



BARGE: SMS 113

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
2 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2
3 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

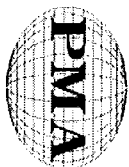
EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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 CENTER IS 00-1/2"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 163'-09"

January 30, 2019



BARGE "SMS 113"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

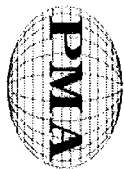
GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	0	3,290.90	3,075.76	2,860.62	2,645.72	2,401.81	2,150.50	1,899.28	1,648.53
1/4	3,479.04	3,266.42	3,071.28	2,856.14	2,641.27	2,396.58	2,145.26	1,894.06	1,643.29	1,392.06
1/2	3,478.16	3,265.80	3,070.62	2,855.48	2,640.62	2,396.00	2,144.70	1,893.50	1,642.70	1,391.50
3/4	3,477.29	3,264.93	3,069.75	2,854.61	2,639.75	2,395.13	2,143.83	1,892.63	1,641.83	1,390.63
1	3,476.42	3,264.06	3,068.88	2,853.74	2,638.88	2,394.26	2,142.96	1,891.76	1,640.96	1,389.76
1/4	3,475.54	3,263.19	3,068.01	2,852.87	2,638.01	2,393.39	2,142.09	1,890.89	1,640.09	1,388.89
1/2	3,474.67	3,262.32	3,067.14	2,852.00	2,637.14	2,392.52	2,141.22	1,890.02	1,639.22	1,388.02
3/4	3,473.80	3,261.45	3,066.27	2,851.13	2,636.27	2,391.65	2,140.35	1,889.15	1,638.35	1,387.15
2	3,467.67	3,255.05	3,059.91	2,844.77	2,629.91	2,385.94	2,134.47	1,885.94	1,634.47	1,383.47
1/4	3,465.04	3,250.56	3,055.42	2,840.28	2,625.42	2,381.45	2,130.00	1,881.45	1,630.00	1,379.00
1/2	3,460.67	3,246.08	3,050.94	2,835.80	2,620.94	2,376.92	2,125.52	1,877.92	1,625.52	1,374.52
3/4	3,456.30	3,241.60	3,046.46	2,831.32	2,616.46	2,372.44	2,121.04	1,873.44	1,621.04	1,370.04
3	3,451.93	3,237.12	3,041.98	2,826.84	2,611.98	2,367.96	2,116.56	1,868.96	1,616.56	1,365.56
1/4	3,447.56	3,232.64	3,037.50	2,822.36	2,607.50	2,363.48	2,112.08	1,864.48	1,612.08	1,361.08
1/2	3,443.12	3,228.15	3,033.01	2,817.87	2,603.01	2,358.99	2,107.60	1,859.99	1,607.60	1,356.60
3/4	3,438.68	3,223.67	3,028.53	2,813.39	2,598.53	2,354.51	2,103.12	1,855.51	1,603.12	1,352.12
4	3,434.24	3,219.19	3,024.05	2,808.91	2,594.05	2,350.03	2,100.00	1,851.00	1,600.00	1,347.00
1/4	3,429.81	3,214.71	3,019.57	2,804.43	2,589.57	2,345.55	2,095.52	1,846.52	1,595.52	1,342.52
1/2	3,425.34	3,210.23	3,015.09	2,800.00	2,585.10	2,341.07	2,091.04	1,842.04	1,591.04	1,338.04
3/4	3,420.87	3,205.74	3,010.61	2,795.52	2,580.62	2,336.59	2,086.56	1,837.56	1,586.56	1,333.56
5	3,416.40	3,201.26	3,006.13	2,791.04	2,576.14	2,332.11	2,082.08	1,833.08	1,582.08	1,329.08
1/4	3,411.93	3,196.78	3,001.65	2,786.56	2,571.66	2,327.63	2,077.60	1,828.60	1,577.60	1,324.60
1/2	3,407.44	3,192.30	2,997.17	2,782.08	2,567.18	2,323.15	2,073.12	1,824.12	1,573.12	1,320.12
3/4	3,402.96	3,187.82	2,992.69	2,777.60	2,562.70	2,318.67	2,068.64	1,819.64	1,568.64	1,315.64
6	3,398.48	3,183.33	2,988.21	2,773.12	2,558.22	2,314.19	2,064.16	1,815.16	1,564.16	1,311.16
1/4	3,393.99	3,178.85	2,983.73	2,768.64	2,553.74	2,309.71	2,059.68	1,810.68	1,559.68	1,306.68
1/2	3,389.51	3,174.37	2,979.25	2,764.16	2,549.26	2,305.23	2,055.20	1,806.20	1,555.20	1,302.20
3/4	3,385.03	3,169.89	2,974.77	2,759.68	2,544.78	2,300.75	2,050.72	1,801.72	1,550.72	1,297.72
7	3,380.55	3,165.40	2,970.29	2,755.20	2,540.30	2,296.27	2,046.24	1,797.24	1,546.24	1,293.24
1/4	3,376.06	3,160.92	2,965.81	2,750.72	2,535.82	2,291.79	2,041.76	1,792.76	1,541.76	1,288.76
1/2	3,371.58	3,156.44	2,961.33	2,746.24	2,531.34	2,287.31	2,037.28	1,788.28	1,537.28	1,284.28
3/4	3,367.10	3,151.96	2,956.85	2,741.76	2,526.86	2,282.83	2,032.80	1,783.80	1,532.80	1,279.80
8	3,362.62	3,147.48	2,952.37	2,737.28	2,522.38	2,278.35	2,028.32	1,779.32	1,528.32	1,275.32
1/4	3,358.14	3,142.99	2,947.89	2,732.80	2,517.90	2,273.87	2,023.84	1,774.84	1,523.84	1,270.84
1/2	3,353.65	3,138.51	2,943.41	2,728.32	2,513.42	2,269.39	2,019.36	1,770.36	1,519.36	1,266.36
3/4	3,349.17	3,134.03	2,938.93	2,723.84	2,508.94	2,264.91	2,014.88	1,765.88	1,514.88	1,261.88
9	3,344.69	3,129.55	2,934.45	2,719.36	2,504.46	2,260.43	2,010.40	1,761.40	1,510.40	1,257.40
1/4	3,340.21	3,125.07	2,929.97	2,714.88	2,500.00	2,255.95	2,005.92	1,756.92	1,505.92	1,252.92
1/2	3,335.72	3,120.58	2,925.49	2,710.40	2,495.52	2,251.47	2,001.44	1,752.44	1,501.44	1,248.44
3/4	3,331.24	3,116.10	2,921.01	2,705.92	2,491.04	2,247.00	1,996.96	1,747.96	1,496.96	1,243.96
10	3,326.76	3,111.62	2,916.53	2,701.44	2,486.56	2,242.52	1,992.48	1,743.48	1,492.48	1,239.48
1/4	3,322.28	3,107.14	2,912.05	2,696.96	2,482.08	2,238.05	1,987.92	1,738.92	1,487.92	1,234.92
1/2	3,317.80	3,102.66	2,907.57	2,692.48	2,477.60	2,233.57	1,983.44	1,734.44	1,483.44	1,230.44
3/4	3,313.31	3,098.17	2,903.09	2,688.00	2,473.12	2,229.09	1,978.96	1,729.96	1,478.96	1,225.96
11	3,308.83	3,093.69	2,898.61	2,683.52	2,468.64	2,224.61	1,974.48	1,725.48	1,474.48	1,221.48
1/4	3,304.35	3,089.21	2,894.13	2,679.04	2,464.16	2,220.13	1,969.92	1,720.92	1,469.92	1,216.92
1/2	3,299.87	3,084.73	2,889.65	2,674.56	2,459.68	2,215.65	1,965.44	1,716.44	1,465.44	1,212.44
3/4	3,295.39	3,080.24	2,885.17	2,670.08	2,455.20	2,211.17	1,960.96	1,711.96	1,460.96	1,207.96

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MEMS 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 TO TOP OF 2" HERMETIC VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD

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



BARGE "SMS 113"

1 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	1,397.35	0	1,146.08	0	894.81	0	648.74	0	397.57	0	145.55	0		0		0		0	
1/4	1,392.12	1/4	1,140.85	1/4	889.58	1/4	643.65	1/4	392.32	1/4	140.30	1/4		1/4		1/4		1/4	
1/2	1,386.88	1/2	1,135.61	1/2	884.34	1/2	638.56	1/2	387.07	1/2	135.05	1/2		1/2		1/2		1/2	
3/4	1,381.65	3/4	1,130.38	3/4	879.11	3/4	633.46	3/4	381.82	3/4	129.80	3/4		3/4		3/4		3/4	
1	1,376.41	1	1,125.14	1	873.87	1	628.37	1	376.57	1	124.55	1		1		1		1	
1/4	1,371.18	1/4	1,119.91	1/4	868.64	1/4	623.27	1/4	371.32	1/4	119.30	1/4		1/4		1/4		1/4	
1/2	1,365.94	1/2	1,114.67	1/2	863.40	1/2	618.03	1/2	366.07	1/2	114.05	1/2		1/2		1/2		1/2	
3/4	1,360.71	3/4	1,109.44	3/4	858.17	3/4	612.79	3/4	360.82	3/4	108.80	3/4		3/4		3/4		3/4	
2	1,355.47	2	1,104.20	2	852.93	2	607.55	2	355.57	2	103.55	2		2		2		2	
1/4	1,350.24	1/4	1,098.97	1/4	847.70	1/4	602.31	1/4	350.32	1/4	98.30	1/4		1/4		1/4		1/4	
1/2	1,345.00	1/2	1,093.73	1/2	842.46	1/2	597.06	1/2	345.07	1/2	93.05	1/2		1/2		1/2		1/2	
3/4	1,339.77	3/4	1,088.50	3/4	837.23	3/4	591.82	3/4	339.82	3/4	87.80	3/4		3/4		3/4		3/4	
3	1,334.53	3	1,083.26	3	831.99	3	586.58	3	334.57	3	82.55	3		3		3		3	
1/4	1,329.30	1/4	1,078.03	1/4	826.76	1/4	581.34	1/4	329.32	1/4	77.31	1/4		1/4		1/4		1/4	
1/2	1,324.06	1/2	1,072.79	1/2	821.65	1/2	576.09	1/2	324.07	1/2	72.07	1/2		1/2		1/2		1/2	
3/4	1,318.83	3/4	1,067.56	3/4	816.55	3/4	570.84	3/4	318.82	3/4	66.83	3/4		3/4		3/4		3/4	
4	1,313.59	4	1,062.32	4	811.44	4	565.59	4	313.57	4	61.59	4		4		4		4	
1/4	1,308.36	1/4	1,057.09	1/4	806.34	1/4	560.34	1/4	308.32	1/4	56.36	1/4		1/4		1/4		1/4	
1/2	1,303.12	1/2	1,051.85	1/2	801.23	1/2	555.09	1/2	303.07	1/2	51.15	1/2		1/2		1/2		1/2	
3/4	1,297.89	3/4	1,046.62	3/4	796.13	3/4	549.84	3/4	297.82	3/4	45.95	3/4		3/4		3/4		3/4	
5	1,292.65	5	1,041.38	5	791.03	5	544.59	5	292.57	5	40.74	5		5		5		5	
1/4	1,287.42	1/4	1,036.15	1/4	785.93	1/4	539.34	1/4	287.32	1/4	35.54	1/4		1/4		1/4		1/4	
1/2	1,282.19	1/2	1,030.91	1/2	780.85	1/2	534.09	1/2	282.07	1/2	31.16	1/2		1/2		1/2		1/2	
3/4	1,276.95	3/4	1,025.68	3/4	775.77	3/4	528.83	3/4	276.82	3/4	26.79	3/4		3/4		3/4		3/4	
6	1,271.72	6	1,020.45	6	770.69	6	523.58	6	271.57	6	22.42	6		6		6		6	
1/4	1,266.48	1/4	1,015.21	1/4	765.61	1/4	518.33	1/4	266.31	1/4	18.04	1/4		1/4		1/4		1/4	
1/2	1,261.25	1/2	1,009.98	1/2	760.53	1/2	513.08	1/2	261.06	1/2	15.42	1/2		1/2		1/2		1/2	
3/4	1,256.01	3/4	1,004.74	3/4	755.45	3/4	507.83	3/4	255.81	3/4	12.80	3/4		3/4		3/4		3/4	
7	1,250.78	7	999.51	7	750.37	7	502.58	7	250.56	7	10.17	7		7		7		7	
1/4	1,245.54	1/4	994.27	1/4	745.29	1/4	497.33	1/4	245.31	1/4	7.55	1/4		1/4		1/4		1/4	
1/2	1,240.31	1/2	989.04	1/2	740.21	1/2	492.08	1/2	240.06	1/2	6.67	1/2		1/2		1/2		1/2	
3/4	1,235.07	3/4	983.80	3/4	735.13	3/4	486.83	3/4	234.81	3/4	5.80	3/4		3/4		3/4		3/4	
8	1,229.84	8	978.57	8	730.05	8	481.58	8	229.56	8	4.93	8		8		8		8	
1/4	1,224.60	1/4	973.33	1/4	724.97	1/4	476.33	1/4	224.31	1/4	4.05	1/4		1/4		1/4		1/4	
1/2	1,219.37	1/2	968.10	1/2	719.89	1/2	471.08	1/2	219.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,214.13	3/4	962.86	3/4	714.81	3/4	465.83	3/4	213.81	3/4		3/4		3/4		3/4		3/4	
9	1,208.90	9	957.63	9	709.73	9	460.58	9	208.56	9		9		9		9		9	
1/4	1,203.66	1/4	952.39	1/4	704.65	1/4	455.33	1/4	203.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,198.43	1/2	947.16	1/2	699.57	1/2	450.08	1/2	198.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,193.19	3/4	941.92	3/4	694.49	3/4	444.83	3/4	192.81	3/4		3/4		3/4		3/4		3/4	
10	1,187.96	10	936.69	10	689.41	10	439.58	10	187.56	10		10		10		10		10	
1/4	1,182.72	1/4	931.45	1/4	684.33	1/4	434.33	1/4	182.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,177.49	1/2	926.22	1/2	679.25	1/2	429.08	1/2	177.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,172.25	3/4	920.98	3/4	674.18	3/4	423.83	3/4	171.81	3/4		3/4		3/4		3/4		3/4	
11	1,167.02	11	915.75	11	669.10	11	418.58	11	166.56	11		11		11		11		11	
1/4	1,161.78	1/4	910.51	1/4	664.02	1/4	413.33	1/4	161.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,156.55	1/2	905.28	1/2	658.92	1/2	408.08	1/2	156.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,151.32	3/4	900.04	3/4	653.83	3/4	402.83	3/4	150.80	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/2019 SW
CALCULATED: 01/30/2019 CL
PRINTED: 01/30/2019 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77568
http://www.pmaacorp.net



