



BARGE "MMI 3032"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-00"

October 26, 2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MMI 3032"

1 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-10 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,045.20	0	4,678.19	0	4,311.18	0	3,944.17	0	3,577.17	0	3,210.16	0	2,843.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,037.56	1/4	4,670.55	1/4	4,303.54	1/4	3,936.53	1/4	3,569.52	1/4	3,202.51	1/4	2,835.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,029.91	1/2	4,662.90	1/2	4,295.89	1/2	3,928.88	1/2	3,561.88	1/2	3,194.87	1/2	2,827.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,022.26	3/4	4,655.26	3/4	4,288.25	3/4	3,921.24	3/4	3,554.23	3/4	3,187.22	3/4	2,820.22		
1		1		1		1	5,014.62	1	4,647.61	1	4,280.60	1	3,913.59	1	3,546.58	1	3,179.57	1	2,812.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,006.97	1/4	4,639.96	1/4	4,272.95	1/4	3,905.95	1/4	3,538.94	1/4	3,171.93	1/4	2,804.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,999.33	1/2	4,632.32	1/2	4,265.31	1/2	3,898.30	1/2	3,531.29	1/2	3,164.28	1/2	2,797.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.68	3/4	4,624.67	3/4	4,257.66	3/4	3,890.66	3/4	3,523.65	3/4	3,156.64	3/4	2,789.63		
2		2		2		2	4,984.04	2	4,617.02	2	4,250.01	2	3,883.01	2	3,516.00	2	3,148.99	2	2,781.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,976.39	1/4	4,609.38	1/4	4,242.37	1/4	3,875.36	1/4	3,508.35	1/4	3,141.35	1/4	2,774.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,968.75	1/2	4,601.73	1/2	4,234.72	1/2	3,867.72	1/2	3,500.71	1/2	3,133.70	1/2	2,766.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,961.10	3/4	4,594.09	3/4	4,227.08	3/4	3,860.07	3/4	3,493.06	3/4	3,126.06	3/4	2,759.05		
3		3		3		3	4,953.45	3	4,586.44	3	4,219.43	3	3,852.42	3	3,485.41	3	3,118.41	3	2,751.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,945.81	1/4	4,578.79	1/4	4,211.79	1/4	3,844.78	1/4	3,477.77	1/4	3,110.76	1/4	2,743.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,938.16	1/2	4,571.15	1/2	4,204.14	1/2	3,837.13	1/2	3,470.12	1/2	3,103.12	1/2	2,736.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,930.51	3/4	4,563.50	3/4	4,196.50	3/4	3,829.49	3/4	3,462.48	3/4	3,095.47	3/4	2,728.46		
4		4		4		4	4,922.87	4	4,555.85	4	4,188.85	4	3,821.84	4	3,454.83	4	3,087.82	4	2,720.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,915.22	1/4	4,548.21	1/4	4,181.20	1/4	3,814.19	1/4	3,447.19	1/4	3,080.18	1/4	2,713.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,907.58	1/2	4,540.56	1/2	4,173.56	1/2	3,806.55	1/2	3,439.54	1/2	3,072.53	1/2	2,705.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,182.72	3/4	4,899.93	3/4	4,532.92	3/4	4,165.91	3/4	3,798.90	3/4	3,431.90	3/4	3,064.89	3/4	2,697.88
5		5		5		5	4,881.86	5	4,525.27	5	4,158.26	5	3,791.25	5	3,424.25	5	3,057.24	5	2,690.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,181.00	1/4	4,884.64	1/4	4,517.63	1/4	4,150.62	1/4	3,783.61	1/4	3,416.60	1/4	3,049.59	1/4	2,682.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,180.14	1/2	4,876.99	1/2	4,509.98	1/2	4,142.97	1/2	3,775.96	1/2	3,408.96	1/2	3,041.95	1/2	2,674.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,179.28	3/4	4,869.34	3/4	4,502.34	3/4	4,135.33	3/4	3,768.32	3/4	3,401.31	3/4	3,034.30	3/4	2,667.30
6		6		6		6	5,177.20	6	4,861.70	6	4,494.69	6	4,127.68	6	3,760.67	6	3,393.66	6	3,026.65	6	2,659.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,175.12	1/4	4,854.05	1/4	4,487.04	1/4	4,120.03	1/4	3,753.03	1/4	3,386.02	1/4	3,019.01	1/4	2,652.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,173.04	1/2	4,846.40	1/2	4,479.40	1/2	4,112.39	1/2	3,745.38	1/2	3,378.37	1/2	3,011.36	1/2	2,644.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,170.96	3/4	4,838.76	3/4	4,471.75	3/4	4,104.74	3/4	3,737.74	3/4	3,370.73	3/4	3,003.72	3/4	2,636.71
7		7		7		7	5,167.49	7	4,831.11	7	4,464.10	7	4,097.09	7	3,730.09	7	3,363.08	7	2,996.07	7	2,629.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,164.02	1/4	4,823.47	1/4	4,456.46	1/4	4,089.45	1/4	3,722.44	1/4	3,355.43	1/4	2,988.43	1/4	2,621.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,160.54	1/2	4,815.82	1/2	4,448.81	1/2	4,081.80	1/2	3,714.80	1/2	3,347.79	1/2	2,980.78	1/2	2,613.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,157.07	3/4	4,808.18	3/4	4,441.17	3/4	4,074.16	3/4	3,707.15	3/4	3,340.14	3/4	2,973.14	3/4	2,606.13
8		8		8		8	5,152.21	8	4,800.53	8	4,433.52	8	4,066.51	8	3,699.50	8	3,332.49	8	2,965.49	8	2,598.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,147.35	1/4	4,792.88	1/4	4,425.87	1/4	4,058.87	1/4	3,691.86	1/4	3,324.85	1/4	2,957.84	1/4	2,590.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,142.48	1/2	4,785.24	1/2	4,418.23	1/2	4,051.22	1/2	3,684.21	1/2	3,317.20	1/2	2,950.20	1/2	2,583.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,137.62	3/4	4,777.59	3/4	4,410.58	3/4	4,043.58	3/4	3,676.57	3/4	3,309.56	3/4	2,942.55	3/4	2,575.54
9		9		9		9	5,131.37	9	4,769.94	9	4,402.93	9	4,035.93	9	3,668.92	9	3,301.91	9	2,934.90	9	2,567.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,125.12	1/4	4,762.30	1/4	4,395.29	1/4	4,028.28	1/4	3,661.27	1/4	3,294.27	1/4	2,927.26	1/4	2,560.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,118.87	1/2	4,754.65	1/2	4,387.64	1/2	4,020.64	1/2	3,653.63	1/2	3,286.62	1/2	2,919.61	1/2	2,552.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,112.62	3/4	4,747.01	3/4	4,380.00	3/4	4,012.99	3/4	3,645.98	3/4	3,278.98	3/4	2,911.97	3/4	2,544.96
10		10		10		10	5,105.32	10	4,739.36	10	4,372.35	10	4,005.34	10	3,638.33	10	3,271.33	10	2,904.32	10	2,537.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,098.03	1/4	4,731.71	1/4	4,364.71	1/4	3,997.70	1/4	3,630.69	1/4	3,263.68	1/4	2,896.67	1/4	2,529.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,090.73	1/2	4,724.07	1/2	4,357.06	1/2	3,990.05	1/2	3,623.04	1/2	3,256.04	1/2	2,889.03	1/2	2,522.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,083.43	3/4	4,716.42	3/4	4,349.42	3/4	3,982.41	3/4	3,615.40	3/4	3,248.39	3/4	2,881.38	3/4	2,514.38
11		11		11		11	5,075.79	11	4,708.77	11	4,341.77	11	3,974.76	11	3,607.75	11	3,240.74	11	2,873.73	11	2,506.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,068.14	1/4	4,701.13	1/4	4,334.12	1/4	3,967.11	1/4	3,600.11	1/4	3,233.10	1/4	2,866.09	1/4	2,499.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,060.50	1/2	4,693.48	1/2	4,326.48	1/2	3,959.47	1/2	3,592.46	1/2	3,225.45	1/2	2,858.44	1/2	2,491.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,052.85	3/4	4,685.84	3/4	4,318.83	3/4	3,951.82	3/4	3,584.82	3/4	3,217.81	3/4	2,850.80	3/4	2,483.79

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" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "MMI 3032"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,476.14	0	2,109.13	0	1,742.13	0	1,375.12	0	1,008.11	0	641.10	0	281.71	0		0		0	
1/4	2,468.50	1/4	2,101.49	1/4	1,734.48	1/4	1,367.47	1/4	1,000.47	1/4	633.46	1/4	274.52	1/4	1/4		1/4		1/4
1/2	2,460.85	1/2	2,093.84	1/2	1,726.84	1/2	1,359.83	1/2	992.82	1/2	625.81	1/2	267.33	1/2	1/2		1/2		1/2
3/4	2,453.21	3/4	2,086.20	3/4	1,719.19	3/4	1,352.18	3/4	985.18	3/4	618.17	3/4	260.14	3/4	3/4		3/4		3/4
1	2,445.56	1	2,078.55	1	1,711.54	1	1,344.53	1	977.53	1	610.52	1	253.16	1	1		1		1
1/4	2,437.91	1/4	2,070.91	1/4	1,703.90	1/4	1,336.89	1/4	969.88	1/4	602.87	1/4	246.19	1/4	1/4		1/4		1/4
1/2	2,430.27	1/2	2,063.26	1/2	1,696.25	1/2	1,329.24	1/2	962.24	1/2	595.23	1/2	239.21	1/2	1/2		1/2		1/2
3/4	2,422.62	3/4	2,055.62	3/4	1,688.61	3/4	1,321.60	3/4	954.59	3/4	587.58	3/4	232.24	3/4	3/4		3/4		3/4
2	2,414.97	2	2,047.97	2	1,680.96	2	1,313.95	2	946.94	2	579.93	2	225.26	2	2		2		2
1/4	2,407.33	1/4	2,040.32	1/4	1,673.31	1/4	1,306.31	1/4	939.30	1/4	572.29	1/4	218.29	1/4	1/4		1/4		1/4
1/2	2,399.68	1/2	2,032.68	1/2	1,665.67	1/2	1,298.66	1/2	931.65	1/2	564.64	1/2	211.31	1/2	1/2		1/2		1/2
3/4	2,392.04	3/4	2,025.03	3/4	1,658.02	3/4	1,291.02	3/4	924.01	3/4	557.00	3/4	204.34	3/4	3/4		3/4		3/4
3	2,384.39	3	2,017.38	3	1,650.37	3	1,283.37	3	916.36	3	549.35	3	197.36	3	3		3		3
1/4	2,376.75	1/4	2,009.74	1/4	1,642.73	1/4	1,275.72	1/4	908.71	1/4	541.71	1/4	190.38	1/4	1/4		1/4		1/4
1/2	2,369.10	1/2	2,002.09	1/2	1,635.08	1/2	1,268.08	1/2	901.07	1/2	534.06	1/2	183.41	1/2	1/2		1/2		1/2
3/4	2,361.46	3/4	1,994.45	3/4	1,627.44	3/4	1,260.43	3/4	893.42	3/4	526.42	3/4	176.43	3/4	3/4		3/4		3/4
4	2,353.81	4	1,986.80	4	1,619.79	4	1,252.78	4	885.77	4	518.77	4	169.66	4	4		4		4
1/4	2,346.16	1/4	1,979.15	1/4	1,612.15	1/4	1,245.14	1/4	878.13	1/4	511.12	1/4	162.90	1/4	1/4		1/4		1/4
1/2	2,338.52	1/2	1,971.51	1/2	1,604.50	1/2	1,237.49	1/2	870.48	1/2	503.48	1/2	156.13	1/2	1/2		1/2		1/2
3/4	2,330.87	3/4	1,963.86	3/4	1,596.86	3/4	1,229.85	3/4	862.84	3/4	495.83	3/4	149.37	3/4	3/4		3/4		3/4
5	2,323.22	5	1,956.21	5	1,589.21	5	1,222.20	5	855.19	5	488.25	5	142.60	5	5		5		5
1/4	2,315.58	1/4	1,948.57	1/4	1,581.56	1/4	1,214.55	1/4	847.55	1/4	480.68	1/4	135.83	1/4	1/4		1/4		1/4
1/2	2,307.93	1/2	1,940.92	1/2	1,573.92	1/2	1,206.91	1/2	839.90	1/2	473.10	1/2	129.07	1/2	1/2		1/2		1/2
3/4	2,300.29	3/4	1,933.28	3/4	1,566.27	3/4	1,199.26	3/4	832.26	3/4	465.53	3/4	122.30	3/4	3/4		3/4		3/4
6	2,292.64	6	1,925.63	6	1,558.62	6	1,191.61	6	824.61	6	457.95	6	115.81	6	6		6		6
1/4	2,284.99	1/4	1,917.99	1/4	1,550.98	1/4	1,183.97	1/4	816.96	1/4	450.37	1/4	109.33	1/4	1/4		1/4		1/4
1/2	2,277.35	1/2	1,910.34	1/2	1,543.33	1/2	1,176.32	1/2	809.32	1/2	442.80	1/2	102.84	1/2	1/2		1/2		1/2
3/4	2,269.70	3/4	1,902.70	3/4	1,535.69	3/4	1,168.68	3/4	801.67	3/4	435.22	3/4	96.36	3/4	3/4		3/4		3/4
7	2,262.05	7	1,895.05	7	1,528.04	7	1,161.03	7	794.02	7	427.82	7	90.08	7	7		7		7
1/4	2,254.41	1/4	1,887.40	1/4	1,520.39	1/4	1,153.39	1/4	786.38	1/4	420.42	1/4	83.81	1/4	1/4		1/4		1/4
1/2	2,246.76	1/2	1,879.76	1/2	1,512.75	1/2	1,145.74	1/2	778.73	1/2	413.02	1/2	77.53	1/2	1/2		1/2		1/2
3/4	2,239.12	3/4	1,872.11	3/4	1,505.10	3/4	1,138.10	3/4	771.09	3/4	405.62	3/4	71.26	3/4	3/4		3/4		3/4
8	2,231.47	8	1,864.46	8	1,497.45	8	1,130.45	8	763.44	8	398.22	8	65.15	8	8		8		8
1/4	2,223.83	1/4	1,856.82	1/4	1,489.81	1/4	1,122.80	1/4	755.79	1/4	390.82	1/4	59.04	1/4	1/4		1/4		1/4
1/2	2,216.18	1/2	1,849.17	1/2	1,482.16	1/2	1,115.16	1/2	748.15	1/2	383.42	1/2	52.93	1/2	1/2		1/2		1/2
3/4	2,208.54	3/4	1,841.53	3/4	1,474.52	3/4	1,107.51	3/4	740.50	3/4	376.02	3/4	46.82	3/4	3/4		3/4		3/4
9	2,200.89	9	1,833.88	9	1,466.87	9	1,099.86	9	732.85	9	368.62	9	41.88	9	9		9		9
1/4	2,193.24	1/4	1,826.23	1/4	1,459.23	1/4	1,092.22	1/4	725.21	1/4	361.22	1/4	36.95	1/4	1/4		1/4		1/4
1/2	2,185.60	1/2	1,818.59	1/2	1,451.58	1/2	1,084.57	1/2	717.56	1/2	353.82	1/2	32.01	1/2	1/2		1/2		1/2
3/4	2,177.95	3/4	1,810.94	3/4	1,443.94	3/4	1,076.93	3/4	709.92	3/4	346.42	3/4	27.08	3/4	3/4		3/4		3/4
10	2,170.30	10	1,803.29	10	1,436.29	10	1,069.28	10	702.27	10	339.23	10	23.70	10	10		10		10
1/4	2,162.66	1/4	1,795.65	1/4	1,428.64	1/4	1,061.63	1/4	694.63	1/4	332.04	1/4	20.32	1/4	1/4		1/4		1/4
1/2	2,155.01	1/2	1,788.00	1/2	1,421.00	1/2	1,053.99	1/2	686.98	1/2	324.85	1/2	16.94	1/2	1/2		1/2		1/2
3/4	2,147.37	3/4	1,780.36	3/4	1,413.35	3/4	1,046.34	3/4	679.34	3/4	317.66	3/4	13.56	3/4	3/4		3/4		3/4
11	2,139.72	11	1,772.71	11	1,405.70	11	1,038.69	11	671.69	11	310.47	11		11	11		11		11
1/4	2,132.07	1/4	1,765.07	1/4	1,398.06	1/4	1,031.05	1/4	664.04	1/4	303.28	1/4		1/4	1/4		1/4		1/4
1/2	2,124.43	1/2	1,757.42	1/2	1,390.41	1/2	1,023.40	1/2	656.40	1/2	296.09	1/2		1/2	1/2		1/2		1/2
3/4	2,116.78	3/4	1,749.78	3/4	1,382.77	3/4	1,015.76	3/4	648.75	3/4	288.90	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2003 INSP.
RECALCULATED: 10/27/2023 JS
VERIFIED: 10/27/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023



