



BARGE "KIRBY 29120"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-3/8	- 02-3/8
3 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-3/8	- 02-3/8

(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 1 PORT IS - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8'

LENGTH BETWEEN DRAFT MARKS: 261'-00"

October 16, 2014

PRECISION MEASUREMENT
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BARGE "KIRBY 29120"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-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	4,955.94	0	4,623.55	0	4,284.55	0	3,929.05	0	3,557.59	0	3,181.32	0	2,803.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,950.56	1/4	4,616.66	1/4	4,277.31	1/4	3,921.47	1/4	3,549.76	1/4	3,173.45	1/4	2,795.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,945.18	1/2	4,609.77	1/2	4,270.07	1/2	3,913.89	1/2	3,541.92	1/2	3,165.58	1/2	2,787.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,938.51	3/4	4,602.86	3/4	4,262.81	3/4	3,906.28	3/4	3,534.08	3/4	3,157.71	3/4	2,779.88
1		1		1		1	4,931.84	1	4,595.94	1	4,255.55	1	3,898.67	1	3,526.25	1	3,149.84	1	2,772.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,925.16	1/4	4,589.02	1/4	4,248.29	1/4	3,891.06	1/4	3,518.41	1/4	3,141.97	1/4	2,764.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,918.49	1/2	4,582.11	1/2	4,241.02	1/2	3,883.45	1/2	3,510.57	1/2	3,134.10	1/2	2,756.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,910.88	3/4	4,575.16	3/4	4,233.73	3/4	3,875.81	3/4	3,502.74	3/4	3,126.22	3/4	2,748.40
2		2		2		2	4,903.27	2	4,568.21	2	4,226.44	2	3,868.18	2	3,494.90	2	3,118.35	2	2,740.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,895.67	1/4	4,561.26	1/4	4,219.15	1/4	3,860.54	1/4	3,487.06	1/4	3,110.48	1/4	2,732.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,888.06	1/2	4,554.32	1/2	4,211.86	1/2	3,852.91	1/2	3,479.23	1/2	3,102.61	1/2	2,724.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,880.22	3/4	4,547.34	3/4	4,204.55	3/4	3,845.25	3/4	3,471.39	3/4	3,094.74	3/4	2,716.91
3		3		3		3	4,872.39	3	4,540.37	3	4,197.23	3	3,837.59	3	3,463.56	3	3,086.87	3	2,709.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,864.55	1/4	4,533.39	1/4	4,189.91	1/4	3,829.92	1/4	3,455.72	1/4	3,079.00	1/4	2,701.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,856.71	1/2	4,526.42	1/2	4,182.59	1/2	3,822.26	1/2	3,447.88	1/2	3,071.12	1/2	2,693.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,849.31	3/4	4,519.41	3/4	4,175.24	3/4	3,814.57	3/4	3,440.05	3/4	3,063.25	3/4	2,685.43
4		4		4		4	4,841.91	4	4,512.41	4	4,167.89	4	3,806.88	4	3,432.21	4	3,055.38	4	2,677.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,834.51	1/4	4,505.40	1/4	4,160.54	1/4	3,799.19	1/4	3,424.37	1/4	3,047.51	1/4	2,669.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,827.10	1/2	4,498.40	1/2	4,153.20	1/2	3,791.49	1/2	3,416.54	1/2	3,039.64	1/2	2,661.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,820.41	3/4	4,491.36	3/4	4,145.82	3/4	3,783.77	3/4	3,408.70	3/4	3,031.77	3/4	2,653.94
5		5		5		5	4,813.72	5	4,484.33	5	4,138.44	5	3,776.05	5	3,400.86	5	3,023.90	5	2,646.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,807.03	1/4	4,477.30	1/4	4,131.07	1/4	3,768.33	1/4	3,393.03	1/4	3,016.02	1/4	2,638.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,800.34	1/2	4,470.27	1/2	4,123.69	1/2	3,760.61	1/2	3,385.19	1/2	3,008.15	1/2	2,630.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.62	3/4	4,463.20	3/4	4,116.28	3/4	3,752.86	3/4	3,377.35	3/4	3,000.28	3/4	2,622.45
6		6		6		6	4,786.90	6	4,456.14	6	4,108.88	6	3,745.11	6	3,369.52	6	2,992.41	6	2,614.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,780.18	1/4	4,449.08	1/4	4,101.47	1/4	3,737.36	1/4	3,361.68	1/4	2,984.54	1/4	2,606.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,773.47	1/2	4,442.02	1/2	4,094.07	1/2	3,729.61	1/2	3,353.84	1/2	2,976.67	1/2	2,598.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,766.72	3/4	4,434.92	3/4	4,086.63	3/4	3,721.84	3/4	3,346.01	3/4	2,968.80	3/4	2,590.97
7		7		7		7	4,759.97	7	4,427.83	7	4,079.20	7	3,714.06	7	3,338.17	7	2,960.93	7	2,583.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,753.22	1/4	4,420.74	1/4	4,071.76	1/4	3,706.28	1/4	3,330.33	1/4	2,953.05	1/4	2,575.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,746.47	1/2	4,413.65	1/2	4,064.33	1/2	3,698.50	1/2	3,322.50	1/2	2,945.18	1/2	2,567.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,739.69	3/4	4,406.53	3/4	4,056.86	3/4	3,690.70	3/4	3,314.66	3/4	2,937.31	3/4	2,559.48
8		8		8		8	4,732.92	8	4,399.41	8	4,049.40	8	3,682.89	8	3,306.83	8	2,929.44	8	2,551.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,726.14	1/4	4,392.29	1/4	4,041.94	1/4	3,675.08	1/4	3,298.99	1/4	2,921.57	1/4	2,543.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,719.36	1/2	4,385.17	1/2	4,034.47	1/2	3,667.27	1/2	3,291.15	1/2	2,913.70	1/2	2,535.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,712.56	3/4	4,378.02	3/4	4,026.98	3/4	3,659.44	3/4	3,283.32	3/4	2,905.83	3/4	2,528.00
9		9		9		9	4,705.75	9	4,370.87	9	4,019.49	9	3,651.62	9	3,275.48	9	2,897.95	9	2,520.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,698.94	1/4	4,363.72	1/4	4,011.99	1/4	3,643.79	1/4	3,267.64	1/4	2,890.08	1/4	2,512.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,692.13	1/2	4,356.57	1/2	4,004.50	1/2	3,635.96	1/2	3,259.81	1/2	2,882.21	1/2	2,504.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,685.30	3/4	4,349.39	3/4	3,996.98	3/4	3,628.12	3/4	3,251.97	3/4	2,874.34	3/4	2,496.51
10		10		10		10	4,678.46	10	4,342.21	10	3,989.46	10	3,620.29	10	3,244.13	10	2,866.47	10	2,488.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,671.63	1/4	4,335.03	1/4	3,981.93	1/4	3,612.45	1/4	3,236.30	1/4	2,858.60	1/4	2,480.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,664.79	1/2	4,327.85	1/2	3,974.41	1/2	3,604.61	1/2	3,228.46	1/2	2,850.73	1/2	2,472.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,657.93	3/4	4,320.64	3/4	3,966.86	3/4	3,596.78	3/4	3,220.61	3/4	2,842.85	3/4	2,465.03
11		11		11		11	4,651.06	11	4,313.44	11	3,959.31	11	3,588.94	11	3,212.76	11	2,834.98	11	2,457.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,644.20	1/4	4,306.23	1/4	3,951.76	1/4	3,581.10	1/4	3,204.92	1/4	2,827.11	1/4	2,449.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,637.33	1/2	4,299.02	1/2	3,944.21	1/2	3,573.27	1/2	3,197.07	1/2	2,819.24	1/2	2,441.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,630.44	3/4	4,291.78	3/4	3,936.63	3/4	3,565.43	3/4	3,189.20	3/4	2,811.37	3/4	2,433.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29120"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-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	2,425.67	0	2,047.84	0	1,670.02	0	1,293.53	0	916.52	0	538.73	0	189.36	0		0			
1/4	2,417.80	1/4	2,039.97	1/4	1,662.14	1/4	1,285.71	1/4	908.65	1/4	530.87	1/4	182.73	1/4		1/4			1/4
1/2	2,409.93	1/2	2,032.10	1/2	1,654.27	1/2	1,277.89	1/2	900.78	1/2	523.01	1/2	176.10	1/2		1/2			1/2
3/4	2,402.06	3/4	2,024.23	3/4	1,646.40	3/4	1,270.06	3/4	892.91	3/4	515.20	3/4	169.59	3/4		3/4			3/4
1	2,394.18	1	2,016.36	1	1,638.53	1	1,262.24	1	885.04	1	507.38	1	163.07	1		1			1
1 1/4	2,386.31	1 1/4	2,008.49	1 1/4	1,630.66	1 1/4	1,254.42	1 1/4	877.17	1 1/4	499.57	1 1/4	156.56	1 1/4		1 1/4			1 1/4
1 1/2	2,378.44	1 1/2	2,000.61	1 1/2	1,622.79	1 1/2	1,246.60	1 1/2	869.30	1 1/2	491.76	1 1/2	150.04	1 1/2		1 1/2			1 1/2
3/4	2,370.57	3/4	1,992.74	3/4	1,614.92	3/4	1,238.78	3/4	861.43	3/4	484.04	3/4	143.64	3/4		3/4			3/4
2	2,362.70	2	1,984.87	2	1,607.04	2	1,230.95	2	853.55	2	476.32	2	137.24	2		2			2
1 1/4	2,354.83	1 1/4	1,977.00	1 1/4	1,599.17	1 1/4	1,223.13	1 1/4	845.68	1 1/4	468.59	1 1/4	130.84	1 1/4		1 1/4			1 1/4
1 1/2	2,346.96	1 1/2	1,969.13	1 1/2	1,591.30	1 1/2	1,215.31	1 1/2	837.81	1 1/2	460.87	1 1/2	124.44	1 1/2		1 1/2			1 1/2
3/4	2,339.08	3/4	1,961.26	3/4	1,583.43	3/4	1,207.49	3/4	829.94	3/4	453.26	3/4	118.16	3/4		3/4			3/4
3	2,331.21	3	1,953.39	3	1,575.56	3	1,199.67	3	822.07	3	445.65	3	111.88	3		3			3
1 1/4	2,323.34	1 1/4	1,945.51	1 1/4	1,567.69	1 1/4	1,191.84	1 1/4	814.20	1 1/4	438.04	1 1/4	105.61	1 1/4		1 1/4			1 1/4
1 1/2	2,315.47	1 1/2	1,937.64	1 1/2	1,559.82	1 1/2	1,184.02	1 1/2	806.33	1 1/2	430.43	1 1/2	99.33	1 1/2		1 1/2			1 1/2
3/4	2,307.60	3/4	1,929.77	3/4	1,551.96	3/4	1,176.18	3/4	798.46	3/4	422.93	3/4	93.18	3/4		3/4			3/4
4	2,299.73	4	1,921.90	4	1,544.10	4	1,168.34	4	790.59	4	415.42	4	87.03	4		4			4
1 1/4	2,291.86	1 1/4	1,914.03	1 1/4	1,536.24	1 1/4	1,160.50	1 1/4	782.72	1 1/4	407.92	1 1/4	80.88	1 1/4		1 1/4			1 1/4
1 1/2	2,283.98	1 1/2	1,906.16	1 1/2	1,528.38	1 1/2	1,152.66	1 1/2	774.84	1 1/2	400.42	1 1/2	74.73	1 1/2		1 1/2			1 1/2
3/4	2,276.11	3/4	1,898.29	3/4	1,520.53	3/4	1,144.79	3/4	766.97	3/4	393.03	3/4	68.72	3/4		3/4			3/4
5	2,268.24	5	1,890.41	5	1,512.69	5	1,136.91	5	759.10	5	385.63	5	62.71	5		5			5
1 1/4	2,260.37	1 1/4	1,882.54	1 1/4	1,504.85	1 1/4	1,129.04	1 1/4	751.23	1 1/4	378.24	1 1/4	56.70	1 1/4		1 1/4			1 1/4
1 1/2	2,252.50	1 1/2	1,874.67	1 1/2	1,497.01	1 1/2	1,121.17	1 1/2	743.36	1 1/2	370.85	1 1/2	50.70	1 1/2		1 1/2			1 1/2
3/4	2,244.63	3/4	1,866.80	3/4	1,489.17	3/4	1,113.30	3/4	735.49	3/4	363.57	3/4	45.28	3/4		3/4			3/4
6	2,236.76	6	1,858.93	6	1,481.33	6	1,105.43	6	727.62	6	356.28	6	39.86	6		6			6
1 1/4	2,228.88	1 1/4	1,851.06	1 1/4	1,473.50	1 1/4	1,097.56	1 1/4	719.75	1 1/4	349.00	1 1/4	34.45	1 1/4		1 1/4			1 1/4
1 1/2	2,221.01	1 1/2	1,843.19	1 1/2	1,465.66	1 1/2	1,089.69	1 1/2	711.88	1 1/2	341.72	1 1/2	29.03	1 1/2		1 1/2			1 1/2
3/4	2,213.14	3/4	1,835.31	3/4	1,457.83	3/4	1,081.82	3/4	704.00	3/4	334.54	3/4	25.07	3/4		3/4			3/4
7	2,205.27	7	1,827.44	7	1,450.00	7	1,073.95	7	696.13	7	327.37	7	21.11	7		7			7
1 1/4	2,197.40	1 1/4	1,819.57	1 1/4	1,442.17	1 1/4	1,066.07	1 1/4	688.26	1 1/4	320.19	1 1/4	17.15	1 1/4		1 1/4			1 1/4
1 1/2	2,189.53	1 1/2	1,811.70	1 1/2	1,434.34	1 1/2	1,058.20	1 1/2	680.39	1 1/2	313.02	1 1/2	13.18	1 1/2		1 1/2			1 1/2
3/4	2,181.66	3/4	1,803.83	3/4	1,426.52	3/4	1,050.33	3/4	672.52	3/4	305.96	3/4		3/4		3/4			3/4
8	2,173.79	8	1,795.96	8	1,418.69	8	1,042.46	8	664.65	8	298.89	8		8		8			8
1 1/4	2,165.91	1 1/4	1,788.09	1 1/4	1,410.86	1 1/4	1,034.59	1 1/4	656.78	1 1/4	291.83	1 1/4		1 1/4		1 1/4			1 1/4
1 1/2	2,158.04	1 1/2	1,780.22	1 1/2	1,403.04	1 1/2	1,026.72	1 1/2	648.91	1 1/2	284.76	1 1/2		1 1/2		1 1/2			1 1/2
3/4	2,150.17	3/4	1,772.34	3/4	1,395.22	3/4	1,018.85	3/4	641.04	3/4	277.81	3/4		3/4		3/4			3/4
9	2,142.30	9	1,764.47	9	1,387.39	9	1,010.98	9	633.16	9	270.85	9		9		9			9
1 1/4	2,134.43	1 1/4	1,756.60	1 1/4	1,379.57	1 1/4	1,003.11	1 1/4	625.29	1 1/4	263.90	1 1/4		1 1/4		1 1/4			1 1/4
1 1/2	2,126.56	1 1/2	1,748.73	1 1/2	1,371.75	1 1/2	995.23	1 1/2	617.42	1 1/2	256.94	1 1/2		1 1/2		1 1/2			1 1/2
3/4	2,118.69	3/4	1,740.86	3/4	1,363.93	3/4	987.36	3/4	609.55	3/4	250.09	3/4		3/4		3/4			3/4
10	2,110.81	10	1,732.99	10	1,356.11	10	979.49	10	601.68	10	243.25	10		10		10			10
1 1/4	2,102.94	1 1/4	1,725.12	1 1/4	1,348.28	1 1/4	971.62	1 1/4	593.81	1 1/4	236.40	1 1/4		1 1/4		1 1/4			1 1/4
1 1/2	2,095.07	1 1/2	1,717.24	1 1/2	1,340.46	1 1/2	963.75	1 1/2	585.94	1 1/2	229.56	1 1/2		1 1/2		1 1/2			1 1/2
3/4	2,087.20	3/4	1,709.37	3/4	1,332.64	3/4	955.88	3/4	578.07	3/4	222.82	3/4		3/4		3/4			3/4
11	2,079.33	11	1,701.50	11	1,324.82	11	948.01	11	570.20	11	216.08	11		11		11			11
1 1/4	2,071.46	1 1/4	1,693.63	1 1/4	1,317.00	1 1/4	940.14	1 1/4	562.32	1 1/4	209.35	1 1/4		1 1/4		1 1/4			1 1/4
1 1/2	2,063.59	1 1/2	1,685.76	1 1/2	1,309.17	1 1/2	932.27	1 1/2	554.45	1 1/2	202.61	1 1/2		1 1/2		1 1/2			1 1/2
3/4	2,055.71	3/4	1,677.89	3/4	1,301.35	3/4	924.39	3/4	546.59	3/4	195.98	3/4		3/4		3/4			3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL - SW
CALCULATED: 10/16/2014 CL
PRINTED: 10/16/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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