BARGE "SMS 113"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

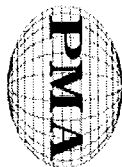
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	3,741.49	0	3,741.49	0	3,466.84	0	3,192.18	0	2,917.53	0	2,642.87	0	2,368.21	0	2,093.56	0	1,818.18
1/4	1/4	1/4	3,735.77	1/4	3,735.77	1/4	3,461.12	1/4	3,186.46	1/4	2,911.80	1/4	2,637.15	1/4	2,362.49	1/4	2,087.84	1/4	1,813.18
1/2	1/2	1/2	3,730.05	1/2	3,730.05	1/2	3,455.39	1/2	3,180.74	1/2	2,906.08	1/2	2,631.43	1/2	2,356.77	1/2	2,082.11	1/2	1,807.46
3/4	3/4	3/4	3,724.33	3/4	3,724.33	3/4	3,449.67	3/4	3,175.02	3/4	2,900.36	3/4	2,626.70	3/4	2,351.05	3/4	2,076.39	3/4	1,801.74
1	1	1	3,718.61	1	3,718.61	1	3,443.95	1	3,169.29	1	2,894.64	1	2,619.98	1	2,345.33	1	2,070.67	1	1,796.01
1/4	1/4	1/4	3,952.95	1/4	3,712.88	1/4	3,438.23	1/4	3,163.57	1/4	2,888.92	1/4	2,614.26	1/4	2,339.60	1/4	2,064.95	1/4	1,780.29
1/2	1/2	1/2	3,952.00	1/2	3,707.16	1/2	3,432.51	1/2	3,157.85	1/2	2,883.19	1/2	2,608.54	1/2	2,333.88	1/2	2,059.23	1/2	1,784.57
3/4	3/4	3/4	3,951.05	3/4	3,701.44	3/4	3,426.78	3/4	3,152.13	3/4	2,877.47	3/4	2,602.82	3/4	2,328.16	3/4	2,053.50	3/4	1,778.85
2	2	2	3,950.10	2	3,695.10	2	3,421.06	2	3,146.41	2	2,871.75	2	2,597.09	2	2,322.44	2	2,047.78	2	1,773.13
1/4	1/4	1/4	3,949.14	1/4	3,690.00	1/4	3,415.34	1/4	3,140.68	1/4	2,866.03	1/4	2,591.37	1/4	2,316.72	1/4	2,042.06	1/4	1,767.40
1/2	1/2	1/2	3,946.28	1/2	3,684.27	1/2	3,409.62	1/2	3,134.96	1/2	2,860.31	1/2	2,585.65	1/2	2,310.99	1/2	2,036.34	1/2	1,761.68
3/4	3/4	3/4	3,943.42	3/4	3,678.55	3/4	3,403.90	3/4	3,129.24	3/4	2,854.58	3/4	2,579.93	3/4	2,305.27	3/4	2,030.62	3/4	1,756.96
3	3	3	3,940.56	3	3,672.83	3	3,398.17	3	3,123.52	3	2,848.86	3	2,574.21	3	2,299.55	3	2,024.89	3	1,750.24
1/4	1/4	1/4	3,937.70	1/4	3,667.11	1/4	3,392.45	1/4	3,117.80	1/4	2,843.14	1/4	2,568.48	1/4	2,293.83	1/4	2,019.17	1/4	1,744.52
1/2	1/2	1/2	3,932.94	1/2	3,661.39	1/2	3,386.73	1/2	3,112.02	1/2	2,837.42	1/2	2,562.76	1/2	2,288.11	1/2	2,013.45	1/2	1,738.79
3/4	3/4	3/4	3,928.17	3/4	3,655.66	3/4	3,381.01	3/4	3,106.35	3/4	2,831.70	3/4	2,557.04	3/4	2,282.38	3/4	2,007.73	3/4	1,733.07
4	4	4	3,923.41	4	3,649.94	4	3,375.29	4	3,100.63	4	2,825.97	4	2,551.32	4	2,276.66	4	2,002.01	4	1,727.35
1/4	1/4	1/4	3,918.64	1/4	3,644.22	1/4	3,369.56	1/4	3,094.91	1/4	2,820.25	1/4	2,545.60	1/4	2,270.94	1/4	1,996.28	1/4	1,721.63
1/2	1/2	1/2	3,912.97	1/2	3,638.50	1/2	3,363.84	1/2	3,089.19	1/2	2,814.53	1/2	2,539.87	1/2	2,265.22	1/2	1,990.56	1/2	1,715.91
3/4	3/4	3/4	3,907.29	3/4	3,632.78	3/4	3,358.12	3/4	3,083.46	3/4	2,808.81	3/4	2,534.15	3/4	2,259.50	3/4	1,984.84	3/4	1,710.18
5	5	5	3,901.82	5	3,627.05	5	3,352.40	5	3,077.74	5	2,803.09	5	2,528.43	5	2,253.77	5	1,979.12	5	1,704.46
1/4	1/4	1/4	3,895.95	1/4	3,621.33	1/4	3,346.68	1/4	3,072.02	1/4	2,797.36	1/4	2,522.71	1/4	2,248.05	1/4	1,973.40	1/4	1,688.74
1/2	1/2	1/2	3,890.24	1/2	3,615.61	1/2	3,340.95	1/2	3,066.30	1/2	2,791.64	1/2	2,517.00	1/2	2,242.33	1/2	1,967.67	1/2	1,683.02
3/4	3/4	3/4	3,884.53	3/4	3,609.89	3/4	3,335.23	3/4	3,060.58	3/4	2,785.92	3/4	2,511.26	3/4	2,236.61	3/4	1,961.95	3/4	1,667.87
6	6	6	3,878.83	6	3,604.17	6	3,329.51	6	3,054.85	6	2,780.20	6	2,505.54	6	2,230.89	6	1,956.23	6	1,661.57
1/4	1/4	1/4	3,873.12	1/4	3,598.44	1/4	3,323.79	1/4	3,049.13	1/4	2,774.48	1/4	2,499.82	1/4	2,225.16	1/4	1,950.51	1/4	1,656.85
1/2	1/2	1/2	3,867.39	1/2	3,592.72	1/2	3,318.07	1/2	3,043.41	1/2	2,768.75	1/2	2,494.10	1/2	2,219.44	1/2	1,944.79	1/2	1,650.13
3/4	3/4	3/4	3,861.67	3/4	3,587.00	3/4	3,312.34	3/4	3,037.69	3/4	2,763.03	3/4	2,488.38	3/4	2,213.72	3/4	1,939.06	3/4	1,644.41
7	7	7	3,855.94	7	3,581.28	7	3,306.62	7	3,031.97	7	2,757.31	7	2,482.65	7	2,208.00	7	1,933.34	7	1,638.96
1/4	1/4	1/4	3,850.21	1/4	3,575.56	1/4	3,300.90	1/4	3,026.24	1/4	2,751.59	1/4	2,476.93	1/4	2,202.28	1/4	1,927.62	1/4	1,632.96
1/2	1/2	1/2	3,844.49	1/2	3,569.83	1/2	3,295.18	1/2	3,020.52	1/2	2,745.87	1/2	2,471.21	1/2	2,196.55	1/2	1,921.90	1/2	1,627.24
3/4	3/4	3/4	3,838.77	3/4	3,564.11	3/4	3,289.46	3/4	3,014.80	3/4	2,740.14	3/4	2,465.49	3/4	2,190.83	3/4	1,916.18	3/4	1,621.52
8	8	8	3,833.05	8	3,558.39	8	3,283.73	8	3,009.08	8	2,734.42	8	2,459.77	8	2,185.11	8	1,910.45	8	1,615.80
1/4	1/4	1/4	3,827.32	1/4	3,552.67	1/4	3,278.01	1/4	3,003.36	1/4	2,728.70	1/4	2,454.04	1/4	2,179.39	1/4	1,904.73	1/4	1,610.08
1/2	1/2	1/2	3,821.60	1/2	3,546.95	1/2	3,272.29	1/2	2,997.63	1/2	2,722.98	1/2	2,448.32	1/2	2,173.67	1/2	1,899.01	1/2	1,604.35
3/4	3/4	3/4	3,815.88	3/4	3,541.22	3/4	3,266.57	3/4	2,991.91	3/4	2,717.26	3/4	2,442.60	3/4	2,167.94	3/4	1,893.29	3/4	1,618.63
9	9	9	3,810.16	9	3,535.50	9	3,260.85	9	2,986.19	9	2,711.53	9	2,436.88	9	2,162.22	9	1,887.57	9	1,612.91
1/4	1/4	1/4	3,804.44	1/4	3,529.78	1/4	3,255.12	1/4	2,980.47	1/4	2,705.81	1/4	2,431.16	1/4	2,156.50	1/4	1,881.84	1/4	1,607.19
1/2	1/2	1/2	3,798.79	1/2	3,524.06	1/2	3,249.40	1/2	2,974.75	1/2	2,700.09	1/2	2,425.43	1/2	2,150.78	1/2	1,876.12	1/2	1,601.47
3/4	3/4	3/4	3,792.91	3/4	3,518.34	3/4	3,243.68	3/4	2,969.02	3/4	2,694.37	3/4	2,419.71	3/4	2,145.06	3/4	1,870.40	3/4	1,595.74
10	10	10	3,787.27	10	3,512.61	10	3,237.96	10	2,963.30	10	2,688.65	10	2,413.99	10	2,139.33	10	1,864.68	10	1,590.02
1/4	1/4	1/4	3,781.55	1/4	3,506.89	1/4	3,232.24	1/4	2,957.58	1/4	2,682.92	1/4	2,408.27	1/4	2,133.61	1/4	1,858.96	1/4	1,584.30
1/2	1/2	1/2	3,775.83	1/2	3,501.17	1/2	3,226.51	1/2	2,951.86	1/2	2,677.20	1/2	2,402.55	1/2	2,127.89	1/2	1,853.23	1/2	1,578.58
3/4	3/4	3/4	3,770.10	3/4	3,495.45	3/4	3,220.79	3/4	2,946.14	3/4	2,671.48	3/4	2,396.82	3/4	2,122.17	3/4	1,847.51	3/4	1,572.86
11	11	11	3,764.38	11	3,489.73	11	3,215.07	11	2,940.41	11	2,665.76	11	2,391.10	11	2,116.45	11	1,841.79	11	1,567.13
1/4	1/4	1/4	3,758.66	1/4	3,484.00	1/4	3,209.35	1/4	2,934.69	1/4	2,660.04	1/4	2,385.38	1/4	2,110.72	1/4	1,836.07	1/4	1,561.41
1/2	1/2	1/2	3,752.94	1/2	3,478.28	1/2	3,203.63	1/2	2,928.97	1/2	2,654.31	1/2	2,379.66	1/2	2,105.00	1/2	1,830.35	1/2	1,555.69
3/4	3/4	3/4	3,747.22	3/4	3,472.56	3/4	3,197.90	3/4	2,923.25	3/4	2,648.59	3/4	2,373.94	3/4	2,099.28	3/4	1,824.62	3/4	1,549.97

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
PRECISION MEASUREMENT & ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

CAPACITY TABLE ONLY APPLIES TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD

[Signature]



BARGE "SMS 113"