BARGE "MMI 3032"

1 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-10 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,045.20	0	4,678.19	0	4,311.18	0	3,944.17	0	3,577.17	0	3,210.16	0	2,843.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,037.56	1/4	4,670.55	1/4	4,303.54	1/4	3,936.53	1/4	3,569.52	1/4	3,202.51	1/4	2,835.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,029.91	1/2	4,662.90	1/2	4,295.89	1/2	3,928.88	1/2	3,561.88	1/2	3,194.87	1/2	2,827.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,022.26	3/4	4,655.26	3/4	4,288.25	3/4	3,921.24	3/4	3,554.23	3/4	3,187.22	3/4	2,820.22		
1		1		1		1	5,014.62	1	4,647.61	1	4,280.60	1	3,913.59	1	3,546.58	1	3,179.57	1	2,812.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,006.97	1/4	4,639.96	1/4	4,272.95	1/4	3,905.95	1/4	3,538.94	1/4	3,171.93	1/4	2,804.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,999.33	1/2	4,632.32	1/2	4,265.31	1/2	3,898.30	1/2	3,531.29	1/2	3,164.28	1/2	2,797.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.68	3/4	4,624.67	3/4	4,257.66	3/4	3,890.66	3/4	3,523.65	3/4	3,156.64	3/4	2,789.63		
2		2		2		2	4,984.04	2	4,617.02	2	4,250.01	2	3,883.01	2	3,516.00	2	3,148.99	2	2,781.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,976.39	1/4	4,609.38	1/4	4,242.37	1/4	3,875.36	1/4	3,508.35	1/4	3,141.35	1/4	2,774.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,968.75	1/2	4,601.73	1/2	4,234.72	1/2	3,867.72	1/2	3,500.71	1/2	3,133.70	1/2	2,766.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,961.10	3/4	4,594.09	3/4	4,227.08	3/4	3,860.07	3/4	3,493.06	3/4	3,126.06	3/4	2,759.05		
3		3		3		3	4,953.45	3	4,586.44	3	4,219.43	3	3,852.42	3	3,485.41	3	3,118.41	3	2,751.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,945.81	1/4	4,578.79	1/4	4,211.79	1/4	3,844.78	1/4	3,477.77	1/4	3,110.76	1/4	2,743.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,938.16	1/2	4,571.15	1/2	4,204.14	1/2	3,837.13	1/2	3,470.12	1/2	3,103.12	1/2	2,736.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,930.51	3/4	4,563.50	3/4	4,196.50	3/4	3,829.49	3/4	3,462.48	3/4	3,095.47	3/4	2,728.46		
4		4		4		4	4,922.87	4	4,555.85	4	4,188.85	4	3,821.84	4	3,454.83	4	3,087.82	4	2,720.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,915.22	1/4	4,548.21	1/4	4,181.20	1/4	3,814.19	1/4	3,447.19	1/4	3,080.18	1/4	2,713.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,907.58	1/2	4,540.56	1/2	4,173.56	1/2	3,806.55	1/2	3,439.54	1/2	3,072.53	1/2	2,705.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,182.72	3/4	4,899.93	3/4	4,532.92	3/4	4,165.91	3/4	3,798.90	3/4	3,431.90	3/4	3,064.89	3/4	2,697.88
5		5		5		5	4,881.86	5	4,525.27	5	4,158.26	5	3,791.25	5	3,424.25	5	3,057.24	5	2,690.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,181.00	1/4	4,884.64	1/4	4,517.63	1/4	4,150.62	1/4	3,783.61	1/4	3,416.60	1/4	3,049.59	1/4	2,682.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,180.14	1/2	4,876.99	1/2	4,509.98	1/2	4,142.97	1/2	3,775.96	1/2	3,408.96	1/2	3,041.95	1/2	2,674.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,179.28	3/4	4,869.34	3/4	4,502.34	3/4	4,135.33	3/4	3,768.32	3/4	3,401.31	3/4	3,034.30	3/4	2,667.30
6		6		6		6	5,177.20	6	4,861.70	6	4,494.69	6	4,127.68	6	3,760.67	6	3,393.66	6	3,026.65	6	2,659.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,175.12	1/4	4,854.05	1/4	4,487.04	1/4	4,120.03	1/4	3,753.03	1/4	3,386.02	1/4	3,019.01	1/4	2,652.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,173.04	1/2	4,846.40	1/2	4,479.40	1/2	4,112.39	1/2	3,745.38	1/2	3,378.37	1/2	3,011.36	1/2	2,644.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,170.96	3/4	4,838.76	3/4	4,471.75	3/4	4,104.74	3/4	3,737.74	3/4	3,370.73	3/4	3,003.72	3/4	2,636.71
7		7		7		7	5,167.49	7	4,831.11	7	4,464.10	7	4,097.09	7	3,730.09	7	3,363.08	7	2,996.07	7	2,629.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,164.02	1/4	4,823.47	1/4	4,456.46	1/4	4,089.45	1/4	3,722.44	1/4	3,355.43	1/4	2,988.43	1/4	2,621.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,160.54	1/2	4,815.82	1/2	4,448.81	1/2	4,081.80	1/2	3,714.80	1/2	3,347.79	1/2	2,980.78	1/2	2,613.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,157.07	3/4	4,808.18	3/4	4,441.17	3/4	4,074.16	3/4	3,707.15	3/4	3,340.14	3/4	2,973.14	3/4	2,606.13
8		8		8		8	5,152.21	8	4,800.53	8	4,433.52	8	4,066.51	8	3,699.50	8	3,332.49	8	2,965.49	8	2,598.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,147.35	1/4	4,792.88	1/4	4,425.87	1/4	4,058.87	1/4	3,691.86	1/4	3,324.85	1/4	2,957.84	1/4	2,590.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,142.48	1/2	4,785.24	1/2	4,418.23	1/2	4,051.22	1/2	3,684.21	1/2	3,317.20	1/2	2,950.20	1/2	2,583.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,137.62	3/4	4,777.59	3/4	4,410.58	3/4	4,043.58	3/4	3,676.57	3/4	3,309.56	3/4	2,942.55	3/4	2,575.54
9		9		9		9	5,131.37	9	4,769.94	9	4,402.93	9	4,035.93	9	3,668.92	9	3,301.91	9	2,934.90	9	2,567.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,125.12	1/4	4,762.30	1/4	4,395.29	1/4	4,028.28	1/4	3,661.27	1/4	3,294.27	1/4	2,927.26	1/4	2,560.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,118.87	1/2	4,754.65	1/2	4,387.64	1/2	4,020.64	1/2	3,653.63	1/2	3,286.62	1/2	2,919.61	1/2	2,552.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,112.62	3/4	4,747.01	3/4	4,380.00	3/4	4,012.99	3/4	3,645.98	3/4	3,278.98	3/4	2,911.97	3/4	2,544.96
10		10		10		10	5,105.32	10	4,739.36	10	4,372.35	10	4,005.34	10	3,638.33	10	3,271.33	10	2,904.32	10	2,537.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,098.03	1/4	4,731.71	1/4	4,364.71	1/4	3,997.70	1/4	3,630.69	1/4	3,263.68	1/4	2,896.67	1/4	2,529.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,090.73	1/2	4,724.07	1/2	4,357.06	1/2	3,990.05	1/2	3,623.04	1/2	3,256.04	1/2	2,889.03	1/2	2,522.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,083.43	3/4	4,716.42	3/4	4,349.42	3/4	3,982.41	3/4	3,615.40	3/4	3,248.39	3/4	2,881.38	3/4	2,514.38
11		11		11		11	5,075.79	11	4,708.77	11	4,341.77	11	3,974.76	11	3,607.75	11	3,240.74	11	2,873.73	11	2,506.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,068.14	1/4	4,701.13	1/4	4,334.12	1/4	3,967.11	1/4	3,600.11	1/4	3,233.10	1/4	2,866.09	1/4	2,499.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,060.50	1/2	4,693.48	1/2	4,326.48	1/2	3,959.47	1/2	3,592.46	1/2	3,225.45	1/2	2,858.44	1/2	2,491.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,052.85	3/4	4,685.84	3/4	4,318.83	3/4	3,951.82	3/4	3,584.82	3/4	3,217.81	3/4	2,850.80	3/4	2,483.79

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" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 46'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "MMI 3032"

