



BARGE "MM 316"

ULLAGE TRIM TABLE HERMETIC

	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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
4 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4
4 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/8	- 03-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 4 PORT IS - 01-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED ULLAGE IS 3'-10 7/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 7, 2019

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

<http://www.pmacorp.net>



BARGE "MM 316"

ULLAGE TRIM TABLE 8" HATCH

	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	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-1/2	- 00-1/2
1 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2
2 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
4 PORT	00-1/2	00-1/2	01-1/4	01-1/4	01-3/4	01-3/4	02-3/8	02-3/8	03-0/8	03-0/8	03-5/8	03-5/8
4 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-3/8	- 02-3/8	03-0/8	- 03-0/8	03-1/2	- 03-1/2

(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 2 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 7, 2019

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BARGE "MM 316"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	3,415.74	0	3,178.23	0	2,933.03	0	2,687.84	0	2,441.96	0	2,195.89	0	1,949.83	0	1,703.76	0	1,457.69
1/4		1/4	3,412.40	1/4	3,173.12	1/4	2,927.93	1/4	2,682.73	1/4	2,436.83	1/4	2,190.77	1/4	1,944.70	1/4	1,698.63	1/4	1,452.56
1/2		1/2	3,408.19	1/2	3,168.02	1/2	2,922.82	1/2	2,677.62	1/2	2,431.71	1/2	2,185.64	1/2	1,939.57	1/2	1,693.51	1/2	1,447.44
3/4		3/4	3,403.99	3/4	3,162.91	3/4	2,917.71	3/4	2,672.51	3/4	2,426.58	3/4	2,180.51	3/4	1,934.45	3/4	1,688.38	3/4	1,442.31
1		1	3,399.79	1	3,157.80	1	2,912.60	1	2,667.40	1	2,421.45	1	2,175.39	1	1,929.32	1	1,683.25	1	1,437.19
1/4		1/4	3,395.59	1/4	3,152.69	1/4	2,907.49	1/4	2,662.29	1/4	2,416.33	1/4	2,170.26	1/4	1,924.19	1/4	1,678.13	1/4	1,432.06
1/2		1/2	3,390.76	1/2	3,147.58	1/2	2,902.38	1/2	2,657.19	1/2	2,411.20	1/2	2,165.13	1/2	1,919.07	1/2	1,673.00	1/2	1,426.93
3/4		3/4	3,385.92	3/4	3,142.47	3/4	2,897.28	3/4	2,652.08	3/4	2,406.07	3/4	2,160.01	3/4	1,913.94	3/4	1,667.87	3/4	1,421.81
2		2	3,381.09	2	3,137.37	2	2,892.17	2	2,646.97	2	2,400.95	2	2,154.88	2	1,908.81	2	1,662.75	2	1,416.68
1/4		1/4	3,376.26	1/4	3,132.26	1/4	2,887.06	1/4	2,641.86	1/4	2,395.82	1/4	2,149.75	1/4	1,903.69	1/4	1,657.62	1/4	1,411.55
1/2		1/2	3,371.22	1/2	3,127.15	1/2	2,881.95	1/2	2,636.74	1/2	2,390.70	1/2	2,144.63	1/2	1,898.56	1/2	1,652.49	1/2	1,406.43
3/4		3/4	3,366.18	3/4	3,122.04	3/4	2,876.84	3/4	2,631.62	3/4	2,385.57	3/4	2,139.50	3/4	1,893.43	3/4	1,647.37	3/4	1,401.30
3		3	3,361.14	3	3,116.93	3	2,871.73	3	2,626.50	3	2,380.44	3	2,134.38	3	1,888.31	3	1,642.24	3	1,396.17
1/4		1/4	3,356.09	1/4	3,111.82	1/4	2,866.63	1/4	2,621.38	1/4	2,375.32	1/4	2,129.25	1/4	1,883.18	1/4	1,637.11	1/4	1,391.05
1/2		1/2	3,351.04	1/2	3,106.72	1/2	2,861.52	1/2	2,616.26	1/2	2,370.19	1/2	2,124.12	1/2	1,878.06	1/2	1,631.99	1/2	1,385.92
3/4		3/4	3,345.99	3/4	3,101.61	3/4	2,856.41	3/4	2,611.13	3/4	2,365.06	3/4	2,119.00	3/4	1,872.93	3/4	1,626.86	3/4	1,380.79
4		4	3,340.93	4	3,096.50	4	2,851.30	4	2,606.00	4	2,359.94	4	2,113.87	4	1,867.80	4	1,621.74	4	1,375.67
1/4		1/4	3,335.88	1/4	3,091.39	1/4	2,846.19	1/4	2,600.88	1/4	2,354.81	1/4	2,108.74	1/4	1,862.68	1/4	1,616.61	1/4	1,370.54
1/2		1/2	3,330.82	1/2	3,086.28	1/2	2,841.08	1/2	2,595.75	1/2	2,349.68	1/2	2,103.62	1/2	1,857.55	1/2	1,611.48	1/2	1,365.42
3/4		3/4	3,325.77	3/4	3,081.17	3/4	2,835.98	3/4	2,590.63	3/4	2,344.56	3/4	2,098.49	3/4	1,852.42	3/4	1,606.36	3/4	1,360.29
5		5	3,320.71	5	3,076.07	5	2,830.87	5	2,585.50	5	2,339.43	5	2,093.36	5	1,847.30	5	1,601.23	5	1,355.16
1/4		1/4	3,315.65	1/4	3,070.96	1/4	2,825.76	1/4	2,580.37	1/4	2,334.31	1/4	2,088.24	1/4	1,842.17	1/4	1,596.10	1/4	1,350.04
1/2		1/2	3,310.59	1/2	3,065.85	1/2	2,820.65	1/2	2,575.25	1/2	2,329.18	1/2	2,083.11	1/2	1,837.04	1/2	1,590.98	1/2	1,344.91
3/4		3/4	3,305.54	3/4	3,060.74	3/4	2,815.54	3/4	2,570.12	3/4	2,324.05	3/4	2,077.99	3/4	1,831.92	3/4	1,585.85	3/4	1,339.78
6		6	3,300.48	6	3,055.63	6	2,810.43	6	2,564.99	6	2,318.93	6	2,072.86	6	1,826.79	6	1,580.72	6	1,334.66
1/4		1/4	3,295.42	1/4	3,050.52	1/4	2,805.33	1/4	2,559.87	1/4	2,313.80	1/4	2,067.73	1/4	1,821.67	1/4	1,575.60	1/4	1,329.53
1/2		1/2	3,290.36	1/2	3,045.42	1/2	2,800.22	1/2	2,554.74	1/2	2,308.67	1/2	2,062.61	1/2	1,816.54	1/2	1,570.47	1/2	1,324.40
3/4		3/4	3,285.31	3/4	3,040.31	3/4	2,795.11	3/4	2,549.61	3/4	2,303.55	3/4	2,057.48	3/4	1,811.41	3/4	1,565.35	3/4	1,319.28
7		7	3,280.25	7	3,035.20	7	2,790.00	7	2,544.49	7	2,298.42	7	2,052.35	7	1,806.29	7	1,560.22	7	1,314.15
1/4		1/4	3,275.19	1/4	3,030.09	1/4	2,784.89	1/4	2,539.36	1/4	2,293.29	1/4	2,047.23	1/4	1,801.16	1/4	1,555.09	1/4	1,309.03
1/2		1/2	3,270.11	1/2	3,024.98	1/2	2,779.78	1/2	2,534.23	1/2	2,288.17	1/2	2,042.10	1/2	1,796.03	1/2	1,549.97	1/2	1,303.90
3/4		3/4	3,265.02	3/4	3,019.88	3/4	2,774.68	3/4	2,529.11	3/4	2,283.04	3/4	2,036.97	3/4	1,790.91	3/4	1,544.84	3/4	1,298.77
8		8	3,259.94	8	3,014.77	8	2,769.57	8	2,523.98	8	2,277.91	8	2,031.85	8	1,785.78	8	1,539.71	8	1,293.65
1/4		1/4	3,254.86	1/4	3,009.66	1/4	2,764.46	1/4	2,518.86	1/4	2,272.79	1/4	2,026.72	1/4	1,780.65	1/4	1,534.59	1/4	1,288.52
1/2		1/2	3,249.75	1/2	3,004.55	1/2	2,759.35	1/2	2,513.73	1/2	2,267.66	1/2	2,021.59	1/2	1,775.53	1/2	1,529.46	1/2	1,283.39
3/4		3/4	3,244.64	3/4	2,999.44	3/4	2,754.24	3/4	2,508.60	3/4	2,262.54	3/4	2,016.47	3/4	1,770.40	3/4	1,524.33	3/4	1,278.27
9		9	3,239.53	9	2,994.33	9	2,749.14	9	2,503.48	9	2,257.41	9	2,011.34	9	1,765.27	9	1,519.21	9	1,273.14
1/4		1/4	3,234.42	1/4	2,989.23	1/4	2,744.03	1/4	2,498.35	1/4	2,252.28	1/4	2,006.22	1/4	1,760.15	1/4	1,514.08	1/4	1,268.01
1/2		1/2	3,229.32	1/2	2,984.12	1/2	2,738.92	1/2	2,493.22	1/2	2,247.16	1/2	2,001.09	1/2	1,755.02	1/2	1,508.95	1/2	1,262.89
3/4		3/4	3,224.21	3/4	2,979.01	3/4	2,733.81	3/4	2,488.10	3/4	2,242.03	3/4	1,995.96	3/4	1,749.90	3/4	1,503.83	3/4	1,257.76
10		10	3,219.10	10	2,973.90	10	2,728.70	10	2,482.97	10	2,236.90	10	1,990.84	10	1,744.77	10	1,498.70	10	1,252.63
1/4		1/4	3,213.99	1/4	2,968.79	1/4	2,723.59	1/4	2,477.84	1/4	2,231.78	1/4	1,985.71	1/4	1,739.64	1/4	1,493.58	1/4	1,247.51
1/2		1/2	3,208.88	1/2	2,963.68	1/2	2,718.49	1/2	2,472.72	1/2	2,226.65	1/2	1,980.58	1/2	1,734.52	1/2	1,488.45	1/2	1,242.38
3/4		3/4	3,203.77	3/4	2,958.58	3/4	2,713.38	3/4	2,467.59	3/4	2,221.52	3/4	1,975.46	3/4	1,729.39	3/4	1,483.32	3/4	1,237.26
11		11	3,198.67	11	2,953.47	11	2,708.27	11	2,462.47	11	2,216.40	11	1,970.33	11	1,724.26	11	1,478.20	11	1,232.13
1/4	3,425.79	1/4	3,193.56	1/4	2,948.36	1/4	2,703.16	1/4	2,457.34	1/4	2,211.27	1/4	1,965.20	1/4	1,719.14	1/4	1,473.07	1/4	1,227.00
1/2	3,422.44	1/2	3,188.45	1/2	2,943.25	1/2	2,698.05	1/2	2,452.21	1/2	2,206.15	1/2	1,960.08	1/2	1,714.01	1/2	1,467.94	1/2	1,221.88
3/4	3,419.09	3/4	3,183.34	3/4	2,938.14	3/4	2,692.94	3/4	2,447.09	3/4	2,201.02	3/4	1,954.95	3/4	1,708.88	3/4	1,462.82	3/4	1,216.75