2 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

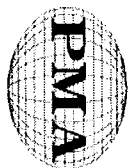
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,544.25	0	1,269.59	0	994.93	0	725.59	0	452.47	0	177.82	0		0		0		0	
1/4	1,538.52	1/4	1,263.87	1/4	989.21	1/4	720.04	1/4	446.75	1/4	172.10	1/4		1/4		1/4		1/4	
1/2	1,532.80	1/2	1,258.15	1/2	983.49	1/2	714.49	1/2	441.03	1/2	166.38	1/2		1/2		1/2		1/2	
3/4	1,527.08	3/4	1,252.42	3/4	977.77	3/4	708.94	3/4	435.31	3/4	160.66	3/4		3/4		3/4		3/4	
1	1,521.36	1	1,246.70	1	972.05	1	703.39	1	429.58	1	154.94	1		1		1		1	
1/4	1,515.64	1/4	1,240.98	1/4	966.32	1/4	697.84	1/4	423.86	1/4	149.22	1/4		1/4		1/4		1/4	
1/2	1,509.91	1/2	1,235.26	1/2	960.60	1/2	692.28	1/2	418.14	1/2	143.49	1/2		1/2		1/2		1/2	
3/4	1,504.19	3/4	1,229.54	3/4	954.88	3/4	686.73	3/4	412.42	3/4	137.77	3/4		3/4		3/4		3/4	
2	1,498.47	2	1,223.81	2	949.16	2	681.18	2	406.70	2	132.05	2		2		2		2	
1/4	1,492.75	1/4	1,218.09	1/4	943.44	1/4	675.62	1/4	400.97	1/4	126.33	1/4		1/4		1/4		1/4	
1/2	1,487.03	1/2	1,212.37	1/2	937.71	1/2	669.90	1/2	395.25	1/2	120.61	1/2		1/2		1/2		1/2	
3/4	1,481.30	3/4	1,206.65	3/4	931.99	3/4	664.18	3/4	389.53	3/4	114.88	3/4		3/4		3/4		3/4	
3	1,475.58	3	1,200.93	3	926.27	3	658.46	3	383.81	3	109.16	3		3		3		3	
1/4	1,469.86	1/4	1,195.20	1/4	920.55	1/4	652.73	1/4	378.09	1/4	103.44	1/4		1/4		1/4		1/4	
1/2	1,464.14	1/2	1,189.48	1/2	914.83	1/2	647.01	1/2	372.37	1/2	97.72	1/2		1/2		1/2		1/2	
3/4	1,458.42	3/4	1,183.76	3/4	909.10	3/4	641.29	3/4	366.64	3/4	92.00	3/4		3/4		3/4		3/4	
4	1,452.69	4	1,178.04	4	903.38	4	635.57	4	360.92	4	86.28	4		4		4		4	
1/4	1,446.97	1/4	1,172.32	1/4	897.66	1/4	629.85	1/4	355.20	1/4	80.56	1/4		1/4		1/4		1/4	
1/2	1,441.25	1/2	1,166.59	1/2	892.10	1/2	624.12	1/2	349.48	1/2	74.85	1/2		1/2		1/2		1/2	
3/4	1,435.53	3/4	1,160.87	3/4	886.55	3/4	618.40	3/4	343.76	3/4	69.15	3/4		3/4		3/4		3/4	
5	1,429.81	5	1,155.15	5	880.99	5	612.68	5	338.03	5	63.44	5		5		5		5	
1/4	1,424.08	1/4	1,149.43	1/4	875.44	1/4	606.96	1/4	332.31	1/4	57.73	1/4		1/4		1/4		1/4	
1/2	1,418.36	1/2	1,143.71	1/2	869.89	1/2	601.24	1/2	326.59	1/2	52.06	1/2		1/2		1/2		1/2	
3/4	1,412.64	3/4	1,137.98	3/4	864.34	3/4	595.52	3/4	320.87	3/4	46.39	3/4		3/4		3/4		3/4	
6	1,406.92	6	1,132.26	6	858.79	6	589.79	6	315.15	6	40.71	6		6		6		6	
1/4	1,401.20	1/4	1,126.54	1/4	853.24	1/4	584.07	1/4	309.43	1/4	35.04	1/4		1/4		1/4		1/4	
1/2	1,395.47	1/2	1,120.82	1/2	847.69	1/2	578.35	1/2	303.70	1/2	30.28	1/2		1/2		1/2		1/2	
3/4	1,389.75	3/4	1,115.10	3/4	842.14	3/4	572.63	3/4	297.98	3/4	25.51	3/4		3/4		3/4		3/4	
7	1,384.03	7	1,109.37	7	836.59	7	566.91	7	292.26	7	20.74	7		7		7		7	
1/4	1,378.31	1/4	1,103.65	1/4	831.04	1/4	561.18	1/4	286.54	1/4	15.98	1/4		1/4		1/4		1/4	
1/2	1,372.59	1/2	1,097.93	1/2	825.49	1/2	555.46	1/2	280.82	1/2	13.12	1/2		1/2		1/2		1/2	
3/4	1,366.86	3/4	1,092.21	3/4	819.94	3/4	549.74	3/4	275.09	3/4	10.26	3/4		3/4		3/4		3/4	
8	1,361.14	8	1,086.49	8	814.39	8	544.02	8	269.37	8	7.40	8		8		8		8	
1/4	1,355.42	1/4	1,080.76	1/4	808.84	1/4	538.30	1/4	263.65	1/4	4.54	1/4		1/4		1/4		1/4	
1/2	1,349.70	1/2	1,075.04	1/2	803.29	1/2	532.58	1/2	257.93	1/2	3.59	1/2		1/2		1/2		1/2	
3/4	1,343.98	3/4	1,069.32	3/4	797.74	3/4	526.85	3/4	252.21	3/4	2.63	3/4		3/4		3/4		3/4	
9	1,338.25	9	1,063.60	9	792.19	9	521.13	9	246.49	9	1.68	9		9		9		9	
1/4	1,332.53	1/4	1,057.88	1/4	786.64	1/4	515.41	1/4	240.76	1/4	0.73	1/4		1/4		1/4		1/4	
1/2	1,326.81	1/2	1,052.15	1/2	781.09	1/2	509.69	1/2	235.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,321.09	3/4	1,046.43	3/4	775.54	3/4	503.97	3/4	229.32	3/4		3/4		3/4		3/4		3/4	
10	1,315.37	10	1,040.71	10	769.99	10	498.25	10	223.60	10		10		10		10		10	
1/4	1,309.64	1/4	1,034.99	1/4	764.44	1/4	492.52	1/4	217.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,303.92	1/2	1,029.27	1/2	758.89	1/2	486.80	1/2	212.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,298.20	3/4	1,023.54	3/4	753.34	3/4	481.08	3/4	206.43	3/4		3/4		3/4		3/4		3/4	
11	1,292.48	11	1,017.82	11	747.79	11	475.36	11	200.71	11		11		11		11		11	
1/4	1,286.76	1/4	1,012.10	1/4	742.24	1/4	469.64	1/4	194.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,281.03	1/2	1,006.38	1/2	736.69	1/2	463.91	1/2	189.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,275.31	3/4	1,000.66	3/4	731.14	3/4	458.19	3/4	183.55	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/2019 SW
CALCULATED: 01/30/2019 CL
PRINTED: 01/30/2019 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "SMS 113"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	3,485.85	0	3,270.22	0	3,028.35	0	2,786.49	0	2,544.62	0	2,302.75	0	2,060.88	0	1,819.02	0	1,577.15		
1/4	3,485.01	1/4	3,265.18	1/4	3,023.31	1/4	2,781.45	1/4	2,539.58	1/4	2,297.71	1/4	2,055.84	1/4	1,813.98	1/4	1,572.11		
1/2	3,484.17	1/2	3,260.14	1/2	3,018.27	1/2	2,776.41	1/2	2,534.54	1/2	2,292.67	1/2	2,050.81	1/2	1,808.94	1/2	1,567.07		
3/4	3,483.33	3/4	3,255.10	3/4	3,013.24	3/4	2,771.37	3/4	2,529.50	3/4	2,287.63	3/4	2,045.77	3/4	1,803.90	3/4	1,562.03		
1	3,480.81	1	3,250.06	1	3,008.20	1	2,766.33	1	2,524.46	1	2,282.60	1	2,040.73	1	1,800.73	1	1,559.93		
1/4	3,478.29	1/4	3,245.03	1/4	3,003.16	1/4	2,761.29	1/4	2,519.42	1/4	2,277.56	1/4	2,035.69	1/4	1,793.82	1/4	1,551.95		
1/2	3,475.78	1/2	3,239.99	1/2	2,998.12	1/2	2,756.25	1/2	2,514.38	1/2	2,272.52	1/2	2,030.65	1/2	1,788.78	1/2	1,546.92		
3/4	3,473.26	3/4	3,234.95	3/4	2,993.08	3/4	2,751.21	3/4	2,509.35	3/4	2,267.48	3/4	2,025.61	3/4	1,783.74	3/4	1,541.88		
2	3,469.06	2	3,229.91	2	2,988.04	2	2,746.17	2	2,504.31	2	2,262.44	2	2,020.57	2	1,778.71	2	1,536.84		
1/4	3,464.86	1/4	3,224.87	1/4	2,983.00	1/4	2,741.14	1/4	2,499.27	1/4	2,257.40	1/4	2,015.53	1/4	1,773.67	1/4	1,531.80		
1/2	3,460.67	1/2	3,219.83	1/2	2,977.96	1/2	2,736.10	1/2	2,494.23	1/2	2,252.36	1/2	2,010.49	1/2	1,768.63	1/2	1,526.76		
3/4	3,456.47	3/4	3,214.79	3/4	2,972.92	3/4	2,731.06	3/4	2,489.19	3/4	2,247.32	3/4	2,005.46	3/4	1,763.59	3/4	1,521.72		
3	3,451.47	3	3,209.75	3	2,967.89	3	2,726.02	3	2,484.15	3	2,242.28	3	2,000.42	3	1,758.55	3	1,516.68		
1/4	3,446.48	1/4	3,204.71	1/4	2,962.85	1/4	2,720.98	1/4	2,479.11	1/4	2,237.25	1/4	1,995.38	1/4	1,753.51	1/4	1,511.64		
1/2	3,441.48	1/2	3,199.68	1/2	2,957.81	1/2	2,715.94	1/2	2,474.07	1/2	2,232.21	1/2	1,990.34	1/2	1,748.47	1/2	1,506.60		
3/4	3,436.49	3/4	3,194.64	3/4	2,952.77	3/4	2,710.90	3/4	2,469.03	3/4	2,227.17	3/4	1,985.30	3/4	1,743.43	3/4	1,501.57		
4	3,431.46	4	3,189.60	4	2,947.73	4	2,705.86	4	2,464.00	4	2,222.13	4	1,980.26	4	1,738.39	4	1,496.53		
1/4	3,426.44	1/4	3,184.56	1/4	2,942.69	1/4	2,700.82	1/4	2,459.96	1/4	2,217.09	1/4	1,975.22	1/4	1,733.36	1/4	1,491.49		
1/2	3,421.41	1/2	3,179.52	1/2	2,937.65	1/2	2,695.79	1/2	2,455.92	1/2	2,212.05	1/2	1,970.18	1/2	1,728.32	1/2	1,486.45		
3/4	3,416.38	3/4	3,174.48	3/4	2,932.61	3/4	2,690.75	3/4	2,448.88	3/4	2,207.01	3/4	1,965.14	3/4	1,723.28	3/4	1,481.41		
5	3,411.34	5	3,169.44	5	2,927.57	5	2,685.71	5	2,443.84	5	2,201.97	5	1,960.11	5	1,718.24	5	1,476.37		
1/4	3,406.29	1/4	3,164.40	1/4	2,922.54	1/4	2,680.67	1/4	2,438.80	1/4	2,196.93	1/4	1,955.07	1/4	1,713.20	1/4	1,471.33		
1/2	3,401.24	1/2	3,159.36	1/2	2,917.50	1/2	2,675.63	1/2	2,433.76	1/2	2,191.80	1/2	1,950.03	1/2	1,708.16	1/2	1,466.29		
3/4	3,396.19	3/4	3,154.33	3/4	2,912.46	3/4	2,670.59	3/4	2,428.72	3/4	2,186.86	3/4	1,944.99	3/4	1,703.12	3/4	1,461.25		
6	3,391.15	6	3,149.29	6	2,907.42	6	2,665.55	6	2,423.68	6	2,181.82	6	1,939.95	6	1,698.08	6	1,456.22		
1/4	3,386.11	1/4	3,144.25	1/4	2,902.38	1/4	2,660.51	1/4	2,418.65	1/4	2,176.78	1/4	1,934.91	1/4	1,693.04	1/4	1,451.18		
1/2	3,381.08	1/2	3,139.21	1/2	2,897.34	1/2	2,655.47	1/2	2,413.61	1/2	2,171.74	1/2	1,929.87	1/2	1,688.01	1/2	1,446.14		
3/4	3,376.04	3/4	3,134.17	3/4	2,892.30	3/4	2,650.44	3/4	2,408.57	3/4	2,166.70	3/4	1,924.83	3/4	1,682.97	3/4	1,441.10		
7	3,371.00	7	3,129.13	7	2,887.26	7	2,645.40	7	2,403.53	7	2,161.66	7	1,919.79	7	1,677.93	7	1,436.06		
1/4	3,366.96	1/4	3,124.09	1/4	2,882.22	1/4	2,640.36	1/4	2,398.49	1/4	2,156.62	1/4	1,914.76	1/4	1,672.89	1/4	1,431.02		
1/2	3,361.92	1/2	3,119.05	1/2	2,877.19	1/2	2,635.32	1/2	2,393.45	1/2	2,151.58	1/2	1,909.72	1/2	1,667.85	1/2	1,425.98		
3/4	3,356.88	3/4	3,114.01	3/4	2,872.15	3/4	2,630.28	3/4	2,388.41	3/4	2,146.55	3/4	1,904.68	3/4	1,662.81	3/4	1,420.94		
8	3,351.84	8	3,108.97	8	2,867.11	8	2,625.24	8	2,383.37	8	2,141.51	8	1,899.64	8	1,657.77	8	1,415.90		
1/4	3,346.80	1/4	3,103.94	1/4	2,862.07	1/4	2,620.20	1/4	2,378.33	1/4	2,136.47	1/4	1,894.60	1/4	1,652.73	1/4	1,410.87		
1/2	3,341.76	1/2	3,098.90	1/2	2,857.03	1/2	2,615.16	1/2	2,373.30	1/2	2,131.43	1/2	1,889.56	1/2	1,647.69	1/2	1,405.83		
3/4	3,336.73	3/4	3,093.86	3/4	2,851.99	3/4	2,610.12	3/4	2,368.26	3/4	2,126.39	3/4	1,884.52	3/4	1,642.66	3/4	1,400.79		
9	3,331.69	9	3,088.82	9	2,846.95	9	2,605.08	9	2,363.22	9	2,121.35	9	1,879.48	9	1,637.62	9	1,395.75		
1/4	3,326.65	1/4	3,083.78	1/4	2,841.91	1/4	2,600.05	1/4	2,358.18	1/4	2,116.31	1/4	1,874.44	1/4	1,632.58	1/4	1,390.71		
1/2	3,321.61	1/2	3,078.74	1/2	2,836.87	1/2	2,595.01	1/2	2,353.14	1/2	2,111.27	1/2	1,869.41	1/2	1,627.54	1/2	1,385.67		
3/4	3,316.57	3/4	3,073.70	3/4	2,831.84	3/4	2,589.97	3/4	2,348.10	3/4	2,106.23	3/4	1,864.37	3/4	1,622.50	3/4	1,380.63		
10	3,311.53	10	3,068.66	10	2,826.80	10	2,584.93	10	2,343.06	10	2,101.19	10	1,859.33	10	1,617.46	10	1,375.59		
1/4	3,306.49	1/4	3,063.62	1/4	2,821.76	1/4	2,579.89	1/4	2,338.02	1/4	2,096.16	1/4	1,854.29	1/4	1,612.42	1/4	1,370.55		
1/2	3,301.45	1/2	3,058.59	1/2	2,816.72	1/2	2,574.85	1/2	2,332.98	1/2	2,091.12	1/2	1,849.25	1/2	1,607.38	1/2	1,365.52		
3/4	3,296.41	3/4	3,053.55	3/4	2,811.68	3/4	2,569.81	3/4	2,327.95	3/4	2,086.08	3/4	1,844.21	3/4	1,602.34	3/4	1,360.48		
11	3,291.38	11	3,048.51	11	2,806.64	11	2,564.77	11	2,322.91	11	2,081.04	11	1,839.17	11	1,597.30	11	1,355.44		
1/4	3,286.34	1/4	3,043.47	1/4	2,801.60	1/4	2,559.73	1/4	2,317.87	1/4	2,076.00	1/4	1,834.13	1/4	1,592.27	1/4	1,350.40		
1/2	3,281.30	1/2	3,038.43	1/2	2,796.56	1/2	2,554.70	1/2	2,312.83	1/2	2,071.96	1/2	1,829.09	1/2	1,587.23	1/2	1,345.36		
3/4	3,276.26	3/4	3,033.39	3/4	2,791.52	3/4	2,549.66	3/4	2,307.79	3/4	2,066.92	3/4	1,824.06	3/4	1,582.19	3/4	1,340.32		