1 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-10 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,476.14	0	2,109.13	0	1,742.13	0	1,375.12	0	1,008.11	0	641.10	0	281.71	0		0		0	
1/4	2,468.50	1/4	2,101.49	1/4	1,734.48	1/4	1,367.47	1/4	1,000.47	1/4	633.46	1/4	274.52	1/4	1/4		1/4	1/4	1/4
1/2	2,460.85	1/2	2,093.84	1/2	1,726.84	1/2	1,359.83	1/2	992.82	1/2	625.81	1/2	267.33	1/2	1/2		1/2	1/2	1/2
3/4	2,453.21	3/4	2,086.20	3/4	1,719.19	3/4	1,352.18	3/4	985.18	3/4	618.17	3/4	260.14	3/4	3/4		3/4	3/4	3/4
1	2,445.56	1	2,078.55	1	1,711.54	1	1,344.53	1	977.53	1	610.52	1	253.16	1	1		1	1	1
1/4	2,437.91	1/4	2,070.91	1/4	1,703.90	1/4	1,336.89	1/4	969.88	1/4	602.87	1/4	246.19	1/4	1/4		1/4	1/4	1/4
1/2	2,430.27	1/2	2,063.26	1/2	1,696.25	1/2	1,329.24	1/2	962.24	1/2	595.23	1/2	239.21	1/2	1/2		1/2	1/2	1/2
3/4	2,422.62	3/4	2,055.62	3/4	1,688.61	3/4	1,321.60	3/4	954.59	3/4	587.58	3/4	232.24	3/4	3/4		3/4	3/4	3/4
2	2,414.97	2	2,047.97	2	1,680.96	2	1,313.95	2	946.94	2	579.93	2	225.26	2	2		2	2	2
1/4	2,407.33	1/4	2,040.32	1/4	1,673.31	1/4	1,306.31	1/4	939.30	1/4	572.29	1/4	218.29	1/4	1/4		1/4	1/4	1/4
1/2	2,399.68	1/2	2,032.68	1/2	1,665.67	1/2	1,298.66	1/2	931.65	1/2	564.64	1/2	211.31	1/2	1/2		1/2	1/2	1/2
3/4	2,392.04	3/4	2,025.03	3/4	1,658.02	3/4	1,291.02	3/4	924.01	3/4	557.00	3/4	204.34	3/4	3/4		3/4	3/4	3/4
3	2,384.39	3	2,017.38	3	1,650.37	3	1,283.37	3	916.36	3	549.35	3	197.36	3	3		3	3	3
1/4	2,376.75	1/4	2,009.74	1/4	1,642.73	1/4	1,275.72	1/4	908.71	1/4	541.71	1/4	190.38	1/4	1/4		1/4	1/4	1/4
1/2	2,369.10	1/2	2,002.09	1/2	1,635.08	1/2	1,268.08	1/2	901.07	1/2	534.06	1/2	183.41	1/2	1/2		1/2	1/2	1/2
3/4	2,361.46	3/4	1,994.45	3/4	1,627.44	3/4	1,260.43	3/4	893.42	3/4	526.42	3/4	176.43	3/4	3/4		3/4	3/4	3/4
4	2,353.81	4	1,986.80	4	1,619.79	4	1,252.78	4	885.77	4	518.77	4	169.66	4	4		4	4	4
1/4	2,346.16	1/4	1,979.15	1/4	1,612.15	1/4	1,245.14	1/4	878.13	1/4	511.12	1/4	162.90	1/4	1/4		1/4	1/4	1/4
1/2	2,338.52	1/2	1,971.51	1/2	1,604.50	1/2	1,237.49	1/2	870.48	1/2	503.48	1/2	156.13	1/2	1/2		1/2	1/2	1/2
3/4	2,330.87	3/4	1,963.86	3/4	1,596.86	3/4	1,229.85	3/4	862.84	3/4	495.83	3/4	149.37	3/4	3/4		3/4	3/4	3/4
5	2,323.22	5	1,956.21	5	1,589.21	5	1,222.20	5	855.19	5	488.25	5	142.60	5	5		5	5	5
1/4	2,315.58	1/4	1,948.57	1/4	1,581.56	1/4	1,214.55	1/4	847.55	1/4	480.68	1/4	135.83	1/4	1/4		1/4	1/4	1/4
1/2	2,307.93	1/2	1,940.92	1/2	1,573.92	1/2	1,206.91	1/2	839.90	1/2	473.10	1/2	129.07	1/2	1/2		1/2	1/2	1/2
3/4	2,300.29	3/4	1,933.28	3/4	1,566.27	3/4	1,199.26	3/4	832.26	3/4	465.53	3/4	122.30	3/4	3/4		3/4	3/4	3/4
6	2,292.64	6	1,925.63	6	1,558.62	6	1,191.61	6	824.61	6	457.95	6	115.81	6	6		6	6	6
1/4	2,284.99	1/4	1,917.99	1/4	1,550.98	1/4	1,183.97	1/4	816.96	1/4	450.37	1/4	109.33	1/4	1/4		1/4	1/4	1/4
1/2	2,277.35	1/2	1,910.34	1/2	1,543.33	1/2	1,176.32	1/2	809.32	1/2	442.80	1/2	102.84	1/2	1/2		1/2	1/2	1/2
3/4	2,269.70	3/4	1,902.70	3/4	1,535.69	3/4	1,168.68	3/4	801.67	3/4	435.22	3/4	96.36	3/4	3/4		3/4	3/4	3/4
7	2,262.05	7	1,895.05	7	1,528.04	7	1,161.03	7	794.02	7	427.82	7	90.08	7	7		7	7	7
1/4	2,254.41	1/4	1,887.40	1/4	1,520.39	1/4	1,153.39	1/4	786.38	1/4	420.42	1/4	83.81	1/4	1/4		1/4	1/4	1/4
1/2	2,246.76	1/2	1,879.76	1/2	1,512.75	1/2	1,145.74	1/2	778.73	1/2	413.02	1/2	77.53	1/2	1/2		1/2	1/2	1/2
3/4	2,239.12	3/4	1,872.11	3/4	1,505.10	3/4	1,138.10	3/4	771.09	3/4	405.62	3/4	71.26	3/4	3/4		3/4	3/4	3/4
8	2,231.47	8	1,864.46	8	1,497.45	8	1,130.45	8	763.44	8	398.22	8	65.15	8	8		8	8	8
1/4	2,223.83	1/4	1,856.82	1/4	1,489.81	1/4	1,122.80	1/4	755.79	1/4	390.82	1/4	59.04	1/4	1/4		1/4	1/4	1/4
1/2	2,216.18	1/2	1,849.17	1/2	1,482.16	1/2	1,115.16	1/2	748.15	1/2	383.42	1/2	52.93	1/2	1/2		1/2	1/2	1/2
3/4	2,208.54	3/4	1,841.53	3/4	1,474.52	3/4	1,107.51	3/4	740.50	3/4	376.02	3/4	46.82	3/4	3/4		3/4	3/4	3/4
9	2,200.89	9	1,833.88	9	1,466.87	9	1,099.86	9	732.85	9	368.62	9	41.88	9	9		9	9	9
1/4	2,193.24	1/4	1,826.23	1/4	1,459.23	1/4	1,092.22	1/4	725.21	1/4	361.22	1/4	36.95	1/4	1/4		1/4	1/4	1/4
1/2	2,185.60	1/2	1,818.59	1/2	1,451.58	1/2	1,084.57	1/2	717.56	1/2	353.82	1/2	32.01	1/2	1/2		1/2	1/2	1/2
3/4	2,177.95	3/4	1,810.94	3/4	1,443.94	3/4	1,076.93	3/4	709.92	3/4	346.42	3/4	27.08	3/4	3/4		3/4	3/4	3/4
10	2,170.30	10	1,803.29	10	1,436.29	10	1,069.28	10	702.27	10	339.23	10	23.70	10	10		10	10	10
1/4	2,162.66	1/4	1,795.65	1/4	1,428.64	1/4	1,061.63	1/4	694.63	1/4	332.04	1/4	20.32	1/4	1/4		1/4	1/4	1/4
1/2	2,155.01	1/2	1,788.00	1/2	1,421.00	1/2	1,053.99	1/2	686.98	1/2	324.85	1/2	16.94	1/2	1/2		1/2	1/2	1/2
3/4	2,147.37	3/4	1,780.36	3/4	1,413.35	3/4	1,046.34	3/4	679.34	3/4	317.66	3/4	13.56	3/4	3/4		3/4	3/4	3/4
11	2,139.72	11	1,772.71	11	1,405.70	11	1,038.69	11	671.69	11	310.47	11		11	11		11	11	11
1/4	2,132.07	1/4	1,765.07	1/4	1,398.06	1/4	1,031.05	1/4	664.04	1/4	303.28	1/4		1/4	1/4		1/4	1/4	1/4
1/2	2,124.43	1/2	1,757.42	1/2	1,390.41	1/2	1,023.40	1/2	656.40	1/2	296.09	1/2		1/2	1/2		1/2	1/2	1/2
3/4	2,116.78	3/4	1,749.78	3/4	1,382.77	3/4	1,015.76	3/4	648.75	3/4	288.90	3/4		3/4	3/4		3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2003 INSP.
 RECALCULATED: 10/27/2023 JS
 VERIFIED: 10/27/2023 JS

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
 ALL PRIOR TO 10/2023



BARGE "MMI 3032"

2 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-11"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,786.72	0	4,441.89	0	4,097.06	0	3,752.22	0	3,407.39	0	3,062.56	0	2,717.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,779.54	1/4	4,434.70	1/4	4,089.87	1/4	3,745.04	1/4	3,400.21	1/4	3,055.37	1/4	2,710.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,772.35	1/2	4,427.52	1/2	4,082.69	1/2	3,737.85	1/2	3,393.02	1/2	3,048.19	1/2	2,703.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,765.16	3/4	4,420.33	3/4	4,075.50	3/4	3,730.67	3/4	3,385.84	3/4	3,041.00	3/4	2,696.17		
1	1	1	1	1	1	1	4,757.98	1	4,413.15	1	4,068.32	1	3,723.49	1	3,378.66	1	3,038.82	1	2,688.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,750.80	1/4	4,405.97	1/4	4,061.13	1/4	3,716.30	1/4	3,371.47	1/4	3,026.64	1/4	2,681.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,743.61	1/2	4,398.78	1/2	4,053.95	1/2	3,709.12	1/2	3,364.29	1/2	3,019.45	1/2	2,674.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,736.43	3/4	4,391.60	3/4	4,046.76	3/4	3,701.93	3/4	3,357.10	3/4	3,012.27	3/4	2,667.44		
2	2	2	2	2	2	2	4,729.25	2	4,384.42	2	4,039.58	2	3,694.75	2	3,349.92	2	3,005.09	2	2,660.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,722.06	1/4	4,377.23	1/4	4,032.40	1/4	3,687.57	1/4	3,342.73	1/4	2,997.90	1/4	2,653.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,714.88	1/2	4,370.05	1/2	4,025.21	1/2	3,680.38	1/2	3,335.55	1/2	2,990.72	1/2	2,645.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,707.69	3/4	4,362.86	3/4	4,018.03	3/4	3,673.20	3/4	3,328.36	3/4	2,983.53	3/4	2,638.70		
3	3	3	3	3	3	3	4,700.51	3	4,355.68	3	4,010.85	3	3,666.02	3	3,321.18	3	2,976.35	3	2,631.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,693.33	1/4	4,348.49	1/4	4,003.66	1/4	3,658.83	1/4	3,314.00	1/4	2,969.17	1/4	2,624.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,686.14	1/2	4,341.31	1/2	3,996.48	1/2	3,651.65	1/2	3,306.81	1/2	2,961.98	1/2	2,617.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.96	3/4	4,334.12	3/4	3,989.29	3/4	3,644.46	3/4	3,299.63	3/4	2,954.80	3/4	2,609.96		
4	4	4	4	4	4	4	4,671.78	4	4,326.94	4	3,982.11	4	3,637.28	4	3,292.45	4	2,947.62	4	2,602.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,664.59	1/4	4,319.76	1/4	3,974.93	1/4	3,630.09	1/4	3,285.26	1/4	2,940.43	1/4	2,595.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,657.41	1/2	4,312.57	1/2	3,967.74	1/2	3,622.91	1/2	3,278.08	1/2	2,933.25	1/2	2,588.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,650.22	3/4	4,305.39	3/4	3,960.56	3/4	3,615.72	3/4	3,270.89	3/4	2,926.06	3/4	2,581.23		
5	5	5	5	5	5	5	4,908.74	5	4,643.04	5	4,298.21	5	3,953.38	5	3,608.54	5	3,263.71	5	2,918.88	5	2,574.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,907.93	1/4	4,635.85	1/4	4,291.02	1/4	3,946.19	1/4	3,601.36	1/4	3,256.53	1/4	2,911.69	1/4	2,566.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,907.12	1/2	4,628.67	1/2	4,283.84	1/2	3,939.01	1/2	3,594.17	1/2	3,249.34	1/2	2,904.51	1/2	2,559.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,906.31	3/4	4,621.48	3/4	4,276.65	3/4	3,931.82	3/4	3,586.99	3/4	3,242.16	3/4	2,897.32	3/4	2,552.49
6	6	6	6	6	6	6	4,905.50	6	4,614.30	6	4,269.47	6	3,924.64	6	3,579.81	6	3,234.98	6	2,890.14	6	2,545.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,905.55	1/4	4,607.12	1/4	4,262.29	1/4	3,917.45	1/4	3,572.62	1/4	3,227.79	1/4	2,882.96	1/4	2,538.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,901.60	1/2	4,599.93	1/2	4,255.10	1/2	3,910.27	1/2	3,565.44	1/2	3,220.61	1/2	2,875.77	1/2	2,530.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,899.64	3/4	4,592.75	3/4	4,247.92	3/4	3,903.08	3/4	3,558.25	3/4	3,213.42	3/4	2,868.59	3/4	2,523.76
7	7	7	7	7	7	7	4,897.69	7	4,585.57	7	4,240.74	7	3,895.90	7	3,551.07	7	3,206.24	7	2,861.41	7	2,516.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,894.43	1/4	4,578.38	1/4	4,233.55	1/4	3,888.72	1/4	3,543.89	1/4	3,199.05	1/4	2,854.22	1/4	2,509.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,891.17	1/2	4,571.20	1/2	4,226.37	1/2	3,881.53	1/2	3,536.70	1/2	3,191.87	1/2	2,847.04	1/2	2,502.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,887.90	3/4	4,564.01	3/4	4,219.18	3/4	3,874.35	3/4	3,529.52	3/4	3,184.68	3/4	2,839.85	3/4	2,495.02
8	8	8	8	8	8	8	4,884.64	8	4,556.83	8	4,212.00	8	3,867.17	8	3,522.34	8	3,177.50	8	2,832.67	8	2,487.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,880.07	1/4	4,549.65	1/4	4,204.81	1/4	3,859.98	1/4	3,515.15	1/4	3,170.32	1/4	2,825.49	1/4	2,480.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,875.51	1/2	4,542.46	1/2	4,197.63	1/2	3,852.80	1/2	3,507.97	1/2	3,163.13	1/2	2,818.30	1/2	2,473.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,870.94	3/4	4,535.28	3/4	4,190.44	3/4	3,845.61	3/4	3,500.78	3/4	3,155.95	3/4	2,811.12	3/4	2,466.28
9	9	9	9	9	9	9	4,866.37	9	4,528.10	9	4,183.26	9	3,838.43	9	3,493.60	9	3,148.77	9	2,803.94	9	2,459.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,860.50	1/4	4,520.91	1/4	4,176.08	1/4	3,831.25	1/4	3,486.41	1/4	3,141.58	1/4	2,796.75	1/4	2,451.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,854.63	1/2	4,513.73	1/2	4,168.89	1/2	3,824.06	1/2	3,479.23	1/2	3,134.40	1/2	2,789.57	1/2	2,444.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,848.75	3/4	4,506.54	3/4	4,161.71	3/4	3,816.88	3/4	3,472.04	3/4	3,127.21	3/4	2,782.38	3/4	2,437.55
10	10	10	10	10	10	10	4,842.88	10	4,499.36	10	4,154.53	10	3,809.70	10	3,464.86	10	3,120.03	10	2,775.20	10	2,430.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,836.03	1/4	4,492.17	1/4	4,147.34	1/4	3,802.51	1/4	3,457.68	1/4	3,112.85	1/4	2,768.01	1/4	2,423.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,829.17	1/2	4,484.99	1/2	4,140.16	1/2	3,795.33	1/2	3,450.49	1/2	3,105.66	1/2	2,760.83	1/2	2,416.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,822.32	3/4	4,477.80	3/4	4,132.97	3/4	3,788.14	3/4	3,443.31	3/4	3,098.48	3/4	2,753.64	3/4	2,408.82
11	11	11	11	11	11	11	4,815.46	11	4,470.62	11	4,125.79	11	3,780.96	11	3,436.13	11	3,091.30	11	2,746.46	11	2,401.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,808.28	1/4	4,463.44	1/4	4,118.61	1/4	3,773.77	1/4	3,428.94	1/4	3,084.11	1/4	2,739.28	1/4	2,394.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,801.09	1/2	4,456.25	1/2	4,111.42	1/2	3,766.59	1/2	3,421.76	1/2	3,076.93	1/2	2,732.09	1/2	2,387.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.91	3/4	4,449.07	3/4	4,104.24	3/4	3,759.40	3/4	3,414.57	3/4	3,069.74	3/4	2,724.91	3/4	2,380.08

