



BARGE "KIRBY 11312"

ULLAGE TRIM TABLE

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

(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 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 162'-09"

August 5, 2005

PRECISION MEASUREMENT
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 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 11312"

1 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10 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	3,667.70	0	3,420.19	0	3,172.91	0	2,924.72	0	2,652.38	0	2,379.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,662.54	1/4	3,415.04	1/4	3,167.76	1/4	2,919.30	1/4	2,646.70	1/4	2,374.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,657.39	1/2	3,409.88	1/2	3,162.60	1/2	2,913.62	1/2	2,641.02	1/2	2,368.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,652.23	3/4	3,404.72	3/4	3,157.45	3/4	2,907.94	3/4	2,635.34	3/4	2,362.64
1		1		1		1		1	3,647.08	1	3,399.57	1	3,152.29	1	2,902.26	1	2,629.66	1	2,356.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,641.92	1/4	3,394.41	1/4	3,147.14	1/4	2,896.58	1/4	2,623.98	1/4	2,351.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,636.76	1/2	3,389.26	1/2	3,141.99	1/2	2,890.90	1/2	2,618.30	1/2	2,345.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,631.61	3/4	3,384.10	3/4	3,136.83	3/4	2,885.22	3/4	2,612.62	3/4	2,339.91
2		2		2		2		2	3,626.45	2	3,378.94	2	3,131.68	2	2,879.55	2	2,606.94	2	2,334.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,846.25	1/4	3,621.30	1/4	3,373.79	1/4	3,126.52	1/4	2,873.87	1/4	2,601.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,844.49	1/2	3,616.14	1/2	3,368.63	1/2	3,121.37	1/2	2,868.19	1/2	2,595.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,842.72	3/4	3,610.98	3/4	3,363.48	3/4	3,116.21	3/4	2,862.51	3/4	2,589.90
3		3		3		3		3	3,840.96	3	3,605.83	3	3,358.33	3	3,111.06	3	2,856.83	3	2,584.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,839.20	1/4	3,600.67	1/4	3,353.17	1/4	3,105.91	1/4	2,851.15	1/4	2,578.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,835.81	1/2	3,595.52	1/2	3,348.02	1/2	3,100.75	1/2	2,845.47	1/2	2,572.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,832.42	3/4	3,590.36	3/4	3,342.87	3/4	3,095.60	3/4	2,839.79	3/4	2,567.17
4		4		4		4		4	3,829.03	4	3,585.20	4	3,337.72	4	3,090.44	4	2,834.11	4	2,561.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,825.64	1/4	3,580.05	1/4	3,332.58	1/4	3,085.29	1/4	2,828.43	1/4	2,555.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,820.96	1/2	3,574.89	1/2	3,327.43	1/2	3,080.13	1/2	2,822.75	1/2	2,550.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,816.28	3/4	3,569.73	3/4	3,322.28	3/4	3,074.98	3/4	2,817.07	3/4	2,544.45
5		5		5		5		5	3,811.60	5	3,564.58	5	3,317.13	5	3,069.82	5	2,811.40	5	2,538.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,806.92	1/4	3,559.42	1/4	3,311.98	1/4	3,064.67	1/4	2,805.72	1/4	2,533.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,801.76	1/2	3,554.26	1/2	3,306.83	1/2	3,059.52	1/2	2,800.04	1/2	2,527.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,796.61	3/4	3,549.11	3/4	3,301.68	3/4	3,054.36	3/4	2,794.36	3/4	2,521.72
6		6		6		6		6	3,791.45	6	3,543.95	6	3,296.53	6	3,049.21	6	2,788.68	6	2,516.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,786.29	1/4	3,538.79	1/4	3,291.38	1/4	3,044.05	1/4	2,783.00	1/4	2,510.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,781.14	1/2	3,533.64	1/2	3,286.23	1/2	3,038.90	1/2	2,777.32	1/2	2,504.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,775.98	3/4	3,528.48	3/4	3,281.08	3/4	3,033.74	3/4	2,771.64	3/4	2,499.00
7		7		7		7		7	3,770.82	7	3,523.32	7	3,275.93	7	3,028.59	7	2,765.96	7	2,493.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,765.67	1/4	3,518.17	1/4	3,270.78	1/4	3,023.43	1/4	2,760.28	1/4	2,487.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,760.51	1/2	3,513.01	1/2	3,265.63	1/2	3,018.28	1/2	2,754.60	1/2	2,481.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,755.35	3/4	3,507.85	3/4	3,260.48	3/4	3,013.13	3/4	2,748.93	3/4	2,476.27
8		8		8		8		8	3,750.20	8	3,502.70	8	3,255.33	8	3,007.97	8	2,743.25	8	2,470.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,745.04	1/4	3,497.54	1/4	3,250.18	1/4	3,002.82	1/4	2,737.57	1/4	2,464.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,739.88	1/2	3,492.39	1/2	3,245.03	1/2	2,997.66	1/2	2,731.89	1/2	2,459.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,734.73	3/4	3,487.23	3/4	3,239.88	3/4	2,992.51	3/4	2,726.21	3/4	2,453.54
9		9		9		9		9	3,729.57	9	3,482.07	9	3,234.73	9	2,987.35	9	2,720.53	9	2,447.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,724.42	1/4	3,476.92	1/4	3,229.58	1/4	2,982.20	1/4	2,714.85	1/4	2,442.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,719.26	1/2	3,471.76	1/2	3,224.43	1/2	2,977.05	1/2	2,709.17	1/2	2,436.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,714.10	3/4	3,466.60	3/4	3,219.28	3/4	2,971.89	3/4	2,703.49	3/4	2,430.82
10		10		10		10		10	3,708.95	10	3,461.45	10	3,214.13	10	2,966.74	10	2,697.81	10	2,425.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,703.79	1/4	3,456.29	1/4	3,208.98	1/4	2,961.58	1/4	2,692.13	1/4	2,419.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,698.63	1/2	3,451.13	1/2	3,203.83	1/2	2,956.43	1/2	2,686.46	1/2	2,413.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,693.48	3/4	3,445.98	3/4	3,198.68	3/4	2,951.27	3/4	2,680.78	3/4	2,408.09
11		11		11		11		11	3,688.32	11	3,440.82	11	3,193.53	11	2,946.12	11	2,675.10	11	2,402.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,683.16	1/4	3,435.66	1/4	3,188.38	1/4	2,940.96	1/4	2,669.42	1/4	2,396.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,678.01	1/2	3,430.51	1/2	3,183.22	1/2	2,935.55	1/2	2,663.74	1/2	2,391.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,672.85	3/4	3,425.35	3/4	3,178.07	3/4	2,930.13	3/4	2,658.06	3/4	2,385.37