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 29'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 316"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,211.62	0	966.49	0	722.14	0	478.39	0	236.32	0	38.43	0		0		0		0	
1/4	1,206.50	1/4	961.47	1/4	717.04	1/4	473.26	1/4	231.71	1/4	34.87	1/4		1/4		1/4		1/4	
1/2	1,201.37	1/2	956.45	1/2	711.96	1/2	468.13	1/2	227.18	1/2	31.73	1/2		1/2		1/2		1/2	
3/4	1,196.24	3/4	951.43	3/4	706.88	3/4	463.01	3/4	222.65	3/4	28.58	3/4		3/4		3/4		3/4	
1	1,191.12	1	946.40	1	701.79	1	457.88	1	218.12	1	25.43	1		1		1		1	
1/4	1,185.99	1/4	941.38	1/4	696.71	1/4	452.75	1/4	213.59	1/4	22.28	1/4		1/4		1/4		1/4	
1/2	1,180.87	1/2	936.36	1/2	691.64	1/2	447.62	1/2	209.15	1/2	20.17	1/2		1/2		1/2		1/2	
3/4	1,175.74	3/4	931.34	3/4	686.56	3/4	442.50	3/4	204.71	3/4	18.06	3/4		3/4		3/4		3/4	
2	1,170.61	2	926.31	2	681.49	2	437.37	2	200.27	2	15.95	2		2		2		2	
1/4	1,165.49	1/4	921.29	1/4	676.41	1/4	432.24	1/4	195.83	1/4	13.84	1/4		1/4		1/4		1/4	
1/2	1,160.36	1/2	916.27	1/2	671.34	1/2	427.12	1/2	191.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,155.23	3/4	911.25	3/4	666.27	3/4	421.99	3/4	187.12	3/4		3/4		3/4		3/4		3/4	
3	1,150.11	3	906.22	3	661.19	3	416.86	3	182.76	3		3		3		3		3	
1/4	1,144.98	1/4	901.20	1/4	656.12	1/4	411.73	1/4	178.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,139.85	1/2	896.13	1/2	651.05	1/2	406.61	1/2	174.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,134.73	3/4	891.05	3/4	645.98	3/4	401.48	3/4	169.87	3/4		3/4		3/4		3/4		3/4	
4	1,129.60	4	885.98	4	640.91	4	396.35	4	165.61	4		4		4		4		4	
1/4	1,124.47	1/4	880.90	1/4	635.84	1/4	391.23	1/4	161.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,119.35	1/2	875.78	1/2	630.77	1/2	386.10	1/2	157.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,114.22	3/4	870.65	3/4	625.70	3/4	380.97	3/4	152.82	3/4		3/4		3/4		3/4		3/4	
5	1,109.10	5	865.52	5	620.63	5	375.84	5	148.56	5		5		5		5		5	
1/4	1,103.97	1/4	860.39	1/4	615.56	1/4	370.72	1/4	144.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,098.84	1/2	855.27	1/2	610.49	1/2	365.59	1/2	140.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,093.72	3/4	850.14	3/4	605.42	3/4	360.46	3/4	135.79	3/4		3/4		3/4		3/4		3/4	
6	1,088.59	6	845.01	6	600.35	6	355.34	6	131.53	6		6		6		6		6	
1/4	1,083.46	1/4	839.88	1/4	595.28	1/4	350.21	1/4	127.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,078.34	1/2	834.76	1/2	590.21	1/2	345.08	1/2	123.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,073.21	3/4	829.63	3/4	585.14	3/4	339.95	3/4	118.94	3/4		3/4		3/4		3/4		3/4	
7	1,068.08	7	824.50	7	580.07	7	334.83	7	114.78	7		7		7		7		7	
1/4	1,062.96	1/4	819.37	1/4	575.00	1/4	329.70	1/4	110.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,057.83	1/2	814.25	1/2	569.93	1/2	324.60	1/2	106.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,052.71	3/4	809.12	3/4	564.86	3/4	319.49	3/4	102.45	3/4		3/4		3/4		3/4		3/4	
8	1,047.58	8	803.99	8	559.79	8	314.38	8	98.37	8		8		8		8		8	
1/4	1,042.45	1/4	798.86	1/4	554.72	1/4	309.28	1/4	94.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,037.33	1/2	793.74	1/2	549.65	1/2	304.24	1/2	90.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,032.20	3/4	788.61	3/4	544.58	3/4	299.20	3/4	86.47	3/4		3/4		3/4		3/4		3/4	
9	1,027.07	9	783.48	9	539.51	9	294.16	9	82.56	9		9		9		9		9	
1/4	1,021.95	1/4	778.36	1/4	534.44	1/4	289.12	1/4	78.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,016.87	1/2	773.23	1/2	529.37	1/2	284.17	1/2	74.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,011.80	3/4	768.10	3/4	524.30	3/4	279.21	3/4	71.16	3/4		3/4		3/4		3/4		3/4	
10	1,006.72	10	762.97	10	519.23	10	274.26	10	67.42	10		10		10		10		10	
1/4	1,001.65	1/4	757.85	1/4	514.16	1/4	269.31	1/4	63.68	1/4		1/4		1/4		1/4		1/4	
1/2	996.63	1/2	752.74	1/2	509.06	1/2	264.53	1/2	60.03	1/2		1/2		1/2		1/2		1/2	
3/4	991.60	3/4	747.63	3/4	503.97	3/4	259.74	3/4	56.38	3/4		3/4		3/4		3/4		3/4	
11	986.58	11	742.52	11	498.87	11	254.96	11	52.73	11		11		11		11		11	
1/4	981.56	1/4	737.41	1/4	493.77	1/4	250.17	1/4	49.08	1/4		1/4		1/4		1/4		1/4	
1/2	976.54	1/2	732.32	1/2	488.64	1/2	245.56	1/2	45.53	1/2		1/2		1/2		1/2		1/2	
3/4	971.52	3/4	727.23	3/4	483.51	3/4	240.94	3/4	41.98	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	3,425.85	0	3,185.77	0	2,939.75	0	2,693.72	0	2,447.00	0	2,200.11	0	1,953.22	0	1,706.32	0	1,459.43
1/4		1/4	3,421.63	1/4	3,180.64	1/4	2,934.62	1/4	2,688.60	1/4	2,441.86	1/4	2,194.97	1/4	1,948.07	1/4	1,701.18	1/4	1,454.29
1/2		1/2	3,417.42	1/2	3,175.52	1/2	2,929.49	1/2	2,683.47	1/2	2,436.71	1/2	2,189.82	1/2	1,942.93	1/2	1,696.04	1/2	1,449.14
3/4		3/4	3,413.20	3/4	3,170.39	3/4	2,924.37	3/4	2,678.34	3/4	2,431.57	3/4	2,184.68	3/4	1,937.79	3/4	1,690.89	3/4	1,444.00
1		1	3,408.98	1	3,165.27	1	2,919.24	1	2,673.22	1	2,426.43	1	2,179.53	1	1,932.64	1	1,685.75	1	1,438.86
1/4		1/4	3,404.14	1/4	3,160.14	1/4	2,914.12	1/4	2,668.09	1/4	2,421.28	1/4	2,174.39	1/4	1,927.50	1/4	1,680.61	1/4	1,433.71
1/2		1/2	3,399.29	1/2	3,155.02	1/2	2,908.99	1/2	2,662.97	1/2	2,416.14	1/2	2,169.25	1/2	1,922.35	1/2	1,675.46	1/2	1,428.57
3/4		3/4	3,394.44	3/4	3,149.89	3/4	2,903.87	3/4	2,657.84	3/4	2,411.00	3/4	2,164.10	3/4	1,917.21	3/4	1,670.32	3/4	1,423.43
2		2	3,389.59	2	3,144.77	2	2,898.74	2	2,652.72	2	2,405.85	2	2,158.96	2	1,912.07	2	1,665.17	2	1,418.28
1/4		1/4	3,384.53	1/4	3,139.64	1/4	2,893.62	1/4	2,647.58	1/4	2,400.71	1/4	2,153.82	1/4	1,906.92	1/4	1,660.03	1/4	1,413.14
1/2		1/2	3,379.47	1/2	3,134.51	1/2	2,888.49	1/2	2,642.44	1/2	2,395.57	1/2	2,148.67	1/2	1,901.78	1/2	1,654.89	1/2	1,407.99
3/4		3/4	3,374.42	3/4	3,129.39	3/4	2,883.36	3/4	2,637.31	3/4	2,390.42	3/4	2,143.53	3/4	1,896.64	3/4	1,649.74	3/4	1,402.85
3		3	3,369.36	3	3,124.26	3	2,878.24	3	2,632.17	3	2,385.28	3	2,138.39	3	1,891.49	3	1,644.60	3	1,397.71
1/4		1/4	3,364.29	1/4	3,119.14	1/4	2,873.11	1/4	2,627.03	1/4	2,380.13	1/4	2,133.24	1/4	1,886.35	1/4	1,639.46	1/4	1,392.56
1/2		1/2	3,359.22	1/2	3,114.01	1/2	2,867.99	1/2	2,621.88	1/2	2,374.99	1/2	2,128.10	1/2	1,881.21	1/2	1,634.31	1/2	1,387.42
3/4		3/4	3,354.15	3/4	3,108.89	3/4	2,862.86	3/4	2,616.74	3/4	2,369.85	3/4	2,122.95	3/4	1,876.06	3/4	1,629.17	3/4	1,382.28
4		4	3,349.07	4	3,103.76	4	2,857.74	4	2,611.60	4	2,364.70	4	2,117.81	4	1,870.92	4	1,624.03	4	1,377.13
1/4		1/4	3,344.00	1/4	3,098.64	1/4	2,852.61	1/4	2,606.45	1/4	2,359.56	1/4	2,112.67	1/4	1,865.77	1/4	1,618.88	1/4	1,371.99
1/2		1/2	3,338.93	1/2	3,093.51	1/2	2,847.49	1/2	2,601.31	1/2	2,354.42	1/2	2,107.52	1/2	1,860.63	1/2	1,613.74	1/2	1,366.85
3/4		3/4	3,333.85	3/4	3,088.38	3/4	2,842.36	3/4	2,596.17	3/4	2,349.27	3/4	2,102.38	3/4	1,855.49	3/4	1,608.59	3/4	1,361.70
5		5	3,328.78	5	3,083.26	5	2,837.24	5	2,591.02	5	2,344.13	5	2,097.24	5	1,850.34	5	1,603.45	5	1,356.56
1/4		1/4	3,323.70	1/4	3,078.13	1/4	2,832.11	1/4	2,585.88	1/4	2,338.99	1/4	2,092.09	1/4	1,845.20	1/4	1,598.31	1/4	1,351.41
1/2		1/2	3,318.63	1/2	3,073.01	1/2	2,826.98	1/2	2,580.74	1/2	2,333.84	1/2	2,086.95	1/2	1,840.06	1/2	1,593.16	1/2	1,346.27
3/4		3/4	3,313.55	3/4	3,067.88	3/4	2,821.86	3/4	2,575.59	3/4	2,328.70	3/4	2,081.81	3/4	1,834.91	3/4	1,588.02	3/4	1,341.13
6		6	3,308.48	6	3,062.76	6	2,816.73	6	2,570.45	6	2,323.56	6	2,076.66	6	1,829.77	6	1,582.88	6	1,335.98
1/4		1/4	3,303.41	1/4	3,057.63	1/4	2,811.61	1/4	2,565.30	1/4	2,318.41	1/4	2,071.52	1/4	1,824.63	1/4	1,577.73	1/4	1,330.84
1/2		1/2	3,298.33	1/2	3,052.51	1/2	2,806.48	1/2	2,560.16	1/2	2,313.27	1/2	2,066.38	1/2	1,819.48	1/2	1,572.59	1/2	1,325.70
3/4		3/4	3,293.26	3/4	3,047.38	3/4	2,801.36	3/4	2,555.02	3/4	2,308.12	3/4	2,061.23	3/4	1,814.34	3/4	1,567.45	3/4	1,320.55
7		7	3,288.18	7	3,042.26	7	2,796.23	7	2,549.87	7	2,302.98	7	2,056.09	7	1,809.20	7	1,562.30	7	1,315.41
1/4		1/4	3,283.08	1/4	3,037.13	1/4	2,791.11	1/4	2,544.73	1/4	2,297.84	1/4	2,050.94	1/4	1,804.05	1/4	1,557.16	1/4	1,310.27
1/2		1/2	3,277.98	1/2	3,032.00	1/2	2,785.98	1/2	2,539.59	1/2	2,292.69	1/2	2,045.80	1/2	1,798.91	1/2	1,552.02	1/2	1,305.12
3/4		3/4	3,272.88	3/4	3,026.88	3/4	2,780.85	3/4	2,534.44	3/4	2,287.55	3/4	2,040.66	3/4	1,793.76	3/4	1,546.87	3/4	1,299.98
8		8	3,267.78	8	3,021.75	8	2,775.73	8	2,529.30	8	2,282.41	8	2,035.51	8	1,788.62	8	1,541.73	8	1,294.84
1/4		1/4	3,262.65	1/4	3,016.63	1/4	2,770.60	1/4	2,524.16	1/4	2,277.26	1/4	2,030.37	1/4	1,783.48	1/4	1,536.58	1/4	1,289.69
1/2		1/2	3,257.53	1/2	3,011.50	1/2	2,765.48	1/2	2,519.01	1/2	2,272.12	1/2	2,025.23	1/2	1,778.33	1/2	1,531.44	1/2	1,284.55
3/4		3/4	3,252.40	3/4	3,006.38	3/4	2,760.35	3/4	2,513.87	3/4	2,266.98	3/4	2,020.08	3/4	1,773.19	3/4	1,526.30	3/4	1,279.40
9		9	3,247.28	9	3,001.25	9	2,755.23	9	2,508.72	9	2,261.83	9	2,014.94	9	1,768.05	9	1,521.15	9	1,274.26
1/4		1/4	3,242.15	1/4	2,996.13	1/4	2,750.10	1/4	2,503.58	1/4	2,256.69	1/4	2,009.80	1/4	1,762.90	1/4	1,516.01	1/4	1,269.12
1/2		1/2	3,237.02	1/2	2,991.00	1/2	2,744.98	1/2	2,498.44	1/2	2,251.54	1/2	2,004.65	1/2	1,757.76	1/2	1,510.87	1/2	1,263.97
3/4		3/4	3,231.90	3/4	2,985.87	3/4	2,739.85	3/4	2,493.29	3/4	2,246.40	3/4	1,999.51	3/4	1,752.62	3/4	1,505.72	3/4	1,258.83
10		10	3,226.77	10	2,980.75	10	2,734.73	10	2,488.15	10	2,241.26	10	1,994.36	10	1,747.47	10	1,500.58	10	1,253.69
1/4		1/4	3,221.65	1/4	2,975.62	1/4	2,729.60	1/4	2,483.01	1/4	2,236.11	1/4	1,989.22	1/4	1,742.33	1/4	1,495.44	1/4	1,248.54
1/2		1/2	3,216.52	1/2	2,970.50	1/2	2,724.47	1/2	2,477.86	1/2	2,230.97	1/2	1,984.08	1/2	1,737.18	1/2	1,490.29	1/2	1,243.40
3/4		3/4	3,211.40	3/4	2,965.37	3/4	2,719.35	3/4	2,472.72	3/4	2,225.83	3/4	1,978.93	3/4	1,732.04	3/4	1,485.15	3/4	1,238.26
11	3,439.29	11	3,206.27	11	2,960.25	11	2,714.22	11	2,467.58	11	2,220.68	11	1,973.79	11	1,726.90	11	1,480.00	11	1,233.11
1/4	3,435.93	1/4	3,201.15	1/4	2,955.12	1/4	2,709.10	1/4	2,462.43	1/4	2,215.54	1/4	1,968.65	1/4	1,721.75	1/4	1,474.86	1/4	1,227.97
1/2	3,432.57	1/2	3,196.02	1/2	2,950.00	1/2	2,703.97	1/2	2,457.29	1/2	2,210.40	1/2	1,963.50	1/2	1,716.61	1/2	1,469.72	1/2	1,222.82
3/4	3,429.21	3/4	3,190.89	3/4	2,944.87	3/4	2,698.85	3/4	2,452.15	3/4	2,205.25	3/4	1,958.36	3/4	1,711.47	3/4	1,464.57	3/4	1,217.68