BARGE "KIRBY 29120"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-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	4,957.71	0	4,625.33	0	4,286.32	0	3,930.82	0	3,559.37	0	3,183.08	0	2,805.25
1/4		1/4		1/4		1/4	4,952.34	1/4	4,618.44	1/4	4,279.08	1/4	3,923.24	1/4	3,551.53	1/4	3,175.20	1/4	2,797.38
1/2		1/2		1/2		1/2	4,946.96	1/2	4,611.55	1/2	4,271.85	1/2	3,915.66	1/2	3,543.70	1/2	3,167.33	1/2	2,789.51
3/4		3/4		3/4		3/4	4,940.29	3/4	4,604.63	3/4	4,264.59	3/4	3,908.05	3/4	3,535.86	3/4	3,159.46	3/4	2,781.64
1		1		1		1	4,933.61	1	4,597.72	1	4,257.32	1	3,900.44	1	3,528.02	1	3,151.59	1	2,773.77
1/4		1/4		1/4		1/4	4,926.94	1/4	4,590.80	1/4	4,250.06	1/4	3,892.83	1/4	3,520.19	1/4	3,143.72	1/4	2,765.90
1/2		1/2		1/2		1/2	4,920.27	1/2	4,583.88	1/2	4,242.80	1/2	3,885.22	1/2	3,512.35	1/2	3,135.85	1/2	2,758.03
3/4		3/4		3/4		3/4	4,912.66	3/4	4,576.93	3/4	4,235.51	3/4	3,877.59	3/4	3,504.51	3/4	3,127.98	3/4	2,750.15
2		2		2		2	4,905.05	2	4,569.99	2	4,228.22	2	3,869.95	2	3,496.68	2	3,120.11	2	2,742.28
1/4		1/4		1/4		1/4	4,897.44	1/4	4,563.04	1/4	4,220.93	1/4	3,862.32	1/4	3,488.84	1/4	3,112.23	1/4	2,734.41
1/2		1/2		1/2		1/2	4,889.84	1/2	4,556.09	1/2	4,213.64	1/2	3,854.69	1/2	3,481.00	1/2	3,104.36	1/2	2,726.54
3/4		3/4		3/4		3/4	4,882.00	3/4	4,549.12	3/4	4,206.32	3/4	3,847.02	3/4	3,473.17	3/4	3,096.49	3/4	2,718.67
3		3		3		3	4,874.16	3	4,542.14	3	4,199.00	3	3,839.36	3	3,465.33	3	3,088.62	3	2,710.80
1/4		1/4		1/4		1/4	4,866.33	1/4	4,535.17	1/4	4,191.68	1/4	3,831.70	1/4	3,457.49	1/4	3,080.75	1/4	2,702.93
1/2		1/2		1/2		1/2	4,858.49	1/2	4,528.19	1/2	4,184.36	1/2	3,824.04	1/2	3,449.66	1/2	3,072.88	1/2	2,695.06
3/4		3/4		3/4		3/4	4,851.09	3/4	4,521.19	3/4	4,177.02	3/4	3,816.34	3/4	3,441.82	3/4	3,065.01	3/4	2,687.18
4		4		4		4	4,843.68	4	4,514.18	4	4,169.67	4	3,808.65	4	3,433.99	4	3,057.13	4	2,679.31
1/4		1/4		1/4		1/4	4,836.28	1/4	4,507.18	1/4	4,162.32	1/4	3,800.96	1/4	3,426.15	1/4	3,049.26	1/4	2,671.44
1/2		1/2		1/2		1/2	4,828.88	1/2	4,500.17	1/2	4,154.97	1/2	3,793.27	1/2	3,418.31	1/2	3,041.39	1/2	2,663.57
3/4		3/4		3/4		3/4	4,822.19	3/4	4,493.14	3/4	4,147.60	3/4	3,785.55	3/4	3,410.48	3/4	3,033.52	3/4	2,655.70
5		5		5		5	4,815.50	5	4,486.11	5	4,140.22	5	3,777.83	5	3,402.64	5	3,025.65	5	2,647.83
1/4		1/4		1/4		1/4	4,808.81	1/4	4,479.07	1/4	4,132.84	1/4	3,770.11	1/4	3,394.80	1/4	3,017.78	1/4	2,639.96
1/2		1/2		1/2		1/2	4,802.12	1/2	4,472.04	1/2	4,125.46	1/2	3,762.39	1/2	3,386.97	1/2	3,009.91	1/2	2,632.08
3/4		3/4		3/4		3/4	4,795.40	3/4	4,464.98	3/4	4,118.06	3/4	3,754.64	3/4	3,379.13	3/4	3,002.04	3/4	2,624.21
6		6		6		6	4,788.68	6	4,457.92	6	4,110.65	6	3,746.89	6	3,371.29	6	2,994.16	6	2,616.34
1/4		1/4		1/4		1/4	4,781.96	1/4	4,450.85	1/4	4,103.25	1/4	3,739.14	1/4	3,363.46	1/4	2,986.29	1/4	2,608.47
1/2		1/2		1/2		1/2	4,775.24	1/2	4,443.79	1/2	4,095.84	1/2	3,731.39	1/2	3,355.62	1/2	2,978.42	1/2	2,600.60
3/4		3/4		3/4		3/4	4,768.49	3/4	4,436.70	3/4	4,088.41	3/4	3,723.61	3/4	3,347.78	3/4	2,970.55	3/4	2,592.73
7		7		7		7	4,761.74	7	4,429.61	7	4,080.97	7	3,715.83	7	3,339.95	7	2,962.68	7	2,584.86
1/4		1/4		1/4		1/4	4,755.00	1/4	4,422.52	1/4	4,073.54	1/4	3,708.06	1/4	3,332.11	1/4	2,954.81	1/4	2,576.99
1/2		1/2		1/2		1/2	4,748.25	1/2	4,415.43	1/2	4,066.10	1/2	3,700.28	1/2	3,324.27	1/2	2,946.94	1/2	2,569.11
3/4		3/4		3/4		3/4	4,741.47	3/4	4,408.31	3/4	4,058.64	3/4	3,692.47	3/4	3,316.44	3/4	2,939.07	3/4	2,561.24
8		8		8		8	4,734.69	8	4,401.18	8	4,051.18	8	3,684.66	8	3,308.60	8	2,931.19	8	2,553.37
1/4		1/4		1/4		1/4	4,727.92	1/4	4,394.06	1/4	4,043.71	1/4	3,676.86	1/4	3,300.76	1/4	2,923.32	1/4	2,545.50
1/2		1/2		1/2		1/2	4,721.14	1/2	4,386.94	1/2	4,036.25	1/2	3,669.05	1/2	3,292.93	1/2	2,915.45	1/2	2,537.63
3/4		3/4		3/4		3/4	4,714.33	3/4	4,379.79	3/4	4,028.76	3/4	3,661.22	3/4	3,285.09	3/4	2,907.58	3/4	2,529.76
9		9		9		9	4,707.52	9	4,372.64	9	4,021.26	9	3,653.39	9	3,277.26	9	2,899.71	9	2,521.89
1/4		1/4		1/4		1/4	4,700.72	1/4	4,365.49	1/4	4,013.77	1/4	3,645.56	1/4	3,269.42	1/4	2,891.84	1/4	2,514.02
1/2		1/2		1/2		1/2	4,693.91	1/2	4,358.35	1/2	4,006.28	1/2	3,637.73	1/2	3,261.58	1/2	2,883.97	1/2	2,506.14
3/4		3/4		3/4		3/4	4,687.08	3/4	4,351.17	3/4	3,998.75	3/4	3,629.90	3/4	3,253.75	3/4	2,876.10	3/4	2,498.27
10		10		10		10	4,680.24	10	4,343.99	10	3,991.23	10	3,622.06	10	3,245.91	10	2,868.22	10	2,490.40
1/4		1/4		1/4		1/4	4,673.41	1/4	4,336.81	1/4	3,983.71	1/4	3,614.22	1/4	3,238.07	1/4	2,860.35	1/4	2,482.53
1/2		1/2		1/2		1/2	4,666.57	1/2	4,329.63	1/2	3,976.19	1/2	3,606.39	1/2	3,230.24	1/2	2,852.48	1/2	2,474.66
3/4		3/4		3/4		3/4	4,659.70	3/4	4,322.42	3/4	3,968.64	3/4	3,598.55	3/4	3,222.38	3/4	2,844.61	3/4	2,466.79
11		11		11		11	4,652.84	11	4,315.21	11	3,961.09	11	3,590.72	11	3,214.53	11	2,836.74	11	2,458.92
1/4		1/4		1/4		1/4	4,645.97	1/4	4,308.01	1/4	3,953.53	1/4	3,582.88	1/4	3,206.67	1/4	2,828.87	1/4	2,451.04
1/2		1/2		1/2		1/2	4,639.11	1/2	4,300.80	1/2	3,945.98	1/2	3,575.04	1/2	3,198.82	1/2	2,821.00	1/2	2,443.17
3/4		3/4		3/4		3/4	4,632.22	3/4	4,293.56	3/4	3,938.40	3/4	3,567.21	3/4	3,190.95	3/4	2,813.12	3/4	2,435.30