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 1'-00" OFF CENTERLINE AND 28'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "KIRBY 11312"

1 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10 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	2,107.63	0	1,835.36	0	1,562.71	0	1,290.05	0	1,017.39	0	747.93	0	477.12	0	203.97	0		0	
1/4	2,101.98	1/4	1,829.68	1/4	1,557.02	1/4	1,284.37	1/4	1,011.71	1/4	742.38	1/4	471.43	1/4	198.27	1/4		1/4	
1/2	2,096.32	1/2	1,824.00	1/2	1,551.34	1/2	1,278.69	1/2	1,006.03	1/2	736.83	1/2	465.75	1/2	192.58	1/2		1/2	
3/4	2,090.67	3/4	1,818.32	3/4	1,545.66	3/4	1,273.00	3/4	1,000.35	3/4	731.28	3/4	460.07	3/4	186.88	3/4		3/4	
1	2,085.01	1	1,812.64	1	1,539.98	1	1,267.32	1	994.67	1	725.72	1	454.38	1	181.19	1		1	
1/4	2,079.36	1/4	1,806.96	1/4	1,534.30	1/4	1,261.64	1/4	988.98	1/4	720.17	1/4	448.70	1/4	175.49	1/4		1/4	
1/2	2,073.70	1/2	1,801.28	1/2	1,528.62	1/2	1,255.96	1/2	983.30	1/2	714.62	1/2	443.02	1/2	169.80	1/2		1/2	
3/4	2,068.05	3/4	1,795.60	3/4	1,522.94	3/4	1,250.28	3/4	977.62	3/4	709.07	3/4	437.33	3/4	164.10	3/4		3/4	
2	2,062.39	2	1,789.92	2	1,517.26	2	1,244.60	2	971.94	2	703.52	2	431.65	2	158.41	2		2	
1/4	2,056.74	1/4	1,784.24	1/4	1,511.58	1/4	1,238.92	1/4	966.26	1/4	697.96	1/4	425.97	1/4	152.71	1/4		1/4	
1/2	2,051.08	1/2	1,778.56	1/2	1,505.90	1/2	1,233.24	1/2	960.58	1/2	692.41	1/2	420.28	1/2	147.02	1/2		1/2	
3/4	2,045.43	3/4	1,772.88	3/4	1,500.22	3/4	1,227.56	3/4	954.90	3/4	686.86	3/4	414.60	3/4	141.32	3/4		3/4	
3	2,039.77	3	1,767.20	3	1,494.54	3	1,221.88	3	949.22	3	681.31	3	408.92	3	135.63	3		3	
1/4	2,034.12	1/4	1,761.52	1/4	1,488.86	1/4	1,216.20	1/4	943.54	1/4	675.76	1/4	403.23	1/4	129.93	1/4		1/4	
1/2	2,028.45	1/2	1,755.84	1/2	1,483.18	1/2	1,210.52	1/2	937.86	1/2	670.14	1/2	397.55	1/2	124.24	1/2		1/2	
3/4	2,022.79	3/4	1,750.16	3/4	1,477.50	3/4	1,204.84	3/4	932.18	3/4	664.52	3/4	391.87	3/4	118.54	3/4		3/4	
4	2,017.12	4	1,744.48	4	1,471.82	4	1,199.16	4	926.50	4	658.91	4	386.18	4	112.85	4		4	
1/4	2,011.46	1/4	1,738.80	1/4	1,466.14	1/4	1,193.48	1/4	920.82	1/4	653.29	1/4	380.50	1/4	107.15	1/4		1/4	
1/2	2,005.78	1/2	1,733.12	1/2	1,460.46	1/2	1,187.80	1/2	915.14	1/2	647.61	1/2	374.80	1/2	101.46	1/2		1/2	
3/4	2,000.10	3/4	1,727.44	3/4	1,454.78	3/4	1,182.12	3/4	909.46	3/4	641.92	3/4	369.11	3/4	95.76	3/4		3/4	
5	1,994.42	5	1,721.76	5	1,449.10	5	1,176.44	5	903.78	5	636.24	5	363.42	5	90.07	5		5	
1/4	1,988.74	1/4	1,716.08	1/4	1,443.42	1/4	1,170.76	1/4	898.10	1/4	630.56	1/4	357.73	1/4	84.37	1/4		1/4	
1/2	1,983.05	1/2	1,710.40	1/2	1,437.74	1/2	1,165.08	1/2	892.48	1/2	624.88	1/2	352.04	1/2	78.68	1/2		1/2	
