6		6	3,332.41	6	3,119.87	6	2,907.32	6	2,694.78	6	2,463.39	6	2,220.22	6	1,977.01
1/4		1/4		1/4		1/4	3,327.98	1/4	3,115.44	1/4	2,902.89	1/4	2,690.35	1/4	2,458.33	1/4	2,215.15	1/4	1,971.95
1/2		1/2		1/2		1/2	3,323.56	1/2	3,111.01	1/2	2,898.47	1/2	2,685.93	1/2	2,453.26	1/2	2,210.09	1/2	1,966.88
3/4		3/4		3/4		3/4	3,319.13	3/4	3,106.58	3/4	2,894.04	3/4	2,681.50	3/4	2,448.20	3/4	2,205.02	3/4	1,961.82
7		7		7	3,481.43	7	3,314.70	7	3,102.15	7	2,889.61	7	2,677.07	7	2,443.13	7	2,199.95	7	1,956.75
1/4		1/4		1/4	3,481.06	1/4	3,310.27	1/4	3,097.72	1/4	2,885.18	1/4	2,672.64	1/4	2,438.07	1/4	2,194.89	1/4	1,951.68
1/2		1/2		1/2	3,480.68	1/2	3,305.85	1/2	3,093.30	1/2	2,880.76	1/2	2,668.21	1/2	2,433.00	1/2	2,189.82	1/2	1,946.62
3/4		3/4		3/4	3,480.31	3/4	3,301.42	3/4	3,088.87	3/4	2,876.33	3/4	2,663.78	3/4	2,427.94	3/4	2,184.76	3/4	1,941.55
8		8		8	3,479.93	8	3,296.99	8	3,084.44	8	2,871.90	8	2,659.35	8	2,422.87	8	2,179.69	8	1,936.48
1/4		1/4		1/4	3,478.67	1/4	3,292.56	1/4	3,080.01	1/4	2,867.47	1/4	2,654.92	1/4	2,417.81	1/4	2,174.62	1/4	1,931.41
1/2		1/2		1/2	3,477.41	1/2	3,288.13	1/2	3,075.59	1/2	2,863.05	1/2	2,650.50	1/2	2,412.75	1/2	2,169.56	1/2	1,926.35
3/4		3/4		3/4	3,476.14	3/4	3,283.70	3/4	3,071.16	3/4	2,858.62	3/4	2,646.07	3/4	2,407.68	3/4	2,164.49	3/4	1,921.28
9		9		9	3,474.88	9	3,279.27	9	3,066.73	9	2,854.19	9	2,641.64	9	2,402.62	9	2,159.42	9	1,916.21
1/4		1/4		1/4	3,472.73	1/4	3,274.84	1/4	3,062.30	1/4	2,849.76	1/4	2,637.02	1/4	2,397.56	1/4	2,154.35	1/4	1,911.15
1/2		1/2		1/2	3,470.58	1/2	3,270.42	1/2	3,057.88	1/2	2,845.33	1/2	2,632.40	1/2	2,392.49	1/2	2,149.29	1/2	1,906.08
3/4		3/4		3/4	3,468.43	3/4	3,265.99	3/4	3,053.45	3/4	2,840.90	3/4	2,627.78	3/4	2,387.43	3/4	2,144.22	3/4	1,901.02
10		10		10	3,466.28	10	3,261.56	10	3,049.02	10	2,836.47	10	2,623.16	10	2,382.36	10	2,139.15	10	1,895.95
1/4		1/4		1/4	3,463.24	1/4	3,257.13	1/4	3,044.59	1/4	2,832.04	1/4	2,618.42	1/4	2,377.29	1/4	2,134.08	1/4	1,890.88
1/2		1/2		1/2	3,460.21	1/2	3,252.71	1/2	3,040.17	1/2	2,827.62	1/2	2,613.67	1/2	2,372.23	1/2	2,129.02	1/2	1,885.82
3/4		3/4		3/4	3,457.17	3/4	3,248.28	3/4	3,035.74	3/4	2,823.19	3/4	2,608.93	3/4	2,367.16	3/4	2,123.95	3/4	1,880.75
11		11		11	3,454.13	11	3,243.85	11	3,031.31	11	2,818.76	11	2,604.18	11	2,362.09	11	2,118.88	11	1,875.68
1/4		1/4		1/4	3,450.21	1/4	3,239.42	1/4	3,026.88	1/4	2,814.33	1/4	2,599.31	1/4	2,357.02	1/4	2,113.82	1/4	1,870.61
1/2		1/2		1/2	3,446.29	1/2	3,235.00	1/2	3,022.45	1/2	2,809.91	1/2	2,594.44	1/2	2,351.96	1/2	2,108.75	1/2	1,865.55
3/4		3/4		3/4	3,442.36	3/4	3,230.57	3/4	3,018.02	3/4	2,805.48	3/4	2,589.56	3/4	2,346.89	3/4	2,103.69	3/4	1,860.48

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 ON CENTERLINE AND 20'-06" 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 11531"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CGBM 105"