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.
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 29'-09" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 31'-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 "MM 316"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,212.54	0	966.69	0	721.22	0	475.09	0	232.71	0	35.05	0		0		0		0	
1/4	1,207.39	1/4	961.65	1/4	716.08	1/4	469.94	1/4	228.16	1/4	31.89	1/4		1/4		1/4		1/4	
1/2	1,202.25	1/2	956.61	1/2	710.94	1/2	464.80	1/2	223.62	1/2	28.72	1/2		1/2		1/2		1/2	
3/4	1,197.11	3/4	951.57	3/4	705.81	3/4	459.65	3/4	219.07	3/4	25.56	3/4		3/4		3/4		3/4	
1	1,191.96	1	946.53	1	700.67	1	454.51	1	214.52	1	22.39	1		1		1		1	
1/4	1,186.82	1/4	941.49	1/4	695.54	1/4	449.36	1/4	210.06	1/4	20.27	1/4		1/4		1/4		1/4	
1/2	1,181.68	1/2	936.45	1/2	690.41	1/2	444.22	1/2	205.61	1/2	18.14	1/2		1/2		1/2		1/2	
3/4	1,176.53	3/4	931.41	3/4	685.28	3/4	439.08	3/4	201.15	3/4	16.02	3/4		3/4		3/4		3/4	
2	1,171.39	2	926.37	2	680.16	2	433.93	2	196.69	2	13.89	2		2		2		2	
1/4	1,166.25	1/4	921.33	1/4	675.03	1/4	428.79	1/4	192.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,161.10	1/2	916.29	1/2	669.90	1/2	423.64	1/2	187.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,155.96	3/4	911.25	3/4	664.78	3/4	418.50	3/4	183.57	3/4		3/4		3/4		3/4		3/4	
3	1,150.81	3	906.21	3	659.65	3	413.35	3	179.20	3		3		3		3		3	
1/4	1,145.67	1/4	901.12	1/4	654.53	1/4	408.21	1/4	174.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,140.53	1/2	896.03	1/2	649.40	1/2	403.07	1/2	170.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,135.38	3/4	890.93	3/4	644.28	3/4	397.92	3/4	166.35	3/4		3/4		3/4		3/4		3/4	
4	1,130.24	4	885.84	4	639.16	4	392.78	4	162.06	4		4		4		4		4	
1/4	1,125.10	1/4	880.70	1/4	634.03	1/4	387.63	1/4	157.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,119.95	1/2	875.55	1/2	628.91	1/2	382.49	1/2	153.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,114.81	3/4	870.41	3/4	623.79	3/4	377.34	3/4	149.23	3/4		3/4		3/4		3/4		3/4	
5	1,109.67	5	865.26	5	618.66	5	372.20	5	144.95	5		5		5		5		5	
1/4	1,104.52	1/4	860.12	1/4	613.54	1/4	367.06	1/4	140.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,099.38	1/2	854.98	1/2	608.42	1/2	361.91	1/2	136.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,094.23	3/4	849.83	3/4	603.29	3/4	356.77	3/4	132.14	3/4		3/4		3/4		3/4		3/4	
6	1,089.09	6	844.69	6	598.17	6	351.62	6	127.87	6		6		6		6		6	
1/4	1,083.95	1/4	839.54	1/4	593.05	1/4	346.48	1/4	123.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,078.80	1/2	834.40	1/2	587.92	1/2	341.33	1/2	119.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,073.66	3/4	829.25	3/4	582.80	3/4	336.19	3/4	115.31	3/4		3/4		3/4		3/4		3/4	
7	1,068.52	7	824.11	7	577.68	7	331.05	7	111.13	7		7		7		7		7	
1/4	1,063.37	1/4	818.96	1/4	572.56	1/4	325.92	1/4	107.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,058.23	1/2	813.82	1/2	567.43	1/2	320.80	1/2	102.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,053.09	3/4	808.67	3/4	562.31	3/4	315.68	3/4	98.84	3/4		3/4		3/4		3/4		3/4	
8	1,047.94	8	803.53	8	557.19	8	310.56	8	94.74	8		8		8		8		8	
1/4	1,042.80	1/4	798.38	1/4	552.06	1/4	305.50	1/4	90.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,037.66	1/2	793.24	1/2	546.94	1/2	300.44	1/2	86.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,032.51	3/4	788.10	3/4	541.82	3/4	295.38	3/4	82.96	3/4		3/4		3/4		3/4		3/4	
9	1,027.37	9	782.95	9	536.69	9	290.33	9	79.03	9		9		9		9		9	
1/4	1,022.28	1/4	777.81	1/4	531.57	1/4	285.36	1/4	75.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,017.18	1/2	772.66	1/2	526.45	1/2	280.39	1/2	71.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,012.09	3/4	767.52	3/4	521.32	3/4	275.42	3/4	67.75	3/4		3/4		3/4		3/4		3/4	
10	1,007.00	10	762.37	10	516.20	10	270.45	10	63.99	10		10		10		10		10	
1/4	1,001.96	1/4	757.23	1/4	511.06	1/4	265.65	1/4	60.33	1/4		1/4		1/4		1/4		1/4	
1/2	996.92	1/2	752.08	1/2	505.93	1/2	260.84	1/2	56.66	1/2		1/2		1/2		1/2		1/2	
3/4	991.88	3/4	746.94	3/4	500.80	3/4	256.04	3/4	52.99	3/4		3/4		3/4		3/4		3/4	
11	986.84	11	741.79	11	495.66	11	251.24	11	49.32	11		11		11		11		11	
1/4	981.80	1/4	736.65	1/4	490.52	1/4	246.61	1/4	45.75	1/4		1/4		1/4		1/4		1/4	
1/2	976.76	1/2	731.51	1/2	485.37	1/2	241.97	1/2	42.19	1/2		1/2		1/2		1/2		1/2	
3/4	971.72	3/4	726.36	3/4	480.23	3/4	237.34	3/4	38.62	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MM 316"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,288.00	0	3,991.84	0	3,688.33	0	3,384.83	0	3,080.64	0	2,776.27	0	2,471.90	0	2,167.53	0	1,863.15
1/4		1/4	4,282.80	1/4	3,985.51	1/4	3,682.01	1/4	3,378.51	1/4	3,074.30	1/4	2,769.93	1/4	2,465.56	1/4	2,161.18	1/4	1,856.81
1/2		1/2	4,277.60	1/2	3,979.19	1/2	3,675.69	1/2	3,372.18	1/2	3,067.96	1/2	2,763.59	1/2	2,459.22	1/2	2,154.84	1/2	1,850.47
3/4		3/4	4,272.40	3/4	3,972.87	3/4	3,669.36	3/4	3,365.86	3/4	3,061.62	3/4	2,757.25	3/4	2,452.88	3/4	2,148.50	3/4	1,844.13
1		1	4,267.19	1	3,966.54	1	3,663.04	1	3,359.54	1	3,055.28	1	2,750.91	1	2,446.53	1	2,142.16	1	1,837.79
1/4		1/4	4,261.21	1/4	3,960.22	1/4	3,656.72	1/4	3,353.21	1/4	3,048.94	1/4	2,744.57	1/4	2,440.19	1/4	2,135.82	1/4	1,831.45
1/2		1/2	4,255.23	1/2	3,953.90	1/2	3,650.39	1/2	3,346.89	1/2	3,042.60	1/2	2,738.22	1/2	2,433.85	1/2	2,129.48	1/2	1,825.11
3/4		3/4	4,249.25	3/4	3,947.58	3/4	3,644.07	3/4	3,340.57	3/4	3,036.26	3/4	2,731.88	3/4	2,427.51	3/4	2,123.14	3/4	1,818.77
2		2	4,243.27	2	3,941.25	2	3,637.75	2	3,334.24	2	3,029.92	2	2,725.54	2	2,421.17	2	2,116.80	2	1,812.42
1/4		1/4	4,237.03	1/4	3,934.93	1/4	3,631.43	1/4	3,327.91	1/4	3,023.57	1/4	2,719.20	1/4	2,414.83	1/4	2,110.46	1/4	1,806.08
1/2		1/2	4,230.79	1/2	3,928.61	1/2	3,625.10	1/2	3,321.58	1/2	3,017.23	1/2	2,712.86	1/2	2,408.49	1/2	2,104.11	1/2	1,799.74
3/4		3/4	4,224.55	3/4	3,922.28	3/4	3,618.78	3/4	3,315.25	3/4	3,010.89	3/4	2,706.52	3/4	2,402.15	3/4	2,097.77	3/4	1,793.40
3		3	4,218.31	3	3,915.96	3	3,612.46	3	3,308.92	3	3,004.55	3	2,700.18	3	2,395.81	3	2,091.43	3	1,787.06
1/4		1/4	4,212.05	1/4	3,909.64	1/4	3,606.13	1/4	3,302.58	1/4	2,998.21	1/4	2,693.84	1/4	2,389.46	1/4	2,085.09	1/4	1,780.72
1/2		1/2	4,205.80	1/2	3,903.31	1/2	3,599.81	1/2	3,296.24	1/2	2,991.87	1/2	2,687.50	1/2	2,383.12	1/2	2,078.75	1/2	1,774.38
3/4		3/4	4,199.54	3/4	3,896.99	3/4	3,593.49	3/4	3,289.90	3/4	2,985.53	3/4	2,681.15	3/4	2,376.78	3/4	2,072.41	3/4	1,768.04
4		4	4,193.29	4	3,890.67	4	3,587.16	4	3,283.56	4	2,979.19	4	2,674.81	4	2,370.44	4	2,066.07	4	1,761.70
1/4		1/4	4,187.03	1/4	3,884.35	1/4	3,580.84	1/4	3,277.22	1/4	2,972.85	1/4	2,668.47	1/4	2,364.10	1/4	2,059.73	1/4	1,755.35
1/2		1/2	4,180.77	1/2	3,878.02	1/2	3,574.52	1/2	3,270.88	1/2	2,966.50	1/2	2,662.13	1/2	2,357.76	1/2	2,053.39	1/2	1,749.01
3/4		3/4	4,174.51	3/4	3,871.70	3/4	3,568.20	3/4	3,264.54	3/4	2,960.16	3/4	2,655.79	3/4	2,351.42	3/4	2,047.04	3/4	1,742.67
5		5	4,168.25	5	3,865.38	5	3,561.87	5	3,258.19	5	2,953.82	5	2,649.45	5	2,345.08	5	2,040.70	5	1,736.33
1/4		1/4	4,161.99	1/4	3,859.05	1/4	3,555.55	1/4	3,251.85	1/4	2,947.48	1/4	2,643.11	1/4	2,338.74	1/4	2,034.36	1/4	1,729.99
1/2		1/2	4,155.73	1/2	3,852.73	1/2	3,549.23	1/2	3,245.51	1/2	2,941.14	1/2	2,636.77	1/2	2,332.39	1/2	2,028.02	1/2	1,723.65
3/4		3/4	4,149.47	3/4	3,846.41	3/4	3,542.90	3/4	3,239.17	3/4	2,934.80	3/4	2,630.43	3/4	2,326.05	3/4	2,021.68	3/4	1,717.31
6		6	4,143.21	6	3,840.08	6	3,536.58	6	3,232.83	6	2,928.46	6	2,624.08	6	2,319.71	6	2,015.34	6	1,710.97
1/4		1/4	4,136.95	1/4	3,833.76	1/4	3,530.26	1/4	3,226.49	1/4	2,922.12	1/4	2,617.74	1/4	2,313.37	1/4	2,009.00	1/4	1,704.63
1/2		1/2	4,130.69	1/2	3,827.44	1/2	3,523.93	1/2	3,220.15	1/2	2,915.78	1/2	2,611.40	1/2	2,307.03	1/2	2,002.66	1/2	1,698.28
3/4		3/4	4,124.43	3/4	3,821.12	3/4	3,517.61	3/4	3,213.81	3/4	2,909.43	3/4	2,605.06	3/4	2,300.69	3/4	1,996.32	3/4	1,691.94
7		7	4,118.17	7	3,814.79	7	3,511.29	7	3,207.47	7	2,903.09	7	2,598.72	7	2,294.35	7	1,989.97	7	1,685.60
1/4		1/4	4,111.88	1/4	3,808.47	1/4	3,504.97	1/4	3,201.12	1/4	2,896.75	1/4	2,592.38	1/4	2,288.01	1/4	1,983.63	1/4	1,679.26
1/2		1/2	4,105.59	1/2	3,802.15	1/2	3,498.64	1/2	3,194.78	1/2	2,890.41	1/2	2,586.04	1/2	2,281.67	1/2	1,977.29	1/2	1,672.92
3/4		3/4	4,099.29	3/4	3,795.82	3/4	3,492.32	3/4	3,188.44	3/4	2,884.07	3/4	2,579.70	3/4	2,275.32	3/4	1,970.95	3/4	1,666.58
8		8	4,093.00	8	3,789.50	8	3,486.00	8	3,182.10	8	2,877.73	8	2,573.36	8	2,268.98	8	1,964.61	8	1,660.24
1/4		1/4	4,086.68	1/4	3,783.18	1/4	3,479.67	1/4	3,175.76	1/4	2,871.39	1/4	2,567.01	1/4	2,262.64	1/4	1,958.27	1/4	1,653.90
1/2		1/2	4,080.36	1/2	3,776.85	1/2	3,473.35	1/2	3,169.42	1/2	2,865.05	1/2	2,560.67	1/2	2,256.30	1/2	1,951.93	1/2	1,647.56
3/4		3/4	4,074.03	3/4	3,770.53	3/4	3,467.03	3/4	3,163.08	3/4	2,858.71	3/4	2,554.33	3/4	2,249.96	3/4	1,945.59	3/4	1,641.21
9		9	4,067.71	9	3,764.21	9	3,460.70	9	3,156.74	9	2,852.36	9	2,547.99	9	2,243.62	9	1,939.25	9	1,634.87
1/4		1/4	4,061.39	1/4	3,757.89	1/4	3,454.38	1/4	3,150.40	1/4	2,846.02	1/4	2,541.65	1/4	2,237.28	1/4	1,932.90	1/4	1,628.53
1/2		1/2	4,055.07	1/2	3,751.56	1/2	3,448.06	1/2	3,144.06	1/2	2,839.68	1/2	2,535.31	1/2	2,230.94	1/2	1,926.56	1/2	1,622.19
3/4		3/4	4,048.74	3/4	3,745.24	3/4	3,441.74	3/4	3,137.71	3/4	2,833.34	3/4	2,528.97	3/4	2,224.60	3/4	1,920.22	3/4	1,615.85
10		10	4,042.42	10	3,738.92	10	3,435.41	10	3,131.37	10	2,827.00	10	2,522.63	10	2,218.25	10	1,913.88	10	1,609.51
1/4		1/4	4,036.10	1/4	3,732.59	1/4	3,429.09	1/4	3,125.03	1/4	2,820.66	1/4	2,516.29	1/4	2,211.91	1/4	1,907.54	1/4	1,603.17
1/2		1/2	4,029.77	1/2	3,726.27	1/2	3,422.77	1/2	3,118.69	1/2	2,814.32	1/2	2,509.95	1/2	2,205.57	1/2	1,901.20	1/2	1,596.83
3/4		3/4	4,023.45	3/4	3,719.95	3/4	3,416.44	3/4	3,112.35	3/4	2,807.98	3/4	2,503.60	3/4	2,199.23	3/4	1,894.86	3/4	1,590.49
11	4,304.59	11	4,017.13	11	3,713.62	11	3,410.12	11	3,106.01	11	2,801.64	11	2,497.26	11	2,192.89	11	1,888.52	11	1,584.14
1/4	4,300.44	1/4	4,010.81	1/4	3,707.30	1/4	3,403.80	1/4	3,099.67	1/4	2,795.29	1/4	2,490.92	1/4	2,186.55	1/4	1,882.18	1/4	1,577.80
1/2	4,296.30	1/2	4,004.48	1/2	3,700.98	1/2	3,397.47	1/2	3,093.33	1/2	2,788.95	1/2	2,484.58	1/2	2,180.21	1/2	1,875.83	1/2	1,571.46
3/4	4,292.15	3/4	3,998.16	3/4	3,694.66	3/4	3,391.15	3/4	3,086.99	3/4	2,782.61	3/4	2,478.24	3/4	2,173.87	3/4	1,869.49	3/4	1,565.12