3/4	1,977.37	3/4	1,704.72	3/4	1,432.06	3/4	1,159.40	3/4	886.86	3/4	619.19	3/4	346.34	3/4	72.98	3/4		3/4	
6	1,971.69	6	1,699.03	6	1,426.38	6	1,153.72	6	881.25	6	613.51	6	340.65	6	67.29	6		6	
1/4	1,966.01	1/4	1,693.35	1/4	1,420.70	1/4	1,148.04	1/4	875.63	1/4	607.83	1/4	334.95	1/4	61.60	1/4		1/4	
1/2	1,960.33	1/2	1,687.67	1/2	1,415.01	1/2	1,142.36	1/2	870.08	1/2	602.15	1/2	329.26	1/2	55.90	1/2		1/2	
3/4	1,954.65	3/4	1,681.99	3/4	1,409.33	3/4	1,136.68	3/4	864.53	3/4	596.46	3/4	323.56	3/4	50.21	3/4		3/4	
7	1,948.97	7	1,676.31	7	1,403.65	7	1,130.99	7	858.97	7	590.78	7	317.87	7	44.51	7		7	
1/4	1,943.29	1/4	1,670.63	1/4	1,397.97	1/4	1,125.31	1/4	853.42	1/4	585.10	1/4	312.17	1/4	38.82	1/4		1/4	
1/2	1,937.61	1/2	1,664.95	1/2	1,392.29	1/2	1,119.63	1/2	847.87	1/2	579.42	1/2	306.48	1/2	33.70	1/2		1/2	
3/4	1,931.93	3/4	1,659.27	3/4	1,386.61	3/4	1,113.95	3/4	842.31	3/4	573.73	3/4	300.78	3/4	28.58	3/4		3/4	
8	1,926.25	8	1,653.59	8	1,380.93	8	1,108.27	8	836.76	8	568.05	8	295.09	8	23.46	8		8	
1/4	1,920.57	1/4	1,647.91	1/4	1,375.25	1/4	1,102.59	1/4	831.21	1/4	562.37	1/4	289.39	1/4	18.34	1/4		1/4	
1/2	1,914.89	1/2	1,642.23	1/2	1,369.57	1/2	1,096.91	1/2	825.66	1/2	556.68	1/2	283.70	1/2	14.96	1/2		1/2	
3/4	1,909.21	3/4	1,636.55	3/4	1,363.89	3/4	1,091.23	3/4	820.10	3/4	551.00	3/4	278.00	3/4	11.57	3/4		3/4	
9	1,903.53	9	1,630.87	9	1,358.21	9	1,085.55	9	814.55	9	545.32	9	272.31	9	8.18	9		9	
1/4	1,897.85	1/4	1,625.19	1/4	1,352.53	1/4	1,079.87	1/4	809.00	1/4	539.63	1/4	266.61	1/4	4.79	1/4		1/4	
1/2	1,892.17	1/2	1,619.51	1/2	1,346.85	1/2	1,074.19	1/2	803.45	1/2	533.95	1/2	260.92	1/2	3.72	1/2		1/2	
3/4	1,886.49	3/4	1,613.83	3/4	1,341.17	3/4	1,068.51	3/4	797.90	3/4	528.27	3/4	255.22	3/4	2.64	3/4		3/4	
10	1,880.81	10	1,608.15	10	1,335.49	10	1,062.83	10	792.35	10	522.58	10	249.53	10	1.56	10		10	
1/4	1,875.13	1/4	1,602.47	1/4	1,329.81	1/4	1,057.15	1/4	786.79	1/4	516.90	1/4	243.83	1/4	0.48	1/4		1/4	
1/2	1,869.45	1/2	1,596.79	1/2	1,324.13	1/2	1,051.47	1/2	781.24	1/2	511.22	1/2	238.14	1/2		1/2		1/2	
3/4	1,863.77	3/4	1,591.11	3/4	1,318.45	3/4	1,045.79	3/4	775.69	3/4	505.53	3/4	232.44	3/4		3/4		3/4	
11	1,858.09	11	1,585.43	11	1,312.77	11	1,040.11	11	770.14	11	499.85	11	226.75	11		11		11	
1/4	1,852.41	1/4	1,579.75	1/4	1,307.09	1/4	1,034.43	1/4	764.59	1/4	494.17	1/4	221.05	1/4		1/4		1/4	
1/2	1,846.73	1/2	1,574.07	1/2	1,301.41	1/2	1,028.75	1/2	759.03	1/2	488.48	1/2	215.36	1/2		1/2		1/2	
3/4	1,841.04	3/4	1,568.39	3/4	1,295.73	3/4	1,023.07	3/4	753.48	3/4	482.80	3/4	209.66	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/04/2005 CL - SW
CALCULATED: 08/05/2005 CL
PRINTED: 08/05/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 11312"