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" GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MMI 3032"

2 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-11"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,372.90	0	2,028.06	0	1,683.23	0	1,338.40	0	993.57	0	648.74	0	303.90	0		0		0	
1/4	2,365.72	1/4	2,020.88	1/4	1,676.05	1/4	1,331.22	1/4	986.39	1/4	641.56	1/4	296.72	1/4	1/4	1/4		1/4	
1/2	2,358.53	1/2	2,013.70	1/2	1,668.87	1/2	1,324.03	1/2	979.20	1/2	634.37	1/2	289.54	1/2	1/2	1/2		1/2	
3/4	2,351.35	3/4	2,006.51	3/4	1,661.68	3/4	1,316.85	3/4	972.02	3/4	627.19	3/4	282.35	3/4	3/4	3/4		3/4	
1	2,344.16	1	1,999.33	1	1,654.50	1	1,309.66	1	964.83	1	620.00	1	275.17	1	1	1		1	
1/4	2,336.98	1/4	1,992.15	1/4	1,647.32	1/4	1,302.48	1/4	957.65	1/4	612.82	1/4	267.99	1/4	1/4	1/4		1/4	
1/2	2,329.79	1/2	1,984.96	1/2	1,640.13	1/2	1,295.30	1/2	950.47	1/2	605.63	1/2	260.80	1/2	1/2	1/2		1/2	
3/4	2,322.61	3/4	1,977.78	3/4	1,632.95	3/4	1,288.11	3/4	943.28	3/4	598.45	3/4	253.62	3/4	3/4	3/4		3/4	
2	2,315.42	2	1,970.59	2	1,625.76	2	1,280.93	2	936.10	2	591.26	2	246.43	2	2	2		2	
1/4	2,308.24	1/4	1,963.41	1/4	1,618.58	1/4	1,273.75	1/4	928.92	1/4	584.08	1/4	239.25	1/4	1/4	1/4		1/4	
1/2	2,301.06	1/2	1,956.23	1/2	1,611.39	1/2	1,266.56	1/2	921.73	1/2	576.90	1/2	232.07	1/2	1/2	1/2		1/2	
3/4	2,293.87	3/4	1,949.04	3/4	1,604.21	3/4	1,259.38	3/4	914.55	3/4	569.71	3/4	224.88	3/4	3/4	3/4		3/4	
3	2,286.69	3	1,941.86	3	1,597.02	3	1,252.19	3	907.36	3	562.53	3	217.70	3	3	3		3	
1/4	2,279.51	1/4	1,934.68	1/4	1,589.84	1/4	1,245.01	1/4	900.18	1/4	555.35	1/4	210.52	1/4	1/4	1/4		1/4	
1/2	2,272.32	1/2	1,927.49	1/2	1,582.66	1/2	1,237.83	1/2	892.99	1/2	548.16	1/2	203.33	1/2	1/2	1/2		1/2	
3/4	2,265.14	3/4	1,920.31	3/4	1,575.47	3/4	1,230.64	3/4	885.81	3/4	540.98	3/4	196.15	3/4	3/4	3/4		3/4	
4	2,257.95	4	1,913.12	4	1,568.29	4	1,223.46	4	878.62	4	533.79	4	188.96	4	4	4		4	
1/4	2,250.77	1/4	1,905.94	1/4	1,561.11	1/4	1,216.28	1/4	871.44	1/4	526.61	1/4	181.78	1/4	1/4	1/4		1/4	
1/2	2,243.59	1/2	1,898.75	1/2	1,553.92	1/2	1,209.09	1/2	864.26	1/2	519.43	1/2	174.59	1/2	1/2	1/2		1/2	
3/4	2,236.40	3/4	1,891.57	3/4	1,546.74	3/4	1,201.91	3/4	857.07	3/4	512.24	3/4	167.41	3/4	3/4	3/4		3/4	
5	2,229.22	5	1,884.38	5	1,539.55	5	1,194.72	5	849.89	5	505.06	5	160.22	5	5	5		5	
1/4	2,222.04	1/4	1,877.20	1/4	1,532.37	1/4	1,187.54	1/4	842.71	1/4	497.88	1/4	153.04	1/4	1/4	1/4		1/4	
1/2	2,214.85	1/2	1,870.02	1/2	1,525.19	1/2	1,180.35	1/2	835.52	1/2	490.69	1/2	145.86	1/2	1/2	1/2		1/2	
3/4	2,207.67	3/4	1,862.83	3/4	1,518.00	3/4	1,173.17	3/4	828.34	3/4	483.51	3/4	138.67	3/4	3/4	3/4		3/4	
6	2,200.48	6	1,855.65	6	1,510.82	6	1,165.98	6	821.15	6	476.32	6	131.49	6	6	6		6	
1/4	2,193.30	1/4	1,848.47	1/4	1,503.64	1/4	1,158.80	1/4	813.97	1/4	469.14	1/4	124.57	1/4	1/4	1/4		1/4	
1/2	2,186.11	1/2	1,841.28	1/2	1,496.45	1/2	1,151.62	1/2	806.79	1/2	461.95	1/2	117.65	1/2	1/2	1/2		1/2	
3/4	2,178.93	3/4	1,834.10	3/4	1,489.27	3/4	1,144.43	3/4	799.60	3/4	454.77	3/4	110.73	3/4	3/4	3/4		3/4	
7	2,171.74	7	1,826.91	7	1,482.08	7	1,137.25	7	792.42	7	447.58	7	103.81	7	7	7		7	
1/4	2,164.56	1/4	1,819.73	1/4	1,474.90	1/4	1,130.07	1/4	785.24	1/4	440.40	1/4	96.89	1/4	1/4	1/4		1/4	
1/2	2,157.38	1/2	1,812.55	1/2	1,467.71	1/2	1,122.88	1/2	778.05	1/2	433.22	1/2	89.97	1/2	1/2	1/2		1/2	
3/4	2,150.19	3/4	1,805.36	3/4	1,460.53	3/4	1,115.70	3/4	770.87	3/4	426.03	3/4	83.05	3/4	3/4	3/4		3/4	
8	2,143.01	8	1,798.18	8	1,453.34	8	1,108.51	8	763.68	8	418.85	8	76.13	8	8	8		8	
1/4	2,135.83	1/4	1,791.00	1/4	1,446.16	1/4	1,101.33	1/4	756.50	1/4	411.67	1/4	69.41	1/4	1/4	1/4		1/4	
1/2	2,128.64	1/2	1,783.81	1/2	1,438.98	1/2	1,094.15	1/2	749.31	1/2	404.48	1/2	62.69	1/2	1/2	1/2		1/2	
3/4	2,121.46	3/4	1,776.63	3/4	1,431.79	3/4	1,086.96	3/4	742.13	3/4	397.30	3/4	55.97	3/4	3/4	3/4		3/4	
9	2,114.27	9	1,769.44	9	1,424.61	9	1,079.78	9	734.94	9	390.11	9	49.25	9	9	9		9	
1/4	2,107.09	1/4	1,762.26	1/4	1,417.43	1/4	1,072.60	1/4	727.76	1/4	382.93	1/4	43.93	1/4	1/4	1/4		1/4	
1/2	2,099.91	1/2	1,755.07	1/2	1,410.24	1/2	1,065.41	1/2	720.58	1/2	375.75	1/2	38.61	1/2	1/2	1/2		1/2	
3/4	2,092.72	3/4	1,747.89	3/4	1,403.06	3/4	1,058.23	3/4	713.39	3/4	368.56	3/4	33.28	3/4	3/4	3/4		3/4	
10	2,085.54	10	1,740.70	10	1,395.87	10	1,051.04	10	706.21	10	361.38	10	27.96	10	10	10		10	
1/4	2,078.36	1/4	1,733.52	1/4	1,388.69	1/4	1,043.86	1/4	699.03	1/4	354.20	1/4	24.24	1/4	1/4	1/4		1/4	
1/2	2,071.17	1/2	1,726.34	1/2	1,381.51	1/2	1,036.67	1/2	691.84	1/2	347.01	1/2	20.52	1/2	1/2	1/2		1/2	
3/4	2,063.99	3/4	1,719.15	3/4	1,374.32	3/4	1,029.49	3/4	684.66	3/4	339.83	3/4	16.80	3/4	3/4	3/4		3/4	
11	2,056.80	11	1,711.97	11	1,367.14	11	1,022.30	11	677.47	11	332.64	11	13.08	11	11	11		11	
1/4	2,049.62	1/4	1,704.79	1/4	1,359.96	1/4	1,015.12	1/4	670.29	1/4	325.46	1/4		1/4	1/4	1/4		1/4	
1/2	2,042.43	1/2	1,697.60	1/2	1,352.77	1/2	1,007.94	1/2	663.11	1/2	318.27	1/2		1/2	1/2	1/2		1/2	
3/4	2,035.25	3/4	1,690.42	3/4	1,345.59	3/4	1,000.75	3/4	655.92	3/4	311.09	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2003 INSP.
RECALCULATED: 10/27/2023 JS
VERIFIED: 10/27/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MMI 3032"

2 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-11"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,786.72		4,441.89		4,097.06		3,752.22		3,407.39		3,062.56		2,717.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,779.54	1/4	4,434.70	1/4	4,089.87	1/4	3,745.04	1/4	3,400.21	1/4	3,055.37	1/4	2,710.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,772.35	1/2	4,427.52	1/2	4,082.69	1/2	3,737.85	1/2	3,393.02	1/2	3,048.19	1/2	2,703.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,765.16	3/4	4,420.33	3/4	4,075.50	3/4	3,730.67	3/4	3,385.84	3/4	3,041.00	3/4	2,696.17		
1	1	1	1	1	1	1	4,413.15	1	4,068.32	1	4,068.32	1	3,723.49	1	3,378.66	1	3,033.82	1	2,688.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,750.80	1/4	4,405.97	1/4	4,061.13	1/4	3,716.30	1/4	3,371.47	1/4	3,026.64	1/4	2,681.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,743.61	1/2	4,398.78	1/2	4,053.95	1/2	3,709.12	1/2	3,364.29	1/2	3,019.45	1/2	2,674.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,736.43	3/4	4,391.60	3/4	4,046.76	3/4	3,701.93	3/4	3,357.10	3/4	3,012.27	3/4	2,667.44		
2	2	2	2	2	2	2	4,729.25	2	4,384.42	2	4,039.58	2	3,694.75	2	3,349.92	2	3,005.09	2	2,660.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,722.06	1/4	4,377.23	1/4	4,032.40	1/4	3,687.57	1/4	3,342.73	1/4	2,997.90	1/4	2,653.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,714.88	1/2	4,370.05	1/2	4,025.21	1/2	3,680.38	1/2	3,335.55	1/2	2,990.72	1/2	2,645.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,707.69	3/4	4,362.86	3/4	4,018.03	3/4	3,673.20	3/4	3,328.36	3/4	2,983.53	3/4	2,638.70		
3	3	3	3	3	3	3	4,700.51	3	4,355.68	3	4,010.85	3	3,666.02	3	3,321.18	3	2,976.35	3	2,631.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,693.33	1/4	4,348.49	1/4	4,003.66	1/4	3,658.83	1/4	3,314.00	1/4	2,969.17	1/4	2,624.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,686.14	1/2	4,341.31	1/2	3,996.48	1/2	3,651.65	1/2	3,306.81	1/2	2,961.98	1/2	2,617.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.96	3/4	4,334.12	3/4	3,989.29	3/4	3,644.46	3/4	3,299.63	3/4	2,954.80	3/4	2,609.96		
4	4	4	4	4	4	4	4,671.78	4	4,326.94	4	3,982.11	4	3,637.28	4	3,292.45	4	2,947.62	4	2,602.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,664.59	1/4	4,319.76	1/4	3,974.93	1/4	3,630.09	1/4	3,285.26	1/4	2,940.43	1/4	2,595.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,657.41	1/2	4,312.57	1/2	3,967.74	1/2	3,622.91	1/2	3,278.08	1/2	2,933.25	1/2	2,588.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,650.22	3/4	4,305.39	3/4	3,960.56	3/4	3,615.72	3/4	3,270.89	3/4	2,926.06	3/4	2,581.23		
5	5	5	4,908.74	5	4,643.04	5	4,298.21	5	3,953.38	5	3,608.54	5	3,263.71	5	2,918.88	5	2,574.05				
1/4	1/4	1/4	4,907.93	1/4	4,635.85	1/4	4,291.02	1/4	3,946.19	1/4	3,601.36	1/4	3,256.53	1/4	2,911.69	1/4	2,566.86				
1/2	1/2	1/2	4,907.12	1/2	4,628.67	1/2	4,283.84	1/2	3,939.01	1/2	3,594.17	1/2	3,249.34	1/2	2,904.51	1/2	2,559.68				
3/4	3/4	3/4	4,906.31	3/4	4,621.48	3/4	4,276.65	3/4	3,931.82	3/4	3,586.99	3/4	3,242.16	3/4	2,897.32	3/4	2,552.49				
6	6	6	4,905.50	6	4,614.30	6	4,269.47	6	3,924.64	6	3,579.81	6	3,234.98	6	2,890.14	6	2,545.31				
1/4	1/4	1/4	4,903.55	1/4	4,607.12	1/4	4,262.29	1/4	3,917.45	1/4	3,572.62	1/4	3,227.79	1/4	2,882.96	1/4	2,538.13				
1/2	1/2	1/2	4,901.60	1/2	4,599.93	1/2	4,255.10	1/2	3,910.27	1/2	3,565.44	1/2	3,220.61	1/2	2,875.77	1/2	2,530.94				
3/4	3/4	3/4	4,899.64	3/4	4,592.75	3/4	4,247.92	3/4	3,903.08	3/4	3,558.25	3/4	3,213.42	3/4	2,868.59	3/4	2,523.76				
7	7	7	4,897.69	7	4,585.57	7	4,240.74	7	3,895.90	7	3,551.07	7	3,206.24	7	2,861.41	7	2,516.58				
1/4	1/4	1/4	4,894.43	1/4	4,578.38	1/4	4,233.55	1/4	3,888.72	1/4	3,543.89	1/4	3,199.05	1/4	2,854.22	1/4	2,509.39				
1/2	1/2	1/2	4,891.17	1/2	4,571.20	1/2	4,226.37	1/2	3,881.53	1/2	3,536.70	1/2	3,191.87	1/2	2,847.04	1/2	2,502.21				
3/4	3/4	3/4	4,887.90	3/4	4,564.01	3/4	4,219.18	3/4	3,874.35	3/4	3,529.52	3/4	3,184.68	3/4	2,839.85	3/4	2,495.02				
8	8	8	4,884.64	8	4,556.83	8	4,212.00	8	3,867.17	8	3,522.34	8	3,177.50	8	2,832.67	8	2,487.84				
1/4	1/4	1/4	4,880.07	1/4	4,549.65	1/4	4,204.81	1/4	3,859.98	1/4	3,515.15	1/4	3,170.32	1/4	2,825.49	1/4	2,480.65				
1/2	1/2	1/2	4,875.51	1/2	4,542.46	1/2	4,197.63	1/2	3,852.80	1/2	3,507.97	1/2	3,163.13	1/2	2,818.30	1/2	2,473.47				
3/4	3/4	3/4	4,870.94	3/4	4,535.28	3/4	4,190.44	3/4	3,845.61	3/4	3,500.78	3/4	3,155.95	3/4	2,811.12	3/4	2,466.28				
9	9	9	4,866.37	9	4,528.10	9	4,183.26	9	3,838.43	9	3,493.60	9	3,148.77	9	2,803.94	9	2,459.10				
1/4	1/4	1/4	4,860.50	1/4	4,520.91	1/4	4,176.08	1/4	3,831.25	1/4	3,486.41	1/4	3,141.58	1/4	2,796.75	1/4	2,451.92				
1/2	1/2	1/2	4,854.63	1/2	4,513.73	1/2	4,168.89	1/2	3,824.06	1/2	3,479.23	1/2	3,134.40	1/2	2,789.57	1/2	2,444.74				
3/4	3/4	3/4	4,848.75	3/4	4,506.54	3/4	4,161.71	3/4	3,816.88	3/4	3,472.04	3/4	3,127.21	3/4	2,782.38	3/4	2,437.55				
10	10	10	4,842.88	10	4,499.36	10	4,154.53	10	3,809.70	10	3,464.86	10	3,120.03	10	2,775.20	10	2,430.37				
1/4	1/4	1/4	4,836.03	1/4	4,492.17	1/4	4,147.34	1/4	3,802.51	1/4	3,457.68	1/4	3,112.85	1/4	2,768.01	1/4	2,423.19				
1/2	1/2	1/2	4,829.17	1/2	4,484.99	1/2	4,140.16	1/2	3,795.33	1/2	3,450.49	1/2	3,105.66	1/2	2,760.83	1/2	2,416.00				
3/4	3/4	3/4	4,822.32	3/4	4,477.80	3/4	4,132.97	3/4	3,788.14	3/4	3,443.31	3/4	3,098.48	3/4	2,753.64	3/4	2,408.82				
11	11	11	4,815.46	11	4,470.62	11	4,125.79	11	3,780.96	11	3,436.13	11	3,091.30	11	2,746.46	11	2,401.63				
1/4	1/4	1/4	4,808.28	1/4	4,463.44	1/4	4,118.61	1/4	3,773.77	1/4	3,428.94	1/4	3,084.11	1/4	2,739.28	1/4	2,394.45				
1/2	1/2	1/2	4,801.09	1/2	4,456.25	1/2	4,111.42	1/2	3,766.59	1/2	3,421.76	1/2	3,076.93	1/2	2,732.09	1/2	2,387.27				
3/4	3/4	3/4	4,793.91	3/4	4,449.07	3/4	4,104.24	3/4	3,759.40	3/4	3,414.57	3/4	3,069.74	3/4	2,724.91	3/4	2,380.08				