GAUGE HEIGHT 17'-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	1,855.41	0	1,612.32	0	1,369.24	0	1,126.17	0	883.14	0	640.49	0	397.65	0	154.48	0		0	
1/4	1,850.34	1/4	1,607.26	1/4	1,364.18	1/4	1,121.11	1/4	878.08	1/4	635.44	1/4	392.58	1/4	149.42	1/4		1/4	
1/2	1,845.28	1/2	1,602.19	1/2	1,359.12	1/2	1,116.05	1/2	873.02	1/2	630.40	1/2	387.52	1/2	144.35	1/2		1/2	
3/4	1,840.21	3/4	1,597.13	3/4	1,354.05	3/4	1,110.98	3/4	867.95	3/4	625.35	3/4	382.45	3/4	139.29	3/4		3/4	
1	1,835.14	1	1,592.06	1	1,348.99	1	1,105.92	1	862.89	1	620.30	1	377.38	1	134.22	1		1	
1/4	1,830.08	1/4	1,587.00	1/4	1,343.93	1/4	1,100.86	1/4	857.83	1/4	615.25	1/4	372.31	1/4	129.16	1/4		1/4	
1/2	1,825.01	1/2	1,581.93	1/2	1,338.86	1/2	1,095.79	1/2	852.77	1/2	610.21	1/2	367.25	1/2	124.09	1/2		1/2	
3/4	1,819.95	3/4	1,576.87	3/4	1,333.80	3/4	1,090.73	3/4	847.70	3/4	605.16	3/4	362.18	3/4	119.03	3/4		3/4	
2	1,814.88	2	1,571.80	2	1,328.73	2	1,085.66	2	842.64	2	600.11	2	357.11	2	113.96	2		2	
1/4	1,809.82	1/4	1,566.74	1/4	1,323.67	1/4	1,080.60	1/4	837.58	1/4	595.06	1/4	352.05	1/4	108.89	1/4		1/4	
1/2	1,804.75	1/2	1,561.68	1/2	1,318.61	1/2	1,075.53	1/2	832.51	1/2	590.02	1/2	346.98	1/2	103.83	1/2		1/2	
3/4	1,799.69	3/4	1,556.61	3/4	1,313.54	3/4	1,070.47	3/4	827.45	3/4	584.97	3/4	341.92	3/4	98.76	3/4		3/4	
3	1,794.62	3	1,551.55	3	1,308.48	3	1,065.40	3	822.38	3	579.92	3	336.85	3	93.69	3		3	
1/4	1,789.56	1/4	1,546.49	1/4	1,303.42	1/4	1,060.34	1/4	817.32	1/4	574.87	1/4	331.79	1/4	88.75	1/4		1/4	
1/2	1,784.49	1/2	1,541.42	1/2	1,298.35	1/2	1,055.28	1/2	812.26	1/2	569.83	1/2	326.72	1/2	83.80	1/2		1/2	
3/4	1,779.43	3/4	1,536.36	3/4	1,293.29	3/4	1,050.21	3/4	807.19	3/4	564.78	3/4	321.66	3/4	78.86	3/4		3/4	
4	1,774.36	4	1,531.29	4	1,288.22	4	1,045.15	4	802.13	4	559.73	4	316.59	4	73.91	4		4	
1/4	1,769.30	1/4	1,526.23	1/4	1,283.16	1/4	1,040.09	1/4	797.07	1/4	554.67	1/4	311.53	1/4	69.11	1/4		1/4	
1/2	1,764.24	1/2	1,521.17	1/2	1,278.09	1/2	1,035.02	1/2	792.01	1/2	549.61	1/2	306.46	1/2	64.30	1/2		1/2	
3/4	1,759.17	3/4	1,516.10	3/4	1,273.03	3/4	1,029.96	3/4	786.94	3/4	544.54	3/4	301.40	3/4	59.50	3/4		3/4	
5	1,754.11	5	1,511.04	5	1,267.96	5	1,024.89	5	781.88	5	539.48	5	296.33	5	54.69	5		5	
1/4	1,749.05	1/4	1,505.98	1/4	1,262.90	1/4	1,019.83	1/4	776.82	1/4	534.42	1/4	291.26	1/4	50.03	1/4		1/4	
1/2	1,743.98	1/2	1,500.91	1/2	1,257.84	1/2	1,014.77	1/2	771.76	1/2	529.36	1/2	286.20	1/2	45.36	1/2		1/2	
3/4	1,738.92	3/4	1,495.85	3/4	1,252.77	3/4	1,009.70	3/4	766.69	3/4	524.29	3/4	281.13	3/4	40.70	3/4		3/4	
6	1,733.85	6	1,490.78	6	1,247.71	6	1,004.64	6	761.63	6	519.23	6	276.06	6	36.03	6		6	
1/4	1,728.79	1/4	1,485.72	1/4	1,242.65	1/4	999.58	1/4	756.58	1/4	514.17	1/4	271.00	1/4	31.52	1/4		1/4	
1/2	1,723.73	1/2	1,480.65	1/2	1,237.58	1/2	994.52	1/2	751.54	1/2	509.10	1/2	265.93	1/2	27.01	1/2		1/2	
3/4	1,718.66	3/4	1,475.59	3/4	1,232.52	3/4	989.45	3/4	746.49	3/4	504.04	3/4	260.87	3/4	22.49	3/4		3/4	
7	1,713.60	7	1,470.52	7	1,227.45	7	984.39	7	741.44	7	498.97	7	255.80	7	17.98	7		7	
1/4	1,708.54	1/4	1,465.46	1/4	1,222.39	1/4	979.33	1/4	736.39	1/4	493.91	1/4	250.74	1/4	13.63	1/4		1/4	
1/2	1,703.47	1/2	1,460.40	1/2	1,217.33	1/2	974.27	1/2	731.35	1/2	488.84	1/2	245.67	1/2	9.27	1/2		1/2	
3/4	1,698.41	3/4	1,455.33	3/4	1,212.26	3/4	969.20	3/4	726.30	3/4	483.78	3/4	240.61	3/4	4.92	3/4		3/4	
8	1,693.34	8	1,450.27	8	1,207.20	8	964.14	8	721.25	8	478.71	8	235.54	8	0.56	8		8	
1/4	1,688.28	1/4	1,445.21	1/4	1,202.14	1/4	959.08	1/4	716.20	1/4	473.65	1/4	230.47	1/4		1/4		1/4	
1/2	1,683.21	1/2	1,440.14	1/2	1,197.07	1/2	954.02	1/2	711.16	1/2	468.58	1/2	225.41	1/2		1/2		1/2	
3/4	1,678.15	3/4	1,435.08	3/4	1,192.01	3/4	948.95	3/4	706.11	3/4	463.52	3/4	220.34	3/4		3/4		3/4	
9	1,673.08	9	1,430.01	9	1,186.94	9	943.89	9	701.06	9	458.45	9	215.27	9		9		9	
1/4	1,668.02	1/4	1,424.95	1/4	1,181.88	1/4	938.83	1/4	696.01	1/4	453.39	1/4	210.21	1/4		1/4		1/4	
1/2	1,662.96	1/2	1,419.89	1/2	1,176.81	1/2	933.77	1/2	690.97	1/2	448.32	1/2	205.14	1/2		1/2		1/2	
3/4	1,657.89	3/4	1,414.82	3/4	1,171.75	3/4	928.70	3/4	685.92	3/4	443.26	3/4	200.08	3/4		3/4		3/4	
10	1,652.83	10	1,409.76	10	1,166.68	10	923.64	10	680.87	10	438.19	10	195.01	10		10		10	
1/4	1,647.77	1/4	1,404.70	1/4	1,161.62	1/4	918.58	1/4	675.82	1/4	433.12	1/4	189.95	1/4		1/4		1/4	
1/2	1,642.70	1/2	1,399.63	1/2	1,156.56	1/2	913.52	1/2	670.78	1/2	428.06	1/2	184.88	1/2		1/2		1/2	
3/4	1,637.64	3/4	1,394.57	3/4	1,151.49	3/4	908.45	3/4	665.73	3/4	422.99	3/4	179.82	3/4		3/4		3/4	
11	1,632.57	11	1,389.50	11	1,146.43	11	903.39	11	660.68	11	417.92	11	174.75	11		11		11	
1/4	1,627.51	1/4	1,384.44	1/4	1,141.37	1/4	898.33	1/4	655.63	1/4	412.85	1/4	169.68	1/4		1/4		1/4	
1/2	1,622.45	1/2	1,379.37	1/2	1,136.30	1/2	893.27	1/2	650.59	1/2	407.79	1/2	164.62	1/2		1/2		1/2	
3/4	1,617.38	3/4	1,374.31	3/4	1,131.24	3/4	888.20	3/4	645.54	3/4	402.72	3/4	159.55	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED BY: 01/03/2008 INT.  
RECALCULATED: 02/24/2022 PMA  
NAME CHANGE: 02/24/2022 PMA