2 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10 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	3,424.39	0	3,175.31	0	2,926.24	0	2,677.17	0	2,428.10	0	2,179.03
1/4		1/4		1/4		1/4		1/4	3,419.20	1/4	3,170.12	1/4	2,921.05	1/4	2,671.98	1/4	2,422.91	1/4	2,173.84
1/2		1/2		1/2		1/2		1/2	3,414.01	1/2	3,164.94	1/2	2,915.86	1/2	2,666.79	1/2	2,417.72	1/2	2,168.65
3/4		3/4		3/4		3/4		3/4	3,408.82	3/4	3,159.75	3/4	2,910.67	3/4	2,661.60	3/4	2,412.53	3/4	2,163.46
1		1		1		1		1	3,403.63	1	3,154.56	1	2,905.49	1	2,656.41	1	2,407.34	1	2,158.27
1/4		1/4		1/4		1/4		1/4	3,398.44	1/4	3,149.37	1/4	2,900.30	1/4	2,651.22	1/4	2,402.15	1/4	2,153.08
1/2		1/2		1/2		1/2		1/2	3,393.25	1/2	3,144.18	1/2	2,895.11	1/2	2,646.04	1/2	2,396.96	1/2	2,147.89
3/4		3/4		3/4		3/4		3/4	3,388.06	3/4	3,138.99	3/4	2,889.92	3/4	2,640.85	3/4	2,391.77	3/4	2,142.70
2		2		2		2		2	3,382.87	2	3,133.80	2	2,884.73	2	2,635.66	2	2,386.59	2	2,137.51
1/4		1/4		1/4		1/4	3,604.26	1/4	3,377.68	1/4	3,128.61	1/4	2,879.54	1/4	2,630.47	1/4	2,381.40	1/4	2,132.32
1/2		1/2		1/2		1/2	3,602.53	1/2	3,372.50	1/2	3,123.42	1/2	2,874.35	1/2	2,625.28	1/2	2,376.21	1/2	2,127.14
3/4		3/4		3/4		3/4	3,600.80	3/4	3,367.31	3/4	3,118.23	3/4	2,869.16	3/4	2,620.09	3/4	2,371.02	3/4	2,121.95
3		3		3		3	3,599.07	3	3,362.12	3	3,113.05	3	2,863.97	3	2,614.90	3	2,365.83	3	2,116.76
1/4		1/4		1/4		1/4	3,597.34	1/4	3,356.93	1/4	3,107.86	1/4	2,858.78	1/4	2,609.71	1/4	2,360.64	1/4	2,111.57
1/2		1/2		1/2		1/2	3,593.88	1/2	3,351.74	1/2	3,102.67	1/2	2,853.60	1/2	2,604.52	1/2	2,355.45	1/2	2,106.38
3/4		3/4		3/4		3/4	3,590.42	3/4	3,346.55	3/4	3,097.48	3/4	2,848.41	3/4	2,599.33	3/4	2,350.26	3/4	2,101.19
4		4		4		4	3,586.96	4	3,341.36	4	3,092.29	4	2,843.22	4	2,594.15	4	2,345.07	4	2,096.00
1/4		1/4		1/4		1/4	3,583.50	1/4	3,336.17	1/4	3,087.10	1/4	2,838.03	1/4	2,588.96	1/4	2,339.88	1/4	2,090.81
1/2		1/2		1/2		1/2	3,578.75	1/2	3,330.98	1/2	3,081.91	1/2	2,832.84	1/2	2,583.77	1/2	2,334.70	1/2	2,085.62
3/4		3/4		3/4		3/4	3,573.99	3/4	3,325.79	3/4	3,076.72	3/4	2,827.65	3/4	2,578.58	3/4	2,329.51	3/4	2,080.43
5		5		5		5	3,569.24	5	3,320.61	5	3,071.53	5	2,822.46	5	2,573.39	5	2,324.32	5	2,075.25
1/4		1/4		1/4		1/4	3,564.49	1/4	3,315.42	1/4	3,066.34	1/4	2,817.27	1/4	2,568.20	1/4	2,319.13	1/4	2,070.06
1/2		1/2		1/2		1/2	3,559.30	1/2	3,310.23	1/2	3,061.16	1/2	2,812.08	1/2	2,563.01	1/2	2,313.94	1/2	2,064.87
3/4		3/4		3/4		3/4	3,554.11	3/4	3,305.04	3/4	3,055.97	3/4	2,806.89	3/4	2,557.82	3/4	2,308.75	3/4	2,059.68
6		6		6		6	3,548.92	6	3,299.85	6	3,050.78	6	2,801.71	6	2,552.63	6	2,303.56	6	2,054.49
1/4		1/4		1/4		1/4	3,543.73	1/4	3,294.66	1/4	3,045.59	1/4	2,796.52	1/4	2,547.44	1/4	2,298.37	1/4	2,049.30
1/2		1/2		1/2		1/2	3,538.54	1/2	3,289.47	1/2	3,040.40	1/2	2,791.33	1/2	2,542.26	1/2	2,293.18	1/2	2,044.11
3/4		3/4		3/4		3/4	3,533.35	3/4	3,284.28	3/4	3,035.21	3/4	2,786.14	3/4	2,537.07	3/4	2,287.99	3/4	2,038.92
7		7		7		7	3,528.17	7	3,279.09	7	3,030.02	7	2,780.95	7	2,531.88	7	2,282.81	7	2,033.73
1/4		1/4		1/4		1/4	3,522.98	1/4	3,273.90	1/4	3,024.83	1/4	2,775.76	1/4	2,526.69	1/4	2,277.62	1/4	2,028.54
1/2		1/2		1/2		1/2	3,517.79	1/2	3,268.72	1/2	3,019.64	1/2	2,770.57	1/2	2,521.50	1/2	2,272.43	1/2	2,023.36
3/4		3/4		3/4		3/4	3,512.60	3/4	3,263.53	3/4	3,014.45	3/4	2,765.38	3/4	2,516.31	3/4	2,267.24	3/4	2,018.17
8		8		8		8	3,507.41	8	3,258.34	8	3,009.27	8	2,760.19	8	2,511.12	8	2,262.05	8	2,012.98
1/4		1/4		1/4		1/4	3,502.22	1/4	3,253.15	1/4	3,004.08	1/4	2,755.00	1/4	2,505.93	1/4	2,256.86	1/4	2,007.79
1/2		1/2		1/2		1/2	3,497.03	1/2	3,247.96	1/2	2,998.89	1/2	2,749.82	1/2	2,500.74	1/2	2,251.67	1/2	2,002.60
3/4		3/4		3/4		3/4	3,491.84	3/4	3,242.77	3/4	2,993.70	3/4	2,744.63	3/4	2,495.55	3/4	2,246.48	3/4	1,997.41
9		9		9		9	3,486.65	9	3,237.58	9	2,988.51	9	2,739.44	9	2,490.37	9	2,241.29	9	1,992.22
1/4		1/4		1/4		1/4	3,481.46	1/4	3,232.39	1/4	2,983.32	1/4	2,734.25	1/4	2,485.18	1/4	2,236.10	1/4	1,987.03
1/2		1/2		1/2		1/2	3,476.28	1/2	3,227.20	1/2	2,978.13	1/2	2,729.06	1/2	2,479.99	1/2	2,230.92	1/2	1,981.84
3/4		3/4		3/4		3/4	3,471.09	3/4	3,222.01	3/4	2,972.94	3/4	2,723.87	3/4	2,474.80	3/4	2,225.73	3/4	1,976.65
10		10		10		10	3,465.90	10	3,216.83	10	2,967.75	10	2,718.68	10	2,469.61	10	2,220.54	10	1,971.47
1/4		1/4		1/4		1/4	3,460.71	1/4	3,211.64	1/4	2,962.56	1/4	2,713.49	1/4	2,464.42	1/4	2,215.35	1/4	1,966.28
1/2		1/2		1/2		1/2	3,455.52	1/2	3,206.45	1/2	2,957.38	1/2	2,708.30	1/2	2,459.23	1/2	2,210.16	1/2	1,961.09
3/4		3/4		3/4		3/4	3,450.33	3/4	3,201.26	3/4	2,952.19	3/4	2,703.11	3/4	2,454.04	3/4	2,204.97	3/4	1,955.90
11		11		11		11	3,445.14	11	3,196.07	11	2,947.00	11	2,697.93	11	2,448.85	11	2,199.78	11	1,950.71
1/4		1/4		1/4		1/4	3,439.95	1/4	3,190.88	1/4	2,941.81	1/4	2,692.74	1/4	2,443.66	1/4	2,194.59	1/4	1,945.52
1/2		1/2		1/2		1/2	3,434.76	1/2	3,185.69	1/2	2,936.62	1/2	2,687.55	1/2	2,438.48	1/2	2,189.40	1/2	1,940.33
3/4		3/4		3/4		3/4	3,429.57	3/4	3,180.50	3/4	2,931.43	3/4	2,682.36	3/4	2,433.29	3/4	2,184.21	3/4	1,935.14