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 TO TOP OF 2" HERMETIC VALVE
GAUGE POINT (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

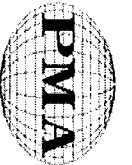
PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

http://www.pmacorp.net



BARGE "SMS 113"

3 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,336.28	0	1,093.41	0	851.55	0	610.14	0	368.31	0	126.45	0		0		0		0	
1/4	1,330.24	1/4	1,088.38	1/4	846.51	1/4	605.11	1/4	363.27	1/4	121.41	1/4		1/4		1/4		1/4	
1/2	1,325.20	1/2	1,083.34	1/2	841.47	1/2	600.08	1/2	358.23	1/2	116.37	1/2		1/2		1/2		1/2	
3/4	1,320.17	3/4	1,078.30	3/4	836.43	3/4	595.05	3/4	353.19	3/4	111.33	3/4		3/4		3/4		3/4	
1	1,315.13	1	1,073.26	1	831.39	1	590.01	1	348.15	1	106.29	1		1		1		1	
1/4	1,310.09	1/4	1,068.22	1/4	826.35	1/4	584.97	1/4	343.11	1/4	101.26	1/4		1/4		1/4		1/4	
1/2	1,305.05	1/2	1,063.18	1/2	821.31	1/2	579.93	1/2	338.07	1/2	96.22	1/2		1/2		1/2		1/2	
3/4	1,300.01	3/4	1,058.14	3/4	816.28	3/4	574.89	3/4	333.04	3/4	91.18	3/4		3/4		3/4		3/4	
2	1,294.97	2	1,053.10	2	811.24	2	569.86	2	328.00	2	86.14	2		2		2		2	
1/4	1,289.93	1/4	1,048.06	1/4	806.20	1/4	564.82	1/4	322.96	1/4	81.10	1/4		1/4		1/4		1/4	
1/2	1,284.89	1/2	1,043.03	1/2	801.16	1/2	559.78	1/2	317.92	1/2	76.07	1/2		1/2		1/2		1/2	
3/4	1,279.85	3/4	1,037.99	3/4	796.12	3/4	554.74	3/4	312.88	3/4	71.03	3/4		3/4		3/4		3/4	
3	1,274.82	3	1,032.95	3	791.09	3	549.70	3	307.84	3	66.00	3		3		3		3	
1/4	1,269.78	1/4	1,027.91	1/4	786.06	1/4	544.66	1/4	302.80	1/4	60.98	1/4		1/4		1/4		1/4	
1/2	1,264.74	1/2	1,022.87	1/2	781.03	1/2	539.62	1/2	297.77	1/2	55.95	1/2		1/2		1/2		1/2	
3/4	1,259.70	3/4	1,017.83	3/4	776.00	3/4	534.58	3/4	292.73	3/4	50.93	3/4		3/4		3/4		3/4	
4	1,254.66	4	1,012.79	4	770.97	4	529.55	4	287.69	4	45.93	4		4		4		4	
1/4	1,249.62	1/4	1,007.75	1/4	765.95	1/4	524.51	1/4	282.65	1/4	40.94	1/4		1/4		1/4		1/4	
1/2	1,244.58	1/2	1,002.71	1/2	760.92	1/2	519.47	1/2	277.61	1/2	35.94	1/2		1/2		1/2		1/2	
3/4	1,239.54	3/4	997.68	3/4	755.89	3/4	514.43	3/4	272.57	3/4	30.94	3/4		3/4		3/4		3/4	
5	1,234.50	5	992.64	5	750.87	5	509.39	5	267.53	5	26.75	5		5		5		5	
1/4	1,229.47	1/4	987.60	1/4	745.84	1/4	504.35	1/4	262.49	1/4	22.55	1/4		1/4		1/4		1/4	
1/2	1,224.43	1/2	982.56	1/2	740.82	1/2	499.31	1/2	257.46	1/2	18.35	1/2		1/2		1/2		1/2	
3/4	1,219.39	3/4	977.52	3/4	735.79	3/4	494.27	3/4	252.42	3/4	14.16	3/4		3/4		3/4		3/4	
6	1,214.35	6	972.48	6	730.77	6	489.24	6	247.38	6	11.64	6		6		6		6	
1/4	1,209.31	1/4	967.44	1/4	725.74	1/4	484.20	1/4	242.34	1/4	9.12	1/4		1/4		1/4		1/4	
1/2	1,204.27	1/2	962.40	1/2	720.71	1/2	479.16	1/2	237.30	1/2	6.60	1/2		1/2		1/2		1/2	
3/4	1,199.23	3/4	957.36	3/4	715.69	3/4	474.12	3/4	232.26	3/4	4.08	3/4		3/4		3/4		3/4	
7	1,194.19	7	952.33	7	710.66	7	469.08	7	227.22	7	3.25	7		7		7		7	
1/4	1,189.15	1/4	947.29	1/4	705.64	1/4	464.04	1/4	222.18	1/4	2.41	1/4		1/4		1/4		1/4	
1/2	1,184.12	1/2	942.25	1/2	700.61	1/2	459.00	1/2	217.15	1/2	1.57	1/2		1/2		1/2		1/2	
3/4	1,179.08	3/4	937.21	3/4	695.59	3/4	453.96	3/4	212.11	3/4	0.73	3/4		3/4		3/4		3/4	
8	1,174.04	8	932.17	8	690.56	8	448.93	8	207.07	8		8		8		8		8	
1/4	1,169.00	1/4	927.13	1/4	685.53	1/4	443.89	1/4	202.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,163.96	1/2	922.09	1/2	680.51	1/2	438.85	1/2	196.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,158.92	3/4	917.05	3/4	675.48	3/4	433.81	3/4	191.95	3/4		3/4		3/4		3/4		3/4	
9	1,153.88	9	912.01	9	670.46	9	428.77	9	186.91	9		9		9		9		9	
1/4	1,148.84	1/4	906.98	1/4	665.43	1/4	423.73	1/4	181.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,143.80	1/2	901.94	1/2	660.41	1/2	418.69	1/2	176.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,138.76	3/4	896.90	3/4	655.38	3/4	413.66	3/4	171.80	3/4		3/4		3/4		3/4		3/4	
10	1,133.73	10	891.86	10	650.35	10	408.62	10	166.76	10		10		10		10		10	
1/4	1,128.69	1/4	886.82	1/4	645.33	1/4	403.58	1/4	161.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,123.65	1/2	881.78	1/2	640.30	1/2	398.54	1/2	156.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,118.61	3/4	876.74	3/4	635.28	3/4	393.50	3/4	151.64	3/4		3/4		3/4		3/4		3/4	
11	1,113.57	11	871.70	11	630.25	11	388.46	11	146.60	11		11		11		11		11	
1/4	1,108.53	1/4	866.66	1/4	625.23	1/4	383.42	1/4	141.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,103.49	1/2	861.63	1/2	620.20	1/2	378.38	1/2	136.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,098.45	3/4	856.59	3/4	615.17	3/4	373.35	3/4	131.49	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/2019 SW
CALCULATED: 01/30/2019 CL
PRINTED: 01/30/2019 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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



BARGE: SMS 113

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 CENTER	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 CENTER	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2
3 CENTER	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

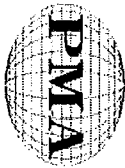
EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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 CENTER IS - 00-1/2"
FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 163'-09"

January 30, 2019



BARGE "SMS 113"