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 37'-09" 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 "MM 316"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,558.78	0	1,255.83	0	955.10	0	663.20	0	359.99	0	62.09	0		0		0		0	
1/4	1,552.44	1/4	1,249.63	1/4	949.04	1/4	656.86	1/4	353.85	1/4	56.36	1/4		1/4		1/4		1/4	
1/2	1,546.10	1/2	1,243.44	1/2	942.99	1/2	650.52	1/2	347.71	1/2	50.63	1/2		1/2		1/2		1/2	
3/4	1,539.76	3/4	1,237.24	3/4	936.93	3/4	644.18	3/4	341.56	3/4	44.90	3/4		3/4		3/4		3/4	
1	1,533.42	1	1,231.04	1	930.88	1	637.84	1	335.42	1	39.17	1		1		1		1	
1/4	1,527.07	1/4	1,224.84	1/4	924.83	1/4	631.49	1/4	329.28	1/4	34.61	1/4		1/4		1/4		1/4	
1/2	1,520.73	1/2	1,218.64	1/2	918.78	1/2	625.15	1/2	323.14	1/2	30.06	1/2		1/2		1/2		1/2	
3/4	1,514.39	3/4	1,212.44	3/4	912.74	3/4	618.81	3/4	316.99	3/4	25.50	3/4		3/4		3/4		3/4	
2	1,508.05	2	1,206.24	2	906.69	2	612.47	2	310.85	2	20.94	2		2		2		2	
1/4	1,501.71	1/4	1,200.05	1/4	900.64	1/4	606.13	1/4	304.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,495.37	1/2	1,193.85	1/2	894.60	1/2	599.78	1/2	298.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,489.03	3/4	1,187.65	3/4	888.55	3/4	593.44	3/4	292.42	3/4		3/4		3/4		3/4		3/4	
3	1,482.69	3	1,181.45	3	882.51	3	587.10	3	286.28	3		3		3		3		3	
1/4	1,476.35	1/4	1,175.18	1/4	876.47	1/4	580.76	1/4	280.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,470.00	1/2	1,168.91	1/2	870.43	1/2	574.42	1/2	274.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,463.66	3/4	1,162.64	3/4	864.38	3/4	568.08	3/4	267.85	3/4		3/4		3/4		3/4		3/4	
4	1,457.32	4	1,156.37	4	858.34	4	561.73	4	261.71	4		4		4		4		4	
1/4	1,450.98	1/4	1,150.03	1/4	852.30	1/4	555.39	1/4	255.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,444.64	1/2	1,143.69	1/2	846.26	1/2	549.05	1/2	249.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,438.30	3/4	1,137.34	3/4	840.22	3/4	542.71	3/4	242.99	3/4		3/4		3/4		3/4		3/4	
5	1,431.96	5	1,131.00	5	834.17	5	536.37	5	236.74	5		5		5		5		5	
1/4	1,425.62	1/4	1,124.66	1/4	828.13	1/4	530.02	1/4	230.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,419.28	1/2	1,118.32	1/2	822.09	1/2	523.68	1/2	224.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,412.93	3/4	1,111.98	3/4	816.05	3/4	517.34	3/4	217.72	3/4		3/4		3/4		3/4		3/4	
6	1,406.59	6	1,105.63	6	810.01	6	511.00	6	211.38	6		6		6		6		6	
1/4	1,400.25	1/4	1,099.29	1/4	803.96	1/4	504.66	1/4	205.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,393.91	1/2	1,092.95	1/2	797.92	1/2	498.32	1/2	198.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,387.57	3/4	1,086.61	3/4	791.88	3/4	491.97	3/4	192.35	3/4		3/4		3/4		3/4		3/4	
7	1,381.23	7	1,080.27	7	785.84	7	485.63	7	186.01	7		7		7		7		7	
1/4	1,374.89	1/4	1,073.92	1/4	779.80	1/4	479.29	1/4	179.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,368.55	1/2	1,067.58	1/2	773.75	1/2	472.95	1/2	173.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,362.21	3/4	1,061.24	3/4	767.71	3/4	466.61	3/4	166.98	3/4		3/4		3/4		3/4		3/4	
8	1,355.86	8	1,054.90	8	761.67	8	460.26	8	160.64	8		8		8		8		8	
1/4	1,349.52	1/4	1,048.56	1/4	755.63	1/4	453.92	1/4	154.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,343.18	1/2	1,042.21	1/2	749.59	1/2	447.58	1/2	148.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,336.84	3/4	1,035.87	3/4	743.55	3/4	441.24	3/4	141.92	3/4		3/4		3/4		3/4		3/4	
9	1,330.50	9	1,029.53	9	737.50	9	434.90	9	135.68	9		9		9		9		9	
1/4	1,324.23	1/4	1,023.19	1/4	731.46	1/4	428.56	1/4	129.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,317.96	1/2	1,016.85	1/2	725.42	1/2	422.21	1/2	123.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,311.69	3/4	1,010.50	3/4	719.38	3/4	415.87	3/4	117.26	3/4		3/4		3/4		3/4		3/4	
10	1,305.42	10	1,004.16	10	713.34	10	409.53	10	111.12	10		10		10		10		10	
1/4	1,299.22	1/4	997.96	1/4	707.14	1/4	403.29	1/4	104.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,293.02	1/2	991.76	1/2	700.95	1/2	397.05	1/2	98.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,286.82	3/4	985.55	3/4	694.76	3/4	390.80	3/4	92.71	3/4		3/4		3/4		3/4		3/4	
11	1,280.63	11	979.35	11	688.57	11	384.56	11	86.57	11		11		11		11		11	
1/4	1,274.43	1/4	973.29	1/4	682.23	1/4	378.42	1/4	80.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,268.23	1/2	967.22	1/2	675.89	1/2	372.28	1/2	74.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,262.03	3/4	961.16	3/4	669.54	3/4	366.13	3/4	68.21	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MM 316"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

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	4,299.60	0	4,010.91	0	3,708.41	0	3,405.91	0	3,102.76	0	2,799.39	0	2,496.02	0	2,192.65	0	1,889.28		
1/4		1/4	4,295.46	1/4	4,004.60	1/4	3,702.10	1/4	3,399.60	1/4	3,096.43	1/4	2,793.07	1/4	2,489.70	1/4	2,186.33	1/4	1,882.96		
1/2		1/2	4,291.33	1/2	3,998.30	1/2	3,695.80	1/2	3,393.30	1/2	3,090.11	1/2	2,786.75	1/2	2,483.38	1/2	2,180.01	1/2	1,876.64		
3/4		3/4	4,287.20	3/4	3,992.00	3/4	3,689.50	3/4	3,387.00	3/4	3,083.79	3/4	2,780.42	3/4	2,477.06	3/4	2,173.69	3/4	1,870.32		
1		1	4,282.01	1	3,985.70	1	3,683.20	1	3,380.70	1	3,077.47	1	2,774.10	1	2,470.74	1	2,167.37	1	1,864.00		
1/4		1/4	4,276.83	1/4	3,979.40	1/4	3,676.90	1/4	3,374.39	1/4	3,071.15	1/4	2,767.78	1/4	2,464.41	1/4	2,161.05	1/4	1,857.68		
1/2		1/2	4,271.64	1/2	3,973.09	1/2	3,670.59	1/2	3,368.09	1/2	3,064.83	1/2	2,761.46	1/2	2,458.09	1/2	2,154.72	1/2	1,851.36		
3/4		3/4	4,266.46	3/4	3,966.79	3/4	3,664.29	3/4	3,361.79	3/4	3,058.51	3/4	2,755.14	3/4	2,451.77	3/4	2,148.40	3/4	1,845.04		
2		2	4,260.50	2	3,960.49	2	3,657.99	2	3,355.49	2	3,052.19	2	2,748.82	2	2,445.45	2	2,142.08	2	1,838.71		
1/4		1/4	4,254.54	1/4	3,954.19	1/4	3,651.69	1/4	3,349.19	1/4	3,045.87	1/4	2,742.50	1/4	2,439.13	1/4	2,135.76	1/4	1,832.39		
1/2		1/2	4,248.58	1/2	3,947.89	1/2	3,645.38	1/2	3,342.88	1/2	3,039.55	1/2	2,736.18	1/2	2,432.81	1/2	2,129.44	1/2	1,826.07		
3/4		3/4	4,242.62	3/4	3,941.58	3/4	3,639.08	3/4	3,336.58	3/4	3,033.23	3/4	2,729.86	3/4	2,426.49	3/4	2,123.12	3/4	1,819.75		
3		3	4,236.40	3	3,935.28	3	3,632.78	3	3,330.27	3	3,026.91	3	2,723.54	3	2,420.17	3	2,116.80	3	1,813.43		
1/4		1/4	4,230.18	1/4	3,928.98	1/4	3,626.48	1/4	3,323.95	1/4	3,020.59	1/4	2,717.22	1/4	2,413.85	1/4	2,110.48	1/4	1,807.11		
1/2		1/2	4,223.96	1/2	3,922.68	1/2	3,620.18	1/2	3,317.64	1/2	3,014.27	1/2	2,710.90	1/2	2,407.53	1/2	2,104.16	1/2	1,800.79		
3/4		3/4	4,217.73	3/4	3,916.38	3/4	3,613.87	3/4	3,311.32	3/4	3,007.95	3/4	2,704.58	3/4	2,401.21	3/4	2,097.84	3/4	1,794.47		
4		4	4,211.50	4	3,910.07	4	3,607.57	4	3,305.00	4	3,001.63	4	2,698.26	4	2,394.89	4	2,091.52	4	1,788.15		
1/4		1/4	4,205.27	1/4	3,903.77	1/4	3,601.27	1/4	3,298.68	1/4	2,995.31	1/4	2,691.94	1/4	2,388.57	1/4	2,085.20	1/4	1,781.83		
1/2		1/2	4,199.03	1/2	3,897.47	1/2	3,594.97	1/2	3,292.36	1/2	2,988.99	1/2	2,685.62	1/2	2,382.25	1/2	2,078.88	1/2	1,775.51		
3/4		3/4	4,192.80	3/4	3,891.17	3/4	3,588.67	3/4	3,286.04	3/4	2,982.67	3/4	2,679.30	3/4	2,375.93	3/4	2,072.56	3/4	1,769.19		
5		5	4,186.56	5	3,884.86	5	3,582.36	5	3,279.72	5	2,979.35	5	2,672.98	5	2,369.61	5	2,066.24	5	1,762.87		
1/4		1/4	4,180.32	1/4	3,878.56	1/4	3,576.06	1/4	3,273.40	1/4	2,970.03	1/4	2,666.66	1/4	2,363.29	1/4	2,059.92	1/4	1,756.55		
1/2		1/2	4,174.08	1/2	3,872.26	1/2	3,569.76	1/2	3,267.08	1/2	2,963.71	1/2	2,660.34	1/2	2,356.97	1/2	2,053.60	1/2	1,750.23		
3/4		3/4	4,167.84	3/4	3,865.96	3/4	3,563.46	3/4	3,260.76	3/4	2,957.39	3/4	2,654.02	3/4	2,350.65	3/4	2,047.28	3/4	1,743.91		
6		6	4,161.60	6	3,859.66	6	3,557.16	6	3,254.44	6	2,951.07	6	2,647.70	6	2,344.33	6	2,040.96	6	1,737.59		
1/4		1/4	4,155.36	1/4	3,853.35	1/4	3,550.85	1/4	3,248.12	1/4	2,944.75	1/4	2,641.38	1/4	2,338.01	1/4	2,034.64	1/4	1,731.27		
1/2		1/2	4,149.12	1/2	3,847.05	1/2	3,544.55	1/2	3,241.80	1/2	2,938.43	1/2	2,635.06	1/2	2,331.69	1/2	2,028.32	1/2	1,724.95		
3/4		3/4	4,142.88	3/4	3,840.75	3/4	3,538.25	3/4	3,235.48	3/4	2,932.11	3/4	2,628.74	3/4	2,325.37	3/4	2,022.00	3/4	1,718.63		
7		7	4,136.64	7	3,834.45	7	3,531.95	7	3,229.16	7	2,925.79	7	2,622.42	7	2,319.05	7	2,015.68	7	1,712.31		
1/4		1/4	4,130.40	1/4	3,828.15	1/4	3,525.65	1/4	3,222.84	1/4	2,919.47	1/4	2,616.10	1/4	2,312.73	1/4	2,009.36	1/4	1,705.99		
1/2		1/2	4,124.16	1/2	3,821.84	1/2	3,519.34	1/2	3,216.52	1/2	2,913.15	1/2	2,609.78	1/2	2,306.41	1/2	2,003.04	1/2	1,699.67		
3/4		3/4	4,117.92	3/4	3,815.54	3/4	3,513.04	3/4	3,210.20	3/4	2,906.83	3/4	2,603.46	3/4	2,300.09	3/4	1,996.72	3/4	1,693.35		
8		8	4,111.65	8	3,809.24	8	3,506.74	8	3,203.88	8	2,900.51	8	2,597.14	8	2,293.77	8	1,990.40	8	1,687.03		
1/4		1/4	4,105.38	1/4	3,802.94	1/4	3,500.44	1/4	3,197.56	1/4	2,894.19	1/4	2,590.82	1/4	2,287.45	1/4	1,983.08	1/4	1,680.71		
1/2		1/2	4,099.11	1/2	3,796.64	1/2	3,494.13	1/2	3,191.24	1/2	2,887.87	1/2	2,584.50	1/2	2,281.13	1/2	1,977.76	1/2	1,674.39		
3/4		3/4	4,092.83	3/4	3,790.33	3/4	3,487.83	3/4	3,184.92	3/4	2,881.55	3/4	2,578.18	3/4	2,274.81	3/4	1,971.44	3/4	1,668.07		
9		9	4,086.53	9	3,784.03	9	3,481.53	9	3,178.60	9	2,875.23	9	2,571.86	9	2,268.49	9	1,965.12	9	1,661.75		
1/4		1/4	4,080.23	1/4	3,777.73	1/4	3,475.23	1/4	3,172.28	1/4	2,868.91	1/4	2,565.54	1/4	2,262.17	1/4	1,958.80	1/4	1,655.43		
1/2		1/2	4,073.93	1/2	3,771.43	1/2	3,468.93	1/2	3,165.96	1/2	2,862.59	1/2	2,559.22	1/2	2,255.85	1/2	1,952.48	1/2	1,649.11		
3/4		3/4	4,067.63	3/4	3,765.12	3/4	3,462.62	3/4	3,159.64	3/4	2,856.27	3/4	2,552.90	3/4	2,249.53	3/4	1,946.16	3/4	1,642.79		
10		10	4,061.32	10	3,758.82	10	3,456.32	10	3,153.32	10	2,849.95	10	2,546.58	10	2,243.21	10	1,939.84	10	1,636.47		
1/4		1/4	4,055.02	1/4	3,752.52	1/4	3,450.02	1/4	3,147.00	1/4	2,843.63	1/4	2,540.26	1/4	2,236.89	1/4	1,933.52	1/4	1,630.15		
1/2		1/2	4,048.72	1/2	3,746.22	1/2	3,443.72	1/2	3,140.68	1/2	2,837.31	1/2	2,533.94	1/2	2,230.57	1/2	1,927.20	1/2	1,623.83		
3/4		3/4	4,042.42	3/4	3,739.92	3/4	3,437.42	3/4	3,134.36	3/4	2,830.99	3/4	2,527.62	3/4	2,224.25	3/4	1,920.88	3/4	1,617.51		
11		11	4,036.12	11	3,733.61	11	3,431.11	11	3,128.04	11	2,824.67	11	2,521.30	11	2,217.93	11	1,914.56	11	1,611.19		
1/4		1/4	4,029.81	1/4	3,727.31	1/4	3,424.81	1/4	3,121.72	1/4	2,818.35	1/4	2,514.98	1/4	2,211.61	1/4	1,908.24	1/4	1,604.87		
1/2		1/2	4,023.51	1/2	3,721.01	1/2	3,418.51	1/2	3,115.40	1/2	2,812.03	1/2	2,508.66	1/2	2,205.29	1/2	1,901.92	1/2	1,598.55		
3/4		3/4	4,303.73	3/4	4,017.21	3/4	3,714.71	3/4	3,412.21	3/4	3,109.08	3/4	2,805.71	3/4	2,502.34	3/4	2,198.97	3/4	1,895.60	3/4	1,592.23

