



BARGE "MOC 19"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/8	- 00-1/8	00-1/8	- 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
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	00-3/8	- 00-3/8
2 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
2 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
3 PORT	- 00-5/8	00-5/8	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-7/8	02-7/8	- 03-1/2	03-1/2
3 STBD	- 00-5/8	00-5/8	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-7/8	02-7/8	- 03-1/2	03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 253'-09"

January 3, 2013

PRECISION MEASUREMENT
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 P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "MOC 19"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																		GAUGE HEIGHT 15'-09"	
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	27.27	0	364.39	0	725.61	0	1,087.86	0	1,450.43	0	1,812.79	0	2,175.43	0	2,538.08	0	2,900.61	0	3,263.12
1/4	31.96	1/4	371.74	1/4	733.16	1/4	1,095.40	1/4	1,457.99	1/4	1,820.34	1/4	2,182.99	1/4	2,545.63	1/4	2,908.16	1/4	3,270.67
1/2	36.65	1/2	379.09	1/2	740.72	1/2	1,102.95	1/2	1,465.54	1/2	1,827.90	1/2	2,190.54	1/2	2,553.19	1/2	2,915.72	1/2	3,278.23
3/4	41.34	3/4	386.44	3/4	748.27	3/4	1,110.49	3/4	1,473.09	3/4	1,835.45	3/4	2,198.10	3/4	2,560.74	3/4	2,923.27	3/4	3,285.78
1	46.03	1	393.79	1	755.83	1	1,118.03	1	1,480.64	1	1,843.01	1	2,205.65	1	2,568.30	1	2,930.82	1	3,293.33
1 1/4	51.98	1 1/4	401.19	1 1/4	763.38	1 1/4	1,125.58	1 1/4	1,488.18	1 1/4	1,850.56	1 1/4	2,213.21	1 1/4	2,575.85	1 1/4	2,938.37	1 1/4	3,300.88
1 1/2	57.93	1 1/2	408.59	1 1/2	770.94	1 1/2	1,133.13	1 1/2	1,495.71	1 1/2	1,858.12	1 1/2	2,220.76	1 1/2	2,583.41	1 1/2	2,945.92	1 1/2	3,308.43
3/4	63.88	3/4	415.99	3/4	778.49	3/4	1,140.67	3/4	1,503.25	3/4	1,865.67	3/4	2,228.32	3/4	2,590.96	3/4	2,953.48	3/4	3,315.99
2	69.83	2	423.39	2	786.05	2	1,148.22	2	1,510.79	2	1,873.23	2	2,235.87	2	2,598.52	2	2,961.03	2	3,323.54
2 1/4	76.87	2 1/4	430.94	2 1/4	793.60	2 1/4	1,155.77	2 1/4	1,518.32	2 1/4	1,880.78	2 1/4	2,243.43	2 1/4	2,606.07	2 1/4	2,968.58	2 1/4	3,331.09
2 1/2	83.91	2 1/2	438.50	2 1/2	801.16	2 1/2	1,163.33	2 1/2	1,525.86	2 1/2	1,888.34	2 1/2	2,250.98	2 1/2	2,613.62	2 1/2	2,976.13	2 1/2	3,338.64
3/4	90.95	3/4	446.06	3/4	808.71	3/4	1,170.88	3/4	1,533.40	3/4	1,895.89	3/4	2,258.54	3/4	2,621.18	3/4	2,983.69	3/4	3,346.20
3	97.99	3	453.61	3	816.27	3	1,178.44	3	1,540.93	3	1,903.45	3	2,266.09	3	2,628.73	3	2,991.24	3	3,353.75
3 1/4	105.49	3 1/4	461.17	3 1/4	823.82	3 1/4	1,186.00	3 1/4	1,548.47	3 1/4	1,911.00	3 1/4	2,273.65	3 1/4	2,636.28	3 1/4	2,998.79	3 1/4	3,361.30
3 1/2	112.98	3 1/2	468.72	3 1/2	831.37	3 1/2	1,193.55	3 1/2	1,556.01	3 1/2	1,918.56	3 1/2	2,281.20	3 1/2	2,643.83	3 1/2	3,006.34	3 1/2	3,368.85
3/4	120.48	3/4	476.28	3/4	838.93	3/4	1,201.11	3/4	1,563.54	3/4	1,926.11	3/4	2,288.76	3/4	2,651.38	3/4	3,013.90	3/4	3,376.41