1 CENTER INNAGE TABLE

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
0	4.05	0	224.31	0	476.33	0	724.97	0	973.33	0	1,224.60	0	1,476.87	0	1,727.04	0	1,977.70	0	2,229.04
1/4	4.93	1/4	229.56	1/4	481.58	1/4	730.05	1/4	978.57	1/4	1,228.84	1/4	1,481.11	1/4	1,732.25	1/4	1,982.94	1/4	2,234.27
1/2	5.80	1/2	234.81	1/2	486.83	1/2	735.13	1/2	983.80	1/2	1,233.07	1/2	1,485.34	1/2	1,737.47	1/2	1,988.17	1/2	2,239.51
3/4	6.67	3/4	240.06	3/4	492.08	3/4	740.21	3/4	989.04	3/4	1,240.31	3/4	1,491.58	3/4	1,742.69	3/4	1,993.41	3/4	2,244.75
1	7.55	1	245.31	1	497.33	1	745.29	1	994.27	1	1,245.54	1	1,496.81	1	1,747.97	1	1,998.65	1	2,249.98
1/4	10.17	1/4	250.56	1/4	502.58	1/4	750.37	1/4	999.57	1/4	1,250.78	1/4	1,502.05	1/4	1,753.13	1/4	2,003.88	1/4	2,255.22
1/2	12.80	1/2	255.81	1/2	507.83	1/2	755.45	1/2	1,004.74	1/2	1,256.01	1/2	1,507.28	1/2	1,758.35	1/2	2,009.12	1/2	2,260.46
3/4	15.42	3/4	261.06	3/4	513.08	3/4	760.53	3/4	1,009.98	3/4	1,261.25	3/4	1,512.52	3/4	1,763.57	3/4	2,014.35	3/4	2,265.69
2	18.05	2	266.32	2	518.33	2	765.61	2	1,015.21	2	1,266.48	2	1,517.75	2	1,768.79	2	2,019.59	2	2,270.93
1/4	22.42	1/4	271.57	1/4	523.58	1/4	770.69	1/4	1,020.45	1/4	1,271.72	1/4	1,522.88	1/4	1,774.04	1/4	2,024.83	1/4	2,276.16
1/2	26.79	1/2	276.82	1/2	528.84	1/2	775.77	1/2	1,025.68	1/2	1,276.95	1/2	1,528.21	1/2	1,779.23	1/2	2,030.06	1/2	2,281.40
3/4	31.16	3/4	282.07	3/4	534.09	3/4	780.85	3/4	1,030.92	3/4	1,282.19	3/4	1,533.44	3/4	1,784.45	3/4	2,035.30	3/4	2,286.64
3	35.54	3	287.32	3	539.34	3	785.93	3	1,036.15	3	1,287.42	3	1,538.68	3	1,789.67	3	2,040.54	3	2,291.87
1/4	40.74	1/4	292.57	1/4	544.59	1/4	791.03	1/4	1,041.38	1/4	1,292.66	1/4	1,543.91	1/4	1,794.89	1/4	2,045.77	1/4	2,297.11
1/2	45.95	1/2	297.82	1/2	549.84	1/2	796.13	1/2	1,046.62	1/2	1,297.89	1/2	1,549.14	1/2	1,800.11	1/2	2,051.01	1/2	2,302.35
3/4	51.15	3/4	303.07	3/4	555.09	3/4	801.23	3/4	1,051.85	3/4	1,303.12	3/4	1,554.37	3/4	1,805.33	3/4	2,056.24	3/4	2,307.58
4	55.36	4	308.32	4	560.34	4	806.34	4	1,057.09	4	1,308.36	4	1,559.60	4	1,810.55	4	2,061.48	4	2,312.82
1/4	61.59	1/4	313.57	1/4	565.59	1/4	811.44	1/4	1,062.32	1/4	1,313.59	1/4	1,564.83	1/4	1,815.77	1/4	2,066.72	1/4	2,318.05
1/2	66.83	1/2	318.82	1/2	570.84	1/2	816.56	1/2	1,067.56	1/2	1,318.83	1/2	1,570.06	1/2	1,820.98	1/2	2,071.95	1/2	2,323.29
3/4	72.07	3/4	324.07	3/4	576.09	3/4	821.65	3/4	1,072.79	3/4	1,324.06	3/4	1,575.29	3/4	1,826.20	3/4	2,077.19	3/4	2,328.53
5	77.31	5	329.32	5	581.34	5	826.76	5	1,078.03	5	1,329.30	5	1,580.52	5	1,831.42	5	2,082.42	5	2,333.76
1/4	82.55	1/4	334.57	1/4	586.58	1/4	831.99	1/4	1,083.26	1/4	1,334.53	1/4	1,585.75	1/4	1,836.64	1/4	2,087.66	1/4	2,339.00
1/2	87.80	1/2	339.82	1/2	591.82	1/2	837.23	1/2	1,088.50	1/2	1,339.77	1/2	1,590.98	1/2	1,841.86	1/2	2,092.90	1/2	2,344.23
3/4	93.05	3/4	345.07	3/4	597.06	3/4	842.46	3/4	1,093.73	3/4	1,345.00	3/4	1,596.21	3/4	1,847.08	3/4	2,098.13	3/4	2,349.47
6	98.30	6	350.32	6	602.31	6	847.70	6	1,098.97	6	1,350.24	6	1,601.45	6	1,852.30	6	2,103.37	6	2,354.71
1/4	103.55	1/4	355.57	1/4	607.55	1/4	852.93	1/4	1,104.20	1/4	1,355.47	1/4	1,606.68	1/4	1,857.52	1/4	2,108.61	1/4	2,359.94
1/2	108.80	1/2	360.82	1/2	612.79	1/2	858.17	1/2	1,109.44	1/2	1,360.71	1/2	1,611.91	1/2	1,862.74	1/2	2,113.84	1/2	2,365.18
3/4	114.05	3/4	366.07	3/4	618.03	3/4	863.40	3/4	1,114.67	3/4	1,365.94	3/4	1,617.14	3/4	1,867.96	3/4	2,119.08	3/4	2,370.42
7	119.30	7	371.32	7	623.27	7	868.64	7	1,119.91	7	1,371.18	7	1,622.37	7	1,873.18	7	2,124.31	7	2,375.65
1/4	124.55	1/4	376.57	1/4	628.37	1/4	873.87	1/4	1,125.14	1/4	1,376.41	1/4	1,627.60	1/4	1,878.40	1/4	2,129.55	1/4	2,380.88
1/2	129.80	1/2	381.82	1/2	633.46	1/2	879.11	1/2	1,130.38	1/2	1,381.65	1/2	1,632.83	1/2	1,883.62	1/2	2,134.79	1/2	2,386.11
3/4	135.05	3/4	387.07	3/4	638.56	3/4	884.34	3/4	1,135.61	3/4	1,386.88	3/4	1,638.06	3/4	1,888.84	3/4	2,140.02	3/4	2,391.34
8	140.30	8	392.32	8	643.65	8	889.58	8	1,140.85	8	1,392.12	8	1,643.29	8	1,894.06	8	2,145.26	8	2,396.58
1/4	145.55	1/4	397.58	1/4	648.74	1/4	894.81	1/4	1,146.08	1/4	1,397.35	1/4	1,648.53	1/4	1,899.28	1/4	2,150.50	1/4	2,401.81
1/2	150.80	1/2	402.83	1/2	653.83	1/2	900.05	1/2	1,151.32	1/2	1,402.59	1/2	1,653.76	1/2	1,904.49	1/2	2,155.73	1/2	2,407.04
3/4	156.06	3/4	408.08	3/4	658.92	3/4	905.28	3/4	1,156.55	3/4	1,407.82	3/4	1,658.99	3/4	1,909.71	3/4	2,160.97	3/4	2,412.27
9	161.31	9	413.33	9	664.02	9	910.51	9	1,161.79	9	1,413.06	9	1,664.23	9	1,914.93	9	2,166.20	9	2,417.50
1/4	166.56	1/4	418.58	1/4	669.10	1/4	915.75	1/4	1,167.02	1/4	1,418.29	1/4	1,669.46	1/4	1,920.15	1/4	2,171.44	1/4	2,422.73
1/2	171.81	1/2	423.83	1/2	674.18	1/2	920.98	1/2	1,172.25	1/2	1,423.53	1/2	1,674.70	1/2	1,925.37	1/2	2,176.68	1/2	2,427.96
3/4	177.06	3/4	429.08	3/4	679.26	3/4	926.22	3/4	1,177.49	3/4	1,428.76	3/4	1,679.93	3/4	1,930.59	3/4	2,181.91	3/4	2,433.19
10	182.31	10	434.33	10	684.33	10	931.45	10	1,182.72	10	1,433.99	10	1,685.16	10	1,935.81	10	2,187.15	10	2,438.42
1/4	187.56	1/4	439.58	1/4	689.41	1/4	936.69	1/4	1,187.96	1/4	1,439.23	1/4	1,690.40	1/4	1,941.05	1/4	2,192.39	1/4	2,443.65
1/2	192.81	1/2	444.83	1/2	694.49	1/2	941.92	1/2	1,193.19	1/2	1,444.46	1/2	1,695.63	1/2	1,946.28	1/2	2,197.62	1/2	2,448.88
3/4	198.06	3/4	450.08	3/4	699.57	3/4	947.16	3/4	1,198.43	3/4	1,449.70	3/4	1,700.87	3/4	1,951.52	3/4	2,202.86	3/4	2,454.12
11	203.31	11	455.33	11	704.65	11	952.39	11	1,203.66	11	1,454.93	11	1,706.10	11	1,956.76	11	2,208.09	11	2,459.35
1/4	208.56	1/4	460.58	1/4	709.73	1/4	957.63	1/4	1,208.90	1/4	1,460.17	1/4	1,711.33	1/4	1,961.99	1/4	2,213.33	1/4	2,464.58
1/2	213.81	1/2	465.83	1/2	714.81	1/2	962.86	1/2	1,214.13	1/2	1,465.40	1/2	1,716.57	1/2	1,967.23	1/2	2,218.57	1/2	2,469.81
3/4	219.06	3/4	471.08	3/4	719.89	3/4	968.10	3/4	1,219.37	3/4	1,470.64	3/4	1,721.80	3/4	1,972.46	3/4	2,223.80	3/4	2,475.04

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MEMS 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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