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-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 29120"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,427.43	0	2,049.61	0	1,671.79	0	1,293.96	0	916.42	0	536.73	0	189.36	0		0		0	
1/4	2,419.56	1/4	2,041.74	1/4	1,663.91	1/4	1,286.09	1/4	908.57	1/4	530.87	1/4	182.73	1/4		1/4		1/4	
1/2	2,411.69	1/2	2,033.87	1/2	1,656.04	1/2	1,278.22	1/2	900.71	1/2	525.01	1/2	176.10	1/2		1/2		1/2	
3/4	2,403.82	3/4	2,025.99	3/4	1,648.17	3/4	1,270.35	3/4	892.85	3/4	519.25	3/4	169.59	3/4		3/4		3/4	
1	2,395.95	1	2,018.12	1	1,640.30	1	1,262.48	1	884.99	1	507.38	1	163.07	1		1		1	
1/4	2,388.07	1/4	2,010.25	1/4	1,632.43	1/4	1,254.61	1/4	877.13	1/4	499.57	1/4	156.56	1/4		1/4		1/4	
1/2	2,380.20	1/2	2,002.38	1/2	1,624.56	1/2	1,246.74	1/2	869.27	1/2	491.76	1/2	150.04	1/2		1/2		1/2	
3/4	2,372.33	3/4	1,994.51	3/4	1,616.69	3/4	1,238.86	3/4	861.41	3/4	484.04	3/4	143.64	3/4		3/4		3/4	
2	2,364.46	2	1,986.64	2	1,608.82	2	1,230.99	2	853.54	2	476.32	2	137.24	2		2		2	
1/4	2,356.59	1/4	1,978.77	1/4	1,600.94	1/4	1,223.12	1/4	845.68	1/4	468.59	1/4	130.84	1/4		1/4		1/4	
1/2	2,348.72	1/2	1,970.90	1/2	1,593.07	1/2	1,215.25	1/2	837.81	1/2	460.87	1/2	124.44	1/2		1/2		1/2	
3/4	2,340.85	3/4	1,963.02	3/4	1,585.20	3/4	1,207.38	3/4	829.94	3/4	453.26	3/4	118.16	3/4		3/4		3/4	
3	2,332.98	3	1,955.15	3	1,577.33	3	1,199.51	3	822.07	3	445.65	3	111.88	3		3		3	
1/4	2,325.10	1/4	1,947.28	1/4	1,569.46	1/4	1,191.64	1/4	814.20	1/4	438.04	1/4	105.61	1/4		1/4		1/4	
1/2	2,317.23	1/2	1,939.41	1/2	1,561.59	1/2	1,183.77	1/2	806.33	1/2	430.43	1/2	99.33	1/2		1/2		1/2	
3/4	2,309.36	3/4	1,931.54	3/4	1,553.72	3/4	1,175.89	3/4	798.46	3/4	422.93	3/4	93.18	3/4		3/4		3/4	
4	2,301.49	4	1,923.67	4	1,545.85	4	1,168.02	4	790.59	4	415.42	4	87.03	4		4		4	
1/4	2,293.62	1/4	1,915.80	1/4	1,537.97	1/4	1,160.15	1/4	782.72	1/4	407.92	1/4	80.88	1/4		1/4		1/4	
1/2	2,285.75	1/2	1,907.93	1/2	1,530.10	1/2	1,152.28	1/2	774.84	1/2	400.42	1/2	74.73	1/2		1/2		1/2	
3/4	2,277.88	3/4	1,900.05	3/4	1,522.23	3/4	1,144.41	3/4	766.97	3/4	393.03	3/4	68.72	3/4		3/4		3/4	
5	2,270.00	5	1,892.18	5	1,514.36	5	1,136.54	5	759.10	5	385.63	5	62.71	5		5		5	
1/4	2,262.13	1/4	1,884.31	1/4	1,506.49	1/4	1,128.67	1/4	751.23	1/4	378.24	1/4	56.70	1/4		1/4		1/4	
1/2	2,254.26	1/2	1,876.44	1/2	1,498.62	1/2	1,120.80	1/2	743.36	1/2	370.85	1/2	50.70	1/2		1/2		1/2	
3/4	2,246.39	3/4	1,868.57	3/4	1,490.75	3/4	1,112.93	3/4	735.49	3/4	363.57	3/4	45.28	3/4		3/4		3/4	
6	2,238.52	6	1,860.70	6	1,482.87	6	1,105.06	6	727.62	6	356.28	6	39.86	6		6		6	
1/4	2,230.65	1/4	1,852.83	1/4	1,475.00	1/4	1,097.20	1/4	719.75	1/4	349.00	1/4	34.45	1/4		1/4		1/4	
1/2	2,222.78	1/2	1,844.95	1/2	1,467.13	1/2	1,089.33	1/2	711.88	1/2	341.72	1/2	29.03	1/2		1/2		1/2	
3/4	2,214.91	3/4	1,837.08	3/4	1,459.26	3/4	1,081.47	3/4	704.00	3/4	334.54	3/4	25.07	3/4		3/4		3/4	
7	2,207.03	7	1,829.21	7	1,451.39	7	1,073.61	7	696.13	7	327.37	7	21.11	7		7		7	
1/4	2,199.16	1/4	1,821.34	1/4	1,443.52	1/4	1,065.75	1/4	688.26	1/4	320.19	1/4	17.15	1/4		1/4		1/4	
1/2	2,191.29	1/2	1,813.47	1/2	1,435.65	1/2	1,057.89	1/2	680.39	1/2	313.02	1/2	13.18	1/2		1/2		1/2	
3/4	2,183.42	3/4	1,805.60	3/4	1,427.78	3/4	1,050.03	3/4	672.52	3/4	305.96	3/4		3/4		3/4		3/4	
8	2,175.55	8	1,797.73	8	1,419.90	8	1,042.17	8	664.65	8	298.89	8		8		8		8	
1/4	2,167.68	1/4	1,789.86	1/4	1,412.03	1/4	1,034.31	1/4	656.78	1/4	291.83	1/4		1/4		1/4		1/4	
1/2	2,159.81	1/2	1,781.98	1/2	1,404.16	1/2	1,026.46	1/2	648.91	1/2	284.76	1/2		1/2		1/2		1/2	
3/4	2,151.94	3/4	1,774.11	3/4	1,396.29	3/4	1,018.60	3/4	641.04	3/4	277.81	3/4		3/4		3/4		3/4	
9	2,144.06	9	1,766.24	9	1,388.42	9	1,010.74	9	633.16	9	270.85	9		9		9		9	
1/4	2,136.19	1/4	1,758.37	1/4	1,380.55	1/4	1,002.88	1/4	625.29	1/4	263.90	1/4		1/4		1/4		1/4	
1/2	2,128.32	1/2	1,750.50	1/2	1,372.68	1/2	995.02	1/2	617.42	1/2	256.94	1/2		1/2		1/2		1/2	
3/4	2,120.45	3/4	1,742.63	3/4	1,364.81	3/4	987.16	3/4	609.55	3/4	250.09	3/4		3/4		3/4		3/4	
10	2,112.58	10	1,734.76	10	1,356.93	10	979.30	10	601.68	10	243.25	10		10		10		10	
1/4	2,104.71	1/4	1,726.89	1/4	1,349.06	1/4	971.44	1/4	593.81	1/4	236.40	1/4		1/4		1/4		1/4	
1/2	2,096.84	1/2	1,719.01	1/2	1,341.19	1/2	963.58	1/2	585.94	1/2	229.56	1/2		1/2		1/2		1/2	
3/4	2,088.97	3/4	1,711.14	3/4	1,333.32	3/4	955.72	3/4	578.07	3/4	222.82	3/4		3/4		3/4		3/4	
11	2,081.09	11	1,703.27	11	1,325.45	11	947.86	11	570.20	11	216.08	11		11		11		11	
1/4	2,073.22	1/4	1,695.40	1/4	1,317.58	1/4	940.00	1/4	562.32	1/4	209.35	1/4		1/4		1/4		1/4	
1/2	2,065.35	1/2	1,687.53	1/2	1,309.71	1/2	932.14	1/2	554.45	1/2	202.61	1/2		1/2		1/2		1/2	
3/4	2,057.48	3/4	1,679.66	3/4	1,301.84	3/4	924.28	3/4	546.59	3/4	195.98	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/16/2014 CL - SW
CALCULATED: 10/16/2014 CL
PRINTED: 10/16/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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