4	127.97	4	483.83	4	846.48	4	1,208.66	4	1,571.08	4	1,933.67	4	2,296.31	4	2,658.94	4	3,021.45	4	3,383.96
4 1/4	135.49	4 1/4	491.39	4 1/4	854.02	4 1/4	1,216.22	4 1/4	1,578.62	4 1/4	1,941.22	4 1/4	2,303.87	4 1/4	2,666.49	4 1/4	3,029.00	4 1/4	3,391.51
4 1/2	143.01	4 1/2	498.94	4 1/2	861.56	4 1/2	1,223.77	4 1/2	1,586.16	4 1/2	1,948.78	4 1/2	2,311.42	4 1/2	2,674.04	4 1/2	3,036.55	4 1/2	3,399.06
3/4	150.53	3/4	506.50	3/4	869.11	3/4	1,231.33	3/4	1,593.70	3/4	1,956.33	3/4	2,318.98	3/4	2,681.59	3/4	3,044.10	3/4	3,406.61
5	158.05	5	514.06	5	876.65	5	1,238.88	5	1,601.24	5	1,963.89	5	2,326.53	5	2,689.15	5	3,051.66	5	3,414.17
5 1/4	165.54	5 1/4	521.61	5 1/4	884.19	5 1/4	1,246.44	5 1/4	1,608.80	5 1/4	1,971.44	5 1/4	2,334.09	5 1/4	2,696.70	5 1/4	3,059.21	5 1/4	3,421.72
5 1/2	173.03	5 1/2	529.17	5 1/2	891.74	5 1/2	1,253.99	5 1/2	1,616.35	5 1/2	1,979.00	5 1/2	2,341.64	5 1/2	2,704.25	5 1/2	3,066.76	5 1/2	3,429.27
3/4	180.52	3/4	536.72	3/4	899.28	3/4	1,261.55	3/4	1,623.91	3/4	1,986.55	3/4	2,349.20	3/4	2,711.80	3/4	3,074.31	3/4	3,436.82
6	188.01	6	544.28	6	906.82	6	1,269.10	6	1,631.46	6	1,994.11	6	2,356.75	6	2,719.36	6	3,081.87	6	3,444.38
6 1/4	195.36	6 1/4	551.83	6 1/4	914.37	6 1/4	1,276.66	6 1/4	1,639.02	6 1/4	2,001.66	6 1/4	2,364.31	6 1/4	2,726.91	6 1/4	3,089.42	6 1/4	3,451.93
6 1/2	202.71	6 1/2	559.39	6 1/2	921.91	6 1/2	1,284.22	6 1/2	1,646.57	6 1/2	2,009.22	6 1/2	2,371.86	6 1/2	2,734.46	6 1/2	3,096.97	6 1/2	3,459.48
3/4	210.06	3/4	566.95	3/4	929.45	3/4	1,291.77	3/4	1,654.13	3/4	2,016.77	3/4	2,379.42	3/4	2,742.01	3/4	3,104.52	3/4	3,467.03
7	217.41	7	574.50	7	937.00	7	1,299.33	7	1,661.68	7	2,024.33	7	2,386.97	7	2,749.56	7	3,112.08	7	3,474.59
7 1/4	224.76	7 1/4	582.06	7 1/4	944.54	7 1/4	1,306.88	7 1/4	1,669.24	7 1/4	2,031.88	7 1/4	2,394.53	7 1/4	2,757.12	7 1/4	3,119.63	7 1/4	3,482.14
7 1/2	232.11	7 1/2	589.61	7 1/2	952.08	7 1/2	1,314.44	7 1/2	1,676.79	7 1/2	2,039.44	7 1/2	2,402.08	7 1/2	2,764.67	7 1/2	3,127.18	7 1/2	3,489.69
3/4	239.46	3/4	597.17	3/4	959.63	3/4	1,321.99	3/4	1,684.35	3/4	2,046.99	3/4	2,409.64	3/4	2,772.22	3/4	3,134.73	3/4	3,497.24
8	246.81	8	604.72	8	967.17	8	1,329.55	8	1,691.90	8	2,054.55	8	2,417.19	8	2,779.77	8	3,142.28	8	3,504.79
8 1/4	254.15	8 1/4	612.28	8 1/4	974.71	8 1/4	1,337.10	8 1/4	1,699.46	8 1/4	2,062.10	8 1/4	2,424.75	8 1/4	2,787.33	8 1/4	3,149.84	8 1/4	3,512.35
8 1/2	261.50	8 1/2	619.84	8 1/2	982.26	8 1/2	1,344.66	8 1/2	1,707.01	8 1/2	2,069.66	8 1/2	2,432.30	8 1/2	2,794.88	8 1/2	3,157.39	8 1/2	3,519.90
3/4	268.85	3/4	627.39	3/4	989.80	3/4	1,352.21	3/4	1,714.57	3/4	2,077.21	3/4	2,439.86	3/4	2,802.43	3/4	3,164.94	3/4	3,527.45
9	276.20	9	634.95	9	997.34	9	1,359.77	9	1,722.13	9	2,084.77	9	2,447.41	9	2,809.98	9	3,172.49	9	3,535.00
9 1/4	283.55	9 1/4	642.50	9 1/4	1,004.89	9 1/4	1,367.32	9 1/4	1,729.68	9 1/4	2,092.33	9 1/4	2,454.97	9 1/4	2,817.54	9 1/4	3,180.05	9 1/4	3,542.56