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2022



# BARGE "KIRBY 11531"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CGBM 105"

GAUGE HEIGHT 17'-07 1/2"

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	4,047.34	0	3,770.56	0	3,493.64	0	3,216.72	0	2,939.80	0	2,662.87	0	2,385.95
1/4		1/4		1/4		1/4	4,041.64	1/4	3,764.79	1/4	3,487.87	1/4	3,210.95	1/4	2,934.03	1/4	2,657.10	1/4	2,380.18
1/2		1/2		1/2		1/2	4,035.94	1/2	3,759.02	1/2	3,482.10	1/2	3,205.18	1/2	2,928.26	1/2	2,651.33	1/2	2,374.41
3/4		3/4		3/4		3/4	4,030.17	3/4	3,753.25	3/4	3,476.33	3/4	3,199.41	3/4	2,922.49	3/4	2,645.56	3/4	2,368.64
1		1		1		1	4,024.41	1	3,747.48	1	3,470.56	1	3,193.64	1	2,916.72	1	2,639.80	1	2,362.88
1/4		1/4		1/4		1/4	4,018.64	1/4	3,741.71	1/4	3,464.79	1/4	3,187.87	1/4	2,910.95	1/4	2,634.03	1/4	2,357.11
1/2		1/2		1/2		1/2	4,012.87	1/2	3,735.94	1/2	3,459.02	1/2	3,182.10	1/2	2,905.18	1/2	2,628.26	1/2	2,351.34
3/4		3/4		3/4		3/4	4,007.10	3/4	3,730.17	3/4	3,453.25	3/4	3,176.33	3/4	2,899.41	3/4	2,622.49	3/4	2,345.57
2		2		2		2	4,001.33	2	3,724.41	2	3,447.49	2	3,170.56	2	2,893.64	2	2,616.72	2	2,339.80
1/4		1/4		1/4		1/4	3,995.56	1/4	3,718.64	1/4	3,441.72	1/4	3,164.79	1/4	2,887.87	1/4	2,610.95	1/4	2,334.03
1/2		1/2		1/2		1/2	3,989.79	1/2	3,712.87	1/2	3,435.95	1/2	3,159.02	1/2	2,882.10	1/2	2,605.18	1/2	2,328.26
3/4		3/4		3/4		3/4	3,984.02	3/4	3,707.10	3/4	3,430.18	3/4	3,153.25	3/4	2,876.33	3/4	2,599.41	3/4	2,322.49
3		3		3		3	3,978.25	3	3,701.33	3	3,424.41	3	3,147.49	3	2,870.57	3	2,593.64	3	2,316.72
1/4		1/4		1/4		1/4	3,972.48	1/4	3,695.56	1/4	3,418.64	1/4	3,141.72	1/4	2,864.80	1/4	2,587.87	1/4	2,310.95
1/2		1/2		1/2		1/2	3,966.71	1/2	3,689.79	1/2	3,412.87	1/2	3,135.95	1/2	2,859.03	1/2	2,582.10	1/2	2,305.18
3/4		3/4		3/4		3/4	3,960.94	3/4	3,684.02	3/4	3,407.10	3/4	3,130.18	3/4	2,853.26	3/4	2,576.33	3/4	2,299.41
4		4		4		4	3,955.18	4	3,678.25	4	3,401.33	4	3,124.41	4	2,847.49	4	2,570.57	4	2,293.65
1/4		1/4		1/4		1/4	3,949.41	1/4	3,672.48	1/4	3,395.56	1/4	3,118.64	1/4	2,841.72	1/4	2,564.80	1/4	2,287.88
1/2		1/2		1/2		1/2	3,943.64	1/2	3,666.71	1/2	3,389.79	1/2	3,112.87	1/2	2,835.95	1/2	2,559.03	1/2	2,282.11
3/4		3/4		3/4		3/4	3,937.87	3/4	3,660.94	3/4	3,384.02	3/4	3,107.10	3/4	2,830.18	3/4	2,553.26	3/4	2,276.34
5		5		5		5	3,932.10	5	3,655.18	5	3,378.26	5	3,101.33	5	2,824.41	5	2,547.49	5	2,270.57
1/4		1/4		1/4		1/4	3,926.33	1/4	3,649.41	1/4	3,372.49	1/4	3,095.56	1/4	2,818.64	1/4	2,541.72	1/4	2,264.80
1/2		1/2		1/2		1/2	3,920.56	1/2	3,643.64	1/2	3,366.72	1/2	3,089.79	1/2	2,812.87	1/2	2,535.95	1/2	2,259.03