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.
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 37'-09" 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 "MM 316"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

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	1,585.91	0	1,283.53	0	982.56	0	679.95	0	377.14	0	80.17	0		0		0		0	
1/4	1,579.59	1/4	1,277.36	1/4	976.24	1/4	673.63	1/4	371.02	1/4	74.07	1/4		1/4		1/4		1/4	
1/2	1,573.27	1/2	1,271.18	1/2	969.91	1/2	667.31	1/2	364.90	1/2	67.97	1/2		1/2		1/2		1/2	
3/4	1,566.95	3/4	1,265.00	3/4	963.59	3/4	660.99	3/4	358.77	3/4	61.87	3/4		3/4		3/4		3/4	
1	1,560.63	1	1,258.82	1	957.28	1	654.67	1	352.65	1	56.16	1		1		1		1	
1/4	1,554.31	1/4	1,252.65	1/4	950.97	1/4	648.35	1/4	346.53	1/4	50.45	1/4		1/4		1/4		1/4	
1/2	1,547.99	1/2	1,246.47	1/2	944.65	1/2	642.02	1/2	340.41	1/2	44.74	1/2		1/2		1/2		1/2	
3/4	1,541.67	3/4	1,240.29	3/4	938.34	3/4	635.70	3/4	334.29	3/4	39.03	3/4		3/4		3/4		3/4	
2	1,535.35	2	1,234.11	2	932.04	2	629.38	2	328.17	2	34.49	2		2		2		2	
1/4	1,529.03	1/4	1,227.93	1/4	925.73	1/4	623.06	1/4	322.05	1/4	29.95	1/4		1/4		1/4		1/4	
1/2	1,522.70	1/2	1,221.76	1/2	919.42	1/2	616.74	1/2	315.92	1/2	25.41	1/2		1/2		1/2		1/2	
3/4	1,516.38	3/4	1,215.58	3/4	913.12	3/4	610.42	3/4	309.80	3/4	20.87	3/4		3/4		3/4		3/4	
3	1,510.06	3	1,209.40	3	906.82	3	604.10	3	303.68	3		3		3		3		3	
1/4	1,503.74	1/4	1,203.22	1/4	900.51	1/4	597.78	1/4	297.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,497.42	1/2	1,197.05	1/2	894.21	1/2	591.46	1/2	291.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,491.10	3/4	1,190.87	3/4	887.91	3/4	585.14	3/4	285.32	3/4		3/4		3/4		3/4		3/4	
4	1,484.78	4	1,184.62	4	881.61	4	578.81	4	279.19	4		4		4		4		4	
1/4	1,478.46	1/4	1,178.37	1/4	875.31	1/4	572.49	1/4	273.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,472.14	1/2	1,172.12	1/2	869.01	1/2	566.17	1/2	266.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,465.82	3/4	1,165.87	3/4	862.71	3/4	559.85	3/4	260.83	3/4		3/4		3/4		3/4		3/4	
5	1,459.50	5	1,159.55	5	856.41	5	553.53	5	254.61	5		5		5		5		5	
1/4	1,453.18	1/4	1,153.23	1/4	850.11	1/4	547.21	1/4	248.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,446.86	1/2	1,146.91	1/2	843.81	1/2	540.89	1/2	242.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,440.54	3/4	1,140.59	3/4	837.51	3/4	534.57	3/4	235.94	3/4		3/4		3/4		3/4		3/4	
6	1,434.22	6	1,134.27	6	831.21	6	528.25	6	229.62	6		6		6		6		6	
1/4	1,427.90	1/4	1,127.94	1/4	824.91	1/4	521.93	1/4	223.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,421.58	1/2	1,121.62	1/2	818.61	1/2	515.60	1/2	216.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,415.26	3/4	1,115.30	3/4	812.31	3/4	509.28	3/4	210.66	3/4		3/4		3/4		3/4		3/4	
7	1,408.94	7	1,108.98	7	806.01	7	502.96	7	204.34	7		7		7		7		7	
1/4	1,402.62	1/4	1,102.66	1/4	799.71	1/4	496.64	1/4	198.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,396.30	1/2	1,096.34	1/2	793.41	1/2	490.32	1/2	191.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,389.98	3/4	1,090.02	3/4	787.11	3/4	484.00	3/4	185.38	3/4		3/4		3/4		3/4		3/4	
8	1,383.66	8	1,083.70	8	780.81	8	477.68	8	179.06	8		8		8		8		8	
1/4	1,377.34	1/4	1,077.37	1/4	774.51	1/4	471.36	1/4	172.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,371.02	1/2	1,071.05	1/2	768.21	1/2	465.04	1/2	166.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,364.70	3/4	1,064.73	3/4	761.91	3/4	458.72	3/4	160.09	3/4		3/4		3/4		3/4		3/4	
9	1,358.38	9	1,058.41	9	755.61	9	452.39	9	153.87	9		9		9		9		9	
1/4	1,352.06	1/4	1,052.09	1/4	749.31	1/4	446.07	1/4	147.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,345.74	1/2	1,045.77	1/2	743.01	1/2	439.75	1/2	141.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,339.42	3/4	1,039.45	3/4	736.71	3/4	433.43	3/4	135.21	3/4		3/4		3/4		3/4		3/4	
10	1,333.17	10	1,033.13	10	730.41	10	427.11	10	129.09	10		10		10		10		10	
1/4	1,326.92	1/4	1,026.81	1/4	724.11	1/4	420.79	1/4	122.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,320.67	1/2	1,020.48	1/2	717.81	1/2	414.47	1/2	116.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,314.42	3/4	1,014.16	3/4	711.51	3/4	408.15	3/4	110.73	3/4		3/4		3/4		3/4		3/4	
11	1,308.25	11	1,007.84	11	705.20	11	401.93	11	104.62	11		11		11		11		11	
1/4	1,302.07	1/4	1,001.52	1/4	698.89	1/4	395.70	1/4	98.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,295.89	1/2	995.20	1/2	692.58	1/2	389.48	1/2	92.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,289.71	3/4	988.88	3/4	686.27	3/4	383.26	3/4	86.27	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,275.67	0	3,980.34	0	3,677.71	0	3,375.07	0	3,071.74	0	2,768.24	0	2,464.74	0	2,161.24	0	1,857.74
1/4		1/4	4,270.48	1/4	3,974.03	1/4	3,671.40	1/4	3,368.77	1/4	3,065.42	1/4	2,761.92	1/4	2,458.42	1/4	2,154.92	1/4	1,851.42
1/2		1/2	4,265.30	1/2	3,967.73	1/2	3,665.10	1/2	3,362.47	1/2	3,059.10	1/2	2,755.60	1/2	2,452.10	1/2	2,148.60	1/2	1,845.10
3/4		3/4	4,260.11	3/4	3,961.42	3/4	3,658.79	3/4	3,356.16	3/4	3,052.77	3/4	2,749.27	3/4	2,445.77	3/4	2,142.27	3/4	1,838.78
1		1	4,254.92	1	3,955.12	1	3,652.49	1	3,349.86	1	3,046.45	1	2,742.95	1	2,439.45	1	2,135.95	1	1,832.45
1/4		1/4	4,248.96	1/4	3,948.81	1/4	3,646.18	1/4	3,343.55	1/4	3,040.13	1/4	2,736.63	1/4	2,433.13	1/4	2,129.63	1/4	1,826.13
1/2		1/2	4,243.00	1/2	3,942.51	1/2	3,639.88	1/2	3,337.25	1/2	3,033.80	1/2	2,730.30	1/2	2,426.81	1/2	2,123.31	1/2	1,819.81
3/4		3/4	4,237.03	3/4	3,936.20	3/4	3,633.57	3/4	3,330.94	3/4	3,027.48	3/4	2,723.98	3/4	2,420.48	3/4	2,116.98	3/4	1,813.48
2		2	4,231.07	2	3,929.90	2	3,627.27	2	3,324.64	2	3,021.16	2	2,717.66	2	2,414.16	2	2,110.66	2	1,807.16
1/4		1/4	4,224.85	1/4	3,923.59	1/4	3,620.96	1/4	3,318.32	1/4	3,014.83	1/4	2,711.34	1/4	2,407.84	1/4	2,104.34	1/4	1,800.84
1/2		1/2	4,218.62	1/2	3,917.29	1/2	3,614.66	1/2	3,312.00	1/2	3,008.51	1/2	2,705.01	1/2	2,401.51	1/2	2,098.01	1/2	1,794.51
3/4		3/4	4,212.40	3/4	3,910.98	3/4	3,608.35	3/4	3,305.68	3/4	3,002.19	3/4	2,698.69	3/4	2,395.19	3/4	2,091.69	3/4	1,788.19
3		3	4,206.18	3	3,904.68	3	3,602.05	3	3,299.37	3	2,995.87	3	2,692.37	3	2,388.87	3	2,085.37	3	1,781.87
1/4		1/4	4,199.94	1/4	3,898.37	1/4	3,595.74	1/4	3,293.04	1/4	2,989.54	1/4	2,686.04	1/4	2,382.54	1/4	2,079.05	1/4	1,775.55
1/2		1/2	4,193.70	1/2	3,892.07	1/2	3,589.44	1/2	3,286.72	1/2	2,983.22	1/2	2,679.72	1/2	2,376.22	1/2	2,072.72	1/2	1,769.22
3/4		3/4	4,187.46	3/4	3,885.76	3/4	3,583.13	3/4	3,280.40	3/4	2,976.90	3/4	2,673.40	3/4	2,369.90	3/4	2,066.40	3/4	1,762.90
4		4	4,181.22	4	3,879.46	4	3,576.83	4	3,274.07	4	2,970.57	4	2,667.08	4	2,363.58	4	2,060.08	4	1,756.58
1/4		1/4	4,174.98	1/4	3,873.15	1/4	3,570.52	1/4	3,267.75	1/4	2,964.25	1/4	2,660.75	1/4	2,357.25	1/4	2,053.75	1/4	1,750.25
1/2		1/2	4,168.74	1/2	3,866.85	1/2	3,564.22	1/2	3,261.43	1/2	2,957.93	1/2	2,654.43	1/2	2,350.93	1/2	2,047.43	1/2	1,743.93
3/4		3/4	4,162.49	3/4	3,860.54	3/4	3,557.91	3/4	3,255.10	3/4	2,951.61	3/4	2,648.11	3/4	2,344.61	3/4	2,041.11	3/4	1,737.61
5		5	4,156.25	5	3,854.24	5	3,551.61	5	3,248.78	5	2,945.28	5	2,641.78	5	2,338.28	5	2,034.79	5	1,731.29
1/4		1/4	4,150.01	1/4	3,847.93	1/4	3,545.30	1/4	3,242.46	1/4	2,938.96	1/4	2,635.46	1/4	2,331.96	1/4	2,028.46	1/4	1,724.96
1/2		1/2	4,143.77	1/2	3,841.63	1/2	3,539.00	1/2	3,236.14	1/2	2,932.64	1/2	2,629.14	1/2	2,325.64	1/2	2,022.14	1/2	1,718.64
3/4		3/4	4,137.52	3/4	3,835.33	3/4	3,532.69	3/4	3,229.81	3/4	2,926.31	3/4	2,622.81	3/4	2,319.32	3/4	2,015.82	3/4	1,712.32
6		6	4,131.28	6	3,829.02	6	3,526.39	6	3,223.49	6	2,919.99	6	2,616.49	6	2,312.99	6	2,009.49	6	1,705.99
1/4		1/4	4,125.04	1/4	3,822.72	1/4	3,520.09	1/4	3,217.17	1/4	2,913.67	1/4	2,610.17	1/4	2,306.67	1/4	2,003.17	1/4	1,699.67
1/2		1/2	4,118.80	1/2	3,816.41	1/2	3,513.78	1/2	3,210.84	1/2	2,907.35	1/2	2,603.85	1/2	2,300.35	1/2	1,996.85	1/2	1,693.35
3/4		3/4	4,112.56	3/4	3,810.11	3/4	3,507.48	3/4	3,204.52	3/4	2,901.02	3/4	2,597.52	3/4	2,294.02	3/4	1,990.52	3/4	1,687.03
7		7	4,106.31	7	3,803.80	7	3,501.17	7	3,198.20	7	2,894.70	7	2,591.20	7	2,287.70	7	1,984.20	7	1,680.70
1/4		1/4	4,100.04	1/4	3,797.50	1/4	3,494.87	1/4	3,191.88	1/4	2,888.38	1/4	2,584.88	1/4	2,281.38	1/4	1,977.88	1/4	1,674.38
1/2		1/2	4,093.76	1/2	3,791.19	1/2	3,488.56	1/2	3,185.55	1/2	2,882.05	1/2	2,578.55	1/2	2,275.06	1/2	1,971.56	1/2	1,668.06
3/4		3/4	4,087.49	3/4	3,784.89	3/4	3,482.26	3/4	3,179.23	3/4	2,875.73	3/4	2,572.23	3/4	2,268.73	3/4	1,965.23	3/4	1,661.73
8		8	4,081.21	8	3,778.58	8	3,475.95	8	3,172.91	8	2,869.41	8	2,565.91	8	2,262.41	8	1,958.91	8	1,655.41
1/4		1/4	4,074.91	1/4	3,772.28	1/4	3,469.65	1/4	3,166.58	1/4	2,863.09	1/4	2,559.59	1/4	2,256.09	1/4	1,952.59	1/4	1,649.09
1/2		1/2	4,068.60	1/2	3,765.97	1/2	3,463.34	1/2	3,160.26	1/2	2,856.76	1/2	2,553.26	1/2	2,249.76	1/2	1,946.26	1/2	1,642.77
3/4		3/4	4,062.30	3/4	3,759.67	3/4	3,457.04	3/4	3,153.94	3/4	2,850.44	3/4	2,546.94	3/4	2,243.44	3/4	1,939.94	3/4	1,636.44
9		9	4,055.99	9	3,753.36	9	3,450.73	9	3,147.62	9	2,844.12	9	2,540.62	9	2,237.12	9	1,933.62	9	1,630.12
1/4		1/4	4,049.69	1/4	3,747.06	1/4	3,444.43	1/4	3,141.29	1/4	2,837.79	1/4	2,534.29	1/4	2,230.80	1/4	1,927.30	1/4	1,623.80
1/2		1/2	4,043.38	1/2	3,740.75	1/2	3,438.12	1/2	3,134.97	1/2	2,831.47	1/2	2,527.97	1/2	2,224.47	1/2	1,920.97	1/2	1,617.47
3/4		3/4	4,037.08	3/4	3,734.45	3/4	3,431.82	3/4	3,128.65	3/4	2,825.15	3/4	2,521.65	3/4	2,218.15	3/4	1,914.65	3/4	1,611.15
10		10	4,030.77	10	3,728.14	10	3,425.51	10	3,122.32	10	2,818.82	10	2,515.33	10	2,211.83	10	1,908.33	10	1,604.83
1/4		1/4	4,024.47	1/4	3,721.84	1/4	3,419.21	1/4	3,116.00	1/4	2,812.50	1/4	2,509.00	1/4	2,205.50	1/4	1,902.00	1/4	1,598.51
1/2		1/2	4,018.16	1/2	3,715.53	1/2	3,412.90	1/2	3,109.68	1/2	2,806.18	1/2	2,502.68	1/2	2,199.18	1/2	1,895.68	1/2	1,592.18
3/4		3/4	4,011.86	3/4	3,709.23	3/4	3,406.60	3/4	3,103.36	3/4	2,799.86	3/4	2,496.36	3/4	2,192.86	3/4	1,889.36	3/4	1,585.86
11	4,292.21	11	4,005.55	11	3,702.92	11	3,400.29	11	3,097.03	11	2,793.53	11	2,490.03	11	2,186.53	11	1,883.04	11	1,579.54
1/4	4,288.08	1/4	3,999.25	1/4	3,696.62	1/4	3,393.99	1/4	3,090.71	1/4	2,787.21	1/4	2,483.71	1/4	2,180.21	1/4	1,876.71	1/4	1,573.21
1/2	4,283.94	1/2	3,992.95	1/2	3,690.31	1/2	3,387.68	1/2	3,084.39	1/2	2,780.89	1/2	2,477.39	1/2	2,173.89	1/2	1,870.39	1/2	1,566.89
3/4	4,279.81	3/4	3,986.64	3/4	3,684.01	3/4	3,381.38	3/4	3,078.06	3/4	2,774.56	3/4	2,471.07	3/4	2,167.57	3/4	1,864.07	3/4	1,560.57