9 1/2	290.90	9 1/2	650.06	9 1/2	1,012.43	9 1/2	1,374.88	9 1/2	1,737.24	9 1/2	2,099.88	9 1/2	2,462.52	9 1/2	2,825.09	9 1/2	3,187.60	9 1/2	3,550.11
3/4	298.25	3/4	657.61	3/4	1,019.97	3/4	1,382.44	3/4	1,744.79	3/4	2,107.44	3/4	2,470.08	3/4	2,832.64	3/4	3,195.15	3/4	3,557.66
10	305.60	10	665.17	10	1,027.52	10	1,389.99	10	1,752.35	10	2,114.99	10	2,477.64	10	2,840.19	10	3,202.70	10	3,565.21
10 1/4	312.95	10 1/4	672.72	10 1/4	1,035.06	10 1/4	1,397.55	10 1/4	1,759.90	10 1/4	2,122.55	10 1/4	2,485.19	10 1/4	2,847.74	10 1/4	3,210.25	10 1/4	3,572.77
10 1/2	320.30	10 1/2	680.28	10 1/2	1,042.60	10 1/2	1,405.10	10 1/2	1,767.46	10 1/2	2,130.10	10 1/2	2,492.75	10 1/2	2,855.30	10 1/2	3,217.81	10 1/2	3,580.32
3/4	327.64	3/4	687.83	3/4	1,050.14	3/4	1,412.66	3/4	1,775.01	3/4	2,137.66	3/4	2,500.30	3/4	2,862.85	3/4	3,225.36	3/4	3,587.87
11	334.99	11	695.39	11	1,057.69	11	1,420.21	11	1,782.57	11	2,145.21	11	2,507.86	11	2,870.40	11	3,232.91	11	3,595.42
11 1/4	342.34	11 1/4	702.94	11 1/4	1,065.23	11 1/4	1,427.77	11 1/4	1,790.12	11 1/4	2,152.77	11 1/4	2,515.41	11 1/4	2,877.95	11 1/4	3,240.46	11 1/4	3,602.97
11 1/2	349.69	11 1/2	710.50	11 1/2	1,072.77	11 1/2	1,435.32	11 1/2	1,797.68	11 1/2	2,160.32	11 1/2	2,522.97	11 1/2	2,885.51	11 1/2	3,248.02	11 1/2	3,610.53
3/4	357.04	3/4	718.05	3/4	1,080.32	3/4	1,442.88	3/4	1,805.23	3/4	2,167.88	3/4	2,530.52	3/4	2,893.06	3/4	3,255.57	3/4	3,618.08

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 THE TOP OF THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "MOC 19"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS										GAUGE HEIGHT 15'-09"									
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	3,625.63	0	3,988.14	0	4,350.65	0	4,713.17	0	5,074.97	0		0		0		0		0	
1/4	3,633.18	1/4	3,995.69	1/4	4,358.20	1/4	4,720.73	1/4	5,082.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,640.74	1/2	4,003.25	1/2	4,365.76	1/2	4,728.28	1/2	5,090.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,648.29	3/4	4,010.80	3/4	4,373.31	3/4	4,735.84	3/4	5,097.51	3/4		3/4		3/4		3/4		3/4	
1	3,655.84	1	4,018.35	1	4,380.86	1	4,743.39	1	5,105.02	1		1		1		1		1	
1 1/4	3,663.39	1 1/4	4,025.90	1 1/4	4,388.41	1 1/4	4,750.95	1 1/4	5,112.50	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,670.95	1 1/2	4,033.46	1 1/2	4,395.97	1 1/2	4,758.50	1 1/2	5,119.98	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,678.50	3/2	4,041.01	3/2	4,403.52	3/2	4,766.06	3/2	5,127.45	3/2		3/2		3/2		3/2		3/2	
2	3,686.05	2	4,048.56	2	4,411.07	2	4,773.61	2	5,134.93	2		2		2		2		2	
2 1/4	3,693.60	2 1/4	4,056.11	2 1/4	4,418.62	2 1/4	4,781.17	2 1/4	5,142.40	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	3,701.15	2 1/2	4,063.66	2 1/2	4,426.18	2 1/2	4,788.72	2 1/2	5,149.88	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
3/2	3,708.71	3/2	4,071.22	3/2	4,433.73	3/2	4,796.28	3/2	5,157.35	3/2		3/2		3/2		3/2		3/2	
3	3,716.26	3	4,078.77	3	4,441.28	3	4,803.83	3	5,164.83	3		3		3		3		3	