3/4		3/4		3/4		3/4	3,914.79	3/4	3,637.87	3/4	3,360.95	3/4	3,084.02	3/4	2,807.10	3/4	2,530.18	3/4	2,253.26
6		6		6		6	3,909.02	6	3,632.10	6	3,355.18	6	3,078.26	6	2,801.34	6	2,524.41	6	2,247.49
1/4		1/4		1/4		1/4	3,903.25	1/4	3,626.33	1/4	3,349.41	1/4	3,072.49	1/4	2,795.57	1/4	2,518.64	1/4	2,241.72
1/2		1/2		1/2		1/2	4,114.98	1/2	3,897.48	1/2	3,620.56	1/2	3,343.64	1/2	3,066.72	1/2	2,789.80	1/2	2,512.87
3/4		3/4		3/4		3/4	4,114.48	3/4	3,891.71	3/4	3,614.79	3/4	3,337.87	3/4	3,060.95	3/4	2,784.03	3/4	2,507.10
7		7		7		7	4,113.98	7	3,885.95	7	3,609.02	7	3,332.10	7	3,055.18	7	2,778.26	7	2,501.34
1/4		1/4		1/4		1/4	4,113.47	1/4	3,880.18	1/4	3,603.25	1/4	3,326.33	1/4	3,049.41	1/4	2,772.49	1/4	2,495.57
1/2		1/2		1/2		1/2	4,112.97	1/2	3,874.41	1/2	3,597.48	1/2	3,320.56	1/2	3,043.64	1/2	2,766.72	1/2	2,489.80
3/4		3/4		3/4		3/4	4,111.32	3/4	3,868.64	3/4	3,591.71	3/4	3,314.79	3/4	3,037.87	3/4	2,760.95	3/4	2,484.03
8		8		8		8	4,109.66	8	3,862.87	8	3,585.95	8	3,309.03	8	3,032.10	8	2,755.18	8	2,478.26
1/4		1/4		1/4		1/4	4,108.01	1/4	3,857.10	1/4	3,580.18	1/4	3,303.26	1/4	3,026.33	1/4	2,749.41	1/4	2,472.49
1/2		1/2		1/2		1/2	4,106.35	1/2	3,851.33	1/2	3,574.41	1/2	3,297.49	1/2	3,020.56	1/2	2,743.64	1/2	2,466.72
3/4		3/4		3/4		3/4	4,103.54	3/4	3,845.56	3/4	3,568.64	3/4	3,291.72	3/4	3,014.79	3/4	2,737.87	3/4	2,460.95
9		9		9		9	4,100.73	9	3,839.79	9	3,562.87	9	3,285.95	9	3,009.03	9	2,732.11	9	2,455.18
1/4		1/4		1/4		1/4	4,097.91	1/4	3,834.02	1/4	3,557.10	1/4	3,280.18	1/4	3,003.26	1/4	2,726.34	1/4	2,449.41
1/2		1/2		1/2		1/2	4,095.10	1/2	3,828.25	1/2	3,551.33	1/2	3,274.41	1/2	2,997.49	1/2	2,720.57	1/2	2,443.64
3/4		3/4		3/4		3/4	4,091.13	3/4	3,822.48	3/4	3,545.56	3/4	3,268.64	3/4	2,991.72	3/4	2,714.80	3/4	2,437.87
10		10		10		10	4,087.17	10	3,816.71	10	3,539.79	10	3,262.87	10	2,985.95	10	2,709.03	10	2,432.11
1/4		1/4		1/4		1/4	4,083.20	1/4	3,810.94	1/4	3,534.02	1/4	3,257.10	1/4	2,980.18	1/4	2,703.26	1/4	2,426.34
1/2		1/2		1/2		1/2	4,079.23	1/2	3,805.17	1/2	3,528.25	1/2	3,251.33	1/2	2,974.41	1/2	2,697.49	1/2	2,420.57
3/4		3/4		3/4		3/4	4,074.11	3/4	3,799.40	3/4	3,522.48	3/4	3,245.56	3/4	2,968.64	3/4	2,691.72	3/4	2,414.80
11		11		11		11	4,068.99	11	3,793.64	11	3,516.72	11	3,239.79	11	2,962.87	11	2,685.95	11	2,409.03
1/4		1/4		1/4		1/4	4,063.86	1/4	3,787.87	1/4	3,510.95	1/4	3,234.02	1/4	2,957.10	1/4	2,680.18	1/4	2,403.26
1/2		1/2		1/2		1/2	4,058.74	1/2	3,782.10	1/2	3,505.18	1/2	3,228.25	1/2	2,951.33	1/2	2,674.41	1/2	2,397.49
3/4		3/4		3/4		3/4	4,053.04	3/4	3,776.33	3/4	3,499.41	3/4	3,222.48	3/4	2,945.56	3/4	2,668.64	3/4	2,391.72