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 1'-00" OFF CENTERLINE AND 28'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 11312"

2 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-10 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	1,929.95	0	1,680.88	0	1,431.81	0	1,182.74	0	933.67	0	688.39	0	441.64	0	192.59	0		0	
1/4	1,924.76	1/4	1,675.69	1/4	1,426.62	1/4	1,177.55	1/4	928.48	1/4	683.36	1/4	436.45	1/4	187.40	1/4		1/4	
1/2	1,919.58	1/2	1,670.50	1/2	1,421.43	1/2	1,172.36	1/2	923.29	1/2	678.32	1/2	431.26	1/2	182.22	1/2		1/2	
3/4	1,914.39	3/4	1,665.31	3/4	1,416.24	3/4	1,167.17	3/4	918.10	3/4	673.28	3/4	426.08	3/4	177.03	3/4		3/4	
1	1,909.20	1	1,660.13	1	1,411.05	1	1,161.98	1	912.91	1	668.25	1	420.89	1	171.84	1		1	
1/4	1,904.01	1/4	1,654.94	1/4	1,405.86	1/4	1,156.79	1/4	907.72	1/4	663.21	1/4	415.70	1/4	166.65	1/4		1/4	
1/2	1,898.82	1/2	1,649.75	1/2	1,400.68	1/2	1,151.60	1/2	902.53	1/2	658.17	1/2	410.51	1/2	161.46	1/2		1/2	
3/4	1,893.63	3/4	1,644.56	3/4	1,395.49	3/4	1,146.41	3/4	897.34	3/4	653.14	3/4	405.32	3/4	156.27	3/4		3/4	
2	1,888.44	2	1,639.37	2	1,390.30	2	1,141.23	2	892.15	2	648.10	2	400.13	2	151.08	2		2	
1/4	1,883.25	1/4	1,634.18	1/4	1,385.11	1/4	1,136.04	1/4	886.96	1/4	643.07	1/4	394.94	1/4	145.90	1/4		1/4	
1/2	1,878.06	1/2	1,628.99	1/2	1,379.92	1/2	1,130.85	1/2	881.78	1/2	638.03	1/2	389.76	1/2	140.71	1/2		1/2	
3/4	1,872.87	3/4	1,623.80	3/4	1,374.73	3/4	1,125.66	3/4	876.59	3/4	632.99	3/4	384.57	3/4	135.52	3/4		3/4	
3	1,867.69	3	1,618.61	3	1,369.54	3	1,120.47	3	871.40	3	627.96	3	379.38	3	130.33	3		3	
1/4	1,862.50	1/4	1,613.42	1/4	1,364.35	1/4	1,115.28	1/4	866.21	1/4	622.92	1/4	374.19	1/4	125.14	1/4		1/4	
1/2	1,857.31	1/2	1,608.24	1/2	1,359.16	1/2	1,110.09	1/2	861.02	1/2	617.81	1/2	369.00	1/2	119.95	1/2		1/2	
3/4	1,852.12	3/4	1,603.05	3/4	1,353.97	3/4	1,104.90	3/4	855.83	3/4	612.70	3/4	363.81	3/4	114.77	3/4		3/4	
4	1,846.93	4	1,597.86	4	1,348.79	4	1,099.71	4	850.64	4	607.58	4	358.62	4	109.58	4		4	
1/4	1,841.74	1/4	1,592.67	1/4	1,343.60	1/4	1,094.52	1/4	845.45	1/4	602.47	1/4	353.44	1/4	104.39	1/4		1/4	
1/2	1,836.55	1/2	1,587.48	1/2	1,338.41	1/2	1,089.34	1/2	840.26	1/2	597.28	1/2	348.25	1/2	99.20	1/2		1/2	
3/4	1,831.36	3/4	1,582.29	3/4	1,333.22	3/4	1,084.15	3/4	835.07	3/4	592.10	3/4	343.06	3/4	94.01	3/4		3/4	
5	1,826.17	5	1,577.10	5	1,328.03	5	1,078.96	5	829.89	5	586.91	5	337.87	5	88.82	5		5	
1/4	1,820.98	1/4	1,571.91	1/4	1,322.84	1/4	1,073.77	1/4	824.70	1/4	581.72	1/4	332.68	1/4	83.63	1/4		1/4	
1/2	1,815.80	1/2	1,566.72	1/2	1,317.65	1/2	1,068.58	1/2	819.58	1/2	576.53	1/2	327.49	1/2	78.45	1/2		1/2	
3/4	1,810.61	3/4	1,561.53	3/4	1,312.46	3/4	1,063.39	3/4	814.47	3/4	571.35	3/4	322.31	3/4	73.26	3/4		3/4	
6	1,805.42	6	1,556.35	6	1,307.27	6	1,058.20	6	809.36	6	566.16	6	317.12	6	68.07	6		6	
1/4	1,800.23	1/4	1,551.16	1/4	1,302.08	1/4	1,053.01	1/4	804.24	1/4	560.97	1/4	311.93	1/4	62.88	1/4		1/4	
1/2	1,795.04	1/2	1,545.97	1/2	1,296.90	1/2	1,047.82	1/2	799.20	1/2	555.78	1/2	306.74	1/2	57.69	1/2		1/2	
3/4	1,789.85	3/4	1,540.78	3/4	1,291.71	3/4	1,042.63	3/4	794.17	3/4	550.60	3/4	301.55	3/4	52.50	3/4		3/4	
7	1,784.66	7	1,535.59	7	1,286.52	7	1,037.45	7	789.13	7	545.41	7	296.36	7	47.31	7		7	
1/4	1,779.47	1/4	1,530.40	1/4	1,281.33	1/4	1,032.26	1/4	784.09	1/4	540.22	1/4	291.17	1/4	42.13	1/4		1/4	
1/2	1,774.28	1/2	1,525.21	1/2	1,276.14	1/2	1,027.07	1/2	779.05	1/2	535.03	1/2	285.99	1/2	37.37	1/2		1/2	
3/4	1,769.09	3/4	1,520.02	3/4	1,270.95	3/4	1,021.88	3/4	774.02	3/4	529.85	3/4	280.80	3/4	32.61	3/4		3/4	
8	1,763.91	8	1,514.83	8	1,265.76	8	1,016.69	8	768.98	8	524.66	8	275.61	8	27.86	8		8	
1/4	1,758.72	1/4	1,509.64	1/4	1,260.57	1/4	1,011.50	1/4	763.94	1/4	519.47	1/4	270.42	1/4	23.10	1/4		1/4	
1/2	1,753.53	1/2	1,504.46	1/2	1,255.38	1/2	1,006.31	1/2	758.90	1/2	514.28	1/2	265.23	1/2	19.64	1/2		1/2	
3/4	1,748.34	3/4	1,499.27	3/4	1,250.19	3/4	1,001.12	3/4	753.87	3/4	509.09	3/4	260.04	3/4	16.18	3/4		3/4	
9	1,743.15	9	1,494.08	9	1,245.01	9	995.93	9	748.83	9	503.90	9	254.85	9	12.73	9		9	
1/4	1,737.96	1/4	1,488.89	1/4	1,239.82	1/4	990.74	1/4	743.80	1/4	498.71	1/4	249.67	1/4	9.27	1/4		1/4	
1/2	1,732.77	1/2	1,483.70	1/2	1,234.63	1/2	985.56	1/2	738.76	1/2	493.53	1/2	244.48	1/2	7.54	1/2		1/2	
3/4	1,727.58	3/4	1,478.51	3/4	1,229.44	3/4	980.37	3/4	733.72	3/4	488.34	3/4	239.29	3/4	5.81	3/4		3/4	
10	1,722.39	10	1,473.32	10	1,224.25	10	975.18	10	728.69	10	483.15	10	234.10	10	4.08	10		10	
1/4	1,717.20	1/4	1,468.13	1/4	1,219.06	1/4	969.99	1/4	723.65	1/4	477.96	1/4	228.91	1/4	2.35	1/4		1/4	
1/2	1,712.02	1/2	1,462.94	1/2	1,213.87	1/2	964.80	1/2	718.61	1/2	472.77	1/2	223.72	1/2		1/2		1/2	
3/4	1,706.83	3/4	1,457.75	3/4	1,208.68	3/4	959.61	3/4	713.58	3/4	467.58	3/4	218.54	3/4		3/4		3/4	
11	1,701.64	11	1,452.57	11	1,203.49	11	954.42	11	708.54	11	462.39	11	213.35	11		11		11	
1/4	1,696.45	1/4	1,447.38	1/4	1,198.30	1/4	949.23	1/4	703.50	1/4	457.21	1/4	208.16	1/4		1/4		1/4	
1/2	1,691.26	1/2	1,442.19	1/2	1,193.12	1/2	944.04	1/2	698.47	1/2	452.02	1/2	202.97	1/2		1/2		1/2	
3/4	1,686.07	3/4	1,437.00	3/4	1,187.93	3/4	938.85	3/4	693.43	3/4	446.83	3/4	197.78	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/04/2005 CL - SW
CALCULATED: 08/05/2005 CL
PRINTED: 08/05/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 11312"