3 1/4	3,723.81	3 1/4	4,086.32	3 1/4	4,448.83	3 1/4	4,811.39	3 1/4	5,172.30	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	3,731.36	3 1/2	4,093.87	3 1/2	4,456.38	3 1/2	4,818.94	3 1/2	5,179.77	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
4	3,738.92	4	4,101.43	4	4,463.94	4	4,826.50	4	5,187.24	4		4		4		4		4	
4 1/4	3,746.47	4 1/4	4,108.98	4 1/4	4,471.49	4 1/4	4,834.05	4 1/4	5,194.70	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	3,754.02	4 1/2	4,116.53	4 1/2	4,479.04	4 1/2	4,841.60	4 1/2	5,202.12	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
5	3,761.57	5	4,124.08	5	4,486.59	5	4,849.15	5	5,209.54	5		5		5		5		5	
5 1/4	3,769.13	5 1/4	4,131.64	5 1/4	4,494.15	5 1/4	4,856.70	5 1/4	5,216.96	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	3,776.68	5 1/2	4,139.19	5 1/2	4,501.70	5 1/2	4,864.24	5 1/2	5,224.38	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2	
6	3,784.23	6	4,146.74	6	4,509.25	6	4,871.77	6	5,231.40	6		6		6		6		6	
6 1/4	3,791.78	6 1/4	4,154.29	6 1/4	4,516.80	6 1/4	4,879.29	6 1/4	5,238.43	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	3,799.33	6 1/2	4,161.84	6 1/2	4,524.36	6 1/2	4,886.82	6 1/2	5,245.46	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2	
7	3,806.89	7	4,169.40	7	4,531.91	7	4,894.35	7	5,252.48	7		7		7		7		7	
7 1/4	3,814.44	7 1/4	4,176.95	7 1/4	4,539.46	7 1/4	4,901.87	7 1/4	5,258.39	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	3,821.99	7 1/2	4,184.50	7 1/2	4,547.01	7 1/2	4,909.40	7 1/2	5,264.29	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2	
8	3,829.54	8	4,192.05	8	4,554.56	8	4,916.92	8	5,270.20	8		8		8		8		8	
8 1/4	3,837.10	8 1/4	4,199.61	8 1/4	4,562.12	8 1/4	4,924.45	8 1/4	5,276.10	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	3,844.65	8 1/2	4,207.16	8 1/2	4,569.67	8 1/2	4,931.98	8 1/2	5,280.74	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
9	3,852.20	9	4,214.71	9	4,577.22	9	4,939.50	9	5,285.39	9		9		9		9		9	
9 1/4	3,859.75	9 1/4	4,222.26	9 1/4	4,584.77	9 1/4	4,947.03	9 1/4	5,290.03	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	3,867.31	9 1/2	4,229.82	9 1/2	4,592.33	9 1/2	4,954.55	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
10	3,874.86	10	4,237.37	10	4,599.88	10	4,962.08	10		10		10		10		10		10	
10 1/4	3,882.41	10 1/4	4,244.92	10 1/4	4,607.43	10 1/4	4,969.61	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	3,889.96	10 1/2	4,252.47	10 1/2	4,614.98	10 1/2	4,977.13	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
11	3,897.51	11	4,260.02	11	4,622.54	11	4,984.66	11		11		11		11		11		11	
11 1/4	3,905.07	11 1/4	4,267.58	11 1/4	4,630.09	11 1/4	4,992.18	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	3,912.62	11 1/2	4,275.13	11 1/2	4,637.64	11 1/2	4,999.71	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
12	3,920.17	12	4,282.68	12	4,645.19	12	5,007.24	12		12		12		12		12		12	