BARGE "KIRBY 29120"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-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	0	0	0	4,767.27	0	4,450.16	0	4,126.62	0	3,787.94	0	3,434.63	0	3,076.88	0	2,717.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,762.16	1/4	4,443.58	1/4	4,119.72	1/4	3,780.72	1/4	3,427.18	1/4	3,069.39	1/4	2,710.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,757.05	1/2	4,437.00	1/2	4,112.81	1/2	3,773.51	1/2	3,419.73	1/2	3,061.91	1/2	2,702.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,750.70	3/4	4,430.39	3/4	4,105.89	3/4	3,766.27	3/4	3,412.27	3/4	3,054.43	3/4	2,695.26
1	1	1	1	1	1	1	4,744.36	1	4,423.79	1	4,098.97	1	3,759.02	1	3,404.82	1	3,046.94	1	2,687.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,738.02	1/4	4,417.18	1/4	4,092.04	1/4	3,751.78	1/4	3,397.37	1/4	3,039.46	1/4	2,680.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,731.67	1/2	4,410.57	1/2	4,085.12	1/2	3,744.54	1/2	3,389.92	1/2	3,031.98	1/2	2,672.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,724.44	3/4	4,403.94	3/4	4,078.17	3/4	3,737.27	3/4	3,382.47	3/4	3,024.50	3/4	2,665.33
2	2	2	2	2	2	2	4,717.21	2	4,397.30	2	4,071.22	2	3,730.01	2	3,375.02	2	3,017.01	2	2,657.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,709.98	1/4	4,390.67	1/4	4,064.27	1/4	3,722.74	1/4	3,367.57	1/4	3,009.53	1/4	2,650.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,702.75	1/2	4,384.03	1/2	4,057.33	1/2	3,715.48	1/2	3,360.12	1/2	3,002.05	1/2	2,642.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,695.30	3/4	4,377.37	3/4	4,050.35	3/4	3,708.19	3/4	3,352.67	3/4	2,994.57	3/4	2,635.40
3	3	3	3	3	3	3	4,687.85	3	4,370.71	3	4,043.37	3	3,700.90	3	3,345.22	3	2,987.08	3	2,627.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,680.40	1/4	4,364.05	1/4	4,036.40	1/4	3,693.61	1/4	3,337.77	1/4	2,979.60	1/4	2,620.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,672.95	1/2	4,357.39	1/2	4,029.42	1/2	3,686.31	1/2	3,330.32	1/2	2,972.12	1/2	2,612.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,665.90	3/4	4,350.71	3/4	4,022.42	3/4	3,679.00	3/4	3,322.87	3/4	2,964.63	3/4	2,605.47
4	4	4	4	4	4	4	4,658.94	4	4,344.02	4	4,015.42	4	3,671.68	4	3,315.42	4	2,957.15	4	2,597.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,651.79	1/4	4,337.33	1/4	4,008.41	1/4	3,664.36	1/4	3,307.97	1/4	2,949.67	1/4	2,590.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,644.74	1/2	4,330.64	1/2	4,001.41	1/2	3,657.04	1/2	3,300.52	1/2	2,942.19	1/2	2,583.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,638.34	3/4	4,323.93	3/4	3,994.38	3/4	3,649.70	3/4	3,293.07	3/4	2,934.70	3/4	2,575.53
5	5	5	5	5	5	5	4,631.94	5	4,317.22	5	3,987.35	5	3,642.36	5	3,285.61	5	2,927.22	5	2,568.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,625.54	1/4	4,310.50	1/4	3,980.33	1/4	3,635.01	1/4	3,278.16	1/4	2,919.74	1/4	2,560.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,619.14	1/2	4,303.79	1/2	3,973.30	1/2	3,627.67	1/2	3,270.71	1/2	2,912.26	1/2	2,553.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,612.72	3/4	4,297.05	3/4	3,966.24	3/4	3,620.30	3/4	3,263.26	3/4	2,904.77	3/4	2,545.60
6	6	6	6	6	6	6	4,606.29	6	4,290.31	6	3,959.19	6	3,612.93	6	3,255.81	6	2,897.29	6	2,538.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.87	1/4	4,283.57	1/4	3,952.13	1/4	3,605.56	1/4	3,248.36	1/4	2,889.81	1/4	2,530.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,593.44	1/2	4,276.83	1/2	3,945.08	1/2	3,598.18	1/2	3,240.91	1/2	2,882.32	1/2	2,523.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,586.99	3/4	4,270.06	3/4	3,937.99	3/4	3,590.79	3/4	3,233.46	3/4	2,874.84	3/4	2,515.67
7	7	7	7	7	7	7	4,580.54	7	4,263.29	7	3,930.91	7	3,583.39	7	3,226.01	7	2,867.36	7	2,508.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,574.08	1/4	4,256.53	1/4	3,923.83	1/4	3,575.99	1/4	3,218.56	1/4	2,859.88	1/4	2,500.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,567.63	1/2	4,249.76	1/2	3,916.75	1/2	3,568.60	1/2	3,211.11	1/2	2,852.39	1/2	2,493.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,561.15	3/4	4,242.97	3/4	3,909.64	3/4	3,561.17	3/4	3,203.66	3/4	2,844.91	3/4	2,485.74
8	8	8	8	8	8	8	4,554.67	8	4,236.17	8	3,902.53	8	3,553.75	8	3,196.21	8	2,837.43	8	2,478.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,548.20	1/4	4,229.38	1/4	3,895.42	1/4	3,546.33	1/4	3,188.76	1/4	2,829.95	1/4	2,470.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,541.72	1/2	4,222.58	1/2	3,888.31	1/2	3,538.90	1/2	3,181.31	1/2	2,822.46	1/2	2,463.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,535.21	3/4	4,215.76	3/4	3,881.18	3/4	3,531.46	3/4	3,173.86	3/4	2,814.98	3/4	2,455.81
9	9	9	9	9	9	9	4,528.70	9	4,208.94	9	3,874.04	9	3,524.02	9	3,166.40	9	2,807.50	9	2,448.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,522.20	1/4	4,202.12	1/4	3,866.91	1/4	3,516.57	1/4	3,158.95	1/4	2,800.02	1/4	2,440.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,515.69	1/2	4,195.30	1/2	3,859.77	1/2	3,509.13	1/2	3,151.50	1/2	2,792.53	1/2	2,433.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,509.16	3/4	4,188.46	3/4	3,852.61	3/4	3,501.68	3/4	3,144.05	3/4	2,785.05	3/4	2,425.88
10	10	10	10	10	10	10	4,502.63	10	4,181.61	10	3,845.45	10	3,494.23	10	3,136.60	10	2,777.57	10	2,418.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,496.10	1/4	4,174.76	1/4	3,838.29	1/4	3,486.78	1/4	3,129.15	1/4	2,770.08	1/4	2,410.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,489.57	1/2	4,167.91	1/2	3,831.13	1/2	3,479.33	1/2	3,121.70	1/2	2,762.60	1/2	2,403.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,483.01	3/4	4,161.04	3/4	3,823.94	3/4	3,471.88	3/4	3,114.24	3/4	2,755.12	3/4	2,395.95
11	11	11	11	11	11	11	4,476.45	11	4,154.17	11	3,816.75	11	3,464.43	11	3,106.77	11	2,747.64	11	2,388.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,469.89	1/4	4,147.29	1/4	3,809.56	1/4	3,456.98	1/4	3,099.31	1/4	2,740.15	1/4	2,380.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,463.33	1/2	4,140.42	1/2	3,802.37	1/2	3,449.53	1/2	3,091.84	1/2	2,732.67	1/2	2,373.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,456.74	3/4	4,133.52	3/4	3,795.15	3/4	3,442.08	3/4	3,084.36	3/4	2,725.19	3/4	2,366.02

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-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 29120"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-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	2,358.54	0	1,999.37	0	1,640.20	0	1,289.94	0	945.00	0	587.20	0	228.04	0		0		0	
1/4	2,351.05	1/4	1,991.88	1/4	1,632.71	1/4	1,282.74	1/4	937.82	1/4	579.72	1/4	220.56	1/4	1/4	1/4		1/4	
1/2	2,343.57	1/2	1,984.40	1/2	1,625.23	1/2	1,275.54	1/2	930.64	1/2	572.24	1/2	213.08	1/2	1/2	1/2		1/2	
3/4	2,336.09	3/4	1,976.92	3/4	1,617.75	3/4	1,268.34	3/4	923.35	3/4	564.75	3/4	205.60	3/4	3/4	3/4		3/4	
1	2,328.61	1	1,969.44	1	1,610.27	1	1,261.14	1	916.05	1	557.27	1	198.12	1	1	1		1	
1/4	2,321.12	1/4	1,961.95	1/4	1,602.78	1/4	1,253.94	1/4	908.76	1/4	549.79	1/4	190.64	1/4	1/4	1/4		1/4	
1/2	2,313.64	1/2	1,954.47	1/2	1,595.30	1/2	1,246.74	1/2	901.47	1/2	542.31	1/2	183.15	1/2	1/2	1/2		1/2	
3/4	2,306.16	3/4	1,946.99	3/4	1,587.82	3/4	1,239.54	3/4	893.98	3/4	534.82	3/4	175.68	3/4	3/4	3/4		3/4	
2	2,298.67	2	1,939.50	2	1,580.34	2	1,232.34	2	886.50	2	527.34	2	168.21	2	2	2		2	
1/4	2,291.19	1/4	1,932.02	1/4	1,572.85	1/4	1,225.14	1/4	879.02	1/4	519.86	1/4	160.73	1/4	1/4	1/4		1/4	
1/2	2,283.71	1/2	1,924.54	1/2	1,565.37	1/2	1,217.94	1/2	871.54	1/2	512.38	1/2	153.26	1/2	1/2	1/2		1/2	
3/4	2,276.23	3/4	1,917.06	3/4	1,557.89	3/4	1,210.75	3/4	864.05	3/4	504.89	3/4	145.80	3/4	3/4	3/4		3/4	
3	2,268.74	3	1,909.57	3	1,550.40	3	1,203.55	3	856.57	3	497.41	3	138.33	3	3	3		3	
1/4	2,261.26	1/4	1,902.09	1/4	1,542.92	1/4	1,196.36	1/4	849.09	1/4	489.93	1/4	130.87	1/4	1/4	1/4		1/4	
1/2	2,253.78	1/2	1,894.61	1/2	1,535.44	1/2	1,189.16	1/2	841.61	1/2	482.45	1/2	123.41	1/2	1/2	1/2		1/2	
3/4	2,246.30	3/4	1,887.13	3/4	1,528.06	3/4	1,181.98	3/4	834.12	3/4	474.96	3/4	115.96	3/4	3/4	3/4		3/4	
4	2,238.81	4	1,879.64	4	1,520.68	4	1,174.79	4	826.64	4	467.48	4	108.52	4	4	4		4	
1/4	2,231.33	1/4	1,872.16	1/4	1,513.31	1/4	1,167.60	1/4	819.16	1/4	460.00	1/4	101.07	1/4	1/4	1/4		1/4	
1/2	2,223.85	1/2	1,864.68	1/2	1,505.93	1/2	1,160.41	1/2	811.68	1/2	452.52	1/2	93.63	1/2	1/2	1/2		1/2	
3/4	2,216.36	3/4	1,857.20	3/4	1,498.73	3/4	1,153.23	3/4	804.19	3/4	445.03	3/4	86.21	3/4	3/4	3/4		3/4	
5	2,208.88	5	1,849.71	5	1,491.53	5	1,146.05	5	796.71	5	437.55	5	78.80	5	5	5		5	
1/4	2,201.40	1/4	1,842.23	1/4	1,484.33	1/4	1,138.86	1/4	789.23	1/4	430.07	1/4	71.39	1/4	1/4	1/4		1/4	
1/2	2,193.92	1/2	1,834.75	1/2	1,477.13	1/2	1,131.68	1/2	781.75	1/2	422.59	1/2	63.97	1/2	1/2	1/2		1/2	
3/4	2,186.43	3/4	1,827.26	3/4	1,469.93	3/4	1,124.50	3/4	774.26	3/4	415.10	3/4	57.02	3/4	3/4	3/4		3/4	
6	2,178.95	6	1,819.78	6	1,462.73	6	1,117.32	6	766.78	6	407.62	6	50.07	6	6	6		6	
1/4	2,171.47	1/4	1,812.30	1/4	1,455.53	1/4	1,110.14	1/4	759.30	1/4	400.14	1/4	43.11	1/4	1/4	1/4		1/4	
1/2	2,163.99	1/2	1,804.82	1/2	1,448.33	1/2	1,102.96	1/2	751.82	1/2	392.66	1/2	36.16	1/2	1/2	1/2		1/2	
3/4	2,156.50	3/4	1,797.33	3/4	1,441.13	3/4	1,095.78	3/4	744.33	3/4	385.17	3/4	30.86	3/4	3/4	3/4		3/4	
7	2,149.02	7	1,789.85	7	1,433.93	7	1,088.60	7	736.85	7	377.69	7	25.56	7	7	7		7	
1/4	2,141.54	1/4	1,782.37	1/4	1,426.73	1/4	1,081.42	1/4	729.37	1/4	370.21	1/4	20.26	1/4	1/4	1/4		1/4	
1/2	2,134.05	1/2	1,774.89	1/2	1,419.53	1/2	1,074.24	1/2	721.89	1/2	362.73	1/2	14.97	1/2	1/2	1/2		1/2	
3/4	2,126.57	3/4	1,767.40	3/4	1,412.33	3/4	1,067.06	3/4	714.40	3/4	355.24	3/4		3/4	3/4	3/4		3/4	
8	2,119.09	8	1,759.92	8	1,405.14	8	1,059.88	8	706.92	8	347.76	8		8	8	8		8	
1/4	2,111.61	1/4	1,752.44	1/4	1,397.94	1/4	1,052.70	1/4	699.44	1/4	340.28	1/4		1/4	1/4	1/4		1/4	
1/2	2,104.12	1/2	1,744.95	1/2	1,390.74	1/2	1,045.52	1/2	691.96	1/2	332.80	1/2		1/2	1/2	1/2		1/2	
3/4	2,096.64	3/4	1,737.47	3/4	1,383.54	3/4	1,038.34	3/4	684.47	3/4	325.31	3/4		3/4	3/4	3/4		3/4	
9	2,089.16	9	1,729.99	9	1,376.34	9	1,031.16	9	676.99	9	317.83	9		9	9	9		9	
1/4	2,081.68	1/4	1,722.51	1/4	1,369.14	1/4	1,023.98	1/4	669.51	1/4	310.35	1/4		1/4	1/4	1/4		1/4	
1/2	2,074.19	1/2	1,715.02	1/2	1,361.94	1/2	1,016.80	1/2	662.03	1/2	302.87	1/2		1/2	1/2	1/2		1/2	
3/4	2,066.71	3/4	1,707.54	3/4	1,354.74	3/4	1,009.62	3/4	654.54	3/4	295.38	3/4		3/4	3/4	3/4		3/4	
10	2,059.23	10	1,700.06	10	1,347.54	10	1,002.44	10	647.06	10	287.90	10		10	10	10		10	
1/4	2,051.75	1/4	1,692.58	1/4	1,340.34	1/4	995.26	1/4	639.58	1/4	280.42	1/4		1/4	1/4	1/4		1/4	
1/2	2,044.26	1/2	1,685.09	1/2	1,333.14	1/2	988.08	1/2	632.10	1/2	272.94	1/2		1/2	1/2	1/2		1/2	
3/4	2,036.78	3/4	1,677.61	3/4	1,325.94	3/4	980.90	3/4	624.61	3/4	265.45	3/4		3/4	3/4	3/4		3/4	
11	2,029.30	11	1,670.13	11	1,318.74	11	973.72	11	617.13	11	257.97	11		11	11	11		11	
1/4	2,021.81	1/4	1,662.64	1/4	1,311.54	1/4	966.54	1/4	609.65	1/4	250.49	1/4		1/4	1/4	1/4		1/4	
1/2	2,014.33	1/2	1,655.16	1/2	1,304.34	1/2	959.36	1/2	602.17	1/2	243.01	1/2		1/2	1/2	1/2		1/2	
3/4	2,006.85	3/4	1,647.68	3/4	1,297.14	3/4	952.18	3/4	594.68	3/4	235.52	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 10/16/2014 CL - SW
CALCULATED: 10/16/2014 CL
PRINTED: 10/16/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