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 ON CENTERLINE AND 33'-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 11531"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CGBM 105"

GAUGE HEIGHT 17'-07 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	2,109.03	0	1,832.11	0	1,555.19	0	1,278.27	0	1,001.42	0	725.13	0	448.52	0	171.58	0		0	
1/4	2,103.26	1/4	1,826.34	1/4	1,549.42	1/4	1,272.50	1/4	995.65	1/4	719.38	1/4	442.75	1/4	165.81	1/4		1/4	
1/2	2,097.49	1/2	1,820.57	1/2	1,543.65	1/2	1,266.73	1/2	989.88	1/2	713.63	1/2	436.98	1/2	160.04	1/2		1/2	
3/4	2,091.72	3/4	1,814.80	3/4	1,537.88	3/4	1,260.96	3/4	984.11	3/4	707.88	3/4	431.21	3/4	154.27	3/4		3/4	
1	2,085.95	1	1,809.03	1	1,532.11	1	1,255.19	1	978.35	1	702.14	1	425.44	1	148.51	1		1	
1/4	2,080.18	1/4	1,803.26	1/4	1,526.34	1/4	1,249.42	1/4	972.58	1/4	696.39	1/4	419.66	1/4	142.74	1/4		1/4	
1/2	2,074.41	1/2	1,797.49	1/2	1,520.57	1/2	1,243.65	1/2	966.81	1/2	690.64	1/2	413.89	1/2	136.97	1/2		1/2	
3/4	2,068.64	3/4	1,791.72	3/4	1,514.80	3/4	1,237.88	3/4	961.05	3/4	684.90	3/4	408.12	3/4	131.20	3/4		3/4	
2	2,062.88	2	1,785.96	2	1,509.03	2	1,232.11	2	955.28	2	679.15	2	402.36	2	125.43	2		2	
1/4	2,057.11	1/4	1,780.19	1/4	1,503.26	1/4	1,226.34	1/4	949.52	1/4	673.41	1/4	396.59	1/4	119.66	1/4		1/4	
1/2	2,051.34	1/2	1,774.42	1/2	1,497.49	1/2	1,220.57	1/2	943.75	1/2	667.66	1/2	390.82	1/2	113.89	1/2		1/2	
3/4	2,045.57	3/4	1,768.65	3/4	1,491.72	3/4	1,214.80	3/4	937.98	3/4	661.91	3/4	385.05	3/4	108.14	3/4		3/4	
3	2,039.80	3	1,762.88	3	1,485.96	3	1,209.04	3	932.22	3	656.17	3	379.28	3	102.39	3		3	
1/4	2,034.03	1/4	1,757.11	1/4	1,480.19	1/4	1,203.27	1/4	926.45	1/4	650.42	1/4	373.51	1/4	96.63	1/4		1/4	
1/2	2,028.26	1/2	1,751.34	1/2	1,474.42	1/2	1,197.50	1/2	920.68	1/2	644.67	1/2	367.74	1/2	90.88	1/2		1/2	
3/4	2,022.49	3/4	1,745.57	3/4	1,468.65	3/4	1,191.73	3/4	914.91	3/4	638.90	3/4	361.97	3/4	85.17	3/4		3/4	
4	2,016.72	4	1,739.80	4	1,462.88	4	1,185.96	4	909.15	4	633.14	4	356.20	4	79.45	4		4	
1/4	2,010.95	1/4	1,734.03	1/4	1,457.11	1/4	1,180.19	1/4	903.38	1/4	627.37	1/4	350.43	1/4	73.74	1/4		1/4	
1/2	2,005.18	1/2	1,728.26	1/2	1,451.34	1/2	1,174.42	1/2	897.61	1/2	621.60	1/2	344.66	1/2	68.02	1/2		1/2	
3/4	1,999.41	3/4	1,722.49	3/4	1,445.57	3/4	1,168.65	3/4	891.84	3/4	615.84	3/4	338.89	3/4	62.34	3/4		3/4	
5	1,993.65	5	1,716.73	5	1,439.80	5	1,162.88	5	886.08	5	610.07	5	333.13	5	56.67	5		5	
1/4	1,987.88	1/4	1,710.96	1/4	1,434.03	1/4	1,157.11	1/4	880.31	1/4	604.31	1/4	327.36	1/4	50.99	1/4		1/4	
1/2	1,982.11	1/2	1,705.19	1/2	1,428.26	1/2	1,151.34	1/2	874.54	1/2	598.54	1/2	321.59	1/2	45.31	1/2		1/2	
3/4	1,976.34	3/4	1,699.42	3/4	1,422.49	3/4	1,145.58	3/4	868.79	3/4	592.77	3/4	315.82	3/4	39.69	3/4		3/4	
6	1,970.57	6	1,693.65	6	1,416.73	6	1,139.81	6	863.05	6	587.00	6	310.05	6	34.07	6		6	
1/4	1,964.80	1/4	1,687.88	1/4	1,410.96	1/4	1,134.05	1/4	857.30	1/4	581.23	1/4	304.28	1/4	28.44	1/4		1/4	
1/2	1,959.03	1/2	1,682.11	1/2	1,405.19	1/2	1,128.28	1/2	851.55	1/2	575.46	1/2	298.51	1/2	22.82	1/2		1/2	
3/4	1,953.26	3/4	1,676.34	3/4	1,399.42	3/4	1,122.51	3/4	845.81	3/4	569.69	3/4	292.74	3/4	17.26	3/4		3/4	
7	1,947.49	7	1,670.57	7	1,393.65	7	1,116.75	7	840.06	7	563.92	7	286.97	7	11.69	7		7	
1/4	1,941.72	1/4	1,664.80	1/4	1,387.88	1/4	1,110.98	1/4	834.32	1/4	558.15	1/4	281.20	1/4	6.13	1/4		1/4	
1/2	1,935.95	1/2	1,659.03	1/2	1,382.11	1/2	1,105.21	1/2	828.57	1/2	552.38	1/2	275.43	1/2	0.56	1/2		1/2	
3/4	1,930.18	3/4	1,653.26	3/4	1,376.34	3/4	1,099.45	3/4	822.82	3/4	546.61	3/4	269.66	3/4		3/4		3/4	
8	1,924.42	8	1,647.50	8	1,370.57	8	1,093.68	8	817.08	8	540.85	8	263.89	8		8		8	
1/4	1,918.65	1/4	1,641.73	1/4	1,364.80	1/4	1,087.92	1/4	811.33	1/4	535.08	1/4	258.12	1/4		1/4		1/4	
1/2	1,912.88	1/2	1,635.96	1/2	1,359.03	1/2	1,082.15	1/2	805.58	1/2	529.31	1/2	252.35	1/2		1/2		1/2	
3/4	1,907.11	3/4	1,630.19	3/4	1,353.26	3/4	1,076.39	3/4	799.83	3/4	523.54	3/4	246.58	3/4		3/4		3/4	
9	1,901.34	9	1,624.42	9	1,347.50	9	1,070.62	9	794.09	9	517.77	9	240.82	9		9		9	
1/4	1,895.57	1/4	1,618.65	1/4	1,341.73	1/4	1,064.86	1/4	788.34	1/4	512.00	1/4	235.05	1/4		1/4		1/4	
1/2	1,889.80	1/2	1,612.88	1/2	1,335.96	1/2	1,059.09	1/2	782.59	1/2	506.23	1/2	229.28	1/2		1/2		1/2	
3/4	1,884.03	3/4	1,607.11	3/4	1,330.19	3/4	1,053.32	3/4	776.85	3/4	500.46	3/4	223.51	3/4		3/4		3/4	
10	1,878.26	10	1,601.34	10	1,324.42	10	1,047.56	10	771.10	10	494.69	10	217.74	10		10		10	
1/4	1,872.49	1/4	1,595.57	1/4	1,318.65	1/4	1,041.79	1/4	765.36	1/4	488.92	1/4	211.97	1/4		1/4		1/4	
1/2	1,866.72	1/2	1,589.80	1/2	1,312.88	1/2	1,036.02	1/2	759.61	1/2	483.15	1/2	206.20	1/2		1/2		1/2	
3/4	1,860.95	3/4	1,584.03	3/4	1,307.11	3/4	1,030.25	3/4	753.86	3/4	477.38	3/4	200.43	3/4		3/4		3/4	
11	1,855.19	11	1,578.27	11	1,301.34	11	1,024.49	11	748.12	11	471.61	11	194.66	11		11		11	
1/4	1,849.42	1/4	1,572.50	1/4	1,295.57	1/4	1,018.72	1/4	742.37	1/4	465.83	1/4	188.89	1/4		1/4		1/4	
1/2	1,843.65	1/2	1,566.73	1/2	1,289.80	1/2	1,012.95	1/2	736.62	1/2	460.06	1/2	183.12	1/2		1/2		1/2	
3/4	1,837.88	3/4	1,560.96	3/4	1,284.03	3/4	1,007.18	3/4	730.87	3/4	454.29	3/4	177.35	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED BY: 01/03/2008 INT.  
RECALCULATED: 02/24/2022 PMA  
NAME CHANGE: 02/24/2022 PMA