http://www.pmacorp.net



BARGE "SMS 113"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,480.27	0	2,712.71	0	2,927.85	0	3,142.99	0	3,358.14	0	3,573.28	0	3,788.42	0	4,003.56	0	4,218.70	0	4,433.84
1/4	2,485.50	1/4	2,717.19	1/4	2,932.34	1/4	3,147.48	1/4	3,362.62	1/4	3,577.76	1/4	3,792.90	1/4	4,008.04	1/4	4,223.18	1/4	4,438.32
1/2	2,490.73	1/2	2,721.68	1/2	2,937.58	1/2	3,152.72	1/2	3,367.86	1/2	3,582.90	1/2	3,798.04	1/2	4,013.18	1/2	4,228.32	1/2	4,443.46
3/4	2,495.96	3/4	2,726.16	3/4	2,942.72	3/4	3,157.86	3/4	3,372.90	3/4	3,588.04	3/4	3,803.18	3/4	4,018.32	3/4	4,233.46	3/4	4,448.60
1	2,501.19	1	2,730.64	1	2,947.86	1	3,162.90	1	3,377.94	1	3,593.08	1	3,808.22	1	4,023.36	1	4,238.50	1	4,453.74
1/4	2,506.42	1/4	2,735.12	1/4	2,952.90	1/4	3,167.94	1/4	3,382.98	1/4	3,598.12	1/4	3,813.26	1/4	4,028.40	1/4	4,243.54	1/4	4,458.78
1/2	2,511.66	1/2	2,739.61	1/2	2,957.94	1/2	3,172.98	1/2	3,387.94	1/2	3,603.08	1/2	3,818.22	1/2	4,033.36	1/2	4,248.54	1/2	4,463.92
3/4	2,516.89	3/4	2,744.09	3/4	2,962.98	3/4	3,177.94	3/4	3,392.98	3/4	3,608.12	3/4	3,823.26	3/4	4,038.40	3/4	4,253.54	3/4	4,469.06
2	2,522.12	2	2,748.57	2	2,967.94	2	3,182.98	2	3,397.94	2	3,613.08	2	3,828.22	2	4,043.36	2	4,258.54	2	4,474.06
1/4	2,527.35	1/4	2,753.05	1/4	2,972.98	1/4	3,187.94	1/4	3,402.98	1/4	3,618.12	1/4	3,833.26	1/4	4,048.40	1/4	4,263.54	1/4	4,479.06
1/2	2,532.58	1/2	2,757.53	1/2	2,977.94	1/2	3,192.98	1/2	3,407.94	1/2	3,623.08	1/2	3,838.22	1/2	4,053.36	1/2	4,268.54	1/2	4,484.06
3/4	2,537.81	3/4	2,762.02	3/4	2,982.98	3/4	3,197.94	3/4	3,412.98	3/4	3,628.12	3/4	3,843.26	3/4	4,058.40	3/4	4,273.54	3/4	4,489.06
3	2,543.04	3	2,766.50	3	2,987.94	3	3,197.94	3	3,412.98	3	3,628.12	3	3,843.26	3	4,058.40	3	4,273.54	3	4,489.06
1/4	2,548.27	1/4	2,770.98	1/4	2,992.98	1/4	3,202.98	1/4	3,417.94	1/4	3,633.08	1/4	3,848.22	1/4	4,063.36	1/4	4,278.54	1/4	4,494.06
1/2	2,553.50	1/2	2,775.46	1/2	2,997.94	1/2	3,207.94	1/2	3,422.98	1/2	3,638.12	1/2	3,853.26	1/2	4,068.40	1/2	4,283.54	1/2	4,499.06
3/4	2,558.73	3/4	2,779.94	3/4	2,997.94	3/4	3,207.94	3/4	3,422.98	3/4	3,638.12	3/4	3,853.26	3/4	4,068.40	3/4	4,283.54	3/4	4,499.06
4	2,563.96	4	2,784.43	4	2,997.94	4	3,212.98	4	3,427.94	4	3,643.08	4	3,858.22	4	4,073.36	4	4,288.54	4	4,504.06
1/4	2,569.18	1/4	2,788.91	1/4	3,002.98	1/4	3,217.94	1/4	3,432.98	1/4	3,648.12	1/4	3,863.26	1/4	4,078.40	1/4	4,293.54	1/4	4,509.06
1/2	2,574.40	1/2	2,793.39	1/2	3,007.94	1/2	3,222.98	1/2	3,437.94	1/2	3,653.08	1/2	3,868.22	1/2	4,083.36	1/2	4,298.54	1/2	4,514.06
3/4	2,579.61	3/4	2,797.87	3/4	3,012.98	3/4	3,227.94	3/4	3,442.98	3/4	3,658.12	3/4	3,873.26	3/4	4,088.40	3/4	4,303.54	3/4	4,519.06
5	2,584.83	5	2,802.35	5	3,017.94	5	3,232.98	5	3,447.94	5	3,663.08	5	3,878.22	5	4,093.36	5	4,308.54	5	4,524.06
1/4	2,590.04	1/4	2,806.84	1/4	3,022.98	1/4	3,237.94	1/4	3,452.98	1/4	3,668.12	1/4	3,883.26	1/4	4,098.40	1/4	4,313.54	1/4	4,529.06
1/2	2,595.26	1/2	2,811.32	1/2	3,027.94	1/2	3,242.98	1/2	3,457.94	1/2	3,673.08	1/2	3,888.22	1/2	4,103.36	1/2	4,318.54	1/2	4,534.06
3/4	2,600.48	3/4	2,815.80	3/4	3,032.98	3/4	3,247.94	3/4	3,462.98	3/4	3,678.12	3/4	3,893.26	3/4	4,108.40	3/4	4,323.54	3/4	4,539.06
6	2,605.69	6	2,820.28	6	3,037.94	6	3,252.98	6	3,467.94	6	3,683.08	6	3,898.22	6	4,113.36	6	4,328.54	6	4,544.06
1/4	2,610.14	1/4	2,824.77	1/4	3,042.98	1/4	3,257.94	1/4	3,472.98	1/4	3,688.12	1/4	3,903.26	1/4	4,118.40	1/4	4,333.54	1/4	4,549.06
1/2	2,614.59	1/2	2,829.25	1/2	3,047.94	1/2	3,262.98	1/2	3,477.94	1/2	3,693.08	1/2	3,908.22	1/2	4,123.36	1/2	4,338.54	1/2	4,554.06
3/4	2,619.03	3/4	2,833.73	3/4	3,052.98	3/4	3,267.94	3/4	3,482.98	3/4	3,698.12	3/4	3,913.26	3/4	4,128.40	3/4	4,343.54	3/4	4,559.06
7	2,623.48	7	2,838.21	7	3,057.94	7	3,272.98	7	3,487.94	7	3,703.08	7	3,918.22	7	4,133.36	7	4,348.54	7	4,564.06
1/4	2,627.93	1/4	2,842.69	1/4	3,062.98	1/4	3,277.94	1/4	3,492.98	1/4	3,708.12	1/4	3,923.26	1/4	4,138.40	1/4	4,353.54	1/4	4,569.06
1/2	2,632.38	1/2	2,847.18	1/2	3,067.94	1/2	3,282.98	1/2	3,497.94	1/2	3,713.08	1/2	3,928.22	1/2	4,143.36	1/2	4,358.54	1/2	4,574.06
3/4	2,636.83	3/4	2,851.66	3/4	3,072.98	3/4	3,287.94	3/4	3,502.98	3/4	3,718.12	3/4	3,933.26	3/4	4,148.40	3/4	4,363.54	3/4	4,579.06
8	2,641.27	8	2,856.14	8	3,077.94	8	3,292.98	8	3,507.94	8	3,723.08	8	3,938.22	8	4,153.36	8	4,368.54	8	4,584.06
1/4	2,645.72	1/4	2,860.62	1/4	3,082.98	1/4	3,297.94	1/4	3,512.98	1/4	3,728.12	1/4	3,943.26	1/4	4,158.40	1/4	4,373.54	1/4	4,589.06
1/2	2,650.17	1/2	2,865.10	1/2	3,087.94	1/2	3,302.98	1/2	3,517.94	1/2	3,733.08	1/2	3,948.22	1/2	4,163.36	1/2	4,378.54	1/2	4,594.06
3/4	2,654.62	3/4	2,869.59	3/4	3,092.98	3/4	3,307.94	3/4	3,522.98	3/4	3,738.12	3/4	3,953.26	3/4	4,168.40	3/4	4,383.54	3/4	4,599.06
9	2,659.06	9	2,874.07	9	3,097.94	9	3,312.98	9	3,527.94	9	3,743.08	9	3,958.22	9	4,173.36	9	4,388.54	9	4,604.06
1/4	2,663.51	1/4	2,878.55	1/4	3,102.98	1/4	3,317.94	1/4	3,532.98	1/4	3,748.12	1/4	3,963.26	1/4	4,178.40	1/4	4,393.54	1/4	4,609.06
1/2	2,667.96	1/2	2,883.03	1/2	3,107.94	1/2	3,322.98	1/2	3,537.94	1/2	3,753.08	1/2	3,968.22	1/2	4,183.36	1/2	4,398.54	1/2	4,614.06
3/4	2,672.41	3/4	2,887.51	3/4	3,112.98	3/4	3,327.94	3/4	3,542.98	3/4	3,758.12	3/4	3,973.26	3/4	4,188.40	3/4	4,403.54	3/4	4,619.06
10	2,676.86	10	2,892.00	10	3,117.94	10	3,332.98	10	3,547.94	10	3,763.08	10	3,978.22	10	4,193.36	10	4,408.54	10	4,624.06
1/4	2,681.34	1/4	2,896.48	1/4	3,122.98	1/4	3,337.94	1/4	3,552.98	1/4	3,768.12	1/4	3,983.26	1/4	4,198.40	1/4	4,413.54	1/4	4,629.06
1/2	2,685.82	1/2	2,900.96	1/2	3,127.94	1/2	3,342.98	1/2	3,557.94	1/2	3,773.08	1/2	3,988.22	1/2	4,203.36	1/2	4,418.54	1/2	4,634.06
3/4	2,690.30	3/4	2,905.44	3/4	3,132.98	3/4	3,347.94	3/4	3,562.98	3/4	3,778.12	3/4	3,993.26	3/4	4,208.40	3/4	4,423.54	3/4	4,639.06
11	2,694.78	11	2,909.92	11	3,137.94	11	3,352.98	11	3,567.94	11	3,783.08	11	3,998.22	11	4,213.36	11	4,428.54	11	4,644.06
1/4	2,699.27	1/4	2,914.41	1/4	3,142.98	1/4	3,357.94	1/4	3,572.98	1/4	3,788.12	1/4	4,003.26	1/4	4,218.40	1/4	4,433.54	1/4	4,649.06
1/2	2,703.75	1/2	2,918.89	1/2	3,147.94	1/2	3,362.98	1/2	3,577.94	1/2	3,793.08	1/2	4,008.22	1/2	4,223.36	1/2	4,438.54	1/2	4,654.06
3/4	2,708.23	3/4	2,923.37	3/4	3,152.98	3/4	3,367.94	3/4	3,582.98	3/4	3,798.12	3/4	4,013.26	3/4	4,228.40	3/4	4,443.54	3/4	4,659.06

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/2019 SW
CALCULATED: 01/30/2019 CL
PRINTED: 01/30/2019 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "SMS 113"

2 CENTER INNAGE TABLE

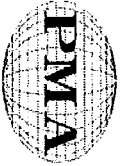
CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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
0	0.73	0	240.76	0	515.41	0	786.64	0	1,057.88	0	1,332.53	0	1,607.19	0	1,881.84	0	2,156.50	0	2,431.16
1/4	1.68	1/4	246.49	1/4	521.13	1/4	792.19	1/4	1,063.60	1/4	1,338.25	1/4	1,612.91	1/4	1,887.57	1/4	2,162.22	1/4	2,436.88
1/2	2.63	1/2	252.21	1/2	526.85	1/2	797.74	1/2	1,069.32	1/2	1,343.98	1/2	1,618.63	1/2	1,893.29	1/2	2,167.94	1/2	2,442.60
3/4	3.59	3/4	257.93	3/4	532.58	3/4	803.29	3/4	1,075.04	3/4	1,349.70	3/4	1,624.35	3/4	1,899.01	3/4	2,173.67	3/4	2,448.32
1	4.54	1	263.65	1	538.30	1	808.84	1	1,080.76	1	1,355.42	1	1,630.08	1	1,904.73	1	2,179.39	1	2,454.04
1/4	7.40	1/4	269.37	1/4	544.02	1/4	814.39	1/4	1,086.49	1/4	1,361.14	1/4	1,636.80	1/4	1,910.45	1/4	2,185.11	1/4	2,459.77
1/2	12.26	1/2	275.09	1/2	549.74	1/2	819.94	1/2	1,092.21	1/2	1,366.86	1/2	1,641.52	1/2	1,916.18	1/2	2,190.83	1/2	2,465.49
3/4	13.12	3/4	280.82	3/4	555.46	3/4	825.49	3/4	1,097.93	3/4	1,372.59	3/4	1,647.24	3/4	1,921.90	3/4	2,196.55	3/4	2,471.21
2	15.98	2	286.54	2	561.18	2	831.04	2	1,103.65	2	1,378.31	2	1,652.96	2	1,927.62	2	2,202.28	2	2,476.93
1/4	20.74	1/4	292.26	1/4	566.91	1/4	836.59	1/4	1,109.37	1/4	1,384.03	1/4	1,658.59	1/4	1,933.34	1/4	2,208.00	1/4	2,482.65
1/2	25.51	1/2	297.98	1/2	572.63	1/2	842.14	1/2	1,115.10	1/2	1,389.75	1/2	1,664.31	1/2	1,939.06	1/2	2,213.72	1/2	2,488.38
3/4	30.28	3/4	303.70	3/4	578.35	3/4	847.69	3/4	1,120.82	3/4	1,395.47	3/4	1,670.13	3/4	1,944.79	3/4	2,219.44	3/4	2,494.10
3	35.04	3	309.43	3	584.07	3	853.24	3	1,126.54	3	1,401.20	3	1,675.85	3	1,950.51	3	2,225.16	3	2,499.82
1/4	40.71	1/4	315.15	1/4	589.79	1/4	858.79	1/4	1,132.26	1/4	1,406.92	1/4	1,681.57	1/4	1,956.23	1/4	2,230.89	1/4	2,505.54
1/2	46.39	1/2	320.87	1/2	595.52	1/2	864.34	1/2	1,137.98	1/2	1,412.64	1/2	1,687.30	1/2	1,961.95	1/2	2,236.61	1/2	2,511.26
3/4	52.06	3/4	326.59	3/4	601.24	3/4	869.89	3/4	1,143.71	3/4	1,418.36	3/4	1,693.02	3/4	1,967.67	3/4	2,242.33	3/4	2,516.99
4	57.73	4	332.31	4	606.96	4	875.44	4	1,149.43	4	1,424.08	4	1,698.74	4	1,973.40	4	2,248.05	4	2,522.71
1/4	63.44	1/4	338.03	1/4	612.68	1/4	880.99	1/4	1,155.15	1/4	1,429.81	1/4	1,704.46	1/4	1,979.12	1/4	2,253.77	1/4	2,528.43
1/2	69.15	1/2	343.76	1/2	618.40	1/2	886.55	1/2	1,160.87	1/2	1,435.53	1/2	1,710.18	1/2	1,984.84	1/2	2,259.50	1/2	2,534.15
3/4	74.85	3/4	349.48	3/4	624.12	3/4	892.10	3/4	1,166.59	3/4	1,441.25	3/4	1,715.91	3/4	1,990.56	3/4	2,265.22	3/4	2,539.87
5	80.56	5	355.20	5	629.85	5	897.66	5	1,172.32	5	1,446.97	5	1,721.63	5	1,996.28	5	2,270.94	5	2,545.60
1/4	86.28	1/4	360.92	1/4	635.57	1/4	903.38	1/4	1,178.04	1/4	1,452.69	1/4	1,727.35	1/4	2,002.01	1/4	2,276.66	1/4	2,551.32
1/2	92.00	1/2	366.64	1/2	641.29	1/2	909.10	1/2	1,183.76	1/2	1,458.42	1/2	1,733.07	1/2	2,007.73	1/2	2,282.38	1/2	2,557.04
3/4	97.72	3/4	372.37	3/4	647.01	3/4	914.83	3/4	1,189.48	3/4	1,464.14	3/4	1,738.79	3/4	2,013.45	3/4	2,288.11	3/4	2,562.76
6	103.44	6	378.09	6	652.73	6	920.55	6	1,195.20	6	1,469.86	6	1,744.52	6	2,019.17	6	2,293.83	6	2,568.48
1/4	109.16	1/4	383.81	1/4	658.46	1/4	926.27	1/4	1,200.93	1/4	1,475.58	1/4	1,750.24	1/4	2,024.89	1/4	2,299.55	1/4	2,574.21
1/2	114.88	1/2	389.53	1/2	664.18	1/2	931.99	1/2	1,206.65	1/2	1,481.30	1/2	1,755.96	1/2	2,030.62	1/2	2,305.27	1/2	2,579.93
3/4	120.61	3/4	395.25	3/4	669.90	3/4	937.71	3/4	1,212.37	3/4	1,487.03	3/4	1,761.68	3/4	2,036.34	3/4	2,310.99	3/4	2,585.65
7	126.33	7	400.97	7	675.62	7	943.44	7	1,218.09	7	1,492.75	7	1,767.40	7	2,042.06	7	2,316.72	7	2,591.37
1/4	132.05	1/4	406.70	1/4	681.18	1/4	949.16	1/4	1,223.81	1/4	1,498.47	1/4	1,773.13	1/4	2,047.78	1/4	2,322.44	1/4	2,597.09
1/2	137.77	1/2	412.42	1/2	686.73	1/2	954.88	1/2	1,229.54	1/2	1,504.19	1/2	1,778.85	1/2	2,053.50	1/2	2,328.16	1/2	2,602.82
3/4	143.49	3/4	418.14	3/4	692.29	3/4	960.60	3/4	1,235.26	3/4	1,509.91	3/4	1,784.57	3/4	2,059.23	3/4	2,333.88	3/4	2,608.54
8	149.22	8	423.86	8	697.84	8	966.32	8	1,240.98	8	1,515.64	8	1,790.29	8	2,064.95	8	2,339.60	8	2,614.26
1/4	154.94	1/4	429.58	1/4	703.39	1/4	972.05	1/4	1,246.70	1/4	1,521.36	1/4	1,796.01	1/4	2,070.67	1/4	2,345.33	1/4	2,619.98
1/2	160.66	1/2	435.31	1/2	708.94	1/2	977.77	1/2	1,252.42	1/2	1,527.08	1/2	1,801.74	1/2	2,076.39	1/2	2,351.05	1/2	2,625.70
3/4	166.38	3/4	441.03	3/4	714.49	3/4	983.49	3/4	1,258.15	3/4	1,532.80	3/4	1,807.46	3/4	2,082.11	3/4	2,356.77	3/4	2,631.43
9	172.10	9	446.75	9	720.04	9	989.21	9	1,263.87	9	1,538.52	9	1,813.18	9	2,087.84	9	2,362.49	9	2,637.15
1/4	177.82	1/4	452.47	1/4	725.59	1/4	994.93	1/4	1,269.59	1/4	1,544.25	1/4	1,818.90	1/4	2,093.56	1/4	2,368.21	1/4	2,642.87
1/2	183.55	1/2	458.19	1/2	731.14	1/2	1,000.66	1/2	1,275.31	1/2	1,549.97	1/2	1,824.62	1/2	2,099.28	1/2	2,373.94	1/2	2,648.59
3/4	189.27	3/4	463.91	3/4	736.69	3/4	1,006.38	3/4	1,281.03	3/4	1,555.69	3/4	1,830.35	3/4	2,105.00	3/4	2,379.66	3/4	2,654.31
10	194.99	10	469.64	10	742.24	10	1,012.10	10	1,286.76	10	1,561.41	10	1,836.07	10	2,110.72	10	2,385.38	10	2,660.04
1/4	200.71	1/4	475.36	1/4	747.79	1/4	1,017.82	1/4	1,292.48	1/4	1,567.13	1/4	1,841.79	1/4	2,116.45	1/4	2,391.10	1/4	2,665.76
1/2	206.43	1/2	481.08	1/2	753.34	1/2	1,023.54	1/2	1,298.20	1/2	1,572.86	1/2	1,847.51	1/2	2,122.17	1/2	2,396.82	1/2	2,671.48
3/4	212.16	3/4	486.80	3/4	758.89	3/4	1,029.27	3/4	1,303.92	3/4	1,578.58	3/4	1,853.23	3/4	2,127.89	3/4	2,402.55	3/4	2,677.20
11	217.88	11	492.52	11	764.44	11	1,034.99	11	1,309.64	11	1,584.30	11	1,858.96	11	2,133.61	11	2,408.27	11	2,682.92
1/4	223.60	1/4	498.25	1/4	769.99	1/4	1,040.71	1/4	1,315.37	1/4	1,590.02	1/4	1,864.68	1/4	2,139.33	1/4	2,413.99	1/4	2,688.65
1/2	229.32	1/2	503.97	1/2	775.54	1/2	1,046.43	1/2	1,321.09	1/2	1,595.74	1/2	1,870.40	1/2	2,145.06	1/2	2,419.71	1/2	2,694.37
3/4	235.04	3/4	509.69	3/4	781.09	3/4	1,052.15	3/4	1,326.81	3/4	1,601.47	3/4	1,876.12	3/4	2,150.78	3/4	2,425.43	3/4	2,700.09