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 34'-09" 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 "MM 316"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-02"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,554.24	0	1,252.17	0	952.31	0	661.28	0	358.94	0	61.90	0		0		0		0	
1/4	1,547.92	1/4	1,245.99	1/4	946.27	1/4	654.96	1/4	352.81	1/4	56.19	1/4		1/4		1/4		1/4	
1/2	1,541.60	1/2	1,239.81	1/2	940.23	1/2	648.63	1/2	346.69	1/2	50.48	1/2		1/2		1/2		1/2	
3/4	1,535.28	3/4	1,233.63	3/4	934.19	3/4	642.31	3/4	340.57	3/4	44.77	3/4		3/4		3/4		3/4	
1	1,528.95	1	1,227.45	1	928.16	1	635.99	1	334.44	1	39.06	1		1		1		1	
1/4	1,522.63	1/4	1,221.27	1/4	922.13	1/4	629.66	1/4	328.32	1/4	34.51	1/4		1/4		1/4		1/4	
1/2	1,516.31	1/2	1,215.09	1/2	916.10	1/2	623.34	1/2	322.19	1/2	29.97	1/2		1/2		1/2		1/2	
3/4	1,509.98	3/4	1,208.91	3/4	910.07	3/4	617.01	3/4	316.07	3/4	25.43	3/4		3/4		3/4		3/4	
2	1,503.66	2	1,202.73	2	904.04	2	610.69	2	309.94	2	20.88	2		2		2		2	
1/4	1,497.34	1/4	1,196.55	1/4	898.01	1/4	604.37	1/4	303.82	1/4		1/4		1/4		1/4		1/4	
1/2	1,491.02	1/2	1,190.37	1/2	891.99	1/2	598.04	1/2	297.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,484.69	3/4	1,184.19	3/4	885.96	3/4	591.72	3/4	291.57	3/4		3/4		3/4		3/4		3/4	
3	1,478.37	3	1,178.01	3	879.93	3	585.40	3	285.45	3		3		3		3		3	
1/4	1,472.05	1/4	1,171.75	1/4	873.91	1/4	579.07	1/4	279.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,465.72	1/2	1,165.50	1/2	867.89	1/2	572.75	1/2	273.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,459.40	3/4	1,159.25	3/4	861.86	3/4	566.42	3/4	267.07	3/4		3/4		3/4		3/4		3/4	
4	1,453.08	4	1,153.00	4	855.84	4	560.10	4	260.95	4		4		4		4		4	
1/4	1,446.76	1/4	1,146.67	1/4	849.82	1/4	553.78	1/4	254.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,440.43	1/2	1,140.35	1/2	843.79	1/2	547.45	1/2	248.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,434.11	3/4	1,134.03	3/4	837.77	3/4	541.13	3/4	242.28	3/4		3/4		3/4		3/4		3/4	
5	1,427.79	5	1,127.70	5	831.74	5	534.81	5	236.05	5		5		5		5		5	
1/4	1,421.46	1/4	1,121.38	1/4	825.72	1/4	528.48	1/4	229.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,415.14	1/2	1,115.05	1/2	819.70	1/2	522.16	1/2	223.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,408.82	3/4	1,108.73	3/4	813.67	3/4	515.84	3/4	217.08	3/4		3/4		3/4		3/4		3/4	
6	1,402.50	6	1,102.41	6	807.65	6	509.51	6	210.76	6		6		6		6		6	
1/4	1,396.17	1/4	1,096.08	1/4	801.63	1/4	503.19	1/4	204.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,389.85	1/2	1,089.76	1/2	795.60	1/2	496.86	1/2	198.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,383.53	3/4	1,083.43	3/4	789.58	3/4	490.54	3/4	191.79	3/4		3/4		3/4		3/4		3/4	
7	1,377.20	7	1,077.11	7	783.55	7	484.22	7	185.46	7		7		7		7		7	
1/4	1,370.88	1/4	1,070.79	1/4	777.53	1/4	477.89	1/4	179.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,364.56	1/2	1,064.46	1/2	771.51	1/2	471.57	1/2	172.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,358.23	3/4	1,058.14	3/4	765.48	3/4	465.25	3/4	166.49	3/4		3/4		3/4		3/4		3/4	
8	1,351.91	8	1,051.81	8	759.46	8	458.92	8	160.17	8		8		8		8		8	
1/4	1,345.59	1/4	1,045.49	1/4	753.43	1/4	452.60	1/4	153.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,339.27	1/2	1,039.17	1/2	747.41	1/2	446.27	1/2	147.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,332.94	3/4	1,032.84	3/4	741.39	3/4	439.95	3/4	141.50	3/4		3/4		3/4		3/4		3/4	
9	1,326.62	9	1,026.52	9	735.36	9	433.63	9	135.28	9		9		9		9		9	
1/4	1,320.37	1/4	1,020.20	1/4	729.34	1/4	427.30	1/4	129.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,314.12	1/2	1,013.87	1/2	723.32	1/2	420.98	1/2	123.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,307.87	3/4	1,007.55	3/4	717.29	3/4	414.66	3/4	116.91	3/4		3/4		3/4		3/4		3/4	
10	1,301.61	10	1,001.22	10	711.27	10	408.33	10	110.79	10		10		10		10		10	
1/4	1,295.43	1/4	995.04	1/4	705.09	1/4	402.11	1/4	104.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,289.25	1/2	988.85	1/2	698.92	1/2	395.88	1/2	98.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,283.07	3/4	982.67	3/4	692.75	3/4	389.66	3/4	92.43	3/4		3/4		3/4		3/4		3/4	
11	1,276.89	11	976.49	11	686.58	11	383.44	11	86.32	11		11		11		11		11	
1/4	1,270.71	1/4	970.44	1/4	680.25	1/4	377.31	1/4	80.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,264.53	1/2	964.40	1/2	673.93	1/2	371.19	1/2	74.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,258.35	3/4	958.35	3/4	667.60	3/4	365.06	3/4	68.01	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MM 316"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,295.46	0	4,004.60	0	3,702.10	0	3,399.60	0	3,096.43	0	2,793.07	0	2,489.70	0	2,186.33	0	1,882.96		
1/4		1/4	4,291.33	1/4	3,998.30	1/4	3,695.80	1/4	3,393.30	1/4	3,090.11	1/4	2,786.75	1/4	2,483.38	1/4	2,180.01	1/4	1,876.64		
1/2		1/2	4,287.20	1/2	3,992.00	1/2	3,689.50	1/2	3,387.00	1/2	3,083.79	1/2	2,780.42	1/2	2,477.06	1/2	2,173.69	1/2	1,870.32		
3/4		3/4	4,282.01	3/4	3,985.70	3/4	3,683.20	3/4	3,380.70	3/4	3,077.47	3/4	2,774.10	3/4	2,470.74	3/4	2,167.37	3/4	1,864.00		
1		1	4,276.83	1	3,979.40	1	3,676.90	1	3,374.39	1	3,071.15	1	2,767.78	1	2,464.41	1	2,161.05	1	1,857.68		
1/4		1/4	4,271.64	1/4	3,973.09	1/4	3,670.59	1/4	3,368.09	1/4	3,064.83	1/4	2,761.46	1/4	2,458.09	1/4	2,154.72	1/4	1,851.36		
1/2		1/2	4,266.46	1/2	3,966.79	1/2	3,664.29	1/2	3,361.79	1/2	3,058.51	1/2	2,755.14	1/2	2,451.77	1/2	2,148.40	1/2	1,845.04		
3/4		3/4	4,260.50	3/4	3,960.49	3/4	3,657.99	3/4	3,355.49	3/4	3,052.19	3/4	2,748.82	3/4	2,445.45	3/4	2,142.08	3/4	1,838.71		
2		2	4,254.54	2	3,954.19	2	3,651.69	2	3,349.19	2	3,045.87	2	2,742.50	2	2,439.13	2	2,135.76	2	1,832.39		
1/4		1/4	4,248.58	1/4	3,947.89	1/4	3,645.38	1/4	3,342.88	1/4	3,039.55	1/4	2,736.18	1/4	2,432.81	1/4	2,129.44	1/4	1,826.07		
1/2		1/2	4,242.62	1/2	3,941.58	1/2	3,639.08	1/2	3,336.58	1/2	3,033.23	1/2	2,729.86	1/2	2,426.49	1/2	2,123.12	1/2	1,819.75		
3/4		3/4	4,236.40	3/4	3,935.28	3/4	3,632.78	3/4	3,330.27	3/4	3,026.91	3/4	2,723.54	3/4	2,420.17	3/4	2,116.80	3/4	1,813.43		
3		3	4,230.18	3	3,928.98	3	3,626.48	3	3,323.95	3	3,020.59	3	2,717.22	3	2,413.85	3	2,110.48	3	1,807.11		
1/4		1/4	4,223.96	1/4	3,922.68	1/4	3,620.18	1/4	3,317.64	1/4	3,014.27	1/4	2,710.90	1/4	2,407.53	1/4	2,104.16	1/4	1,800.79		
1/2		1/2	4,217.73	1/2	3,916.38	1/2	3,613.87	1/2	3,311.32	1/2	3,007.95	1/2	2,704.58	1/2	2,401.21	1/2	2,097.84	1/2	1,794.47		
3/4		3/4	4,211.50	3/4	3,910.07	3/4	3,607.57	3/4	3,305.00	3/4	3,001.63	3/4	2,698.26	3/4	2,394.89	3/4	2,091.52	3/4	1,788.15		
4		4	4,205.27	4	3,903.77	4	3,601.27	4	3,298.68	4	2,995.31	4	2,691.94	4	2,388.57	4	2,085.20	4	1,781.83		
1/4		1/4	4,199.03	1/4	3,897.47	1/4	3,594.97	1/4	3,292.36	1/4	2,988.99	1/4	2,685.62	1/4	2,382.25	1/4	2,078.88	1/4	1,775.51		
1/2		1/2	4,192.80	1/2	3,891.17	1/2	3,588.67	1/2	3,286.04	1/2	2,982.67	1/2	2,679.30	1/2	2,375.93	1/2	2,072.56	1/2	1,769.19		
3/4		3/4	4,186.56	3/4	3,884.86	3/4	3,582.36	3/4	3,279.72	3/4	2,976.35	3/4	2,672.98	3/4	2,369.61	3/4	2,066.24	3/4	1,762.87		
5		5	4,180.32	5	3,878.56	5	3,576.06	5	3,273.40	5	2,970.03	5	2,666.66	5	2,363.29	5	2,059.92	5	1,756.55		
1/4		1/4	4,174.08	1/4	3,872.26	1/4	3,569.76	1/4	3,267.08	1/4	2,963.71	1/4	2,660.34	1/4	2,356.97	1/4	2,053.60	1/4	1,750.23		
1/2		1/2	4,167.84	1/2	3,865.96	1/2	3,563.46	1/2	3,260.76	1/2	2,957.39	1/2	2,654.02	1/2	2,350.65	1/2	2,047.28	1/2	1,743.91		
3/4		3/4	4,161.60	3/4	3,859.66	3/4	3,557.16	3/4	3,254.44	3/4	2,951.07	3/4	2,647.70	3/4	2,344.33	3/4	2,040.96	3/4	1,737.59		
6		6	4,155.36	6	3,853.35	6	3,550.85	6	3,248.12	6	2,944.75	6	2,641.38	6	2,338.01	6	2,034.64	6	1,731.27		
1/4		1/4	4,149.12	1/4	3,847.05	1/4	3,544.55	1/4	3,241.80	1/4	2,938.43	1/4	2,635.06	1/4	2,331.69	1/4	2,028.32	1/4	1,724.95		
1/2		1/2	4,142.88	1/2	3,840.75	1/2	3,538.25	1/2	3,235.48	1/2	2,932.11	1/2	2,628.74	1/2	2,325.37	1/2	2,022.00	1/2	1,718.63		
3/4		3/4	4,136.64	3/4	3,834.45	3/4	3,531.95	3/4	3,229.16	3/4	2,925.79	3/4	2,622.42	3/4	2,319.05	3/4	2,015.68	3/4	1,712.31		
7		7	4,130.40	7	3,828.15	7	3,525.65	7	3,222.84	7	2,919.47	7	2,616.10	7	2,312.73	7	2,009.36	7	1,705.99		
1/4		1/4	4,124.16	1/4	3,821.84	1/4	3,519.34	1/4	3,216.52	1/4	2,913.15	1/4	2,609.78	1/4	2,306.41	1/4	2,003.04	1/4	1,699.67		
1/2		1/2	4,117.92	1/2	3,815.54	1/2	3,513.04	1/2	3,210.20	1/2	2,906.83	1/2	2,603.46	1/2	2,300.09	1/2	1,996.72	1/2	1,693.35		
3/4		3/4	4,111.65	3/4	3,809.24	3/4	3,506.74	3/4	3,203.88	3/4	2,900.51	3/4	2,597.14	3/4	2,293.77	3/4	1,990.40	3/4	1,687.03		
8		8	4,105.38	8	3,802.94	8	3,500.44	8	3,197.56	8	2,894.19	8	2,590.82	8	2,287.45	8	1,984.08	8	1,680.71		
1/4		1/4	4,099.11	1/4	3,796.64	1/4	3,494.13	1/4	3,191.24	1/4	2,887.87	1/4	2,584.50	1/4	2,281.13	1/4	1,977.76	1/4	1,674.39		
1/2		1/2	4,092.83	1/2	3,790.33	1/2	3,487.83	1/2	3,184.92	1/2	2,881.55	1/2	2,578.18	1/2	2,274.81	1/2	1,971.44	1/2	1,668.07		
3/4		3/4	4,086.53	3/4	3,784.03	3/4	3,481.53	3/4	3,178.60	3/4	2,875.23	3/4	2,571.86	3/4	2,268.49	3/4	1,965.12	3/4	1,661.75		
9		9	4,080.23	9	3,777.73	9	3,475.23	9	3,172.28	9	2,868.91	9	2,565.54	9	2,262.17	9	1,958.80	9	1,655.43		
1/4		1/4	4,073.93	1/4	3,771.43	1/4	3,468.93	1/4	3,165.96	1/4	2,862.59	1/4	2,559.22	1/4	2,255.85	1/4	1,952.48	1/4	1,649.11		
1/2		1/2	4,067.63	1/2	3,765.12	1/2	3,462.62	1/2	3,159.64	1/2	2,856.27	1/2	2,552.90	1/2	2,249.53	1/2	1,946.16	1/2	1,642.79		
3/4		3/4	4,061.32	3/4	3,758.82	3/4	3,456.32	3/4	3,153.32	3/4	2,849.95	3/4	2,546.58	3/4	2,243.21	3/4	1,939.84	3/4	1,636.47		
10		10	4,055.02	10	3,752.52	10	3,450.02	10	3,147.00	10	2,843.63	10	2,540.26	10	2,236.89	10	1,933.52	10	1,630.15		
1/4		1/4	4,048.72	1/4	3,746.22	1/4	3,443.72	1/4	3,140.68	1/4	2,837.31	1/4	2,533.94	1/4	2,230.57	1/4	1,927.20	1/4	1,623.83		
1/2		1/2	4,042.42	1/2	3,739.92	1/2	3,437.42	1/2	3,134.36	1/2	2,830.99	1/2	2,527.62	1/2	2,224.25	1/2	1,920.88	1/2	1,617.51		
3/4		3/4	4,036.12	3/4	3,733.61	3/4	3,431.11	3/4	3,128.04	3/4	2,824.67	3/4	2,521.30	3/4	2,217.93	3/4	1,914.56	3/4	1,611.19		
11		11	4,029.81	11	3,727.31	11	3,424.81	11	3,121.72	11	2,818.35	11	2,514.98	11	2,211.61	11	1,908.24	11	1,604.87		
1/4		1/4	4,023.51	1/4	3,721.01	1/4	3,418.51	1/4	3,115.40	1/4	2,812.03	1/4	2,508.66	1/4	2,205.29	1/4	1,901.92	1/4	1,598.55		
1/2		1/2	4,303.73	1/2	4,017.21	1/2	3,714.71	1/2	3,412.21	1/2	3,109.08	1/2	2,805.71	1/2	2,502.34	1/2	2,198.97	1/2	1,895.60	1/2	1,592.23
3/4		3/4	4,299.60	3/4	4,010.91	3/4	3,708.41	3/4	3,405.91	3/4	3,102.76	3/4	2,799.39	3/4	2,496.02	3/4	2,192.65	3/4	1,889.28	3/4	1,585.91