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 29120"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-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	4,479.79	0	4,156.64	0	3,818.36	0	3,465.37	0	3,107.76	0	2,748.67		
1/4	1/4	1/4		1/4		1/4	4,790.24	1/4	4,473.21	1/4	4,149.74	1/4	3,811.14	1/4	3,457.92	1/4	3,100.28	1/4	2,741.19
1/2	1/2	1/2		1/2		1/2	4,785.13	1/2	4,466.63	1/2	4,142.84	1/2	3,803.93	1/2	3,450.47	1/2	3,092.79	1/2	2,733.71
3/4	3/4	3/4		3/4		3/4	4,780.02	3/4	4,460.05	3/4	4,135.94	3/4	3,796.72	3/4	3,443.02	3/4	3,085.31	3/4	2,726.22
1	1	1		1		1	4,773.68	1	4,453.44	1	4,129.02	1	3,789.48	1	3,435.57	1	3,077.83	1	2,718.74
1/4	1/4	1/4		1/4		1/4	4,767.34	1/4	4,446.84	1/4	4,122.10	1/4	3,782.24	1/4	3,428.12	1/4	3,070.35	1/4	2,711.26
1/2	1/2	1/2		1/2		1/2	4,760.99	1/2	4,440.23	1/2	4,115.18	1/2	3,774.99	1/2	3,420.67	1/2	3,062.87	1/2	2,703.78
3/4	3/4	3/4		3/4		3/4	4,754.65	3/4	4,433.63	3/4	4,108.26	3/4	3,767.75	3/4	3,413.22	3/4	3,055.39	3/4	2,696.30
2	2	2		2		2	4,747.42	2	4,426.99	2	4,101.31	2	3,760.49	2	3,405.78	2	3,047.91	2	2,688.82
1/4	1/4	1/4		1/4		1/4	4,740.19	1/4	4,420.36	1/4	4,094.36	1/4	3,753.23	1/4	3,398.33	1/4	3,040.43	1/4	2,681.34
1/2	1/2	1/2		1/2		1/2	4,732.97	1/2	4,413.73	1/2	4,087.41	1/2	3,745.96	1/2	3,390.88	1/2	3,032.95	1/2	2,673.86
3/4	3/4	3/4		3/4		3/4	4,725.74	3/4	4,407.10	3/4	4,080.47	3/4	3,738.70	3/4	3,383.43	3/4	3,025.46	3/4	2,666.38
3	3	3		3		3	4,718.29	3	4,400.44	3	4,073.49	3	3,731.41	3	3,375.98	3	3,017.98	3	2,658.90
1/4	1/4	1/4		1/4		1/4	4,710.84	1/4	4,393.78	1/4	4,066.52	1/4	3,724.12	1/4	3,368.53	1/4	3,010.50	1/4	2,651.41
1/2	1/2	1/2		1/2		1/2	4,703.39	1/2	4,387.12	1/2	4,059.54	1/2	3,716.83	1/2	3,361.08	1/2	3,003.02	1/2	2,643.93
3/4	3/4	3/4		3/4		3/4	4,695.94	3/4	4,380.46	3/4	4,052.57	3/4	3,709.54	3/4	3,353.63	3/4	2,995.54	3/4	2,636.45
4	4	4		4		4	4,688.89	4	4,373.78	4	4,045.57	4	3,702.23	4	3,346.18	4	2,988.06	4	2,628.97
1/4	1/4	1/4		1/4		1/4	4,681.84	1/4	4,367.09	1/4	4,038.57	1/4	3,694.91	1/4	3,338.74	1/4	2,980.58	1/4	2,621.49
1/2	1/2	1/2		1/2		1/2	4,674.79	1/2	4,360.40	1/2	4,031.57	1/2	3,687.60	1/2	3,331.29	1/2	2,973.10	1/2	2,614.01
3/4	3/4	3/4		3/4		3/4	4,667.74	3/4	4,353.72	3/4	4,024.57	3/4	3,680.28	3/4	3,323.84	3/4	2,965.62	3/4	2,606.53
5	5	5		5		5	4,661.34	5	4,347.01	5	4,017.54	5	3,672.94	5	3,316.39	5	2,958.14	5	2,599.05
1/4	1/4	1/4		1/4		1/4	4,654.94	1/4	4,340.29	1/4	4,010.51	1/4	3,665.60	1/4	3,308.94	1/4	2,950.65	1/4	2,591.57
1/2	1/2	1/2		1/2		1/2	4,648.54	1/2	4,333.58	1/2	4,003.48	1/2	3,658.25	1/2	3,301.49	1/2	2,943.17	1/2	2,584.09
3/4	3/4	3/4		3/4		3/4	4,642.15	3/4	4,326.87	3/4	3,996.46	3/4	3,650.91	3/4	3,294.04	3/4	2,935.69	3/4	2,576.60
6	6	6		6		6	4,635.72	6	4,320.13	6	3,989.40	6	3,643.54	6	3,286.59	6	2,928.21	6	2,569.12
1/4	1/4	1/4		1/4		1/4	4,629.30	1/4	4,313.39	1/4	3,982.35	1/4	3,636.17	1/4	3,279.15	1/4	2,920.73	1/4	2,561.64
1/2	1/2	1/2		1/2		1/2	4,622.88	1/2	4,306.65	1/2	3,975.30	1/2	3,628.81	1/2	3,271.70	1/2	2,913.25	1/2	2,554.16
3/4	3/4	3/4		3/4		3/4	4,616.45	3/4	4,299.92	3/4	3,968.24	3/4	3,621.44	3/4	3,264.25	3/4	2,905.77	3/4	2,546.68
7	7	7		7		7	4,610.00	7	4,293.15	7	3,961.16	7	3,614.04	7	3,256.80	7	2,898.29	7	2,539.20
1/4	1/4	1/4		1/4		1/4	4,603.55	1/4	4,286.38	1/4	3,954.08	1/4	3,606.65	1/4	3,249.35	1/4	2,890.81	1/4	2,531.72
1/2	1/2	1/2		1/2		1/2	4,597.10	1/2	4,279.62	1/2	3,947.00	1/2	3,599.25	1/2	3,241.90	1/2	2,883.33	1/2	2,524.24
3/4	3/4	3/4		3/4		3/4	4,590.65	3/4	4,272.85	3/4	3,939.92	3/4	3,591.86	3/4	3,234.45	3/4	2,875.84	3/4	2,516.76
8	8	8		8		8	4,584.17	8	4,266.06	8	3,932.82	8	3,584.43	8	3,227.00	8	2,868.36	8	2,509.28
1/4	1/4	1/4		1/4		1/4	4,577.69	1/4	4,259.27	1/4	3,925.71	1/4	3,577.01	1/4	3,219.56	1/4	2,860.88	1/4	2,501.79
1/2	1/2	1/2		1/2		1/2	4,571.22	1/2	4,252.48	1/2	3,918.60	1/2	3,569.59	1/2	3,212.11	1/2	2,853.40	1/2	2,494.31
3/4	3/4	3/4		3/4		3/4	4,564.74	3/4	4,245.68	3/4	3,911.50	3/4	3,562.17	3/4	3,204.66	3/4	2,845.92	3/4	2,486.83
9	9	9		9		9	4,558.24	9	4,238.87	9	3,904.36	9	3,554.73	9	3,197.21	9	2,838.44	9	2,479.35
1/4	1/4	1/4		1/4		1/4	4,551.73	1/4	4,232.05	1/4	3,897.23	1/4	3,547.29	1/4	3,189.76	1/4	2,830.96	1/4	2,471.87
1/2	1/2	1/2		1/2		1/2	4,545.23	1/2	4,225.23	1/2	3,890.09	1/2	3,539.85	1/2	3,182.31	1/2	2,823.48	1/2	2,464.39
3/4	3/4	3/4		3/4		3/4	4,538.72	3/4	4,218.41	3/4	3,882.96	3/4	3,532.40	3/4	3,174.86	3/4	2,816.00	3/4	2,456.91
10	10	10		10		10	4,532.19	10	4,211.57	10	3,875.80	10	3,524.96	10	3,167.41	10	2,808.52	10	2,449.43
1/4	1/4	1/4		1/4		1/4	4,525.66	1/4	4,204.72	1/4	3,868.64	1/4	3,517.51	1/4	3,159.96	1/4	2,801.03	1/4	2,441.95
1/2	1/2	1/2		1/2		1/2	4,519.13	1/2	4,197.87	1/2	3,861.48	1/2	3,510.06	1/2	3,152.52	1/2	2,793.55	1/2	2,434.47
3/4	3/4	3/4		3/4		3/4	4,512.60	3/4	4,191.03	3/4	3,854.32	3/4	3,502.61	3/4	3,145.07	3/4	2,786.07	3/4	2,426.98
11	11	11		11		11	4,506.04	11	4,184.16	11	3,847.13	11	3,495.16	11	3,137.61	11	2,778.59	11	2,419.50
1/4	1/4	1/4		1/4		1/4	4,499.49	1/4	4,177.28	1/4	3,839.95	1/4	3,487.71	1/4	3,130.15	1/4	2,771.11	1/4	2,412.02
1/2	1/2	1/2		1/2		1/2	4,492.93	1/2	4,170.41	1/2	3,832.76	1/2	3,480.26	1/2	3,122.69	1/2	2,763.63	1/2	2,404.54
3/4	3/4	3/4		3/4		3/4	4,486.37	3/4	4,163.54	3/4	3,825.57	3/4	3,472.81	3/4	3,115.24	3/4	2,756.15	3/4	2,397.06