3 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-09 5/8"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	3,405.31	0	3,157.10	0	2,908.89	0	2,660.68	0	2,412.47	0	2,164.27
1/4		1/4		1/4		1/4		1/4	3,400.13	1/4	3,151.93	1/4	2,903.72	1/4	2,655.51	1/4	2,407.30	1/4	2,159.09
1/2		1/2		1/2		1/2		1/2	3,394.96	1/2	3,146.76	1/2	2,898.55	1/2	2,650.34	1/2	2,402.13	1/2	2,153.92
3/4		3/4		3/4		3/4		3/4	3,389.79	3/4	3,141.58	3/4	2,893.38	3/4	2,645.17	3/4	2,396.96	3/4	2,148.75
1		1		1		1		1	3,384.62	1	3,136.41	1	2,888.21	1	2,640.00	1	2,391.79	1	2,143.58
1/4		1/4		1/4		1/4		1/4	3,379.45	1/4	3,131.24	1/4	2,883.03	1/4	2,634.83	1/4	2,386.62	1/4	2,138.41
1/2		1/2		1/2		5/8		1/2	3,597.51	1/2	3,374.28	1/2	3,126.07	1/2	2,877.86	1/2	2,629.66	1/2	2,381.45
3/4		3/4		3/4		3/4		3/4	3,596.65	3/4	3,369.11	3/4	3,120.90	3/4	2,872.69	3/4	2,624.48	3/4	2,128.07
2		2		2		2		2	3,594.92	2	3,363.94	2	3,115.73	2	2,867.52	2	2,619.31	2	2,122.90
1/4		1/4		1/4		1/4		1/4	3,593.20	1/4	3,358.77	1/4	3,110.56	1/4	2,862.35	1/4	2,614.14	1/4	2,117.73
1/2		1/2		1/2		1/2		1/2	3,591.48	1/2	3,353.60	1/2	3,105.39	1/2	2,857.18	1/2	2,608.97	1/2	2,112.56
3/4		3/4		3/4		3/4		3/4	3,588.89	3/4	3,348.42	3/4	3,100.22	3/4	2,852.01	3/4	2,603.80	3/4	2,107.38
3		3		3		3		3	3,585.45	3	3,343.25	3	3,095.05	3	2,846.84	3	2,598.63	3	2,102.21
1/4		1/4		1/4		1/4		1/4	3,582.00	1/4	3,338.08	1/4	3,089.87	1/4	2,841.67	1/4	2,593.46	1/4	2,097.04
1/2		1/2		1/2		1/2		1/2	3,578.56	1/2	3,332.91	1/2	3,084.70	1/2	2,836.50	1/2	2,588.29	1/2	2,091.87
3/4		3/4		3/4		3/4		3/4	3,574.46	3/4	3,327.74	3/4	3,079.53	3/4	2,831.32	3/4	2,583.12	3/4	2,086.70
4		4		4		4		4	3,569.72	4	3,322.57	4	3,074.36	4	2,826.15	4	2,577.95	4	2,081.53
1/4		1/4		1/4		1/4		1/4	3,564.98	1/4	3,317.40	1/4	3,069.19	1/4	2,820.98	1/4	2,572.77	1/4	2,076.36
1/2		1/2		1/2		1/2		1/2	3,560.24	1/2	3,312.23	1/2	3,064.02	1/2	2,815.81	1/2	2,567.60	1/2	2,071.19
3/4		3/4		3/4		3/4		3/4	3,555.26	3/4	3,307.06	3/4	3,058.85	3/4	2,810.64	3/4	2,562.43	3/4	2,066.02
5		5		5		5		5	3,550.09	5	3,301.89	5	3,053.68	5	2,805.47	5	2,557.26	5	2,060.85
1/4		1/4		1/4		1/4		1/4	3,544.92	1/4	3,296.71	1/4	3,048.51	1/4	2,800.30	1/4	2,552.09	1/4	2,055.67
1/2		1/2		1/2		1/2		1/2	3,539.75	1/2	3,291.54	1/2	3,043.34	1/2	2,795.13	1/2	2,546.92	1/2	2,050.50
3/4		3/4		3/4		3/4		3/4	3,534.58	3/4	3,286.37	3/4	3,038.16	3/4	2,789.96	3/4	2,541.75	3/4	2,045.33
6		6		6		6		6	3,529.41	6	3,281.20	6	3,032.99	6	2,784.79	6	2,536.58	6	2,040.16
1/4		1/4		1/4		1/4		1/4	3,524.24	1/4	3,276.03	1/4	3,027.82	1/4	2,779.61	1/4	2,531.41	1/4	2,034.99
1/2		1/2		1/2		1/2		1/2	3,519.07	1/2	3,270.86	1/2	3,022.65	1/2	2,774.44	1/2	2,526.24	1/2	2,029.82
3/4		3/4		3/4		3/4		3/4	3,513.90	3/4	3,265.69	3/4	3,017.48	3/4	2,769.27	3/4	2,521.06	3/4	2,024.65
7		7		7		7		7	3,508.73	7	3,260.52	7	3,012.31	7	2,764.10	7	2,515.89	7	2,019.48
1/4		1/4		1/4		1/4		1/4	3,503.55	1/4	3,255.35	1/4	3,007.14	1/4	2,758.93	1/4	2,510.72	1/4	2,014.31
1/2		1/2		1/2		1/2		1/2	3,498.38	1/2	3,250.18	1/2	3,001.97	1/2	2,753.76	1/2	2,505.55	1/2	2,009.14
3/4		3/4		3/4		3/4		3/4	3,493.21	3/4	3,245.00	3/4	2,996.80	3/4	2,748.59	3/4	2,500.38	3/4	2,003.96
8		8		8		8		8	3,488.04	8	3,239.83	8	2,991.63	8	2,743.42	8	2,495.21	8	1,998.79
1/4		1/4		1/4		1/4		1/4	3,482.87	1/4	3,234.66	1/4	2,986.45	1/4	2,738.25	1/4	2,490.04	1/4	1,993.62
1/2		1/2		1/2		1/2		1/2	3,477.70	1/2	3,229.49	1/2	2,981.28	1/2	2,733.08	1/2	2,484.87	1/2	1,988.45
3/4		3/4		3/4		3/4		3/4	3,472.53	3/4	3,224.32	3/4	2,976.11	3/4	2,727.90	3/4	2,479.70	3/4	1,983.28
9		9		9		9		9	3,467.36	9	3,219.15	9	2,970.94	9	2,722.73	9	2,474.53	9	1,978.11
1/4		1/4		1/4		1/4		1/4	3,462.19	1/4	3,213.98	1/4	2,965.77	1/4	2,717.56	1/4	2,469.35	1/4	1,972.94
1/2		1/2		1/2		1/2		1/2	3,457.02	1/2	3,208.81	1/2	2,960.60	1/2	2,712.39	1/2	2,464.18	1/2	1,967.77
3/4		3/4		3/4		3/4		3/4	3,451.84	3/4	3,203.64	3/4	2,955.43	3/4	2,707.22	3/4	2,459.01	3/4	1,962.60
10		10		10		10		10	3,446.67	10	3,198.47	10	2,950.26	10	2,702.05	10	2,453.84	10	1,957.43
1/4		1/4		1/4		1/4		1/4	3,441.50	1/4	3,193.29	1/4	2,945.09	1/4	2,696.88	1/4	2,448.67	1/4	1,952.25
1/2		1/2		1/2		1/2		1/2	3,436.33	1/2	3,188.12	1/2	2,939.92	1/2	2,691.71	1/2	2,443.50	1/2	1,947.08
3/4		3/4		3/4		3/4		3/4	3,431.16	3/4	3,182.95	3/4	2,934.74	3/4	2,686.54	3/4	2,438.33	3/4	1,941.91
11		11		11		11		11	3,425.99	11	3,177.78	11	2,929.57	11	2,681.37	11	2,433.16	11	1,936.74
1/4		1/4		1/4		1/4		1/4	3,420.82	1/4	3,172.61	1/4	2,924.40	1/4	2,676.19	1/4	2,427.99	1/4	1,931.57
1/2		1/2		1/2		1/2		1/2	3,415.65	1/2	3,167.44	1/2	2,919.23	1/2	2,671.02	1/2	2,422.82	1/2	1,926.40
3/4		3/4		3/4		3/4		3/4	3,410.48	3/4	3,162.27	3/4	2,914.06	3/4	2,665.85	3/4	2,417.64	3/4	1,921.23