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.
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 34'-09" 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 "MM 316"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,579.59	0	1,277.36	0	976.24	0	673.63	0	371.02	0	74.07	0		0		0		0	
1/4	1,573.27	1/4	1,271.18	1/4	969.91	1/4	667.31	1/4	364.90	1/4	67.97	1/4		1/4		1/4		1/4	
1/2	1,566.95	1/2	1,265.00	1/2	963.59	1/2	660.99	1/2	358.77	1/2	61.87	1/2		1/2		1/2		1/2	
3/4	1,560.63	3/4	1,258.82	3/4	957.28	3/4	654.67	3/4	352.65	3/4	56.16	3/4		3/4		3/4		3/4	
1	1,554.31	1	1,252.65	1	950.97	1	648.35	1	346.53	1	50.45	1		1		1		1	
1/4	1,547.99	1/4	1,246.47	1/4	944.65	1/4	642.02	1/4	340.41	1/4	44.74	1/4		1/4		1/4		1/4	
1/2	1,541.67	1/2	1,240.29	1/2	938.34	1/2	635.70	1/2	334.29	1/2	39.03	1/2		1/2		1/2		1/2	
3/4	1,535.35	3/4	1,234.11	3/4	932.04	3/4	629.38	3/4	328.17	3/4	34.49	3/4		3/4		3/4		3/4	
2	1,529.03	2	1,227.93	2	925.73	2	623.06	2	322.05	2	29.95	2		2		2		2	
1/4	1,522.70	1/4	1,221.76	1/4	919.42	1/4	616.74	1/4	315.92	1/4	25.41	1/4		1/4		1/4		1/4	
1/2	1,516.38	1/2	1,215.58	1/2	913.12	1/2	610.42	1/2	309.80	1/2	20.87	1/2		1/2		1/2		1/2	
3/4	1,510.06	3/4	1,209.40	3/4	906.82	3/4	604.10	3/4	303.68	3/4		3/4		3/4		3/4		3/4	
3	1,503.74	3	1,203.22	3	900.51	3	597.78	3	297.56	3		3		3		3		3	
1/4	1,497.42	1/4	1,197.05	1/4	894.21	1/4	591.46	1/4	291.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,491.10	1/2	1,190.87	1/2	887.91	1/2	585.14	1/2	285.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,484.78	3/4	1,184.62	3/4	881.61	3/4	578.81	3/4	279.19	3/4		3/4		3/4		3/4		3/4	
4	1,478.46	4	1,178.37	4	875.31	4	572.49	4	273.07	4		4		4		4		4	
1/4	1,472.14	1/4	1,172.12	1/4	869.01	1/4	566.17	1/4	266.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,465.82	1/2	1,165.87	1/2	862.71	1/2	559.85	1/2	260.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,459.50	3/4	1,159.55	3/4	856.41	3/4	553.53	3/4	254.61	3/4		3/4		3/4		3/4		3/4	
5	1,453.18	5	1,153.23	5	850.11	5	547.21	5	248.39	5		5		5		5		5	
1/4	1,446.86	1/4	1,146.91	1/4	843.81	1/4	540.89	1/4	242.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,440.54	1/2	1,140.59	1/2	837.51	1/2	534.57	1/2	235.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,434.22	3/4	1,134.27	3/4	831.21	3/4	528.25	3/4	229.62	3/4		3/4		3/4		3/4		3/4	
6	1,427.90	6	1,127.94	6	824.91	6	521.93	6	223.30	6		6		6		6		6	
1/4	1,421.58	1/4	1,121.62	1/4	818.61	1/4	515.60	1/4	216.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,415.26	1/2	1,115.30	1/2	812.31	1/2	509.28	1/2	210.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,408.94	3/4	1,108.98	3/4	806.01	3/4	502.96	3/4	204.34	3/4		3/4		3/4		3/4		3/4	
7	1,402.62	7	1,102.66	7	799.71	7	496.64	7	198.02	7		7		7		7		7	
1/4	1,396.30	1/4	1,096.34	1/4	793.41	1/4	490.32	1/4	191.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,389.98	1/2	1,090.02	1/2	787.11	1/2	484.00	1/2	185.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,383.66	3/4	1,083.70	3/4	780.81	3/4	477.68	3/4	179.06	3/4		3/4		3/4		3/4		3/4	
8	1,377.34	8	1,077.37	8	774.51	8	471.36	8	172.73	8		8		8		8		8	
1/4	1,371.02	1/4	1,071.05	1/4	768.21	1/4	465.04	1/4	166.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,364.70	1/2	1,064.73	1/2	761.91	1/2	458.72	1/2	160.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,358.38	3/4	1,058.41	3/4	755.61	3/4	452.39	3/4	153.87	3/4		3/4		3/4		3/4		3/4	
9	1,352.06	9	1,052.09	9	749.31	9	446.07	9	147.65	9		9		9		9		9	
1/4	1,345.74	1/4	1,045.77	1/4	743.01	1/4	439.75	1/4	141.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,339.42	1/2	1,039.45	1/2	736.71	1/2	433.43	1/2	135.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,333.17	3/4	1,033.13	3/4	730.41	3/4	427.11	3/4	129.09	3/4		3/4		3/4		3/4		3/4	
10	1,326.92	10	1,026.81	10	724.11	10	420.79	10	122.97	10		10		10		10		10	
1/4	1,320.67	1/4	1,020.48	1/4	717.81	1/4	414.47	1/4	116.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,314.42	1/2	1,014.16	1/2	711.51	1/2	408.15	1/2	110.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,308.25	3/4	1,007.84	3/4	705.20	3/4	401.93	3/4	104.62	3/4		3/4		3/4		3/4		3/4	
11	1,302.07	11	1,001.52	11	698.89	11	395.70	11	98.50	11		11		11		11		11	
1/4	1,295.89	1/4	995.20	1/4	692.58	1/4	389.48	1/4	92.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,289.71	1/2	988.88	1/2	686.27	1/2	383.26	1/2	86.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,283.53	3/4	982.56	3/4	679.95	3/4	377.14	3/4	80.17	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

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



BARGE "MM 316"

4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-10 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	2,067.07	0	1,869.81	0	1,652.33	0	1,434.85	0	1,216.99	0	999.45	0	784.85	0	571.31	0	357.90	0	142.92
1/4		1/4	2,065.04	1/4	1,865.28	1/4	1,647.80	1/4	1,430.32	1/4	1,212.45	1/4	994.95	1/4	780.31	1/4	566.96	1/4	353.36	1/4	138.41
1/2		1/2	2,063.01	1/2	1,860.74	1/2	1,643.27	1/2	1,425.79	1/2	1,207.90	1/2	990.45	1/2	775.77	1/2	562.61	1/2	348.81	1/2	133.90
3/4		3/4	2,060.98	3/4	1,856.21	3/4	1,638.74	3/4	1,421.26	3/4	1,203.36	3/4	985.95	3/4	771.23	3/4	558.26	3/4	344.27	3/4	129.38
1		1	2,058.19	1	1,851.68	1	1,634.20	1	1,416.73	1	1,198.81	1	981.45	1	766.69	1	553.92	1	339.73	1	124.83
1/4		1/4	2,055.40	1/4	1,847.15	1/4	1,629.67	1/4	1,412.20	1/4	1,194.27	1/4	976.94	1/4	762.15	1/4	549.57	1/4	335.18	1/4	120.28
1/2		1/2	2,052.61	1/2	1,842.62	1/2	1,625.14	1/2	1,407.66	1/2	1,189.72	1/2	972.44	1/2	757.60	1/2	545.22	1/2	330.64	1/2	115.74
3/4		3/4	2,049.82	3/4	1,838.09	3/4	1,620.61	3/4	1,403.13	3/4	1,185.18	3/4	967.94	3/4	753.06	3/4	540.87	3/4	326.09	3/4	111.19
2		2	2,046.26	2	1,833.56	2	1,616.08	2	1,398.60	2	1,180.63	2	963.44	2	748.52	2	536.53	2	321.55	2	106.63
1/4		1/4	2,042.71	1/4	1,829.03	1/4	1,611.55	1/4	1,394.07	1/4	1,176.09	1/4	958.94	1/4	743.98	1/4	532.18	1/4	317.01	1/4	102.07
1/2		1/2	2,039.16	1/2	1,824.50	1/2	1,607.02	1/2	1,389.54	1/2	1,171.54	1/2	954.43	1/2	739.44	1/2	527.83	1/2	312.46	1/2	97.51
3/4		3/4	2,035.61	3/4	1,819.97	3/4	1,602.49	3/4	1,385.01	3/4	1,167.00	3/4	949.93	3/4	734.90	3/4	523.48	3/4	307.92	3/4	92.95
3		3	2,031.30	3	1,815.44	3	1,597.96	3	1,380.48	3	1,162.45	3	945.43	3	730.36	3	519.14	3	303.38	3	88.39
1/4		1/4	2,026.99	1/4	1,810.91	1/4	1,593.43	1/4	1,375.95	1/4	1,157.91	1/4	940.93	1/4	725.81	1/4	514.79	1/4	298.83	1/4	83.83
1/2		1/2	2,022.67	1/2	1,806.37	1/2	1,588.90	1/2	1,371.42	1/2	1,153.36	1/2	936.43	1/2	721.27	1/2	510.44	1/2	294.29	1/2	79.27
3/4		3/4	2,018.36	3/4	1,801.84	3/4	1,584.37	3/4	1,366.89	3/4	1,148.82	3/4	931.92	3/4	716.73	3/4	506.09	3/4	289.75	3/4	74.71
4		4	2,013.86	4	1,797.31	4	1,579.83	4	1,362.36	4	1,144.27	4	927.42	4	712.19	4	501.74	4	285.20	4	70.26
1/4		1/4	2,009.36	1/4	1,792.78	1/4	1,575.30	1/4	1,357.83	1/4	1,139.72	1/4	922.92	1/4	707.65	1/4	497.39	1/4	280.65	1/4	65.81
1/2		1/2	2,004.86	1/2	1,788.25	1/2	1,570.77	1/2	1,353.29	1/2	1,135.18	1/2	918.42	1/2	703.11	1/2	493.04	1/2	276.10	1/2	61.35
3/4		3/4	2,000.36	3/4	1,783.72	3/4	1,566.24	3/4	1,348.76	3/4	1,130.63	3/4	913.92	3/4	698.57	3/4	488.70	3/4	271.55	3/4	56.90
5		5	1,995.87	5	1,779.19	5	1,561.71	5	1,344.23	5	1,126.09	5	909.47	5	694.02	5	484.35	5	267.00	5	52.91
1/4		1/4	1,991.38	1/4	1,774.66	1/4	1,557.18	1/4	1,339.69	1/4	1,121.55	1/4	905.01	1/4	689.48	1/4	480.00	1/4	262.45	1/4	48.92
1/2		1/2	1,986.89	1/2	1,770.13	1/2	1,552.65	1/2	1,335.16	1/2	1,117.01	1/2	900.56	1/2	684.94	1/2	475.65	1/2	257.90	1/2	44.93
3/4		3/4	1,982.40	3/4	1,765.60	3/4	1,548.12	3/4	1,330.62	3/4	1,112.47	3/4	896.11	3/4	680.40	3/4	471.30	3/4	253.35	3/4	40.94
6		6	1,977.91	6	1,761.07	6	1,543.59	6	1,326.08	6	1,107.94	6	891.68	6	675.99	6	466.80	6	248.90	6	37.95
1/4		1/4	1,973.43	1/4	1,756.54	1/4	1,539.06	1/4	1,321.53	1/4	1,103.40	1/4	887.25	1/4	671.58	1/4	462.31	1/4	244.46	1/4	34.97
1/2		1/2	1,968.94	1/2	1,752.01	1/2	1,534.53	1/2	1,316.99	1/2	1,098.86	1/2	882.81	1/2	667.16	1/2	457.81	1/2	240.02	1/2	31.98
3/4		3/4	1,964.46	3/4	1,747.47	3/4	1,530.00	3/4	1,312.45	3/4	1,094.32	3/4	878.38	3/4	662.75	3/4	453.32	3/4	235.58	3/4	28.99
7		7	1,959.97	7	1,742.94	7	1,525.47	7	1,307.90	7	1,089.78	7	873.95	7	658.38	7	448.77	7	231.17	7	27.16
1/4		1/4	1,955.49	1/4	1,738.41	1/4	1,520.93	1/4	1,303.36	1/4	1,085.25	1/4	869.52	1/4	654.01	1/4	444.23	1/4	226.76	1/4	25.33
1/2		1/2	1,951.00	1/2	1,733.88	1/2	1,516.40	1/2	1,298.81	1/2	1,080.71	1/2	865.08	1/2	649.65	1/2	439.68	1/2	222.36	1/2	23.49
3/4		3/4	1,946.51	3/4	1,729.35	3/4	1,511.87	3/4	1,294.26	3/4	1,076.17	3/4	860.65	3/4	645.28	3/4	435.14	3/4	217.95	3/4	21.66
8		8	1,942.03	8	1,724.82	8	1,507.34	8	1,289.72	8	1,071.63	8	856.22	8	640.92	8	430.60	8	213.54	8	21.38
1/4		1/4	1,937.54	1/4	1,720.29	1/4	1,502.81	1/4	1,285.17	1/4	1,067.09	1/4	851.78	1/4	636.56	1/4	426.05	1/4	209.13	1/4	21.10
1/2		1/2	1,933.06	1/2	1,715.76	1/2	1,498.28	1/2	1,280.63	1/2	1,062.55	1/2	847.35	1/2	632.21	1/2	421.51	1/2	204.73	1/2	20.82
3/4		3/4	1,928.57	3/4	1,711.23	3/4	1,493.75	3/4	1,276.08	3/4	1,058.02	3/4	842.92	3/4	627.85	3/4	416.97	3/4	200.32	3/4	20.54
9		9	1,924.07	9	1,706.70	9	1,489.22	9	1,271.54	9	1,053.51	9	838.48	9	623.50	9	412.42	9	195.91	9	18.55
1/4		1/4	1,919.57	1/4	1,702.17	1/4	1,484.69	1/4	1,266.99	1/4	1,048.99	1/4	834.05	1/4	619.14	1/4	407.88	1/4	191.51	1/4	16.55
1/2		1/2	1,915.06	1/2	1,697.64	1/2	1,480.16	1/2	1,262.45	1/2	1,044.48	1/2	829.62	1/2	614.79	1/2	403.34	1/2	187.10	1/2	14.56
3/4		3/4	1,910.56	3/4	1,693.10	3/4	1,475.63	3/4	1,257.90	3/4	1,039.97	3/4	825.18	3/4	610.44	3/4	398.79	3/4	182.69	3/4	12.56
10		10	1,906.04	10	1,688.57	10	1,471.10	10	1,253.36	10	1,035.47	10	820.75	10	606.09	10	394.25	10	178.29	10	10.60
1/4		1/4	1,901.51	1/4	1,684.04	1/4	1,466.56	1/4	1,248.81	1/4	1,030.97	1/4	816.32	1/4	601.74	1/4	389.71	1/4	173.88	1/4	8.64
1/2		1/2	1,896.99	1/2	1,679.51	1/2	1,462.03	1/2	1,244.27	1/2	1,026.47	1/2	811.89	1/2	597.39	1/2	385.16	1/2	169.47	1/2	6.68
3/4		3/4	1,892.46	3/4	1,674.98	3/4	1,457.50	3/4	1,239.72	3/4	1,021.96	3/4	807.45	3/4	593.04	3/4	380.62	3/4	165.07	3/4	4.72
11		11	1,887.93	11	1,670.45	11	1,452.97	11	1,235.18	11	1,017.46	11	802.94	11	588.70	11	376.07	11	160.66	11	
1/4	2,071.64	1/4	1,883.40	1/4	1,665.92	1/4	1,448.44	1/4	1,230.63	1/4	1,012.96	1/4	798.42	1/4	584.35	1/4	371.53	1/4	156.25	1/4	
1/2	2,070.37	1/2	1,878.87	1/2	1,661.39	1/2	1,443.91	1/2	1,226.09	1/2	1,008.46	1/2	793.91	1/2	580.00	1/2	366.99	1/2	151.84	1/2	
3/4	2,069.10	3/4	1,874.34	3/4	1,656.86	3/4	1,439.38	3/4	1,221.54	3/4	1,003.96	3/4	789.40	3/4	575.65	3/4	362.44	3/4	147.44	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 06/04/2019 CL
CALCULATED: 06/05/2019 CL
PRINTED: 06/07/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "MM 316"