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29120"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-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	2,389.58	0	2,030.49	0	1,671.40	0	1,312.32	0	953.50	0	594.54	0	235.47	0		0			
1/4	2,382.10	1/4	2,023.01	1/4	1,663.92	1/4	1,304.83	1/4	946.03	1/4	587.06	1/4	227.99	1/4		1/4			1/4
1/2	2,374.62	1/2	2,015.53	1/2	1,656.44	1/2	1,297.35	1/2	938.56	1/2	579.58	1/2	220.51	1/2		1/2			1/2
3/4	2,367.14	3/4	2,008.05	3/4	1,648.96	3/4	1,289.87	3/4	931.10	3/4	572.10	3/4	213.02	3/4		3/4			3/4
1	2,359.66	1	2,000.57	1	1,641.48	1	1,282.39	1	923.63	1	564.62	1	205.55	1	1	1			1
1/4	2,352.17	1/4	1,993.09	1/4	1,634.00	1/4	1,274.91	1/4	916.16	1/4	557.14	1/4	198.07	1/4		1/4			1/4
1/2	2,344.69	1/2	1,985.61	1/2	1,626.52	1/2	1,267.43	1/2	908.69	1/2	549.66	1/2	190.59	1/2		1/2			1/2
3/4	2,337.21	3/4	1,978.12	3/4	1,619.04	3/4	1,259.95	3/4	901.22	3/4	542.17	3/4	183.11	3/4		3/4			3/4
2	2,329.73	2	1,970.64	2	1,611.56	2	1,252.47	2	893.75	2	534.69	2	175.64	2	2	2			2
1/4	2,322.25	1/4	1,963.16	1/4	1,604.07	1/4	1,244.99	1/4	886.27	1/4	527.21	1/4	168.17	1/4		1/4			1/4
1/2	2,314.77	1/2	1,955.68	1/2	1,596.59	1/2	1,237.51	1/2	878.80	1/2	519.73	1/2	160.69	1/2		1/2			1/2
3/4	2,307.29	3/4	1,948.20	3/4	1,589.11	3/4	1,230.02	3/4	871.33	3/4	512.25	3/4	153.22	3/4		3/4			3/4
3	2,299.81	3	1,940.72	3	1,581.63	3	1,222.54	3	863.85	3	504.77	3	145.76	3	3	3			3
1/4	2,292.33	1/4	1,933.24	1/4	1,574.15	1/4	1,215.06	1/4	856.36	1/4	497.29	1/4	138.30	1/4		1/4			1/4
1/2	2,284.85	1/2	1,925.76	1/2	1,566.67	1/2	1,207.58	1/2	848.88	1/2	489.81	1/2	130.84	1/2		1/2			1/2
3/4	2,277.36	3/4	1,918.28	3/4	1,559.19	3/4	1,200.10	3/4	841.40	3/4	482.33	3/4	123.38	3/4		3/4			3/4
4	2,269.88	4	1,910.80	4	1,551.71	4	1,192.62	4	833.92	4	474.85	4	115.93	4	4	4			4
1/4	2,262.40	1/4	1,903.31	1/4	1,544.23	1/4	1,185.14	1/4	826.44	1/4	467.37	1/4	108.49	1/4		1/4			1/4
1/2	2,254.92	1/2	1,895.83	1/2	1,536.75	1/2	1,177.66	1/2	818.96	1/2	459.89	1/2	101.05	1/2		1/2			1/2
3/4	2,247.44	3/4	1,888.35	3/4	1,529.26	3/4	1,170.18	3/4	811.48	3/4	452.41	3/4	93.61	3/4		3/4			3/4
5	2,239.96	5	1,880.87	5	1,521.78	5	1,162.70	5	804.00	5	444.93	5	86.19	5	5	5			5
1/4	2,232.48	1/4	1,873.39	1/4	1,514.30	1/4	1,155.21	1/4	796.52	1/4	437.45	1/4	78.78	1/4		1/4			1/4
1/2	2,225.00	1/2	1,865.91	1/2	1,506.82	1/2	1,147.73	1/2	789.04	1/2	429.96	1/2	71.37	1/2		1/2			1/2
3/4	2,217.52	3/4	1,858.43	3/4	1,499.34	3/4	1,140.25	3/4	781.56	3/4	422.48	3/4	63.96	3/4		3/4			3/4
6	2,210.04	6	1,850.95	6	1,491.86	6	1,132.78	6	774.08	6	415.00	6	57.01	6	6	6			6
1/4	2,202.55	1/4	1,843.47	1/4	1,484.38	1/4	1,125.30	1/4	766.60	1/4	407.52	1/4	50.05	1/4		1/4			1/4
1/2	2,195.07	1/2	1,835.99	1/2	1,476.90	1/2	1,117.82	1/2	759.12	1/2	400.04	1/2	43.10	1/2		1/2			1/2
3/4	2,187.59	3/4	1,828.50	3/4	1,469.42	3/4	1,110.35	3/4	751.63	3/4	392.56	3/4	36.15	3/4		3/4			3/4
7	2,180.11	7	1,821.02	7	1,461.94	7	1,102.88	7	744.15	7	385.08	7	30.85	7	7	7			7
1/4	2,172.63	1/4	1,813.54	1/4	1,454.45	1/4	1,095.41	1/4	736.67	1/4	377.60	1/4	25.56	1/4		1/4			1/4
1/2	2,165.15	1/2	1,806.06	1/2	1,446.97	1/2	1,087.94	1/2	729.19	1/2	370.12	1/2	20.26	1/2		1/2			1/2
3/4	2,157.67	3/4	1,798.58	3/4	1,439.49	3/4	1,080.47	3/4	721.71	3/4	362.64	3/4	14.96	3/4		3/4			3/4
8	2,150.19	8	1,791.10	8	1,432.01	8	1,073.00	8	714.23	8	355.16	8		8	8	8			8
1/4	2,142.71	1/4	1,783.62	1/4	1,424.53	1/4	1,065.53	1/4	706.75	1/4	347.68	1/4		1/4		1/4			1/4
1/2	2,135.23	1/2	1,776.14	1/2	1,417.05	1/2	1,058.07	1/2	699.27	1/2	340.20	1/2		1/2		1/2			1/2
3/4	2,127.74	3/4	1,768.66	3/4	1,409.57	3/4	1,050.60	3/4	691.79	3/4	332.72	3/4		3/4		3/4			3/4
9	2,120.26	9	1,761.18	9	1,402.09	9	1,043.13	9	684.31	9	325.23	9		9	9	9			9
1/4	2,112.78	1/4	1,753.69	1/4	1,394.61	1/4	1,035.66	1/4	676.83	1/4	317.75	1/4		1/4		1/4			1/4
1/2	2,105.30	1/2	1,746.21	1/2	1,387.13	1/2	1,028.19	1/2	669.35	1/2	310.27	1/2		1/2		1/2			1/2
3/4	2,097.82	3/4	1,738.73	3/4	1,379.64	3/4	1,020.72	3/4	661.87	3/4	302.79	3/4		3/4		3/4			3/4
10	2,090.34	10	1,731.25	10	1,372.16	10	1,013.25	10	654.39	10	295.31	10		10	10	10			10
1/4	2,082.86	1/4	1,723.77	1/4	1,364.68	1/4	1,005.78	1/4	646.90	1/4	287.83	1/4		1/4		1/4			1/4
1/2	2,075.38	1/2	1,716.29	1/2	1,357.20	1/2	998.32	1/2	639.42	1/2	280.35	1/2		1/2		1/2			1/2
3/4	2,067.90	3/4	1,708.81	3/4	1,349.72	3/4	990.85	3/4	631.94	3/4	272.87	3/4		3/4		3/4			3/4
11	2,060.42	11	1,701.33	11	1,342.24	11	983.38	11	624.46	11	265.39	11		11	11	11			11
1/4	2,052.93	1/4	1,693.85	1/4	1,334.76	1/4	975.91	1/4	616.98	1/4	257.91	1/4		1/4		1/4			1/4
1/2	2,045.45	1/2	1,686.37	1/2	1,327.28	1/2	968.44	1/2	609.50	1/2	250.43	1/2		1/2		1/2			1/2
3/4	2,037.97	3/4	1,678.88	3/4	1,319.80	3/4	960.97	3/4	602.02	3/4	242.95	3/4		3/4		3/4			3/4

STRAPPED: 10/16/2014 CL - SW
CALCULATED: 10/16/2014 CL
PRINTED: 10/16/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 29120"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	4,356.58	0	4,115.75	0	3,869.40	0	3,611.06	0	3,341.02	0	2,988.72	0	2,632.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,351.94	1/4	4,110.74	1/4	3,864.14	1/4	3,605.55	1/4	3,335.32	1/4	2,981.30	1/4	2,624.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,347.31	1/2	4,105.73	1/2	3,858.87	1/2	3,600.04	1/2	3,329.61	1/2	2,973.87	1/2	2,617.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,343.16	3/4	4,100.71	3/4	3,853.60	3/4	3,594.51	3/4	3,322.19	3/4	2,966.45	3/4	2,610.09
1	1	1	1	1	1	1	4,339.01	1	4,095.68	1	3,848.32	1	3,588.98	1	3,314.76	1	2,959.02	1	2,602.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,334.86	1/4	4,090.66	1/4	3,843.04	1/4	3,583.45	1/4	3,307.33	1/4	2,951.60	1/4	2,595.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,330.71	1/2	4,085.63	1/2	3,837.76	1/2	3,577.92	1/2	3,299.90	1/2	2,944.18	1/2	2,587.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,325.35	3/4	4,080.58	3/4	3,832.47	3/4	3,572.37	3/4	3,292.48	3/4	2,936.75	3/4	2,580.39
2	2	2	2	2	2	2	4,320.00	2	4,075.53	2	3,827.17	2	3,566.82	2	3,285.05	2	2,929.33	2	2,572.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,314.64	1/4	4,070.48	1/4	3,821.87	1/4	3,561.27	1/4	3,277.62	1/4	2,921.90	1/4	2,565.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,309.29	1/2	4,065.43	1/2	3,816.58	1/2	3,555.72	1/2	3,270.20	1/2	2,914.48	1/2	2,558.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,303.59	3/4	4,060.37	3/4	3,811.26	3/4	3,550.15	3/4	3,262.77	3/4	2,907.05	3/4	2,550.69
3	3	3	3	3	3	3	4,297.88	3	4,055.30	3	3,805.94	3	3,544.59	3	3,255.34	3	2,899.63	3	2,543.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,292.18	1/4	4,050.23	1/4	3,800.62	1/4	3,539.02	1/4	3,247.91	1/4	2,892.21	1/4	2,535.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,286.48	1/2	4,045.16	1/2	3,795.30	1/2	3,533.45	1/2	3,240.49	1/2	2,884.78	1/2	2,528.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,280.77	3/4	4,040.07	3/4	3,789.96	3/4	3,527.86	3/4	3,233.06	3/4	2,877.36	3/4	2,521.00
4	4	4	4	4	4	4	4,275.07	4	4,034.98	4	3,784.62	4	3,522.27	4	3,225.63	4	2,869.93	4	2,513.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,269.37	1/4	4,029.89	1/4	3,779.28	1/4	3,516.68	1/4	3,218.20	1/4	2,862.51	1/4	2,506.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,263.66	1/2	4,024.80	1/2	3,773.94	1/2	3,511.09	1/2	3,210.78	1/2	2,855.09	1/2	2,498.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,258.80	3/4	4,019.69	3/4	3,768.58	3/4	3,505.48	3/4	3,203.38	3/4	2,847.66	3/4	2,491.30
5	5	5	5	5	5	5	4,253.94	5	4,014.58	5	3,763.22	5	3,499.87	5	3,195.98	5	2,840.24	5	2,483.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,249.08	1/4	4,009.47	1/4	3,757.85	1/4	3,494.26	1/4	3,188.58	1/4	2,832.81	1/4	2,476.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,244.21	1/2	4,004.36	1/2	3,752.49	1/2	3,488.65	1/2	3,181.18	1/2	2,825.39	1/2	2,469.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,239.33	3/4	3,999.23	3/4	3,747.11	3/4	3,483.02	3/4	3,173.78	3/4	2,817.96	3/4	2,461.60
6	6	6	6	6	6	6	4,234.45	6	3,994.09	6	3,741.73	6	3,477.39	6	3,166.38	6	2,810.54	6	2,454.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,229.57	1/4	3,988.96	1/4	3,736.35	1/4	3,471.76	1/4	3,158.98	1/4	2,803.12	1/4	2,446.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,224.69	1/2	3,983.83	1/2	3,730.97	1/2	3,466.12	1/2	3,151.58	1/2	2,795.69	1/2	2,439.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,219.78	3/4	3,978.67	3/4	3,725.57	3/4	3,460.47	3/4	3,144.17	3/4	2,788.27	3/4	2,431.91
7	7	7	7	7	7	7	4,214.88	7	3,973.52	7	3,720.16	7	3,454.82	7	3,136.77	7	2,780.84	7	2,424.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,209.97	1/4	3,968.37	1/4	3,714.76	1/4	3,449.17	1/4	3,129.37	1/4	2,773.42	1/4	2,417.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,205.07	1/2	3,963.22	1/2	3,709.36	1/2	3,443.52	1/2	3,121.97	1/2	2,765.99	1/2	2,409.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,200.15	3/4	3,958.04	3/4	3,703.93	3/4	3,437.84	3/4	3,114.57	3/4	2,758.57	3/4	2,402.21
8	8	8	8	8	8	8	4,195.22	8	3,952.87	8	3,698.51	8	3,432.17	8	3,107.17	8	2,751.15	8	2,394.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,190.30	1/4	3,947.69	1/4	3,693.09	1/4	3,426.49	1/4	3,099.77	1/4	2,743.72	1/4	2,387.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,185.38	1/2	3,942.51	1/2	3,687.67	1/2	3,420.82	1/2	3,092.37	1/2	2,736.30	1/2	2,379.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,180.43	3/4	3,937.32	3/4	3,682.22	3/4	3,415.13	3/4	3,084.97	3/4	2,728.87	3/4	2,372.51
9	9	9	9	9	9	9	4,175.48	9	3,932.13	9	3,676.77	9	3,409.43	9	3,077.57	9	2,721.45	9	2,365.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,170.53	1/4	3,926.93	1/4	3,671.33	1/4	3,403.74	1/4	3,070.17	1/4	2,714.03	1/4	2,357.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,165.59	1/2	3,921.74	1/2	3,665.88	1/2	3,398.05	1/2	3,062.77	1/2	2,706.60	1/2	2,350.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,160.62	3/4	3,916.52	3/4	3,660.42	3/4	3,392.34	3/4	3,055.37	3/4	2,699.18	3/4	2,342.81
10	10	10	10	10	10	10	4,155.66	10	3,911.30	10	3,654.95	10	3,386.64	10	3,047.97	10	2,691.75	10	2,335.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,150.69	1/4	3,906.08	1/4	3,649.49	1/4	3,380.94	1/4	3,040.57	1/4	2,684.33	1/4	2,327.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,145.73	1/2	3,900.86	1/2	3,644.02	1/2	3,375.24	1/2	3,033.17	1/2	2,676.90	1/2	2,320.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,140.73	3/4	3,895.63	3/4	3,638.53	3/4	3,369.53	3/4	3,025.77	3/4	2,669.48	3/4	2,313.11
11	11	11	11	11	11	11	4,135.74	11	3,890.39	11	3,633.05	11	3,363.83	11	3,018.37	11	2,662.06	11	2,305.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,130.75	1/4	3,885.16	1/4	3,627.56	1/4	3,358.13	1/4	3,010.97	1/4	2,654.63	1/4	2,298.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,365.84	1/2	4,125.76	1/2	3,879.92	1/2	3,622.07	1/2	3,352.42	1/2	3,003.57	1/2	2,647.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,361.21	3/4	4,120.75	3/4	3,874.66	3/4	3,616.56	3/4	3,346.72	3/4	2,996.14	3/4	2,639.78