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" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "MMI 3032"

2 STBD ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-11"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,372.90	0	2,028.06	0	1,683.23	0	1,338.40	0	993.57	0	648.74	0	303.90	0		0		0	
1/4	2,365.72	1/4	2,020.88	1/4	1,676.05	1/4	1,331.22	1/4	986.39	1/4	641.56	1/4	296.72	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,358.53	1/2	2,013.70	1/2	1,668.87	1/2	1,324.03	1/2	979.20	1/2	634.37	1/2	289.54	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,351.35	3/4	2,006.51	3/4	1,661.68	3/4	1,316.85	3/4	972.02	3/4	627.19	3/4	282.35	3/4	3/4	3/4	3/4	3/4	3/4
1	2,344.16	1	1,999.33	1	1,654.50	1	1,309.66	1	964.83	1	620.00	1	275.17	1	1	1	1	1	1
1/4	2,336.98	1/4	1,992.15	1/4	1,647.32	1/4	1,302.48	1/4	957.65	1/4	612.82	1/4	267.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,329.79	1/2	1,984.96	1/2	1,640.13	1/2	1,295.30	1/2	950.47	1/2	605.63	1/2	260.80	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,322.61	3/4	1,977.78	3/4	1,632.95	3/4	1,288.11	3/4	943.28	3/4	598.45	3/4	253.62	3/4	3/4	3/4	3/4	3/4	3/4
2	2,315.42	2	1,970.59	2	1,625.76	2	1,280.93	2	936.10	2	591.26	2	246.43	2	2	2	2	2	2
1/4	2,308.24	1/4	1,963.41	1/4	1,618.58	1/4	1,273.75	1/4	928.92	1/4	584.08	1/4	239.25	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,301.06	1/2	1,956.23	1/2	1,611.39	1/2	1,266.56	1/2	921.73	1/2	576.90	1/2	232.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,293.87	3/4	1,949.04	3/4	1,604.21	3/4	1,259.38	3/4	914.55	3/4	569.71	3/4	224.88	3/4	3/4	3/4	3/4	3/4	3/4
3	2,286.69	3	1,941.86	3	1,597.02	3	1,252.19	3	907.36	3	562.53	3	217.70	3	3	3	3	3	3
1/4	2,279.51	1/4	1,934.68	1/4	1,589.84	1/4	1,245.01	1/4	900.18	1/4	555.35	1/4	210.52	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,272.32	1/2	1,927.49	1/2	1,582.66	1/2	1,237.83	1/2	892.99	1/2	548.16	1/2	203.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,265.14	3/4	1,920.31	3/4	1,575.47	3/4	1,230.64	3/4	885.81	3/4	540.98	3/4	196.15	3/4	3/4	3/4	3/4	3/4	3/4
4	2,257.95	4	1,913.12	4	1,568.29	4	1,223.46	4	878.62	4	533.79	4	188.96	4	4	4	4	4	4
1/4	2,250.77	1/4	1,905.94	1/4	1,561.11	1/4	1,216.28	1/4	871.44	1/4	526.61	1/4	181.78	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,243.59	1/2	1,898.75	1/2	1,553.92	1/2	1,209.09	1/2	864.26	1/2	519.43	1/2	174.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,236.40	3/4	1,891.57	3/4	1,546.74	3/4	1,201.91	3/4	857.07	3/4	512.24	3/4	167.41	3/4	3/4	3/4	3/4	3/4	3/4
5	2,229.22	5	1,884.38	5	1,539.55	5	1,194.72	5	849.89	5	505.06	5	160.22	5	5	5	5	5	5
1/4	2,222.04	1/4	1,877.20	1/4	1,532.37	1/4	1,187.54	1/4	842.71	1/4	497.88	1/4	153.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,214.85	1/2	1,870.02	1/2	1,525.19	1/2	1,180.35	1/2	835.52	1/2	490.69	1/2	145.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,207.67	3/4	1,862.83	3/4	1,518.00	3/4	1,173.17	3/4	828.34	3/4	483.51	3/4	138.67	3/4	3/4	3/4	3/4	3/4	3/4
6	2,200.48	6	1,855.65	6	1,510.82	6	1,165.98	6	821.15	6	476.32	6	131.49	6	6	6	6	6	6
1/4	2,193.30	1/4	1,848.47	1/4	1,503.64	1/4	1,158.80	1/4	813.97	1/4	469.14	1/4	124.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,186.11	1/2	1,841.28	1/2	1,496.45	1/2	1,151.62	1/2	806.79	1/2	461.95	1/2	117.65	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,178.93	3/4	1,834.10	3/4	1,489.27	3/4	1,144.43	3/4	799.60	3/4	454.77	3/4	110.73	3/4	3/4	3/4	3/4	3/4	3/4
7	2,171.74	7	1,826.91	7	1,482.08	7	1,137.25	7	792.42	7	447.58	7	103.81	7	7	7	7	7	7
1/4	2,164.56	1/4	1,819.73	1/4	1,474.90	1/4	1,130.07	1/4	785.24	1/4	440.40	1/4	96.89	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,157.38	1/2	1,812.55	1/2	1,467.71	1/2	1,122.88	1/2	778.05	1/2	433.22	1/2	89.97	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,150.19	3/4	1,805.36	3/4	1,460.53	3/4	1,115.70	3/4	770.87	3/4	426.03	3/4	83.05	3/4	3/4	3/4	3/4	3/4	3/4
8	2,143.01	8	1,798.18	8	1,453.34	8	1,108.51	8	763.68	8	418.85	8	76.13	8	8	8	8	8	8
1/4	2,135.83	1/4	1,791.00	1/4	1,446.16	1/4	1,101.33	1/4	756.50	1/4	411.67	1/4	69.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,128.64	1/2	1,783.81	1/2	1,438.98	1/2	1,094.15	1/2	749.31	1/2	404.48	1/2	62.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,121.46	3/4	1,776.63	3/4	1,431.79	3/4	1,086.96	3/4	742.13	3/4	397.30	3/4	55.97	3/4	3/4	3/4	3/4	3/4	3/4
9	2,114.27	9	1,769.44	9	1,424.61	9	1,079.78	9	734.94	9	390.11	9	49.25	9	9	9	9	9	9
1/4	2,107.09	1/4	1,762.26	1/4	1,417.43	1/4	1,072.60	1/4	727.76	1/4	382.93	1/4	43.93	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,099.91	1/2	1,755.07	1/2	1,410.24	1/2	1,065.41	1/2	720.58	1/2	375.75	1/2	38.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,092.72	3/4	1,747.89	3/4	1,403.06	3/4	1,058.23	3/4	713.39	3/4	368.56	3/4	33.28	3/4	3/4	3/4	3/4	3/4	3/4
10	2,085.54	10	1,740.70	10	1,395.87	10	1,051.04	10	706.21	10	361.38	10	27.96	10	10	10	10	10	10
1/4	2,078.36	1/4	1,733.52	1/4	1,388.69	1/4	1,043.86	1/4	699.03	1/4	354.20	1/4	24.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,071.17	1/2	1,726.34	1/2	1,381.51	1/2	1,036.67	1/2	691.84	1/2	347.01	1/2	20.52	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,063.99	3/4	1,719.15	3/4	1,374.32	3/4	1,029.49	3/4	684.66	3/4	339.83	3/4	16.80	3/4	3/4	3/4	3/4	3/4	3/4
11	2,056.80	11	1,711.97	11	1,367.14	11	1,022.30	11	677.47	11	332.64	11	13.08	11	11	11	11	11	11
1/4	2,049.62	1/4	1,704.79	1/4	1,359.96	1/4	1,015.12	1/4	670.29	1/4	325.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,042.43	1/2	1,697.60	1/2	1,352.77	1/2	1,007.94	1/2	663.11	1/2	318.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,035.25	3/4	1,690.42	3/4	1,345.59	3/4	1,000.75	3/4	655.92	3/4	311.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2003 INSP.
RECALCULATED: 10/27/2023 JS
VERIFIED: 10/27/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023



BARGE "MMI 3032"