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPLETED IN ACCORDANCE WITH MEMS 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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD

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



BARGE "SMS 113"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,705.81	0	2,980.47	0	3,255.12	0	3,529.78	0	3,804.44	0		0		0		0		0	
1/4	2,711.53	1/4	2,986.19	1/4	3,260.85	1/4	3,535.50	1/4	3,810.16	1/4		1/4		1/4		1/4		1/4	
1/2	2,717.26	1/2	2,991.91	1/2	3,266.57	1/2	3,541.22	1/2	3,815.88	1/2		1/2		1/2		1/2		1/2	
3/4	2,722.98	3/4	2,997.63	3/4	3,272.29	3/4	3,546.95	3/4	3,821.60	3/4		3/4		3/4		3/4		3/4	
1	2,728.70	1	3,003.36	1	3,278.01	1	3,552.67	1	3,827.32	1		1		1		1		1	
1 1/4	2,734.42	1 1/4	3,009.08	1 1/4	3,283.73	1 1/4	3,558.39	1 1/4	3,833.05	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,740.14	1 1/2	3,014.80	1 1/2	3,289.46	1 1/2	3,564.11	1 1/2	3,838.77	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,745.87	1 3/4	3,020.52	1 3/4	3,295.18	1 3/4	3,569.83	1 3/4	3,844.49	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
2	2,751.59	2	3,026.24	2	3,300.90	2	3,575.56	2	3,850.21	2		2		2		2		2	
1/4	2,757.31	1/4	3,031.97	1/4	3,306.62	1/4	3,581.28	1/4	3,855.94	1/4		1/4		1/4		1/4		1/4	
1/2	2,763.03	1/2	3,037.69	1/2	3,312.34	1/2	3,587.00	1/2	3,861.67	1/2		1/2		1/2		1/2		1/2	
3/4	2,768.75	3/4	3,043.41	3/4	3,318.07	3/4	3,592.72	3/4	3,867.39	3/4		3/4		3/4		3/4		3/4	
3	2,774.48	3	3,049.13	3	3,323.79	3	3,598.44	3	3,873.12	3		3		3		3		3	
1/4	2,780.20	1/4	3,054.85	1/4	3,329.51	1/4	3,604.17	1/4	3,878.83	1/4		1/4		1/4		1/4		1/4	
1/2	2,785.92	1/2	3,060.58	1/2	3,335.23	1/2	3,609.89	1/2	3,884.53	1/2		1/2		1/2		1/2		1/2	
3/4	2,791.64	3/4	3,066.30	3/4	3,340.95	3/4	3,615.61	3/4	3,890.24	3/4		3/4		3/4		3/4		3/4	
4	2,797.36	4	3,072.02	4	3,346.68	4	3,621.33	4	3,895.95	4		4		4		4		4	
1/4	2,803.09	1/4	3,077.74	1/4	3,352.40	1/4	3,627.05	1/4	3,901.62	1/4		1/4		1/4		1/4		1/4	
1/2	2,808.81	1/2	3,083.46	1/2	3,358.12	1/2	3,632.78	1/2	3,907.29	1/2		1/2		1/2		1/2		1/2	
3/4	2,814.53	3/4	3,089.19	3/4	3,363.84	3/4	3,638.50	3/4	3,912.97	3/4		3/4		3/4		3/4		3/4	
5	2,820.25	5	3,094.91	5	3,369.56	5	3,644.22	5	3,918.64	5		5		5		5		5	
1/4	2,825.97	1/4	3,100.63	1/4	3,375.29	1/4	3,649.94	1/4	3,923.41	1/4		1/4		1/4		1/4		1/4	
1/2	2,831.70	1/2	3,106.35	1/2	3,381.01	1/2	3,655.66	1/2	3,929.17	1/2		1/2		1/2		1/2		1/2	
3/4	2,837.42	3/4	3,112.07	3/4	3,386.73	3/4	3,661.39	3/4	3,934.94	3/4		3/4		3/4		3/4		3/4	
6	2,843.14	6	3,117.80	6	3,392.45	6	3,667.11	6	3,937.70	6		6		6		6		6	
1/4	2,848.86	1/4	3,123.52	1/4	3,398.17	1/4	3,672.83	1/4	3,940.56	1/4		1/4		1/4		1/4		1/4	
1/2	2,854.58	1/2	3,129.24	1/2	3,403.90	1/2	3,678.55	1/2	3,943.42	1/2		1/2		1/2		1/2		1/2	
3/4	2,860.31	3/4	3,134.96	3/4	3,409.62	3/4	3,684.27	3/4	3,946.28	3/4		3/4		3/4		3/4		3/4	
7	2,866.03	7	3,140.68	7	3,415.34	7	3,690.00	7	3,949.14	7		7		7		7		7	
1/4	2,871.75	1/4	3,146.41	1/4	3,421.06	1/4	3,695.72	1/4	3,950.10	1/4		1/4		1/4		1/4		1/4	
1/2	2,877.47	1/2	3,152.13	1/2	3,426.78	1/2	3,701.44	1/2	3,951.05	1/2		1/2		1/2		1/2		1/2	
3/4	2,883.19	3/4	3,157.85	3/4	3,432.51	3/4	3,707.16	3/4	3,952.00	3/4		3/4		3/4		3/4		3/4	
8	2,888.92	8	3,163.57	8	3,438.23	8	3,712.88	8	3,952.95	8		8		8		8		8	
1/4	2,894.64	1/4	3,169.29	1/4	3,443.95	1/4	3,718.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,900.36	1/2	3,175.02	1/2	3,449.67	1/2	3,724.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,906.08	3/4	3,180.74	3/4	3,455.39	3/4	3,730.05	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,911.80	9	3,186.46	9	3,461.12	9	3,735.77	9		9		9		9		9		9	
1/4	2,917.53	1/4	3,192.18	1/4	3,466.84	1/4	3,741.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,923.25	1/2	3,197.90	1/2	3,472.56	1/2	3,747.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,928.97	3/4	3,203.63	3/4	3,478.28	3/4	3,752.94	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,934.69	10	3,209.35	10	3,484.00	10	3,758.66	10		10		10		10		10		10	
1/4	2,940.41	1/4	3,215.07	1/4	3,489.73	1/4	3,764.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,946.14	1/2	3,220.79	1/2	3,495.45	1/2	3,770.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,951.86	3/4	3,226.51	3/4	3,501.17	3/4	3,775.83	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,957.58	11	3,232.24	11	3,506.89	11	3,781.55	11		11		11		11		11		11	
1/4	2,963.30	1/4	3,237.96	1/4	3,512.61	1/4	3,787.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,969.02	1/2	3,243.68	1/2	3,518.34	1/2	3,792.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,974.75	3/4	3,249.40	3/4	3,524.06	3/4	3,798.71	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/2019 SW
CALCULATED: 01/30/2019 CL
PRINTED: 01/30/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "SMS 113"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.73	0	212.11	0	453.97	0	696.59	0	937.21	0	1179.08	0	1420.94	0	1662.81	0	1904.68	0	2146.55
1/4	1.57	1/4	217.15	1/4	459.00	1/4	705.61	1/4	942.25	1/4	1,184.12	1/4	1,425.98	1/4	1,667.85	1/4	1,909.72	1/4	2,151.58
1/2	2.41	1/2	222.18	1/2	464.04	1/2	710.66	1/2	947.28	1/2	1,189.15	1/2	1,431.02	1/2	1,672.89	1/2	1,914.76	1/2	2,156.62
3/4	3.25	3/4	227.22	3/4	469.08	3/4	715.69	3/4	952.33	3/4	1,194.19	3/4	1,436.06	3/4	1,677.93	3/4	1,919.79	3/4	2,161.66
1	4.08	1	232.26	1	474.12	1	720.71	1	957.36	1	1,199.23	1	1,441.10	1	1,682.97	1	1,924.83	1	2,166.70
1/4	6.00	1/4	237.30	1/4	479.16	1/4	725.74	1/4	962.40	1/4	1,204.27	1/4	1,446.14	1/4	1,688.01	1/4	1,929.87	1/4	2,171.74
1/2	9.12	1/2	242.34	1/2	484.20	1/2	730.77	1/2	967.44	1/2	1,209.31	1/2	1,451.18	1/2	1,693.04	1/2	1,934.91	1/2	2,176.78
3/4	11.64	3/4	247.38	3/4	489.24	3/4	735.79	3/4	972.48	3/4	1,214.35	3/4	1,456.22	3/4	1,698.08	3/4	1,939.95	3/4	2,181.82
2	14.16	2	252.42	2	494.27	2	740.82	2	977.52	2	1,219.39	2	1,461.25	2	1,703.12	2	1,944.99	2	2,186.86
1/4	18.35	1/4	257.46	1/4	499.31	1/4	745.84	1/4	982.56	1/4	1,224.43	1/4	1,466.29	1/4	1,708.16	1/4	1,950.03	1/4	2,191.90
1/2	22.55	1/2	262.49	1/2	504.35	1/2	750.87	1/2	987.60	1/2	1,229.47	1/2	1,471.33	1/2	1,713.20	1/2	1,955.07	1/2	2,196.93
3/4	26.75	3/4	267.53	3/4	509.39	3/4	755.89	3/4	992.64	3/4	1,234.50	3/4	1,476.37	3/4	1,718.24	3/4	1,960.11	3/4	2,201.97
3	30.95	3	272.57	3	514.43	3	760.92	3	997.68	3	1,239.54	3	1,481.41	3	1,723.28	3	1,965.14	3	2,207.01
1/4	35.94	1/4	277.61	1/4	519.47	1/4	765.95	1/4	1,002.71	1/4	1,244.58	1/4	1,486.45	1/4	1,728.32	1/4	1,970.18	1/4	2,212.05
1/2	40.94	1/2	282.65	1/2	524.51	1/2	770.97	1/2	1,007.75	1/2	1,249.62	1/2	1,491.49	1/2	1,733.36	1/2	1,975.22	1/2	2,217.09
3/4	45.93	3/4	287.69	3/4	529.55	3/4	776.00	3/4	1,012.79	3/4	1,254.66	3/4	1,496.53	3/4	1,738.39	3/4	1,980.26	3/4	2,222.13
4	50.93	4	292.73	4	534.58	4	781.03	4	1,017.83	4	1,259.70	4	1,501.57	4	1,743.43	4	1,985.30	4	2,227.17
1/4	55.95	1/4	297.77	1/4	539.62	1/4	786.06	1/4	1,022.87	1/4	1,264.74	1/4	1,506.60	1/4	1,748.47	1/4	1,990.34	1/4	2,232.21
1/2	60.98	1/2	302.80	1/2	544.66	1/2	791.09	1/2	1,027.91	1/2	1,269.78	1/2	1,511.64	1/2	1,753.51	1/2	1,995.38	1/2	2,237.25
3/4	66.00	3/4	307.84	3/4	549.70	3/4	796.12	3/4	1,032.95	3/4	1,274.82	3/4	1,516.68	3/4	1,758.55	3/4	1,999.42	3/4	2,242.28
5	71.03	5	312.88	5	554.74	5	796.12	5	1,037.99	5	1,279.85	5	1,521.72	5	1,763.59	5	2,005.46	5	2,247.32
1/4	76.07	1/4	317.92	1/4	559.78	1/4	801.16	1/4	1,043.03	1/4	1,284.89	1/4	1,526.76	1/4	1,768.63	1/4	2,010.49	1/4	2,252.36
1/2	81.10	1/2	322.96	1/2	564.82	1/2	806.20	1/2	1,048.06	1/2	1,289.93	1/2	1,531.80	1/2	1,773.67	1/2	2,015.53	1/2	2,257.40
3/4	86.14	3/4	328.00	3/4	569.86	3/4	811.24	3/4	1,053.10	3/4	1,294.97	3/4	1,536.84	3/4	1,778.71	3/4	2,020.57	3/4	2,262.44
6	91.18	6	333.04	6	574.89	6	816.28	6	1,058.14	6	1,300.01	6	1,541.88	6	1,783.74	6	2,025.61	6	2,267.48
1/4	96.22	1/4	338.07	1/4	579.93	1/4	821.31	1/4	1,063.18	1/4	1,305.05	1/4	1,546.92	1/4	1,788.78	1/4	2,030.65	1/4	2,272.52
1/2	101.26	1/2	343.11	1/2	584.97	1/2	826.35	1/2	1,068.22	1/2	1,310.09	1/2	1,551.95	1/2	1,793.82	1/2	2,035.69	1/2	2,277.56
3/4	106.29	3/4	348.15	3/4	590.01	3/4	831.39	3/4	1,073.26	3/4	1,315.13	3/4	1,556.99	3/4	1,798.86	3/4	2,040.73	3/4	2,282.60
7	111.33	7	353.19	7	595.05	7	836.43	7	1,078.30	7	1,320.17	7	1,562.03	7	1,803.90	7	2,045.77	7	2,287.63
1/4	116.37	1/4	358.23	1/4	600.08	1/4	841.47	1/4	1,083.34	1/4	1,325.20	1/4	1,567.07	1/4	1,808.94	1/4	2,050.81	1/4	2,292.67
1/2	121.41	1/2	363.27	1/2	605.11	1/2	846.51	1/2	1,088.38	1/2	1,330.24	1/2	1,572.11	1/2	1,813.98	1/2	2,055.84	1/2	2,297.71
3/4	126.45	3/4	368.31	3/4	610.14	3/4	851.55	3/4	1,093.41	3/4	1,335.28	3/4	1,577.15	3/4	1,818.02	3/4	2,060.88	3/4	2,302.75
8	131.49	8	373.35	8	615.17	8	856.59	8	1,098.45	8	1,340.32	8	1,582.19	8	1,824.06	8	2,065.92	8	2,307.79
1/4	136.53	1/4	378.38	1/4	620.20	1/4	861.63	1/4	1,103.49	1/4	1,345.36	1/4	1,587.23	1/4	1,829.09	1/4	2,070.96	1/4	2,312.83
1/2	141.57	1/2	383.42	1/2	625.23	1/2	866.66	1/2	1,108.53	1/2	1,350.40	1/2	1,592.27	1/2	1,834.13	1/2	2,076.00	1/2	2,317.87
3/4	146.60	3/4	388.46	3/4	630.25	3/4	871.70	3/4	1,113.57	3/4	1,355.44	3/4	1,597.30	3/4	1,839.17	3/4	2,081.04	3/4	2,322.91
9	151.64	9	393.50	9	635.28	9	876.74	9	1,118.61	9	1,360.48	9	1,602.34	9	1,844.21	9	2,086.08	9	2,327.95
1/4	156.68	1/4	398.54	1/4	640.30	1/4	881.78	1/4	1,123.65	1/4	1,365.52	1/4	1,607.38	1/4	1,849.25	1/4	2,091.12	1/4	2,332.98
1/2	161.72	1/2	403.58	1/2	645.33	1/2	886.82	1/2	1,128.69	1/2	1,370.55	1/2	1,612.42	1/2	1,854.29	1/2	2,096.16	1/2	2,338.02
3/4	166.76	3/4	408.62	3/4	650.35	3/4	891.86	3/4	1,133.73	3/4	1,375.59	3/4	1,617.46	3/4	1,859.33	3/4	2,101.19	3/4	2,343.06
10	171.80	10	413.66	10	655.38	10	896.90	10	1,138.77	10	1,380.63	10	1,622.50	10	1,864.37	10	2,106.23	10	2,348.10
1/4	176.84	1/4	418.69	1/4	660.41	1/4	901.94	1/4	1,143.80	1/4	1,385.67	1/4	1,627.54	1/4	1,869.41	1/4	2,111.27	1/4	2,353.14
1/2	181.88	1/2	423.73	1/2	665.43	1/2	906.98	1/2	1,148.84	1/2	1,390.71	1/2	1,632.58	1/2	1,874.44	1/2	2,116.31	1/2	2,358.18
3/4	186.91	3/4	428.77	3/4	670.46	3/4	912.01	3/4	1,153.88	3/4	1,395.75	3/4	1,637.62	3/4	1,879.48	3/4	2,121.35	3/4	2,363.22
11	191.95	11	433.81	11	675.48	11	917.05	11	1,158.92	11	1,400.79	11	1,642.66	11	1,884.52	11	2,126.39	11	2,368.26
1/4	196.99	1/4	438.85	1/4	680.51	1/4	922.09	1/4	1,163.96	1/4	1,405.83	1/4	1,647.69	1/4	1,889.56	1/4	2,131.43	1/4	2,373.30
1/2	202.03	1/2	443.89	1/2	685.53	1/2	927.13	1/2	1,168.00	1/2	1,410.87	1/2	1,652.73	1/2	1,894.60	1/2	2,136.47	1/2	2,378.33
3/4	207.07	3/4	448.93	3/4	690.56	3/4	932.17	3/4	1,173.04	3/4	1,415.90	3/4	1,657.77	3/4	1,899.64	3/4	2,141.51	3/4	2,383.37