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-03" 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 29120"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,275.99	0	1,919.18	0	1,563.33	0	1,206.86	0	862.68	0	505.77	0	148.65	0		0			
1/4	2,268.57	1/4	1,911.74	1/4	1,555.92	1/4	1,199.68	1/4	855.27	1/4	498.33	1/4	141.21	1/4		1/4			1/4
1/2	2,261.14	1/2	1,904.30	1/2	1,548.50	1/2	1,192.51	1/2	847.85	1/2	490.89	1/2	133.77	1/2		1/2			1/2
3/4	2,253.72	3/4	1,896.89	3/4	1,541.07	3/4	1,185.34	3/4	840.43	3/4	483.45	3/4	126.33	3/4		3/4			3/4
1	2,246.29	1	1,889.48	1	1,533.63	1	1,178.17	1	833.01	1	476.01	1	118.89	1		1			1
1/4	2,238.87	1/4	1,882.07	1/4	1,526.19	1/4	1,171.00	1/4	825.59	1/4	468.57	1/4	111.45	1/4		1/4			1/4
1/2	2,231.44	1/2	1,874.65	1/2	1,518.75	1/2	1,163.83	1/2	818.17	1/2	461.13	1/2	104.01	1/2		1/2			1/2
3/4	2,224.02	3/4	1,867.24	3/4	1,511.31	3/4	1,156.66	3/4	810.75	3/4	453.69	3/4	96.88	3/4		3/4			3/4
2	2,216.59	2	1,859.83	2	1,503.87	2	1,149.49	2	803.33	2	446.25	2	89.76	2		2			2
1/4	2,209.17	1/4	1,852.42	1/4	1,496.43	1/4	1,142.32	1/4	795.91	1/4	438.81	1/4	82.63	1/4		1/4			1/4
1/2	2,201.74	1/2	1,845.00	1/2	1,488.99	1/2	1,135.15	1/2	788.50	1/2	431.37	1/2	75.51	1/2		1/2			1/2
3/4	2,194.32	3/4	1,837.59	3/4	1,481.56	3/4	1,127.98	3/4	781.06	3/4	423.93	3/4	69.32	3/4		3/4			3/4
3	2,186.89	3	1,830.18	3	1,474.12	3	1,120.81	3	773.62	3	416.49	3	63.14	3		3			3
1/4	2,179.47	1/4	1,822.77	1/4	1,466.68	1/4	1,113.64	1/4	766.18	1/4	409.05	1/4	56.96	1/4		1/4			1/4
1/2	2,172.04	1/2	1,815.35	1/2	1,459.24	1/2	1,106.46	1/2	758.74	1/2	401.61	1/2	50.77	1/2		1/2			1/2
3/4	2,164.62	3/4	1,807.94	3/4	1,451.80	3/4	1,099.29	3/4	751.30	3/4	394.17	3/4	45.84	3/4		3/4			3/4
4	2,157.20	4	1,800.53	4	1,444.36	4	1,092.12	4	743.86	4	386.73	4	40.92	4		4			4
1/4	2,149.77	1/4	1,793.12	1/4	1,436.92	1/4	1,084.95	1/4	736.42	1/4	379.29	1/4	35.99	1/4		1/4			1/4
1/2	2,142.35	1/2	1,785.70	1/2	1,429.48	1/2	1,077.78	1/2	728.98	1/2	371.85	1/2	31.06	1/2		1/2			1/2
3/4	2,134.91	3/4	1,778.29	3/4	1,422.04	3/4	1,070.62	3/4	721.53	3/4	364.41	3/4	27.39	3/4		3/4			3/4
5	2,127.47	5	1,770.88	5	1,414.61	5	1,063.47	5	714.09	5	356.97	5	23.73	5		5			5
1/4	2,120.03	1/4	1,763.47	1/4	1,407.17	1/4	1,056.31	1/4	706.65	1/4	349.53	1/4	20.06	1/4		1/4			1/4
1/2	2,112.59	1/2	1,756.05	1/2	1,399.73	1/2	1,049.15	1/2	699.21	1/2	342.09	1/2	16.40	1/2		1/2			1/2
3/4	2,105.15	3/4	1,748.64	3/4	1,392.29	3/4	1,042.00	3/4	691.77	3/4	334.65	3/4		3/4		3/4			3/4
6	2,097.71	6	1,741.23	6	1,384.85	6	1,034.84	6	684.33	6	327.21	6	6	6		6			6
1/4	2,090.27	1/4	1,733.82	1/4	1,377.41	1/4	1,027.68	1/4	676.89	1/4	319.77	1/4		1/4		1/4			1/4
1/2	2,082.84	1/2	1,726.40	1/2	1,369.97	1/2	1,020.53	1/2	669.45	1/2	312.33	1/2		1/2		1/2			1/2
3/4	2,075.40	3/4	1,718.99	3/4	1,362.53	3/4	1,013.37	3/4	662.01	3/4	304.89	3/4		3/4		3/4			3/4
7	2,067.96	7	1,711.58	7	1,355.10	7	1,006.22	7	654.57	7	297.45	7	7	7		7			7
1/4	2,060.52	1/4	1,704.17	1/4	1,347.66	1/4	999.07	1/4	647.13	1/4	290.01	1/4		1/4		1/4			1/4
1/2	2,053.08	1/2	1,696.75	1/2	1,340.22	1/2	991.91	1/2	639.69	1/2	282.57	1/2		1/2		1/2			1/2
3/4	2,045.64	3/4	1,689.34	3/4	1,332.78	3/4	984.76	3/4	632.25	3/4	275.13	3/4		3/4		3/4			3/4
8	2,038.20	8	1,681.93	8	1,325.34	8	977.61	8	624.81	8	267.69	8	8	8		8			8
1/4	2,030.76	1/4	1,674.52	1/4	1,317.90	1/4	970.46	1/4	617.37	1/4	260.25	1/4		1/4		1/4			1/4
1/2	2,023.33	1/2	1,667.10	1/2	1,310.46	1/2	963.32	1/2	609.93	1/2	252.81	1/2		1/2		1/2			1/2
3/4	2,015.89	3/4	1,659.69	3/4	1,303.02	3/4	956.17	3/4	602.49	3/4	245.37	3/4		3/4		3/4			3/4
9	2,008.45	9	1,652.28	9	1,295.59	9	949.02	9	595.05	9	237.93	9	9	9		9			9
1/4	2,001.01	1/4	1,644.87	1/4	1,288.15	1/4	941.87	1/4	587.61	1/4	230.49	1/4		1/4		1/4			1/4
1/2	1,993.57	1/2	1,637.45	1/2	1,280.71	1/2	934.72	1/2	580.17	1/2	223.05	1/2		1/2		1/2			1/2
3/4	1,986.13	3/4	1,630.04	3/4	1,273.27	3/4	927.57	3/4	572.73	3/4	215.61	3/4		3/4		3/4			3/4
10	1,978.69	10	1,622.63	10	1,265.83	10	920.42	10	565.29	10	208.17	10	10	10		10			10
1/4	1,971.25	1/4	1,615.22	1/4	1,258.39	1/4	913.27	1/4	557.85	1/4	200.73	1/4		1/4		1/4			1/4
1/2	1,963.81	1/2	1,607.80	1/2	1,250.95	1/2	906.12	1/2	550.41	1/2	193.29	1/2		1/2		1/2			1/2
3/4	1,956.38	3/4	1,600.39	3/4	1,243.51	3/4	898.97	3/4	542.97	3/4	185.85	3/4		3/4		3/4			3/4
11	1,948.94	11	1,592.98	11	1,236.07	11	891.82	11	535.53	11	178.41	11	11	11		11			11
1/4	1,941.50	1/4	1,585.57	1/4	1,228.64	1/4	884.67	1/4	528.09	1/4	170.97	1/4		1/4		1/4			1/4
1/2	1,934.06	1/2	1,578.15	1/2	1,221.20	1/2	877.52	1/2	520.65	1/2	163.53	1/2		1/2		1/2			1/2
3/4	1,926.62	3/4	1,570.74	3/4	1,214.03	3/4	870.10	3/4	513.21	3/4	156.09	3/4		3/4		3/4			3/4