3 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-11"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,718.59		4,437.98		4,157.38		3,876.77		3,594.94		3,243.31		2,878.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,712.75	1/4	4,432.14	1/4	4,151.53	1/4	3,870.92	1/4	3,588.55	1/4	3,235.70	1/4	2,870.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,706.90	1/2	4,426.29	1/2	4,145.68	1/2	3,865.08	1/2	3,582.17	1/2	3,228.10	1/2	2,862.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,701.06	3/4	4,420.45	3/4	4,139.84	3/4	3,859.23	3/4	3,575.78	3/4	3,220.49	3/4	2,855.31
1	1	1	1	1	1	1	4,695.21	1	4,414.60	1	4,133.99	1	3,853.38	1	3,569.39	1	3,212.88	1	2,847.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,689.36	1/4	4,408.76	1/4	4,128.14	1/4	3,847.54	1/4	3,562.73	1/4	3,205.27	1/4	2,840.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,683.52	1/2	4,402.91	1/2	4,122.30	1/2	3,841.69	1/2	3,556.07	1/2	3,197.67	1/2	2,832.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,677.67	3/4	4,397.07	3/4	4,116.45	3/4	3,835.85	3/4	3,549.41	3/4	3,190.06	3/4	2,824.87
2	2	2	2	2	2	2	4,671.82	2	4,391.22	2	4,110.61	2	3,830.00	2	3,542.75	2	3,182.45	2	2,817.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,665.98	1/4	4,385.37	1/4	4,104.76	1/4	3,824.16	1/4	3,535.82	1/4	3,174.84	1/4	2,809.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,660.13	1/2	4,379.53	1/2	4,098.91	1/2	3,818.31	1/2	3,528.89	1/2	3,167.24	1/2	2,802.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,654.29	3/4	4,373.68	3/4	4,093.07	3/4	3,812.47	3/4	3,521.96	3/4	3,159.63	3/4	2,794.44
3	3	3	3	3	3	3	4,648.44	3	4,367.83	3	4,087.22	3	3,806.62	3	3,515.03	3	3,152.02	3	2,786.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,642.60	1/4	4,361.99	1/4	4,081.37	1/4	3,800.77	1/4	3,507.83	1/4	3,144.41	1/4	2,779.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,636.75	1/2	4,356.14	1/2	4,075.53	1/2	3,794.93	1/2	3,500.63	1/2	3,136.80	1/2	2,771.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,630.91	3/4	4,350.29	3/4	4,069.68	3/4	3,789.08	3/4	3,493.42	3/4	3,129.19	3/4	2,764.01
4	4	4	4	4	4	4	4,625.06	4	4,344.45	4	4,063.84	4	3,783.23	4	3,486.22	4	3,121.58	4	2,756.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,619.21	1/4	4,338.60	1/4	4,057.99	1/4	3,777.39	1/4	3,478.75	1/4	3,113.97	1/4	2,748.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,613.37	1/2	4,332.75	1/2	4,052.15	1/2	3,771.54	1/2	3,471.28	1/2	3,106.37	1/2	2,741.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,607.52	3/4	4,326.91	3/4	4,046.30	3/4	3,765.70	3/4	3,463.81	3/4	3,098.76	3/4	2,733.58
5	5	5	4,817.96	5	4,601.67	5	4,321.06	5	4,040.46	5	3,759.85	5	3,456.34	5	3,091.15	5	2,725.97		
1/4	1/4	1/4	4,817.30	1/4	4,595.83	1/4	4,315.21	1/4	4,034.61	1/4	3,754.00	1/4	3,448.73	1/4	3,083.54	1/4	2,718.36		
1/2	1/2	1/2	4,816.63	1/2	4,589.98	1/2	4,309.37	1/2	4,028.76	1/2	3,748.16	1/2	3,441.12	1/2	3,075.94	1/2	2,710.76		
3/4	3/4	3/4	4,815.97	3/4	4,584.14	3/4	4,303.52	3/4	4,022.92	3/4	3,742.31	3/4	3,433.51	3/4	3,068.33	3/4	2,703.15		
6	6	6	4,815.30	6	4,578.29	6	4,297.68	6	4,017.07	6	3,736.46	6	3,425.90	6	3,060.72	6	2,695.54		
1/4	1/4	1/4	4,813.71	1/4	4,572.44	1/4	4,291.83	1/4	4,011.22	1/4	3,730.62	1/4	3,418.29	1/4	3,053.11	1/4	2,687.93		
1/2	1/2	1/2	4,812.12	1/2	4,566.60	1/2	4,285.99	1/2	4,005.38	1/2	3,724.77	1/2	3,410.69	1/2	3,045.51	1/2	2,680.32		
3/4	3/4	3/4	4,810.52	3/4	4,560.75	3/4	4,280.14	3/4	3,999.53	3/4	3,718.93	3/4	3,403.08	3/4	3,037.90	3/4	2,672.71		
7	7	7	4,808.93	7	4,554.90	7	4,274.30	7	3,993.69	7	3,713.08	7	3,395.47	7	3,030.29	7	2,665.10		
1/4	1/4	1/4	4,806.27	1/4	4,549.06	1/4	4,268.45	1/4	3,987.84	1/4	3,707.24	1/4	3,387.86	1/4	3,022.68	1/4	2,657.49		
1/2	1/2	1/2	4,803.62	1/2	4,543.21	1/2	4,262.60	1/2	3,981.99	1/2	3,701.39	1/2	3,380.26	1/2	3,015.08	1/2	2,649.89		
3/4	3/4	3/4	4,800.96	3/4	4,537.37	3/4	4,256.76	3/4	3,976.15	3/4	3,695.55	3/4	3,372.65	3/4	3,007.47	3/4	2,642.28		
8	8	8	4,798.30	8	4,531.52	8	4,250.91	8	3,970.30	8	3,689.70	8	3,365.04	8	2,999.86	8	2,634.67		
1/4	1/4	1/4	4,794.58	1/4	4,525.68	1/4	4,245.06	1/4	3,964.45	1/4	3,683.85	1/4	3,357.43	1/4	2,992.25	1/4	2,627.06		
1/2	1/2	1/2	4,790.86	1/2	4,519.83	1/2	4,239.22	1/2	3,958.61	1/2	3,678.01	1/2	3,349.83	1/2	2,984.64	1/2	2,619.46		
3/4	3/4	3/4	4,787.14	3/4	4,513.99	3/4	4,233.37	3/4	3,952.77	3/4	3,672.16	3/4	3,342.22	3/4	2,977.03	3/4	2,611.85		
9	9	9	4,783.42	9	4,508.14	9	4,227.53	9	3,946.92	9	3,666.31	9	3,334.61	9	2,969.42	9	2,604.24		
1/4	1/4	1/4	4,778.64	1/4	4,502.29	1/4	4,221.68	1/4	3,941.08	1/4	3,660.47	1/4	3,327.00	1/4	2,961.81	1/4	2,596.63		
1/2	1/2	1/2	4,773.86	1/2	4,496.45	1/2	4,215.83	1/2	3,935.23	1/2	3,654.62	1/2	3,319.40	1/2	2,954.21	1/2	2,589.03		
3/4	3/4	3/4	4,769.08	3/4	4,490.60	3/4	4,209.99	3/4	3,929.39	3/4	3,648.78	3/4	3,311.79	3/4	2,946.60	3/4	2,581.42		
10	10	10	4,764.30	10	4,484.75	10	4,204.14	10	3,923.54	10	3,642.93	10	3,304.18	10	2,938.99	10	2,573.81		
1/4	1/4	1/4	4,758.72	1/4	4,478.91	1/4	4,198.29	1/4	3,917.69	1/4	3,637.05	1/4	3,296.57	1/4	2,931.38	1/4	2,566.20		
1/2	1/2	1/2	4,753.14	1/2	4,473.06	1/2	4,192.45	1/2	3,911.85	1/2	3,631.17	1/2	3,288.96	1/2	2,923.78	1/2	2,558.60		
3/4	3/4	3/4	4,747.56	3/4	4,467.22	3/4	4,186.60	3/4	3,906.00	3/4	3,625.29	3/4	3,281.35	3/4	2,916.17	3/4	2,550.99		
11	11	11	4,741.98	11	4,461.37	11	4,180.76	11	3,900.15	11	3,619.41	11	3,273.74	11	2,908.56	11	2,543.38		
1/4	1/4	1/4	4,736.13	1/4	4,455.52	1/4	4,174.91	1/4	3,894.31	1/4	3,613.29	1/4	3,266.13	1/4	2,900.95	1/4	2,535.77		
1/2	1/2	1/2	4,730.29	1/2	4,449.68	1/2	4,169.07	1/2	3,888.46	1/2	3,607.18	1/2	3,258.53	1/2	2,893.35	1/2	2,528.16		
3/4	3/4	3/4	4,724.44	3/4	4,443.83	3/4	4,163.22	3/4	3,882.62	3/4	3,601.06	3/4	3,250.92	3/4	2,885.74	3/4	2,520.55		

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" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 45'-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 "MMI 3032"

3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-11"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,512.94	0	2,147.76	0	1,782.58	0	1,417.39	0	1,052.21	0	687.02	0	321.84	0		0			
1/4	2,505.33	1/4	2,140.15	1/4	1,774.97	1/4	1,409.78	1/4	1,044.60	1/4	679.41	1/4	314.23	1/4		1/4			
1/2	2,497.73	1/2	2,132.54	1/2	1,767.36	1/2	1,402.17	1/2	1,036.99	1/2	671.80	1/2	306.62	1/2		1/2			
3/4	2,490.12	3/4	2,124.94	3/4	1,759.75	3/4	1,394.57	3/4	1,029.39	3/4	664.20	3/4	299.02	3/4		3/4			
1	2,482.51	1	2,117.33	1	1,752.14	1	1,386.96	1	1,021.78	1	656.59	1	291.41	1		1			
1/4	2,474.90	1/4	2,109.72	1/4	1,744.53	1/4	1,379.35	1/4	1,014.17	1/4	648.98	1/4	283.80	1/4		1/4			
1/2	2,467.30	1/2	2,102.11	1/2	1,736.92	1/2	1,371.74	1/2	1,006.56	1/2	641.37	1/2	276.19	1/2		1/2			
3/4	2,459.69	3/4	2,094.51	3/4	1,729.32	3/4	1,364.14	3/4	998.95	3/4	633.77	3/4	268.59	3/4		3/4			
2	2,452.08	2	2,086.90	2	1,721.71	2	1,356.53	2	991.34	2	626.16	2	260.98	2		2			
1/4	2,444.47	1/4	2,079.29	1/4	1,714.10	1/4	1,348.92	1/4	983.73	1/4	618.55	1/4	253.37	1/4		1/4			
1/2	2,436.87	1/2	2,071.68	1/2	1,706.49	1/2	1,341.31	1/2	976.12	1/2	610.94	1/2	245.76	1/2		1/2			
3/4	2,429.26	3/4	2,064.07	3/4	1,698.89	3/4	1,333.71	3/4	968.52	3/4	603.34	3/4	238.15	3/4		3/4			
3	2,421.65	3	2,056.46	3	1,691.28	3	1,326.10	3	960.91	3	595.73	3	230.54	3		3			
1/4	2,414.04	1/4	2,048.85	1/4	1,683.67	1/4	1,318.49	1/4	953.30	1/4	588.12	1/4	222.93	1/4		1/4			
1/2	2,406.44	1/2	2,041.24	1/2	1,676.06	1/2	1,310.88	1/2	945.69	1/2	580.51	1/2	215.32	1/2		1/2			
3/4	2,398.83	3/4	2,033.64	3/4	1,668.46	3/4	1,303.27	3/4	938.09	3/4	572.91	3/4	207.72	3/4		3/4			
4	2,391.22	4	2,026.03	4	1,660.85	4	1,295.66	4	930.48	4	565.30	4	200.11	4		4			
1/4	2,383.61	1/4	2,018.42	1/4	1,653.24	1/4	1,288.05	1/4	922.87	1/4	557.69	1/4	192.50	1/4		1/4			
1/2	2,376.00	1/2	2,010.81	1/2	1,645.63	1/2	1,280.44	1/2	915.26	1/2	550.08	1/2	184.89	1/2		1/2			
3/4	2,368.39	3/4	2,003.21	3/4	1,638.03	3/4	1,272.84	3/4	907.66	3/4	542.47	3/4	177.29	3/4		3/4			
5	2,360.78	5	1,995.60	5	1,630.42	5	1,265.23	5	900.05	5	534.86	5	169.68	5		5			
1/4	2,353.17	1/4	1,987.99	1/4	1,622.81	1/4	1,257.62	1/4	892.44	1/4	527.25	1/4	162.07	1/4		1/4			
1/2	2,345.57	1/2	1,980.38	1/2	1,615.20	1/2	1,250.01	1/2	884.83	1/2	519.64	1/2	154.46	1/2		1/2			
3/4	2,337.96	3/4	1,972.78	3/4	1,607.59	3/4	1,242.41	3/4	877.23	3/4	512.04	3/4	146.86	3/4		3/4			
6	2,330.35	6	1,965.17	6	1,599.98	6	1,234.80	6	869.62	6	504.43	6	139.25	6		6			
1/4	2,322.74	1/4	1,957.56	1/4	1,592.37	1/4	1,227.19	1/4	862.01	1/4	496.82	1/4	131.92	1/4		1/4			
1/2	2,315.14	1/2	1,949.95	1/2	1,584.76	1/2	1,219.58	1/2	854.40	1/2	489.21	1/2	124.59	1/2		1/2			
3/4	2,307.53	3/4	1,942.35	3/4	1,577.16	3/4	1,211.98	3/4	846.79	3/4	481.61	3/4	117.27	3/4		3/4			
7	2,299.92	7	1,934.74	7	1,569.55	7	1,204.37	7	839.18	7	474.00	7	109.94	7		7			
1/4	2,292.31	1/4	1,927.13	1/4	1,561.94	1/4	1,196.76	1/4	831.57	1/4	466.39	1/4	102.61	1/4		1/4			
1/2	2,284.71	1/2	1,919.52	1/2	1,554.33	1/2	1,189.15	1/2	823.96	1/2	458.78	1/2	95.29	1/2		1/2			
3/4	2,277.10	3/4	1,911.91	3/4	1,546.73	3/4	1,181.55	3/4	816.36	3/4	451.18	3/4	87.96	3/4		3/4			
8	2,269.49	8	1,904.30	8	1,539.12	8	1,173.94	8	808.75	8	443.57	8	80.64	8		8			
1/4	2,261.88	1/4	1,896.69	1/4	1,531.51	1/4	1,166.33	1/4	801.14	1/4	435.96	1/4	73.52	1/4		1/4			
1/2	2,254.28	1/2	1,889.08	1/2	1,523.90	1/2	1,158.72	1/2	793.53	1/2	428.35	1/2	66.41	1/2		1/2			
3/4	2,246.67	3/4	1,881.48	3/4	1,516.30	3/4	1,151.11	3/4	785.93	3/4	420.75	3/4	59.29	3/4		3/4			
9	2,239.06	9	1,873.87	9	1,508.69	9	1,143.50	9	778.32	9	413.14	9	52.18	9		9			
1/4	2,231.45	1/4	1,866.26	1/4	1,501.08	1/4	1,135.89	1/4	770.71	1/4	405.53	1/4	46.54	1/4		1/4			
1/2	2,223.84	1/2	1,858.65	1/2	1,493.47	1/2	1,128.28	1/2	763.10	1/2	397.92	1/2	40.91	1/2		1/2			
3/4	2,216.23	3/4	1,851.05	3/4	1,485.87	3/4	1,120.68	3/4	755.50	3/4	390.31	3/4	35.27	3/4		3/4			
10	2,208.62	10	1,843.44	10	1,478.26	10	1,113.07	10	747.89	10	382.70	10	29.64	10		10			
1/4	2,201.01	1/4	1,835.83	1/4	1,470.65	1/4	1,105.46	1/4	740.28	1/4	375.09	1/4	25.69	1/4		1/4			
1/2	2,193.40	1/2	1,828.22	1/2	1,463.04	1/2	1,097.85	1/2	732.67	1/2	367.48	1/2	21.75	1/2		1/2			
3/4	2,185.80	3/4	1,820.62	3/4	1,455.43	3/4	1,090.25	3/4	725.07	3/4	359.88	3/4	17.80	3/4		3/4			
11	2,178.19	11	1,813.01	11	1,447.82	11	1,082.64	11	717.46	11	352.27	11	13.86	11		11			
1/4	2,170.58	1/4	1,805.40	1/4	1,440.21	1/4	1,075.03	1/4	709.85	1/4	344.66	1/4		1/4		1/4			
1/2	2,162.97	1/2	1,797.79	1/2	1,432.60	1/2	1,067.42	1/2	702.24	1/2	337.05	1/2		1/2		1/2			
3/4	2,155.37	3/4	1,790.19	3/4	1,425.00	3/4	1,059.82	3/4	694.63	3/4	329.45	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2003 INSP.
RECALCULATED: 10/27/2023 JS
VERIFIED: 10/27/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "MMI 3032"