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 1'-00" OFF CENTERLINE AND 28'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 11312"

3 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 17'-09 5/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,916.06	0	1,667.85	0	1,419.64	0	1,171.43	0	923.23	0	675.28	0	427.21	0	179.01	0		0	
1/4	1,910.89	1/4	1,662.68	1/4	1,414.47	1/4	1,166.26	1/4	918.05	1/4	670.12	1/4	422.04	1/4	173.84	1/4		1/4	
1/2	1,905.72	1/2	1,657.51	1/2	1,409.30	1/2	1,161.09	1/2	912.88	1/2	664.96	1/2	416.87	1/2	168.67	1/2		1/2	
3/4	1,900.54	3/4	1,652.34	3/4	1,404.13	3/4	1,155.92	3/4	907.71	3/4	659.80	3/4	411.70	3/4	163.50	3/4		3/4	
1	1,895.37	1	1,647.17	1	1,398.96	1	1,150.75	1	902.54	1	654.64	1	406.52	1	158.33	1		1	
1/4	1,890.20	1/4	1,641.99	1/4	1,393.79	1/4	1,145.58	1/4	897.37	1/4	649.48	1/4	401.35	1/4	153.16	1/4		1/4	
1/2	1,885.03	1/2	1,636.82	1/2	1,388.62	1/2	1,140.41	1/2	892.20	1/2	644.32	1/2	396.18	1/2	147.99	1/2		1/2	
3/4	1,879.86	3/4	1,631.65	3/4	1,383.44	3/4	1,135.24	3/4	887.03	3/4	639.16	3/4	391.01	3/4	142.82	3/4		3/4	
2	1,874.69	2	1,626.48	2	1,378.27	2	1,130.07	2	881.86	2	634.00	2	385.84	2	137.65	2		2	
1/4	1,869.52	1/4	1,621.31	1/4	1,373.10	1/4	1,124.89	1/4	876.69	1/4	628.84	1/4	380.67	1/4	132.48	1/4		1/4	
1/2	1,864.35	1/2	1,616.14	1/2	1,367.93	1/2	1,119.72	1/2	871.52	1/2	623.68	1/2	375.50	1/2	127.31	1/2		1/2	
3/4	1,859.18	3/4	1,610.97	3/4	1,362.76	3/4	1,114.55	3/4	866.34	3/4	618.51	3/4	370.33	3/4	122.14	3/4		3/4	
3	1,854.01	3	1,605.80	3	1,357.59	3	1,109.38	3	861.17	3	613.35	3	365.16	3	116.97	3		3	
1/4	1,848.83	1/4	1,600.63	1/4	1,352.42	1/4	1,104.21	1/4	856.00	1/4	608.18	1/4	359.99	1/4	111.79	1/4		1/4	
1/2	1,843.66	1/2	1,595.46	1/2	1,347.25	1/2	1,099.04	1/2	850.83	1/2	603.02	1/2	354.82	1/2	106.62	1/2		1/2	
3/4	1,838.49	3/4	1,590.28	3/4	1,342.08	3/4	1,093.87	3/4	845.66	3/4	597.85	3/4	349.65	3/4	101.45	3/4		3/4	
4	1,833.32	4	1,585.11	4	1,336.91	4	1,088.70	4	840.49	4	592.68	4	344.48	4	96.28	4		4	
1/4	1,828.15	1/4	1,579.94	1/4	1,331.73	1/4	1,083.53	1/4	835.32	1/4	587.51	1/4	339.31	1/4	91.11	1/4		1/4	
1/2	1,822.98	1/2	1,574.77	1/2	1,326.56	1/2	1,078.36	1/2	830.15	1/2	582.34	1/2	334.13	1/2	85.94	1/2		1/2	
3/4	1,817.81	3/4	1,569.60	3/4	1,321.39	3/4	1,073.18	3/4	824.98	3/4	577.16	3/4	328.96	3/4	80.77	3/4		3/4	
5	1,812.64	5	1,564.43	5	1,316.22	5	1,068.01	5	819.81	5	571.99	5	323.79	5	75.60	5		5	
1/4	1,807.47	1/4	1,559.26	1/4	1,311.05	1/4	1,062.84	1/4	814.65	1/4	566.82	1/4	318.62	1/4	70.43	1/4		1/4	
1/2	1,802.30	1/2	1,554.09	1/2	1,305.88	1/2	1,057.67	1/2	809.48	1/2	561.65	1/2	313.45	1/2	65.26	1/2		1/2	
3/4	1,797.12	3/4	1,548.92	3/4	1,300.71	3/4	1,052.50	3/4	804.32	3/4	556.48	3/4	308.28	3/4	60.09	3/4		3/4	