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

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2022



# BARGE "KIRBY 11531"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CGBM 105"

GAUGE HEIGHT 17'-08"

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	3,624.84	0	3,377.77	0	3,130.46	0	2,883.14	0	2,635.83	0	2,388.51	0	2,141.20
1/4		1/4		1/4		1/4	3,619.75	1/4	3,372.62	1/4	3,125.31	1/4	2,877.99	1/4	2,630.68	1/4	2,383.36	1/4	2,136.05
1/2		1/2		1/2		1/2	3,614.66	1/2	3,367.46	1/2	3,120.15	1/2	2,872.83	1/2	2,625.52	1/2	2,378.20	1/2	2,130.89
3/4		3/4		3/4		3/4	3,609.57	3/4	3,362.31	3/4	3,115.00	3/4	2,867.68	3/4	2,620.37	3/4	2,373.05	3/4	2,125.74
1		1		1		1	3,604.48	1	3,357.16	1	3,109.85	1	2,862.53	1	2,615.22	1	2,367.90	1	2,120.59
1/4		1/4		1/4		1/4	3,599.33	1/4	3,352.01	1/4	3,104.70	1/4	2,857.38	1/4	2,610.07	1/4	2,362.75	1/4	2,115.44
1/2		1/2		1/2		1/2	3,594.18	1/2	3,346.85	1/2	3,099.54	1/2	2,852.22	1/2	2,604.91	1/2	2,357.59	1/2	2,110.28
3/4		3/4		3/4		3/4	3,589.02	3/4	3,341.70	3/4	3,094.39	3/4	2,847.07	3/4	2,599.76	3/4	2,352.44	3/4	2,105.13
2		2		2		2	3,583.87	2	3,336.55	2	3,089.24	2	2,841.92	2	2,594.61	2	2,347.29	2	2,099.98
1/4		1/4		1/4		1/4	3,578.72	1/4	3,331.40	1/4	3,084.09	1/4	2,836.77	1/4	2,589.46	1/4	2,342.14	1/4	2,094.83
1/2		1/2		1/2		1/2	3,573.57	1/2	3,326.25	1/2	3,078.93	1/2	2,831.61	1/2	2,584.30	1/2	2,336.98	1/2	2,089.67
3/4		3/4		3/4		3/4	3,568.41	3/4	3,321.10	3/4	3,073.78	3/4	2,826.46	3/4	2,579.15	3/4	2,331.83	3/4	2,084.52
3		3		3		3	3,563.26	3	3,315.95	3	3,068.63	3	2,821.31	3	2,574.00	3	2,326.68	3	2,079.37
1/4		1/4		1/4		1/4	3,558.11	1/4	3,310.80	1/4	3,063.48	1/4	2,816.16	1/4	2,568.85	1/4	2,321.53	1/4	2,074.22
1/2		1/2		1/2		1/2	3,552.96	1/2	3,305.64	1/2	3,058.32	1/2	2,811.01	1/2	2,563.69	1/2	2,316.37	1/2	2,069.06
3/4		3/4		3/4		3/4	3,547.80	3/4	3,300.49	3/4	3,053.17	3/4	2,805.86	3/4	2,558.54	3/4	2,311.22	3/4	2,063.91
4		4		4		4	3,542.65	4	3,295.34	4	3,048.02	4	2,800.71	4	2,553.39	4	2,306.07	4	2,058.76
1/4		1/4		1/4		1/4	3,537.50	1/4	3,290.19	1/4	3,042.87	1/4	2,795.56	1/4	2,548.24	1/4	2,300.92	1/4	2,053.61
1/2		1/2		1/2		1/2	3,532.35	1/2	3,285.03	1/2	3,037.71	1/2	2,790.40	1/2	2,543.08	1/2	2,295.77	1/2	2,048.45
3/4		3/4		3/4		3/4	3,527.19	3/4	3,279.88	3/4	3,032.56	3/4	2,785.25	3/4	2,537.93	3/4	2,290.62	3/4	2,043.30
5		5		5		5	3,522.04	5	3,274.73	5	3,027.41	5	2,780.10	5	2,532.78	5	2,285.47	5	2,038.15
1/4		1/4		1/4		1/4	3,516.89	1/4	3,269.58	1/4	3,022.26	1/4	2,774.95	1/4	2,527.63	1/4	2,280.32	1/4	2,033.00
1/2		1/2		1/2		1/2	3,511.74	1/2	3,264.42	1/2	3,017.10	1/2	2,769.79	1/2	2,522.47	1/2	2,275.16	1/2	2,027.84
3/4		3/4		3/4		3/4	3,506.58	3/4	3,259.27	3/4	3,011.95	3/4	2,764.64	3/4	2,517.32	3/4	2,270.01	3/4	2,022.69