3 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-10 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,712.75		4,432.14		4,151.53		3,870.92		3,588.55		3,235.70		2,870.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,706.90	1/4	4,426.29	1/4	4,145.68	1/4	3,865.08	1/4	3,582.17	1/4	3,228.10	1/4	2,862.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,701.06	1/2	4,420.45	1/2	4,139.84	1/2	3,859.23	1/2	3,575.78	1/2	3,220.49	1/2	2,855.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,695.21	3/4	4,414.60	3/4	4,133.99	3/4	3,853.38	3/4	3,569.39	3/4	3,212.88	3/4	2,847.70
1	1	1	1	1	1	1	4,689.36	1	4,408.76	1	4,128.14	1	3,847.54	1	3,562.73	1	3,205.27	1	2,840.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,683.52	1/4	4,402.91	1/4	4,122.30	1/4	3,841.69	1/4	3,556.07	1/4	3,197.67	1/4	2,832.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,677.67	1/2	4,397.07	1/2	4,116.45	1/2	3,835.85	1/2	3,549.41	1/2	3,190.06	1/2	2,824.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,671.82	3/4	4,391.22	3/4	4,110.61	3/4	3,830.00	3/4	3,542.75	3/4	3,182.45	3/4	2,817.26
2	2	2	2	2	2	2	4,665.98	2	4,385.37	2	4,104.76	2	3,824.16	2	3,535.82	2	3,174.84	2	2,809.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.13	1/4	4,379.53	1/4	4,098.91	1/4	3,818.31	1/4	3,528.89	1/4	3,167.24	1/4	2,802.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,654.29	1/2	4,373.68	1/2	4,093.07	1/2	3,812.47	1/2	3,521.96	1/2	3,159.63	1/2	2,794.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,648.44	3/4	4,367.83	3/4	4,087.22	3/4	3,806.62	3/4	3,515.03	3/4	3,152.02	3/4	2,786.83
3	3	3	3	3	3	3	4,642.60	3	4,361.99	3	4,081.37	3	3,800.77	3	3,507.83	3	3,144.41	3	2,779.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,636.75	1/4	4,356.14	1/4	4,075.53	1/4	3,794.93	1/4	3,500.63	1/4	3,136.80	1/4	2,771.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.91	1/2	4,350.29	1/2	4,069.68	1/2	3,789.08	1/2	3,493.42	1/2	3,129.19	1/2	2,764.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,625.06	3/4	4,344.45	3/4	4,063.84	3/4	3,783.23	3/4	3,486.22	3/4	3,121.58	3/4	2,756.40
4	4	4	4	4	4	4	4,619.21	4	4,338.60	4	4,057.99	4	3,777.39	4	3,478.75	4	3,113.97	4	2,748.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,613.37	1/4	4,332.75	1/4	4,052.15	1/4	3,771.54	1/4	3,471.28	1/4	3,106.37	1/4	2,741.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,607.52	1/2	4,326.91	1/2	4,046.30	1/2	3,765.70	1/2	3,463.81	1/2	3,098.76	1/2	2,733.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,601.67	3/4	4,321.06	3/4	4,040.46	3/4	3,759.85	3/4	3,456.34	3/4	3,091.15	3/4	2,725.97
5	5	5	4,817.96	5	4,595.83	5	4,315.21	5	4,034.61	5	3,754.00	5	3,448.73	5	3,083.54	5	2,718.36		
1/4	1/4	1/4	4,816.63	1/4	4,589.98	1/4	4,309.37	1/4	4,028.76	1/4	3,748.16	1/4	3,441.12	1/4	3,075.94	1/4	2,710.76		
1/2	1/2	1/2	4,815.97	1/2	4,584.14	1/2	4,303.52	1/2	4,022.92	1/2	3,742.31	1/2	3,433.51	1/2	3,068.33	1/2	2,703.15		
3/4	3/4	3/4	4,815.30	3/4	4,578.29	3/4	4,297.68	3/4	4,017.07	3/4	3,736.46	3/4	3,425.90	3/4	3,060.72	3/4	2,695.54		
6	6	6	4,813.71	6	4,572.44	6	4,291.83	6	4,011.22	6	3,730.62	6	3,418.29	6	3,053.11	6	2,687.93		
1/4	1/4	1/4	4,812.12	1/4	4,566.60	1/4	4,285.99	1/4	4,005.38	1/4	3,724.77	1/4	3,410.69	1/4	3,045.51	1/4	2,680.32		
1/2	1/2	1/2	4,810.52	1/2	4,560.75	1/2	4,280.14	1/2	3,999.53	1/2	3,718.93	1/2	3,403.08	1/2	3,037.90	1/2	2,672.71		
3/4	3/4	3/4	4,808.93	3/4	4,554.90	3/4	4,274.30	3/4	3,993.69	3/4	3,713.08	3/4	3,395.47	3/4	3,030.29	3/4	2,665.10		
7	7	7	4,806.27	7	4,549.06	7	4,268.45	7	3,987.84	7	3,707.24	7	3,387.86	7	3,022.68	7	2,657.49		
1/4	1/4	1/4	4,803.62	1/4	4,543.21	1/4	4,262.60	1/4	3,981.99	1/4	3,701.39	1/4	3,380.26	1/4	3,015.08	1/4	2,649.89		
1/2	1/2	1/2	4,800.96	1/2	4,537.37	1/2	4,256.76	1/2	3,976.15	1/2	3,695.55	1/2	3,372.65	1/2	3,007.47	1/2	2,642.28		
3/4	3/4	3/4	4,798.30	3/4	4,531.52	3/4	4,250.91	3/4	3,970.30	3/4	3,689.70	3/4	3,365.04	3/4	2,999.86	3/4	2,634.67		
8	8	8	4,794.58	8	4,525.68	8	4,245.06	8	3,964.45	8	3,683.85	8	3,357.43	8	2,992.25	8	2,627.06		
1/4	1/4	1/4	4,790.86	1/4	4,519.83	1/4	4,239.22	1/4	3,958.61	1/4	3,678.01	1/4	3,349.83	1/4	2,984.64	1/4	2,619.46		
1/2	1/2	1/2	4,787.14	1/2	4,513.99	1/2	4,233.37	1/2	3,952.77	1/2	3,672.16	1/2	3,342.22	1/2	2,977.03	1/2	2,611.85		
3/4	3/4	3/4	4,783.42	3/4	4,508.14	3/4	4,227.53	3/4	3,946.92	3/4	3,666.31	3/4	3,334.61	3/4	2,969.42	3/4	2,604.24		
9	9	9	4,778.64	9	4,502.29	9	4,221.68	9	3,941.08	9	3,660.47	9	3,327.00	9	2,961.81	9	2,596.63		
1/4	1/4	1/4	4,773.86	1/4	4,496.45	1/4	4,215.83	1/4	3,935.23	1/4	3,654.62	1/4	3,319.40	1/4	2,954.21	1/4	2,589.03		
1/2	1/2	1/2	4,769.08	1/2	4,490.60	1/2	4,209.99	1/2	3,929.39	1/2	3,648.78	1/2	3,311.79	1/2	2,946.60	1/2	2,581.42		
3/4	3/4	3/4	4,764.30	3/4	4,484.75	3/4	4,204.14	3/4	3,923.54	3/4	3,642.93	3/4	3,304.18	3/4	2,938.99	3/4	2,573.81		
10	10	10	4,758.72	10	4,478.91	10	4,198.29	10	3,917.69	10	3,637.05	10	3,296.57	10	2,931.38	10	2,566.20		
1/4	1/4	1/4	4,753.14	1/4	4,473.06	1/4	4,192.45	1/4	3,911.85	1/4	3,631.17	1/4	3,288.96	1/4	2,923.78	1/4	2,558.60		
1/2	1/2	1/2	4,747.56	1/2	4,467.22	1/2	4,186.60	1/2	3,906.00	1/2	3,625.29	1/2	3,281.35	1/2	2,916.17	1/2	2,550.99		
3/4	3/4	3/4	4,741.98	3/4	4,461.37	3/4	4,180.76	3/4	3,900.15	3/4	3,619.41	3/4	3,273.74	3/4	2,908.56	3/4	2,543.38		
11	11	11	4,736.13	11	4,455.52	11	4,174.91	11	3,894.31	11	3,613.29	11	3,266.13	11	2,900.95	11	2,535.77		
1/4	1/4	1/4	4,730.29	1/4	4,449.68	1/4	4,169.07	1/4	3,888.46	1/4	3,607.18	1/4	3,258.53	1/4	2,893.35	1/4	2,528.16		
1/2	1/2	1/2	4,724.44	1/2	4,443.83	1/2	4,163.22	1/2	3,882.62	1/2	3,601.06	1/2	3,250.92	1/2	2,885.74	1/2	2,520.55		
3/4	3/4	3/4	4,718.59	3/4	4,437.98	3/4	4,157.38	3/4	3,876.77	3/4	3,594.94	3/4	3,243.31	3/4	2,878.13	3/4	2,512.94		

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" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "MMI 3032"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-10 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,505.33	0	2,140.15	0	1,774.97	0	1,409.78	0	1,044.60	0	679.41	0	314.23	0		0		0	
1/4	2,497.73	1/4	2,132.54	1/4	1,767.36	1/4	1,402.17	1/4	1,036.99	1/4	671.80	1/4	306.62	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,490.12	1/2	2,124.94	1/2	1,759.75	1/2	1,394.57	1/2	1,029.39	1/2	664.20	1/2	299.02	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,482.51	3/4	2,117.33	3/4	1,752.14	3/4	1,386.96	3/4	1,021.78	3/4	656.59	3/4	291.41	3/4	3/4	3/4	3/4	3/4	3/4
1	2,474.90	1	2,109.72	1	1,744.53	1	1,379.35	1	1,014.17	1	648.98	1	283.80	1	1	1	1	1	1
1/4	2,467.30	1/4	2,102.11	1/4	1,736.92	1/4	1,371.74	1/4	1,006.56	1/4	641.37	1/4	276.19	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,459.69	1/2	2,094.51	1/2	1,729.32	1/2	1,364.14	1/2	998.95	1/2	633.77	1/2	268.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,452.08	3/4	2,086.90	3/4	1,721.71	3/4	1,356.53	3/4	991.34	3/4	626.16	3/4	260.98	3/4	3/4	3/4	3/4	3/4	3/4
2	2,444.47	2	2,079.29	2	1,714.10	2	1,348.92	2	983.73	2	618.55	2	253.37	2	2	2	2	2	2
1/4	2,436.87	1/4	2,071.68	1/4	1,706.49	1/4	1,341.31	1/4	976.12	1/4	610.94	1/4	245.76	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,429.26	1/2	2,064.07	1/2	1,698.89	1/2	1,333.71	1/2	968.52	1/2	603.34	1/2	238.15	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,421.65	3/4	2,056.46	3/4	1,691.28	3/4	1,326.10	3/4	960.91	3/4	595.73	3/4	230.54	3/4	3/4	3/4	3/4	3/4	3/4
3	2,414.04	3	2,048.85	3	1,683.67	3	1,318.49	3	953.30	3	588.12	3	222.93	3	3	3	3	3	3
1/4	2,406.44	1/4	2,041.24	1/4	1,676.06	1/4	1,310.88	1/4	945.69	1/4	580.51	1/4	215.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,398.83	1/2	2,033.64	1/2	1,668.46	1/2	1,303.27	1/2	938.09	1/2	572.91	1/2	207.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,391.22	3/4	2,026.03	3/4	1,660.85	3/4	1,295.66	3/4	930.48	3/4	565.30	3/4	200.11	3/4	3/4	3/4	3/4	3/4	3/4
4	2,383.61	4	2,018.42	4	1,653.24	4	1,288.05	4	922.87	4	557.69	4	192.50	4	4	4	4	4	4
1/4	2,376.00	1/4	2,010.81	1/4	1,645.63	1/4	1,280.44	1/4	915.26	1/4	550.08	1/4	184.89	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,368.39	1/2	2,003.21	1/2	1,638.03	1/2	1,272.84	1/2	907.66	1/2	542.47	1/2	177.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,360.78	3/4	1,995.60	3/4	1,630.42	3/4	1,265.23	3/4	900.05	3/4	534.86	3/4	169.68	3/4	3/4	3/4	3/4	3/4	3/4
5	2,353.17	5	1,987.99	5	1,622.81	5	1,257.62	5	892.44	5	527.25	5	162.07	5	5	5	5	5	5
1/4	2,345.57	1/4	1,980.38	1/4	1,615.20	1/4	1,250.01	1/4	884.83	1/4	519.64	1/4	154.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,337.96	1/2	1,972.78	1/2	1,607.59	1/2	1,242.41	1/2	877.23	1/2	512.04	1/2	146.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,330.35	3/4	1,965.17	3/4	1,599.98	3/4	1,234.80	3/4	869.62	3/4	504.43	3/4	139.25	3/4	3/4	3/4	3/4	3/4	3/4
6	2,322.74	6	1,957.56	6	1,592.37	6	1,227.19	6	862.01	6	496.82	6	131.92	6	6	6	6	6	6
1/4	2,315.14	1/4	1,949.95	1/4	1,584.76	1/4	1,219.58	1/4	854.40	1/4	489.21	1/4	124.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,307.53	1/2	1,942.35	1/2	1,577.16	1/2	1,211.98	1/2	846.79	1/2	481.61	1/2	117.27	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,299.92	3/4	1,934.74	3/4	1,569.55	3/4	1,204.37	3/4	839.18	3/4	474.00	3/4	109.94	3/4	3/4	3/4	3/4	3/4	3/4
7	2,292.31	7	1,927.13	7	1,561.94	7	1,196.76	7	831.57	7	466.39	7	102.61	7	7	7	7	7	7
1/4	2,284.71	1/4	1,919.52	1/4	1,554.33	1/4	1,189.15	1/4	823.96	1/4	458.78	1/4	95.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,277.10	1/2	1,911.91	1/2	1,546.73	1/2	1,181.55	1/2	816.36	1/2	451.18	1/2	87.96	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,269.49	3/4	1,904.30	3/4	1,539.12	3/4	1,173.94	3/4	808.75	3/4	443.57	3/4	80.64	3/4	3/4	3/4	3/4	3/4	3/4
8	2,261.88	8	1,896.69	8	1,531.51	8	1,166.33	8	801.14	8	435.96	8	73.52	8	8	8	8	8	8
1/4	2,254.28	1/4	1,889.08	1/4	1,523.90	1/4	1,158.72	1/4	793.53	1/4	428.35	1/4	66.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,246.67	1/2	1,881.48	1/2	1,516.30	1/2	1,151.11	1/2	785.93	1/2	420.75	1/2	59.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,239.06	3/4	1,873.87	3/4	1,508.69	3/4	1,143.50	3/4	778.32	3/4	413.14	3/4	52.18	3/4	3/4	3/4	3/4	3/4	3/4
9	2,231.45	9	1,866.26	9	1,501.08	9	1,135.89	9	770.71	9	405.53	9	46.54	9	9	9	9	9	9
1/4	2,223.84	1/4	1,858.65	1/4	1,493.47	1/4	1,128.28	1/4	763.10	1/4	397.92	1/4	40.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,216.23	1/2	1,851.05	1/2	1,485.87	1/2	1,120.68	1/2	755.50	1/2	390.31	1/2	35.27	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,208.62	3/4	1,843.44	3/4	1,478.26	3/4	1,113.07	3/4	747.89	3/4	382.70	3/4	29.64	3/4	3/4	3/4	3/4	3/4	3/4
10	2,201.01	10	1,835.83	10	1,470.65	10	1,105.46	10	740.28	10	375.09	10	25.69	10	10	10	10	10	10
1/4	2,193.40	1/4	1,828.22	1/4	1,463.04	1/4	1,097.85	1/4	732.67	1/4	367.48	1/4	21.75	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,185.80	1/2	1,820.62	1/2	1,455.43	1/2	1,090.25	1/2	725.07	1/2	359.88	1/2	17.80	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,178.19	3/4	1,813.01	3/4	1,447.82	3/4	1,082.64	3/4	717.46	3/4	352.27	3/4	13.86	3/4	3/4	3/4	3/4	3/4	3/4
11	2,170.58	11	1,805.40	11	1,440.21	11	1,075.03	11	709.85	11	344.66	11		11	11	11	11	11	11
1/4	2,162.97	1/4	1,797.79	1/4	1,432.60	1/4	1,067.42	1/4	702.24	1/4	337.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,155.37	1/2	1,790.19	1/2	1,425.00	1/2	1,059.82	1/2	694.63	1/2	329.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,147.76	3/4	1,782.58	3/4	1,417.39	3/4	1,052.21	3/4	687.02	3/4	321.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2003 INSP.
RECALCULATED: 10/27/2023 JS
VERIFIED: 10/27/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2023