6	1,791.95	6	1,543.75	6	1,295.54	6	1,047.33	6	799.15	6	551.31	6	303.11	6	54.92	6		6	
1/4	1,786.78	1/4	1,538.57	1/4	1,290.37	1/4	1,042.16	1/4	793.99	1/4	546.14	1/4	297.94	1/4	49.75	1/4		1/4	
1/2	1,781.61	1/2	1,533.40	1/2	1,285.20	1/2	1,036.99	1/2	788.83	1/2	540.97	1/2	292.77	1/2	44.58	1/2		1/2	
3/4	1,776.44	3/4	1,528.23	3/4	1,280.02	3/4	1,031.82	3/4	783.67	3/4	535.79	3/4	287.60	3/4	39.41	3/4		3/4	
7	1,771.27	7	1,523.06	7	1,274.85	7	1,026.65	7	778.50	7	530.62	7	282.43	7	34.24	7		7	
1/4	1,766.10	1/4	1,517.89	1/4	1,269.68	1/4	1,021.47	1/4	773.34	1/4	525.45	1/4	277.26	1/4	29.07	1/4		1/4	
1/2	1,760.93	1/2	1,512.72	1/2	1,264.51	1/2	1,016.30	1/2	768.18	1/2	520.28	1/2	272.09	1/2	23.90	1/2		1/2	
3/4	1,755.76	3/4	1,507.55	3/4	1,259.34	3/4	1,011.13	3/4	763.02	3/4	515.11	3/4	266.92	3/4	18.73	3/4		3/4	
8	1,750.59	8	1,502.38	8	1,254.17	8	1,005.96	8	757.86	8	509.94	8	261.75	8	13.56	8		8	
1/4	1,745.41	1/4	1,497.21	1/4	1,249.00	1/4	1,000.79	1/4	752.70	1/4	504.77	1/4	256.57	1/4	8.39	1/4		1/4	
1/2	1,740.24	1/2	1,492.04	1/2	1,243.83	1/2	995.62	1/2	747.54	1/2	499.60	1/2	251.40	1/2	3.22	1/2		1/2	
3/4	1,735.07	3/4	1,486.86	3/4	1,238.66	3/4	990.45	3/4	742.38	3/4	494.43	3/4	246.23	3/4	-1.95	3/4		3/4	
9	1,729.90	9	1,481.69	9	1,233.49	9	985.28	9	737.22	9	489.26	9	241.06	9	-7.12	9		9	
1/4	1,724.73	1/4	1,476.52	1/4	1,228.31	1/4	980.11	1/4	732.05	1/4	484.09	1/4	235.89	1/4	-12.29	1/4		1/4	
1/2	1,719.56	1/2	1,471.35	1/2	1,223.14	1/2	974.94	1/2	726.89	1/2	478.91	1/2	230.72	1/2	-17.46	1/2		1/2	
3/4	1,714.39	3/4	1,466.18	3/4	1,217.97	3/4	969.76	3/4	721.73	3/4	473.74	3/4	225.55	3/4	-22.63	3/4		3/4	
10	1,709.22	10	1,461.01	10	1,212.80	10	964.59	10	716.57	10	468.57	10	220.38	10	-27.80	10		10	
1/4	1,704.05	1/4	1,455.84	1/4	1,207.63	1/4	959.42	1/4	711.41	1/4	463.40	1/4	215.21	1/4	-32.97	1/4		1/4	
1/2	1,698.88	1/2	1,450.67	1/2	1,202.46	1/2	954.25	1/2	706.25	1/2	458.23	1/2	210.04	1/2	-38.14	1/2		1/2	
3/4	1,693.70	3/4	1,445.50	3/4	1,197.29	3/4	949.08	3/4	701.09	3/4	453.06	3/4	204.87	3/4	-43.31	3/4		3/4	
11	1,688.53	11	1,440.33	11	1,192.12	11	943.91	11	695.93	11	447.89	11	199.70	11	-48.48	11		11	
1/4	1,683.36	1/4	1,435.15	1/4	1,186.95	1/4	938.74	1/4	690.77	1/4	442.72	1/4	194.53	1/4	-53.65	1/4		1/4	
1/2	1,678.19	1/2	1,429.98	1/2	1,181.78	1/2	933.57	1/2	685.61	1/2	437.55	1/2	189.36	1/2	-58.82	1/2		1/2	
3/4	1,673.02	3/4	1,424.81	3/4	1,176.60	3/4	928.40	3/4	680.45	3/4	432.38	3/4	184.18	3/4	-63.99	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/04/2005 CL - SW
CALCULATED: 08/05/2005 CL
PRINTED: 08/05/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

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