6		6		6		6	3,501.43	6	3,254.12	6	3,006.80	6	2,759.49	6	2,512.17	6	2,264.86	6	2,017.54
1/4		1/4		1/4		1/4	3,496.28	1/4	3,248.97	1/4	3,001.65	1/4	2,754.34	1/4	2,507.02	1/4	2,259.71	1/4	2,012.39
1/2		1/2		1/2		1/2	3,491.12	1/2	3,243.81	1/2	2,996.49	1/2	2,749.18	1/2	2,501.86	1/2	2,254.55	1/2	2,007.23
3/4		3/4		3/4		3/4	3,485.97	3/4	3,238.66	3/4	2,991.34	3/4	2,744.03	3/4	2,496.71	3/4	2,249.40	3/4	2,002.08
7		7		7	3,675.06	7	3,480.82	7	3,233.51	7	2,986.19	7	2,738.88	7	2,491.56	7	2,244.25	7	1,996.93
1/4		1/4		1/4	3,674.61	1/4	3,475.67	1/4	3,228.36	1/4	2,981.04	1/4	2,733.73	1/4	2,486.41	1/4	2,239.10	1/4	1,991.78
1/2		1/2		1/2	3,674.17	1/2	3,470.51	1/2	3,223.20	1/2	2,975.88	1/2	2,728.57	1/2	2,481.25	1/2	2,233.94	1/2	1,986.62
3/4		3/4		3/4	3,673.72	3/4	3,465.36	3/4	3,218.05	3/4	2,970.73	3/4	2,723.42	3/4	2,476.10	3/4	2,228.79	3/4	1,981.47
8		8		8	3,673.27	8	3,460.21	8	3,212.90	8	2,965.58	8	2,718.27	8	2,470.95	8	2,223.64	8	1,976.32
1/4		1/4		1/4	3,671.79	1/4	3,455.06	1/4	3,207.75	1/4	2,960.43	1/4	2,713.12	1/4	2,465.80	1/4	2,218.49	1/4	1,971.17
1/2		1/2		1/2	3,670.31	1/2	3,449.90	1/2	3,202.59	1/2	2,955.27	1/2	2,707.96	1/2	2,460.64	1/2	2,213.33	1/2	1,966.01
3/4		3/4		3/4	3,668.83	3/4	3,444.75	3/4	3,197.44	3/4	2,950.12	3/4	2,702.81	3/4	2,455.49	3/4	2,208.18	3/4	1,960.86
9		9		9	3,667.35	9	3,439.60	9	3,192.29	9	2,944.97	9	2,697.66	9	2,450.34	9	2,203.03	9	1,955.71
1/4		1/4		1/4	3,664.84	1/4	3,434.45	1/4	3,187.14	1/4	2,939.82	1/4	2,692.51	1/4	2,445.19	1/4	2,197.88	1/4	1,950.56
1/2		1/2		1/2	3,662.33	1/2	3,429.29	1/2	3,181.98	1/2	2,934.66	1/2	2,687.35	1/2	2,440.03	1/2	2,192.72	1/2	1,945.40
3/4		3/4		3/4	3,659.82	3/4	3,424.14	3/4	3,176.83	3/4	2,929.51	3/4	2,682.20	3/4	2,434.88	3/4	2,187.57	3/4	1,940.25
10		10		10	3,657.31	10	3,418.99	10	3,171.68	10	2,924.36	10	2,677.05	10	2,429.73	10	2,182.42	10	1,935.10
1/4		1/4		1/4	3,653.77	1/4	3,413.84	1/4	3,166.53	1/4	2,919.21	1/4	2,671.90	1/4	2,424.58	1/4	2,177.27	1/4	1,929.95
1/2		1/2		1/2	3,650.23	1/2	3,408.68	1/2	3,161.37	1/2	2,914.05	1/2	2,666.74	1/2	2,419.42	1/2	2,172.11	1/2	1,924.79
3/4		3/4		3/4	3,646.68	3/4	3,403.53	3/4	3,156.22	3/4	2,908.90	3/4	2,661.59	3/4	2,414.27	3/4	2,166.96	3/4	1,919.64
11		11		11	3,643.14	11	3,398.38	11	3,151.07	11	2,903.75	11	2,656.44	11	2,409.12	11	2,161.81	11	1,914.49
1/4		1/4		1/4	3,638.57	1/4	3,393.23	1/4	3,145.92	1/4	2,898.60	1/4	2,651.29	1/4	2,403.97	1/4	2,156.66	1/4	1,909.34
1/2		1/2		1/2	3,633.99	1/2	3,388.07	1/2	3,140.76	1/2	2,893.44	1/2	2,646.13	1/2	2,398.81	1/2	2,151.50	1/2	1,904.18
3/4		3/4		3/4	3,629.42	3/4	3,382.92	3/4	3,135.61	3/4	2,888.29	3/4	2,640.98	3/4	2,393.66	3/4	2,146.35	3/4	1,899.03