BARGE "MMI 3032"

AFT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	449	0	898	0	1,347	0	1,795	0		0		0		0		0	
1/4	9	1/4	458	1/4	907	1/4	1,356	1/4	1,805	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	468	1/2	917	1/2	1,365	1/2	1,814	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	477	3/4	926	3/4	1,375	3/4	1,824	3/4		3/4		3/4		3/4		3/4	
1	37	1	486	1	935	1	1,384	1	1,833	1		1		1		1		1	
1/4	47	1/4	496	1/4	945	1/4	1,393	1/4	1,842	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	505	1/2	954	1/2	1,403	1/2	1,852	1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	514	3/4	963	3/4	1,412	3/4	1,861	3/4		3/4		3/4		3/4		3/4	
2	75	2	524	2	973	2	1,421	2	1,870	2		2		2		2		2	
1/4	84	1/4	533	1/4	982	1/4	1,431	1/4	1,880	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	542	1/2	991	1/2	1,440	1/2	1,889	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	552	3/4	1,001	3/4	1,450	3/4	1,898	3/4		3/4		3/4		3/4		3/4	
3	112	3	561	3	1,010	3	1,459	3	1,908	3		3		3		3		3	
1/4	122	1/4	571	1/4	1,019	1/4	1,468	1/4	1,917	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	580	1/2	1,029	1/2	1,478	1/2	1,926	1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	589	3/4	1,038	3/4	1,487	3/4	1,936	3/4		3/4		3/4		3/4		3/4	
4	150	4	599	4	1,047	4	1,496	4	1,945	4		4		4		4		4	
1/4	159	1/4	608	1/4	1,057	1/4	1,506	1/4	1,954	1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	617	1/2	1,066	1/2	1,515	1/2	1,964	1/2		1/2		1/2		1/2		1/2	
3/4	178	3/4	627	3/4	1,075	3/4	1,524	3/4	1,973	3/4		3/4		3/4		3/4		3/4	
5	187	5	636	5	1,085	5	1,534	5	1,982	5		5		5		5		5	
1/4	197	1/4	645	1/4	1,094	1/4	1,543	1/4	1,992	1/4		1/4		1/4		1/4		1/4	
1/2	206	1/2	655	1/2	1,104	1/2	1,552	1/2	2,001	1/2		1/2		1/2		1/2		1/2	
3/4	215	3/4	664	3/4	1,113	3/4	1,562	3/4	2,011	3/4		3/4		3/4		3/4		3/4	
6	225	6	673	6	1,122	6	1,571	6	2,020	6		6		6		6		6	
1/4	234	1/4	683	1/4	1,132	1/4	1,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	243	1/2	692	1/2	1,141	1/2	1,590	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	253	3/4	701	3/4	1,150	3/4	1,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	262	7	711	7	1,160	7	1,608	7		7		7		7		7		7	
1/4	271	1/4	720	1/4	1,169	1/4	1,618	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	281	1/2	730	1/2	1,178	1/2	1,627	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	739	3/4	1,188	3/4	1,637	3/4		3/4		3/4		3/4		3/4		3/4	
8	299	8	748	8	1,197	8	1,646	8		8		8		8		8		8	
1/4	309	1/4	758	1/4	1,206	1/4	1,655	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	767	1/2	1,216	1/2	1,665	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	327	3/4	776	3/4	1,225	3/4	1,674	3/4		3/4		3/4		3/4		3/4		3/4	
9	337	9	786	9	1,234	9	1,683	9		9		9		9		9		9	
1/4	346	1/4	795	1/4	1,244	1/4	1,693	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	804	1/2	1,253	1/2	1,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365	3/4	814	3/4	1,262	3/4	1,711	3/4		3/4		3/4		3/4		3/4		3/4	
10	374	10	823	10	1,272	10	1,721	10		10		10		10		10		10	
1/4	384	1/4	832	1/4	1,281	1/4	1,730	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	842	1/2	1,291	1/2	1,739	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	402	3/4	851	3/4	1,300	3/4	1,749	3/4		3/4		3/4		3/4		3/4		3/4	
11	412	11	860	11	1,309	11	1,758	11		11		11		11		11		11	
1/4	421	1/4	870	1/4	1,319	1/4	1,767	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	879	1/2	1,328	1/2	1,777	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	440	3/4	888	3/4	1,337	3/4	1,786	3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

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CANCELS AND SUPERCEDES
 ALL PRIOR TO 10/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MMI 3032"

FWD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	449	0	898	0	1,347	0	1,795	0		0		0		0		0	
1/4	9	1/4	458	1/4	907	1/4	1,356	1/4	1,805	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	468	1/2	917	1/2	1,365	1/2	1,814	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	477	3/4	926	3/4	1,375	3/4	1,824	3/4		3/4		3/4		3/4		3/4	
1	37	1	486	1	935	1	1,384	1	1,833	1		1		1		1		1	
1/4	47	1/4	496	1/4	945	1/4	1,393	1/4	1,842	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	505	1/2	954	1/2	1,403	1/2	1,852	1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	514	3/4	963	3/4	1,412	3/4	1,861	3/4		3/4		3/4		3/4		3/4	
2	75	2	524	2	973	2	1,421	2	1,870	2		2		2		2		2	
1/4	84	1/4	533	1/4	982	1/4	1,431	1/4	1,880	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	542	1/2	991	1/2	1,440	1/2	1,889	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	552	3/4	1,001	3/4	1,450	3/4	1,898	3/4		3/4		3/4		3/4		3/4	
3	112	3	561	3	1,010	3	1,459	3	1,908	3		3		3		3		3	
1/4	122	1/4	571	1/4	1,019	1/4	1,468	1/4	1,917	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	580	1/2	1,029	1/2	1,478	1/2	1,926	1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	589	3/4	1,038	3/4	1,487	3/4	1,936	3/4		3/4		3/4		3/4		3/4	
4	150	4	599	4	1,047	4	1,496	4	1,945	4		4		4		4		4	
1/4	159	1/4	608	1/4	1,057	1/4	1,506	1/4	1,954	1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	617	1/2	1,066	1/2	1,515	1/2	1,964	1/2		1/2		1/2		1/2		1/2	
3/4	178	3/4	627	3/4	1,075	3/4	1,524	3/4	1,973	3/4		3/4		3/4		3/4		3/4	
5	187	5	636	5	1,085	5	1,534	5	1,982	5		5		5		5		5	
1/4	197	1/4	645	1/4	1,094	1/4	1,543	1/4	1,992	1/4		1/4		1/4		1/4		1/4	
1/2	206	1/2	655	1/2	1,104	1/2	1,552	1/2	2,001	1/2		1/2		1/2		1/2		1/2	
3/4	215	3/4	664	3/4	1,113	3/4	1,562	3/4	2,011	3/4		3/4		3/4		3/4		3/4	
6	225	6	673	6	1,122	6	1,571	6	2,020	6		6		6		6		6	
1/4	234	1/4	683	1/4	1,132	1/4	1,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	243	1/2	692	1/2	1,141	1/2	1,590	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	253	3/4	701	3/4	1,150	3/4	1,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	262	7	711	7	1,160	7	1,608	7		7		7		7		7		7	
1/4	271	1/4	720	1/4	1,169	1/4	1,618	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	281	1/2	730	1/2	1,178	1/2	1,627	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	739	3/4	1,188	3/4	1,637	3/4		3/4		3/4		3/4		3/4		3/4	
8	299	8	748	8	1,197	8	1,646	8		8		8		8		8		8	
1/4	309	1/4	758	1/4	1,206	1/4	1,655	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	767	1/2	1,216	1/2	1,665	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	327	3/4	776	3/4	1,225	3/4	1,674	3/4		3/4		3/4		3/4		3/4		3/4	
9	337	9	786	9	1,234	9	1,683	9		9		9		9		9		9	
1/4	346	1/4	795	1/4	1,244	1/4	1,693	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	804	1/2	1,253	1/2	1,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365	3/4	814	3/4	1,262	3/4	1,711	3/4		3/4		3/4		3/4		3/4		3/4	
10	374	10	823	10	1,272	10	1,721	10		10		10		10		10		10	
1/4	384	1/4	832	1/4	1,281	1/4	1,730	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	842	1/2	1,291	1/2	1,739	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	402	3/4	851	3/4	1,300	3/4	1,749	3/4		3/4		3/4		3/4		3/4		3/4	
11	412	11	860	11	1,309	11	1,758	11		11		11		11		11		11	
1/4	421	1/4	870	1/4	1,319	1/4	1,767	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	879	1/2	1,328	1/2	1,777	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	440	3/4	888	3/4	1,337	3/4	1,786	3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

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BARGE "MMI 3032"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	120	0	301	0	465	0		0		0		0		0		0	
1/4	1	1/4	124	1/4	305	1/4	468	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2	1/2	127	1/2	309	1/2	470	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2	3/4	131	3/4	313	3/4	473	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3	1	134	1	316	1	476	1	1	1	1	1	1	1	1	1	1	1	1
1/4	5	1/4	138	1/4	320	1/4	478	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	6	1/2	142	1/2	324	1/2	480	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	7	3/4	145	3/4	328	3/4	483	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	9	2	149	2	331	2	485	2	2	2	2	2	2	2	2	2	2	2	2
1/4	11	1/4	152	1/4	335	1/4	487	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	13	1/2	156	1/2	339	1/2	489	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	14	3/4	160	3/4	343	3/4	491	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	16	3	163	3	346	3	494	3	3	3	3	3	3	3	3	3	3	3	3
1/4	18	1/4	167	1/4	350	1/4	495	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	20	1/2	171	1/2	354	1/2	497	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	23	3/4	175	3/4	357	3/4	499	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	25	4	178	4	361	4	501	4	4	4	4	4	4	4	4	4	4	4	4
1/4	27	1/4	182	1/4	365	1/4	502	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	29	1/2	186	1/2	368	1/2	504	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	32	3/4	190	3/4	372	3/4	505	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	34	5	193	5	375	5	507	5	5	5	5	5	5	5	5	5	5	5	5
1/4	37	1/4	197	1/4	379	1/4	507	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	39	1/2	201	1/2	383	1/2	508	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42	3/4	205	3/4	386	3/4	509	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	45	6	209	6	390	6	510	6	6	6	6	6	6	6	6	6	6	6	6
1/4	47	1/4	213	1/4	393	1/4	=====	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50	1/2	216	1/2	396	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53	3/4	220	3/4	400	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	56	7	224	7	403	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	59	1/4	228	1/4	407	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62	1/2	232	1/2	410	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	65	3/4	236	3/4	413	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	68	8	239	8	417	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	71	1/4	243	1/4	420	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74	1/2	247	1/2	423	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77	3/4	251	3/4	426	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	80	9	255	9	430	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	83	1/4	259	1/4	433	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87	1/2	263	1/2	436	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	90	3/4	266	3/4	439	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	93	10	270	10	442	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	96	1/4	274	1/4	445	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	100	1/2	278	1/2	448	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	103	3/4	282	3/4	451	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	106	11	286	11	454	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	110	1/4	290	1/4	457	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	113	1/2	293	1/2	460	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	117	3/4	297	3/4	462	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
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