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

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



BARGE "SMS 113"

3 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,386.41	0	2,630.28	0	2,872.15	0	3,114.01	0	3,355.88	0		0		0		0		0	
1/4	2,393.45	1/4	2,635.32	1/4	2,877.19	1/4	3,119.05	1/4	3,360.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,398.49	1/2	2,640.36	1/2	2,882.22	1/2	3,124.09	1/2	3,365.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,403.53	3/4	2,645.40	3/4	2,887.26	3/4	3,129.13	3/4	3,371.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,408.57	1	2,650.44	1	2,892.30	1	3,134.17	1	3,376.04	1	1	1	1	1	1	1	1	1	1
1/4	2,413.61	1/4	2,655.47	1/4	2,897.34	1/4	3,139.21	1/4	3,381.08	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,418.65	1/2	2,660.51	1/2	2,902.38	1/2	3,144.25	1/2	3,386.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,423.68	3/4	2,665.55	3/4	2,907.42	3/4	3,149.29	3/4	3,391.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,428.72	2	2,670.59	2	2,912.46	2	3,154.33	2	3,396.19	2	2	2	2	2	2	2	2	2	2
1/4	2,433.76	1/4	2,675.63	1/4	2,917.50	1/4	3,159.36	1/4	3,401.24	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,438.80	1/2	2,680.67	1/2	2,922.54	1/2	3,164.40	1/2	3,406.29	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,443.84	3/4	2,685.71	3/4	2,927.57	3/4	3,169.44	3/4	3,411.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,448.88	3	2,690.75	3	2,932.61	3	3,174.48	3	3,416.38	3	3	3	3	3	3	3	3	3	3
1/4	2,453.92	1/4	2,695.79	1/4	2,937.65	1/4	3,179.52	1/4	3,421.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,458.96	1/2	2,700.82	1/2	2,942.69	1/2	3,184.56	1/2	3,426.44	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,463.99	3/4	2,705.86	3/4	2,947.73	3/4	3,189.60	3/4	3,431.46	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	2,469.03	4	2,710.90	4	2,952.77	4	3,194.64	4	3,436.49	4	4	4	4	4	4	4	4	4	4
1/4	2,474.07	1/4	2,715.94	1/4	2,957.81	1/4	3,199.68	1/4	3,441.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,479.11	1/2	2,720.98	1/2	2,962.85	1/2	3,204.71	1/2	3,446.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,484.15	3/4	2,726.02	3/4	2,967.89	3/4	3,209.75	3/4	3,451.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	2,489.19	5	2,731.06	5	2,972.92	5	3,214.79	5	3,456.47	5	5	5	5	5	5	5	5	5	5
1/4	2,494.23	1/4	2,736.10	1/4	2,977.96	1/4	3,219.83	1/4	3,460.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,499.27	1/2	2,741.14	1/2	2,983.00	1/2	3,224.87	1/2	3,465.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,504.31	3/4	2,746.17	3/4	2,988.04	3/4	3,229.91	3/4	3,470.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	2,509.35	6	2,751.21	6	2,993.08	6	3,234.95	6	3,475.78	6	6	6	6	6	6	6	6	6	6
1/4	2,514.38	1/4	2,756.25	1/4	2,998.12	1/4	3,239.99	1/4	3,480.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,519.42	1/2	2,761.29	1/2	3,003.16	1/2	3,245.03	1/2	3,485.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,524.46	3/4	2,766.33	3/4	3,008.20	3/4	3,250.06	3/4	3,490.89	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	2,529.50	7	2,771.37	7	3,013.24	7	3,255.10	7	3,495.91	7	7	7	7	7	7	7	7	7	7
1/4	2,534.54	1/4	2,776.41	1/4	3,018.27	1/4	3,260.14	1/4	3,500.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,539.58	1/2	2,781.45	1/2	3,023.31	1/2	3,265.18	1/2	3,505.97	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,544.62	3/4	2,786.49	3/4	3,028.35	3/4	3,270.22	3/4	3,510.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	2,549.66	8	2,791.52	8	3,033.39	8	3,275.26	8	3,515.99	8	8	8	8	8	8	8	8	8	8
1/4	2,554.70	1/4	2,796.56	1/4	3,038.43	1/4	3,280.30	1/4	3,520.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,559.73	1/2	2,801.60	1/2	3,043.47	1/2	3,285.34	1/2	3,525.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,564.77	3/4	2,806.64	3/4	3,048.51	3/4	3,290.38	3/4	3,530.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	2,569.81	9	2,811.68	9	3,053.55	9	3,295.41	9	3,535.99	9	9	9	9	9	9	9	9	9	9
1/4	2,574.85	1/4	2,816.72	1/4	3,058.59	1/4	3,300.45	1/4	3,540.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,579.89	1/2	2,821.76	1/2	3,063.62	1/2	3,305.49	1/2	3,545.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,584.93	3/4	2,826.80	3/4	3,068.66	3/4	3,310.53	3/4	3,550.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	2,589.97	10	2,831.84	10	3,073.70	10	3,315.57	10	3,555.99	10	10	10	10	10	10	10	10	10	10
1/4	2,595.01	1/4	2,836.87	1/4	3,078.74	1/4	3,320.61	1/4	3,560.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,600.05	1/2	2,841.91	1/2	3,083.78	1/2	3,325.65	1/2	3,565.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,605.08	3/4	2,846.95	3/4	3,088.82	3/4	3,330.69	3/4	3,570.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	2,610.12	11	2,851.99	11	3,093.86	11	3,335.73	11	3,575.99	11	11	11	11	11	11	11	11	11	11
1/4	2,615.16	1/4	2,857.03	1/4	3,098.90	1/4	3,340.76	1/4	3,580.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,620.20	1/2	2,862.07	1/2	3,103.94	1/2	3,345.80	1/2	3,585.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,625.24	3/4	2,867.11	3/4	3,108.97	3/4	3,350.84	3/4	3,590.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/2019 SW
CALCULATED: 01/30/2019 CL
PRINTED: 01/30/2019 CL

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ALL PRIOR TO 01/2019

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