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 ON CENTERLINE AND 27'-03" 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 11531"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CGBM 105"

GAUGE HEIGHT 17'-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	1,893.88	0	1,646.57	0	1,399.25	0	1,151.94	0	904.69	0	657.91	0	410.93	0	163.60	0		0	
1/4	1,888.73	1/4	1,641.42	1/4	1,394.10	1/4	1,146.79	1/4	899.54	1/4	652.78	1/4	405.77	1/4	158.45	1/4		1/4	
1/2	1,883.57	1/2	1,636.26	1/2	1,388.94	1/2	1,141.63	1/2	894.39	1/2	647.64	1/2	400.62	1/2	153.29	1/2		1/2	
3/4	1,878.42	3/4	1,631.11	3/4	1,383.79	3/4	1,136.48	3/4	889.24	3/4	642.51	3/4	395.46	3/4	148.14	3/4		3/4	
1	1,873.27	1	1,625.96	1	1,378.64	1	1,131.33	1	884.09	1	637.38	1	390.31	1	142.99	1		1	
1/4	1,868.12	1/4	1,620.81	1/4	1,373.49	1/4	1,126.18	1/4	878.94	1/4	632.25	1/4	385.16	1/4	137.84	1/4		1/4	
1/2	1,862.96	1/2	1,615.65	1/2	1,368.33	1/2	1,121.02	1/2	873.79	1/2	627.12	1/2	380.00	1/2	132.68	1/2		1/2	
3/4	1,857.81	3/4	1,610.50	3/4	1,363.18	3/4	1,115.87	3/4	868.64	3/4	621.99	3/4	374.85	3/4	127.53	3/4		3/4	
2	1,852.66	2	1,605.35	2	1,358.03	2	1,110.72	2	863.49	2	616.86	2	369.70	2	122.38	2		2	
1/4	1,847.51	1/4	1,600.20	1/4	1,352.88	1/4	1,105.57	1/4	858.34	1/4	611.73	1/4	364.55	1/4	117.23	1/4		1/4	
1/2	1,842.35	1/2	1,595.04	1/2	1,347.72	1/2	1,100.41	1/2	853.19	1/2	606.59	1/2	359.39	1/2	112.07	1/2		1/2	
3/4	1,837.20	3/4	1,589.89	3/4	1,342.57	3/4	1,095.26	3/4	848.04	3/4	601.46	3/4	354.24	3/4	106.92	3/4		3/4	
3	1,832.05	3	1,584.74	3	1,337.42	3	1,090.11	3	842.89	3	596.33	3	349.09	3	101.77	3		3	
1/4	1,826.90	1/4	1,579.59	1/4	1,332.27	1/4	1,084.96	1/4	837.74	1/4	591.20	1/4	343.94	1/4	96.63	1/4		1/4	
1/2	1,821.74	1/2	1,574.43	1/2	1,327.11	1/2	1,079.80	1/2	832.59	1/2	586.06	1/2	338.78	1/2	91.49	1/2		1/2	
3/4	1,816.59	3/4	1,569.28	3/4	1,321.96	3/4	1,074.65	3/4	827.44	3/4	580.93	3/4	333.63	3/4	86.36	3/4		3/4	
4	1,811.44	4	1,564.13	4	1,316.81	4	1,069.50	4	822.29	4	575.80	4	328.48	4	81.22	4		4	
1/4	1,806.29	1/4	1,558.98	1/4	1,311.66	1/4	1,064.35	1/4	817.14	1/4	570.65	1/4	323.33	1/4	76.12	1/4		1/4	
1/2	1,801.13	1/2	1,553.82	1/2	1,306.50	1/2	1,059.19	1/2	811.99	1/2	565.50	1/2	318.17	1/2	71.01	1/2		1/2	
3/4	1,795.98	3/4	1,548.67	3/4	1,301.35	3/4	1,054.04	3/4	806.84	3/4	560.35	3/4	313.02	3/4	65.91	3/4		3/4	
5	1,790.83	5	1,543.52	5	1,296.20	5	1,048.89	5	801.69	5	555.20	5	307.87	5	60.81	5		5	
1/4	1,785.68	1/4	1,538.37	1/4	1,291.05	1/4	1,043.74	1/4	796.54	1/4	550.05	1/4	302.72	1/4	55.74	1/4		1/4	
1/2	1,780.53	1/2	1,533.21	1/2	1,285.89	1/2	1,038.58	1/2	791.39	1/2	544.90	1/2	297.56	1/2	50.67	1/2		1/2	
3/4	1,775.38	3/4	1,528.06	3/4	1,280.74	3/4	1,033.43	3/4	786.24	3/4	539.75	3/4	292.41	3/4	45.60	3/4		3/4	
6	1,770.23	6	1,522.91	6	1,275.59	6	1,028.28	6	781.09	6	534.60	6	287.26	6	40.53	6		6	
1/4	1,765.08	1/4	1,517.76	1/4	1,270.44	1/4	1,023.13	1/4	775.96	1/4	529.45	1/4	282.11	1/4	35.51	1/4		1/4	
1/2	1,759.92	1/2	1,512.60	1/2	1,265.29	1/2	1,017.98	1/2	770.82	1/2	524.29	1/2	276.95	1/2	30.48	1/2		1/2	
3/4	1,754.77	3/4	1,507.45	3/4	1,260.14	3/4	1,012.83	3/4	765.69	3/4	519.14	3/4	271.80	3/4	25.46	3/4		3/4	
7	1,749.62	7	1,502.30	7	1,254.99	7	1,007.68	7	760.56	7	513.99	7	266.65	7	20.44	7		7	
1/4	1,744.47	1/4	1,497.15	1/4	1,249.84	1/4	1,002.53	1/4	755.43	1/4	508.84	1/4	261.50	1/4	15.47	1/4		1/4	
1/2	1,739.31	1/2	1,491.99	1/2	1,244.68	1/2	997.38	1/2	750.29	1/2	503.68	1/2	256.34	1/2	10.50	1/2		1/2	
3/4	1,734.16	3/4	1,486.84	3/4	1,239.53	3/4	992.24	3/4	745.16	3/4	498.53	3/4	251.19	3/4	5.53	3/4		3/4	
8	1,729.01	8	1,481.69	8	1,234.38	8	987.09	8	740.03	8	493.38	8	246.04	8	0.56	8		8	
1/4	1,723.86	1/4	1,476.54	1/4	1,229.23	1/4	981.94	1/4	734.90	1/4	488.23	1/4	240.89	1/4		1/4		1/4	
1/2	1,718.70	1/2	1,471.38	1/2	1,224.07	1/2	976.79	1/2	729.76	1/2	483.07	1/2	235.73	1/2		1/2		1/2	
3/4	1,713.55	3/4	1,466.23	3/4	1,218.92	3/4	971.64	3/4	724.63	3/4	477.92	3/4	230.58	3/4		3/4		3/4	
9	1,708.40	9	1,461.08	9	1,213.77	9	966.49	9	719.50	9	472.77	9	225.43	9		9		9	
1/4	1,703.25	1/4	1,455.93	1/4	1,208.62	1/4	961.34	1/4	714.37	1/4	467.62	1/4	220.28	1/4		1/4		1/4	
1/2	1,698.09	1/2	1,450.77	1/2	1,203.46	1/2	956.19	1/2	709.23	1/2	462.46	1/2	215.12	1/2		1/2		1/2	
3/4	1,692.94	3/4	1,445.62	3/4	1,198.31	3/4	951.04	3/4	704.10	3/4	457.31	3/4	209.97	3/4		3/4		3/4	
10	1,687.79	10	1,440.47	10	1,193.16	10	945.89	10	698.97	10	452.16	10	204.82	10		10		10	
1/4	1,682.64	1/4	1,435.32	1/4	1,188.01	1/4	940.74	1/4	693.84	1/4	447.01	1/4	199.67	1/4		1/4		1/4	
1/2	1,677.48	1/2	1,430.16	1/2	1,182.85	1/2	935.59	1/2	688.70	1/2	441.85	1/2	194.51	1/2		1/2		1/2	
3/4	1,672.33	3/4	1,425.01	3/4	1,177.70	3/4	930.44	3/4	683.57	3/4	436.70	3/4	189.36	3/4		3/4		3/4	
11	1,667.18	11	1,419.86	11	1,172.55	11	925.29	11	678.44	11	431.55	11	184.21	11		11		11	
1/4	1,662.03	1/4	1,414.71	1/4	1,167.40	1/4	920.14	1/4	673.31	1/4	426.39	1/4	179.06	1/4		1/4		1/4	
1/2	1,656.87	1/2	1,409.55	1/2	1,162.24	1/2	914.99	1/2	668.17	1/2	421.24	1/2	173.90	1/2		1/2		1/2	
3/4	1,651.72	3/4	1,404.40	3/4	1,157.09	3/4	909.84	3/4	663.04	3/4	416.08	3/4	168.75	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED BY: 01/03/2008 INT.  
RECALCULATED: 02/24/2022 PMA  
NAME CHANGE: 02/24/2022 PMA

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2022