STRAPPED: 10/16/2014 CL - SW
CALCULATED: 10/16/2014 CL
PRINTED: 10/16/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 29120"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	4,394.90	0	4,153.59	0	3,906.53	0	3,647.45	0	3,376.54	0	3,025.66	0	2,667.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,390.24	1/4	4,148.56	1/4	3,901.25	1/4	3,641.92	1/4	3,370.81	1/4	3,018.20	1/4	2,660.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,385.58	1/2	4,143.53	1/2	3,895.96	1/2	3,636.38	1/2	3,365.08	1/2	3,010.75	1/2	2,652.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,380.92	3/4	4,138.50	3/4	3,890.67	3/4	3,630.85	3/4	3,359.35	3/4	3,003.30	3/4	2,645.52
1	1	1	1	1	1	1	4,376.26	1	4,133.46	1	3,885.39	1	3,625.32	1	3,353.62	1	2,995.84	1	2,638.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,372.08	1/4	4,128.41	1/4	3,880.08	1/4	3,619.76	1/4	3,346.17	1/4	2,988.39	1/4	2,630.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,367.91	1/2	4,123.36	1/2	3,874.78	1/2	3,614.20	1/2	3,338.71	1/2	2,980.94	1/2	2,623.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,363.73	3/4	4,118.31	3/4	3,869.47	3/4	3,608.65	3/4	3,331.26	3/4	2,973.48	3/4	2,615.70
2	2	2	2	2	2	2	4,359.56	2	4,113.26	2	3,864.17	2	3,603.09	2	3,323.81	2	2,966.03	2	2,608.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,354.18	1/4	4,108.19	1/4	3,858.85	1/4	3,597.51	1/4	3,316.35	1/4	2,958.57	1/4	2,600.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,348.80	1/2	4,103.11	1/2	3,853.53	1/2	3,591.94	1/2	3,308.90	1/2	2,951.12	1/2	2,593.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,343.42	3/4	4,098.04	3/4	3,848.21	3/4	3,586.36	3/4	3,301.45	3/4	2,943.67	3/4	2,585.89
3	3	3	3	3	3	3	4,338.04	3	4,092.96	3	3,842.88	3	3,580.79	3	3,293.99	3	2,936.21	3	2,578.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,332.31	1/4	4,087.87	1/4	3,837.54	1/4	3,575.20	1/4	3,286.54	1/4	2,928.76	1/4	2,570.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,326.58	1/2	4,082.78	1/2	3,832.19	1/2	3,569.60	1/2	3,279.08	1/2	2,921.31	1/2	2,563.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,320.85	3/4	4,077.68	3/4	3,826.85	3/4	3,564.01	3/4	3,271.63	3/4	2,913.85	3/4	2,556.08
4	4	4	4	4	4	4	4,315.12	4	4,072.59	4	3,821.50	4	3,558.42	4	3,264.18	4	2,906.40	4	2,548.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,309.39	1/4	4,067.47	1/4	3,816.14	1/4	3,552.80	1/4	3,256.72	1/4	2,898.95	1/4	2,541.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,303.66	1/2	4,062.36	1/2	3,810.77	1/2	3,547.18	1/2	3,249.27	1/2	2,891.49	1/2	2,533.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,297.93	3/4	4,057.24	3/4	3,805.41	3/4	3,541.57	3/4	3,241.82	3/4	2,884.04	3/4	2,526.26
5	5	5	5	5	5	5	4,292.21	5	4,052.12	5	3,800.04	5	3,535.95	5	3,234.36	5	2,876.58	5	2,518.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,287.32	1/4	4,046.99	1/4	3,794.66	1/4	3,530.32	1/4	3,226.91	1/4	2,869.13	1/4	2,511.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,282.43	1/2	4,041.85	1/2	3,789.27	1/2	3,524.68	1/2	3,219.45	1/2	2,861.68	1/2	2,503.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,277.54	3/4	4,036.72	3/4	3,783.88	3/4	3,519.05	3/4	3,212.00	3/4	2,854.22	3/4	2,496.45
6	6	6	6	6	6	6	4,272.65	6	4,031.58	6	3,778.49	6	3,513.41	6	3,204.55	6	2,846.77	6	2,488.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,267.75	1/4	4,026.42	1/4	3,773.09	1/4	3,507.75	1/4	3,197.09	1/4	2,839.32	1/4	2,481.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,262.84	1/2	4,021.26	1/2	3,767.68	1/2	3,502.09	1/2	3,189.64	1/2	2,831.86	1/2	2,474.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,257.94	3/4	4,016.11	3/4	3,762.28	3/4	3,496.43	3/4	3,182.19	3/4	2,824.41	3/4	2,466.63
7	7	7	7	7	7	7	4,253.03	7	4,010.95	7	3,756.87	7	3,490.78	7	3,174.73	7	2,816.95	7	2,459.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,248.10	1/4	4,005.77	1/4	3,751.44	1/4	3,485.10	1/4	3,167.28	1/4	2,809.50	1/4	2,451.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,243.17	1/2	4,000.59	1/2	3,746.01	1/2	3,479.42	1/2	3,159.82	1/2	2,802.05	1/2	2,444.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,238.24	3/4	3,995.42	3/4	3,740.58	3/4	3,473.74	3/4	3,152.37	3/4	2,794.59	3/4	2,436.82
8	8	8	8	8	8	8	4,233.31	8	3,990.24	8	3,735.15	8	3,468.07	8	3,144.92	8	2,787.14	8	2,429.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,228.36	1/4	3,985.04	1/4	3,729.70	1/4	3,462.37	1/4	3,137.46	1/4	2,779.69	1/4	2,421.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,223.41	1/2	3,979.84	1/2	3,724.25	1/2	3,456.67	1/2	3,130.01	1/2	2,772.23	1/2	2,414.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,218.46	3/4	3,974.63	3/4	3,718.81	3/4	3,450.97	3/4	3,122.56	3/4	2,764.78	3/4	2,407.00
9	9	9	9	9	9	9	4,213.51	9	3,969.43	9	3,713.36	9	3,445.26	9	3,115.10	9	2,757.33	9	2,399.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,208.54	1/4	3,964.21	1/4	3,707.89	1/4	3,439.55	1/4	3,107.65	1/4	2,749.87	1/4	2,392.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,203.57	1/2	3,958.99	1/2	3,702.41	1/2	3,433.83	1/2	3,100.20	1/2	2,742.42	1/2	2,384.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,198.59	3/4	3,953.77	3/4	3,696.94	3/4	3,428.11	3/4	3,092.74	3/4	2,734.96	3/4	2,377.19
10	10	10	10	10	10	10	4,193.62	10	3,948.56	10	3,691.47	10	3,422.39	10	3,085.29	10	2,727.51	10	2,369.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,188.63	1/4	3,943.31	1/4	3,685.98	1/4	3,416.66	1/4	3,077.83	1/4	2,720.06	1/4	2,362.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,183.64	1/2	3,938.07	1/2	3,680.49	1/2	3,410.93	1/2	3,070.38	1/2	2,712.60	1/2	2,354.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,178.65	3/4	3,932.82	3/4	3,675.00	3/4	3,405.20	3/4	3,062.93	3/4	2,705.15	3/4	2,347.37
11	11	11	11	11	11	11	4,173.66	11	3,927.58	11	3,669.51	11	3,399.47	11	3,055.47	11	2,697.70	11	2,339.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,168.64	1/4	3,922.32	1/4	3,663.99	1/4	3,393.73	1/4	3,048.02	1/4	2,690.24	1/4	2,332.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,163.63	1/2	3,917.06	1/2	3,658.48	1/2	3,388.00	1/2	3,040.57	1/2	2,682.79	1/2	2,325.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,158.61	3/4	3,911.79	3/4	3,652.96	3/4	3,382.27	3/4	3,033.11	3/4	2,675.33	3/4	2,317.56

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-03" 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 29120"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,310.10	0	1,952.33	0	1,594.55	0	1,236.77	0	879.23	0	521.60	0	163.84	0		0			
1/4	2,302.65	1/4	1,944.87	1/4	1,587.09	1/4	1,229.32	1/4	871.79	1/4	514.15	1/4	156.38	1/4		1/4			
1/2	2,295.20	1/2	1,937.42	1/2	1,579.64	1/2	1,221.86	1/2	864.35	1/2	506.70	1/2	148.93	1/2		1/2			
3/4	2,287.74	3/4	1,929.96	3/4	1,572.19	3/4	1,214.41	3/4	856.91	3/4	499.24	3/4	141.47	3/4		3/4			
1	2,280.29	1	1,922.51	1	1,564.73	1	1,206.96	1	849.46	1	491.79	1	134.02	1		1			
1/4	2,272.83	1/4	1,915.06	1/4	1,557.28	1/4	1,199.50	1/4	842.02	1/4	484.34	1/4	126.57	1/4		1/4			
1/2	2,265.38	1/2	1,907.60	1/2	1,549.83	1/2	1,192.05	1/2	834.58	1/2	476.88	1/2	119.12	1/2		1/2			
3/4	2,257.93	3/4	1,900.15	3/4	1,542.37	3/4	1,184.59	3/4	827.14	3/4	469.43	3/4	111.66	3/4		3/4			
2	2,250.47	2	1,892.70	2	1,534.92	2	1,177.14	2	819.70	2	461.98	2	104.21	2		2			
1/4	2,243.02	1/4	1,885.24	1/4	1,527.46	1/4	1,169.69	1/4	812.25	1/4	454.52	1/4	97.07	1/4		1/4			
1/2	2,235.57	1/2	1,877.79	1/2	1,520.01	1/2	1,162.23	1/2	804.81	1/2	447.07	1/2	89.93	1/2		1/2			
3/4	2,228.11	3/4	1,870.33	3/4	1,512.56	3/4	1,154.78	3/4	797.37	3/4	439.61	3/4	82.79	3/4		3/4			
3	2,220.66	3	1,862.88	3	1,505.10	3	1,147.33	3	789.93	3	432.16	3	75.66	3		3			
1/4	2,213.20	1/4	1,855.43	1/4	1,497.65	1/4	1,139.87	1/4	782.48	1/4	424.71	1/4	69.46	1/4		1/4			
1/2	2,205.75	1/2	1,847.97	1/2	1,490.20	1/2	1,132.42	1/2	775.02	1/2	417.25	1/2	63.26	1/2		1/2			
3/4	2,198.30	3/4	1,840.52	3/4	1,482.74	3/4	1,124.96	3/4	767.57	3/4	409.80	3/4	57.06	3/4		3/4			
4	2,190.84	4	1,833.07	4	1,475.29	4	1,117.51	4	760.12	4	402.35	4	50.87	4		4			
1/4	2,183.39	1/4	1,825.61	1/4	1,467.83	1/4	1,110.06	1/4	752.66	1/4	394.89	1/4	45.92	1/4		1/4			
1/2	2,175.94	1/2	1,818.16	1/2	1,460.38	1/2	1,102.60	1/2	745.21	1/2	387.44	1/2	40.98	1/2		1/2			
3/4	2,168.48	3/4	1,810.71	3/4	1,452.93	3/4	1,095.15	3/4	737.75	3/4	379.99	3/4	36.04	3/4		3/4			
5	2,161.03	5	1,803.25	5	1,445.47	5	1,087.70	5	730.30	5	372.53	5	31.10	5		5			
1/4	2,153.58	1/4	1,795.80	1/4	1,438.02	1/4	1,080.24	1/4	722.85	1/4	365.08	1/4	27.43	1/4		1/4			
1/2	2,146.12	1/2	1,788.34	1/2	1,430.57	1/2	1,072.79	1/2	715.39	1/2	357.63	1/2	23.75	1/2		1/2			
3/4	2,138.67	3/4	1,780.89	3/4	1,423.11	3/4	1,065.34	3/4	707.94	3/4	350.17	3/4	20.07	3/4		3/4			
6	2,131.21	6	1,773.44	6	1,415.66	6	1,057.88	6	700.49	6	342.72	6	16.40	6		6			
1/4	2,123.76	1/4	1,765.98	1/4	1,408.21	1/4	1,050.43	1/4	693.03	1/4	335.27	1/4		1/4		1/4			
1/2	2,116.31	1/2	1,758.53	1/2	1,400.75	1/2	1,042.97	1/2	685.58	1/2	327.81	1/2		1/2		1/2			
3/4	2,108.85	3/4	1,751.08	3/4	1,393.30	3/4	1,035.52	3/4	678.13	3/4	320.36	3/4		3/4		3/4			
7	2,101.40	7	1,743.62	7	1,385.84	7	1,028.07	7	670.67	7	312.91	7		7		7			
1/4	2,093.95	1/4	1,736.17	1/4	1,378.39	1/4	1,020.62	1/4	663.22	1/4	305.45	1/4		1/4		1/4			
1/2	2,086.49	1/2	1,728.71	1/2	1,370.94	1/2	1,013.18	1/2	655.77	1/2	298.00	1/2		1/2		1/2			
3/4	2,079.04	3/4	1,721.26	3/4	1,363.48	3/4	1,005.74	3/4	648.31	3/4	290.54	3/4		3/4		3/4			
8	2,071.58	8	1,713.81	8	1,356.03	8	998.30	8	640.86	8	283.09	8		8		8			
1/4	2,064.13	1/4	1,706.35	1/4	1,348.58	1/4	990.86	1/4	633.41	1/4	275.64	1/4		1/4		1/4			
1/2	2,056.68	1/2	1,698.90	1/2	1,341.12	1/2	983.42	1/2	625.95	1/2	268.18	1/2		1/2		1/2			
3/4	2,049.22	3/4	1,691.45	3/4	1,333.67	3/4	975.97	3/4	618.50	3/4	260.73	3/4		3/4		3/4			
9	2,041.77	9	1,683.99	9	1,326.21	9	968.53	9	611.05	9	253.28	9		9		9			
1/4	2,034.32	1/4	1,676.54	1/4	1,318.76	1/4	961.09	1/4	603.59	1/4	245.82	1/4		1/4		1/4			
1/2	2,026.86	1/2	1,669.08	1/2	1,311.31	1/2	953.65	1/2	596.14	1/2	238.37	1/2		1/2		1/2			
3/4	2,019.41	3/4	1,661.63	3/4	1,303.85	3/4	946.21	3/4	588.68	3/4	230.92	3/4		3/4		3/4			
10	2,011.96	10	1,654.18	10	1,296.40	10	938.77	10	581.23	10	223.46	10		10		10			
1/4	2,004.50	1/4	1,646.72	1/4	1,288.95	1/4	931.32	1/4	573.78	1/4	216.01	1/4		1/4		1/4			
1/2	1,997.05	1/2	1,639.27	1/2	1,281.49	1/2	923.88	1/2	566.32	1/2	208.56	1/2		1/2		1/2			
3/4	1,989.59	3/4	1,631.82	3/4	1,274.04	3/4	916.44	3/4	558.87	3/4	201.10	3/4		3/4		3/4			
11	1,982.14	11	1,624.36	11	1,266.59	11	909.00	11	551.42	11	193.65	11		11		11			
1/4	1,974.69	1/4	1,616.91	1/4	1,259.13	1/4	901.56	1/4	543.96	1/4	186.20	1/4		1/4		1/4			
1/2	1,967.23	1/2	1,609.46	1/2	1,251.68	1/2	894.11	1/2	536.51	1/2	178.74	1/2		1/2		1/2			
3/4	1,959.78	3/4	1,602.00	3/4	1,244.22	3/4	886.67	3/4	529.06	3/4	171.29	3/4		3/4		3/4			

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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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