4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-10 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	2,067.72	0	1,871.01	0	1,654.63	0	1,438.26	0	1,221.51	0	1,004.87	0	791.03	0	574.10	0	357.48	0	143.28
1/4		1/4	2,065.69	1/4	1,866.50	1/4	1,650.12	1/4	1,433.75	1/4	1,216.98	1/4	1,000.38	1/4	786.50	1/4	569.59	1/4	352.96	1/4	138.74
1/2		1/2	2,063.66	1/2	1,861.99	1/2	1,645.62	1/2	1,429.24	1/2	1,212.46	1/2	995.90	1/2	781.98	1/2	565.09	1/2	348.44	1/2	134.21
3/4		3/4	2,061.62	3/4	1,857.48	3/4	1,641.11	3/4	1,424.73	3/4	1,207.94	3/4	991.41	3/4	777.45	3/4	560.58	3/4	343.91	3/4	129.68
1		1	2,058.83	1	1,852.97	1	1,636.60	1	1,420.23	1	1,203.42	1	986.92	1	772.93	1	556.08	1	339.39	1	125.11
1/4		1/4	2,056.04	1/4	1,848.47	1/4	1,632.09	1/4	1,415.72	1/4	1,198.89	1/4	982.44	1/4	768.40	1/4	551.57	1/4	334.87	1/4	120.55
1/2		1/2	2,053.24	1/2	1,843.96	1/2	1,627.58	1/2	1,411.21	1/2	1,194.37	1/2	977.95	1/2	763.87	1/2	547.07	1/2	330.35	1/2	115.98
3/4		3/4	2,050.45	3/4	1,839.45	3/4	1,623.08	3/4	1,406.70	3/4	1,189.85	3/4	973.47	3/4	759.35	3/4	542.57	3/4	325.83	3/4	111.41
2		2	2,046.89	2	1,834.94	2	1,618.57	2	1,402.19	2	1,185.33	2	968.98	2	754.82	2	538.06	2	321.31	2	106.85
1/4		1/4	2,043.33	1/4	1,830.44	1/4	1,614.06	1/4	1,397.69	1/4	1,180.80	1/4	964.49	1/4	750.30	1/4	533.56	1/4	316.79	1/4	102.28
1/2		1/2	2,039.78	1/2	1,825.93	1/2	1,609.55	1/2	1,393.18	1/2	1,176.28	1/2	960.01	1/2	745.77	1/2	529.05	1/2	312.27	1/2	97.71
3/4		3/4	2,036.22	3/4	1,821.42	3/4	1,605.05	3/4	1,388.67	3/4	1,171.76	3/4	955.52	3/4	741.25	3/4	524.55	3/4	307.75	3/4	93.14
3		3	2,031.91	3	1,816.91	3	1,600.54	3	1,384.16	3	1,167.24	3	951.03	3	736.72	3	520.04	3	303.23	3	88.58
1/4		1/4	2,027.59	1/4	1,812.40	1/4	1,596.03	1/4	1,379.66	1/4	1,162.72	1/4	946.55	1/4	732.19	1/4	515.54	1/4	298.71	1/4	84.01
1/2		1/2	2,023.27	1/2	1,807.90	1/2	1,591.52	1/2	1,375.15	1/2	1,158.19	1/2	942.06	1/2	727.67	1/2	511.03	1/2	294.19	1/2	79.44
3/4		3/4	2,018.95	3/4	1,803.39	3/4	1,587.01	3/4	1,370.64	3/4	1,153.67	3/4	937.58	3/4	723.14	3/4	506.53	3/4	289.67	3/4	74.87
4		4	2,014.45	4	1,798.88	4	1,582.51	4	1,366.13	4	1,149.15	4	933.09	4	718.62	4	502.02	4	285.14	4	70.42
1/4		1/4	2,009.94	1/4	1,794.37	1/4	1,578.00	1/4	1,361.62	1/4	1,144.63	1/4	928.60	1/4	714.09	1/4	497.52	1/4	280.62	1/4	65.96
1/2		1/2	2,005.43	1/2	1,789.87	1/2	1,573.49	1/2	1,357.12	1/2	1,140.10	1/2	924.12	1/2	709.57	1/2	493.01	1/2	276.09	1/2	61.50
3/4		3/4	2,000.92	3/4	1,785.36	3/4	1,568.98	3/4	1,352.61	3/4	1,135.58	3/4	919.63	3/4	705.04	3/4	488.51	3/4	271.56	3/4	57.04
5		5	1,996.45	5	1,780.85	5	1,564.48	5	1,348.10	5	1,131.06	5	915.20	5	700.52	5	484.00	5	267.04	5	53.04
1/4		1/4	1,991.98	1/4	1,776.34	1/4	1,559.97	1/4	1,343.58	1/4	1,126.54	1/4	910.76	1/4	695.99	1/4	479.49	1/4	262.51	1/4	49.05
1/2		1/2	1,987.50	1/2	1,771.83	1/2	1,555.46	1/2	1,339.07	1/2	1,122.01	1/2	906.33	1/2	691.46	1/2	474.99	1/2	257.98	1/2	45.05
3/4		3/4	1,983.03	3/4	1,767.33	3/4	1,550.95	3/4	1,334.56	3/4	1,117.49	3/4	901.89	3/4	686.94	3/4	470.48	3/4	253.45	3/4	41.05
6		6	1,978.56	6	1,762.82	6	1,546.44	6	1,330.04	6	1,112.97	6	897.48	6	682.41	6	465.96	6	249.03	6	38.06
1/4		1/4	1,974.10	1/4	1,758.31	1/4	1,541.94	1/4	1,325.51	1/4	1,108.45	1/4	893.06	1/4	677.89	1/4	461.44	1/4	244.61	1/4	35.07
1/2		1/2	1,969.64	1/2	1,753.80	1/2	1,537.43	1/2	1,320.99	1/2	1,103.93	1/2	888.64	1/2	673.36	1/2	456.93	1/2	240.19	1/2	32.07
3/4		3/4	1,965.18	3/4	1,749.30	3/4	1,532.92	3/4	1,316.47	3/4	1,099.40	3/4	884.22	3/4	668.84	3/4	452.41	3/4	235.77	3/4	29.08
7		7	1,960.71	7	1,744.79	7	1,528.41	7	1,311.95	7	1,094.88	7	879.81	7	664.31	7	447.89	7	231.39	7	27.24
1/4		1/4	1,956.25	1/4	1,740.28	1/4	1,523.91	1/4	1,307.43	1/4	1,090.36	1/4	875.39	1/4	659.79	1/4	443.37	1/4	227.00	1/4	25.40
1/2		1/2	1,951.79	1/2	1,735.77	1/2	1,519.40	1/2	1,302.91	1/2	1,085.84	1/2	870.97	1/2	655.26	1/2	438.85	1/2	222.62	1/2	23.56
3/4		3/4	1,947.33	3/4	1,731.26	3/4	1,514.89	3/4	1,298.38	3/4	1,081.31	3/4	866.55	3/4	650.73	3/4	434.33	3/4	218.24	3/4	21.72
8		8	1,942.86	8	1,726.76	8	1,510.38	8	1,293.86	8	1,076.79	8	862.14	8	646.22	8	429.81	8	213.85	8	21.44
1/4		1/4	1,938.40	1/4	1,722.25	1/4	1,505.87	1/4	1,289.34	1/4	1,072.27	1/4	857.72	1/4	641.71	1/4	425.29	1/4	209.47	1/4	21.15
1/2		1/2	1,933.94	1/2	1,717.74	1/2	1,501.37	1/2	1,284.82	1/2	1,067.75	1/2	853.30	1/2	637.19	1/2	420.76	1/2	205.09	1/2	20.87
3/4		3/4	1,929.48	3/4	1,713.23	3/4	1,496.86	3/4	1,280.30	3/4	1,063.22	3/4	848.89	3/4	632.68	3/4	416.24	3/4	200.70	3/4	20.58
9		9	1,925.00	9	1,708.73	9	1,492.35	9	1,275.77	9	1,058.73	9	844.47	9	628.17	9	411.72	9	196.32	9	18.58
1/4		1/4	1,920.52	1/4	1,704.22	1/4	1,487.84	1/4	1,271.25	1/4	1,054.23	1/4	840.05	1/4	623.66	1/4	407.20	1/4	191.93	1/4	16.58
1/2		1/2	1,916.04	1/2	1,699.71	1/2	1,483.33	1/2	1,266.73	1/2	1,049.74	1/2	835.63	1/2	619.15	1/2	402.68	1/2	187.55	1/2	14.58
3/4		3/4	1,911.56	3/4	1,695.20	3/4	1,478.83	3/4	1,262.21	3/4	1,045.24	3/4	831.22	3/4	614.64	3/4	398.16	3/4	183.17	3/4	12.58
10		10	1,907.05	10	1,690.69	10	1,474.32	10	1,257.68	10	1,040.76	10	826.80	10	610.13	10	393.64	10	178.75	10	10.62
1/4		1/4	1,902.55	1/4	1,686.19	1/4	1,469.81	1/4	1,253.16	1/4	1,036.27	1/4	822.38	1/4	605.63	1/4	389.12	1/4	174.34	1/4	8.66
1/2		1/2	1,898.05	1/2	1,681.68	1/2	1,465.30	1/2	1,248.64	1/2	1,031.79	1/2	817.97	1/2	601.12	1/2	384.60	1/2	169.92	1/2	6.69
3/4		3/4	1,893.54	3/4	1,677.17	3/4	1,460.80	3/4	1,244.12	3/4	1,027.30	3/4	813.55	3/4	596.62	3/4	380.08	3/4	165.51	3/4	4.73
11		11	1,889.04	11	1,672.66	11	1,456.29	11	1,239.59	11	1,022.81	11	809.05	11	592.11	11	375.56	11	161.08	11	
1/4	2,072.30	1/4	1,884.53	1/4	1,668.15	1/4	1,451.78	1/4	1,235.07	1/4	1,018.33	1/4	804.55	1/4	587.61	1/4	371.04	1/4	156.66	1/4	
1/2	2,071.03	1/2	1,880.02	1/2	1,663.65	1/2	1,447.27	1/2	1,230.55	1/2	1,013.84	1/2	800.05	1/2	583.10	1/2	366.52	1/2	152.23	1/2	
3/4	2,069.76	3/4	1,875.51	3/4	1,659.14	3/4	1,442.76	3/4	1,226.03	3/4	1,009.36	3/4	795.55	3/4	578.60	3/4	362.00	3/4	147.81	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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