12 1/4	3,927.72	12 1/4	4,290.23	12 1/4	4,652.74	12 1/4	5,014.76	12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4	
12 1/2	3,935.28	12 1/2	4,297.79	12 1/2	4,660.30	12 1/2	5,022.29	12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2	
13	3,942.83	13	4,305.34	13	4,667.85	13	5,029.81	13		13		13		13		13		13	
13 1/4	3,950.38	13 1/4	4,312.89	13 1/4	4,675.40	13 1/4	5,037.34	13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4	
13 1/2	3,957.93	13 1/2	4,320.44	13 1/2	4,682.95	13 1/2	5,044.87	13 1/2		13 1/2		13 1/2		13 1/2		13 1/2		13 1/2	
14	3,965.48	14	4,328.00	14	4,690.51	14	5,052.39	14		14		14		14		14		14	
14 1/4	3,973.04	14 1/4	4,335.55	14 1/4	4,698.06	14 1/4	5,059.92	14 1/4		14 1/4		14 1/4		14 1/4		14 1/4		14 1/4	
14 1/2	3,980.59	14 1/2	4,343.10	14 1/2	4,705.62	14 1/2	5,067.44	14 1/2		14 1/2		14 1/2		14 1/2		14 1/2		14 1/2	

STRAPPED: 01/03/2013 CL
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MOC 19"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	27.27	0	364.39	0	725.61	0	1,086.09	0	1,448.55	0	1,810.90	0	2,173.54	0	2,536.18	0	2,898.82	0	3,261.46
1/4	31.96	1/4	371.74	1/4	733.16	1/4	1,093.60	1/4	1,456.10	1/4	1,818.45	1/4	2,181.09	1/4	2,543.73	1/4	2,906.37	1/4	3,269.01
1/2	36.65	1/2	379.09	1/2	740.70	1/2	1,101.12	1/2	1,463.65	1/2	1,826.01	1/2	2,188.65	1/2	2,551.29	1/2	2,913.93	1/2	3,276.57
3/4	41.34	3/4	386.44	3/4	748.25	3/4	1,108.63	3/4	1,471.20	3/4	1,833.56	3/4	2,196.20	3/4	2,558.84	3/4	2,921.48	3/4	3,284.12
1	46.03	1	393.79	1	755.79	1	1,116.14	1	1,478.75	1	1,841.12	1	2,203.76	1	2,566.40	1	2,929.04	1	3,291.68
1/4	51.98	1/4	401.19	1/4	763.31	1/4	1,123.69	1/4	1,486.29	1/4	1,848.67	1/4	2,211.31	1/4	2,573.95	1/4	2,936.59	1/4	3,299.23
1/2	57.93	1/2	408.59	1/2	770.82	1/2	1,131.24	1/2	1,493.82	1/2	1,856.23	1/2	2,218.87	1/2	2,581.51	1/2	2,944.15	1/2	3,306.79
3/4	63.88	3/4	415.99	3/4	778.34	3/4	1,138.78	3/4	1,501.36	3/4	1,863.78	3/4	2,226.42	3/4	2,589.06	3/4	2,951.70	3/4	3,314.34
2	69.83	2	423.39	2	785.86	2	1,146.33	2	1,508.90	2	1,871.34	2	2,233.98	2	2,596.62	2	2,959.26	2	3,321.90
1/4	76.87	1/4	430.95	1/4	793.37	1/4	1,153.88	1/4	1,516.43	1/4	1,878.89	1/4	2,241.53	1/4	2,604.17	1/4	2,966.81	1/4	3,329.45
1/2	83.91	1/2	438.50	1/2	800.89	1/2	1,161.44	1/2	1,523.97	1/2	1,886.45	1/2	2,249.09	1/2	2,611.73	1/2	2,974.37	1/2	3,337.01
3/4	90.95	3/4	446.06	3/4	808.40	3/4	1,169.00	3/4	1,531.51	3/4	1,894.00	3/4	2,256.64	3/4	2,619.28	3/4	2,981.92	3/4	3,344.56
3	97.99	3	453.61	3	815.92	3	1,176.55	3	1,539.04	3	1,901.56	3	2,264.20	3	2,626.84	3	2,989.48	3	3,352.12
1/4	105.49	1/4	461.17	1/4	823.43	1/4	1,184.11	1/4	1,546.58	1/4	1,909.11	1/4	2,271.75	1/4	2,634.39	1/4	2,997.03	1/4	3,359.67
1/2	112.98	1/2	468.73	1/2	830.94	1/2	1,191.66	1/2	1,554.12	1/2	1,916.67	1/2	2,279.31	1/2	2,641.95	1/2	3,004.59	1/2	3,367.23
3/4	120.48	3/4	476.28	3/4	838.46	3/4	1,199.22	3/4	1,561.65	3/4	1,924.22	3/4	2,286.86	3/4	2,649.50	3/4	3,012.14	3/4	3,374.78
4	127.97	4	483.84	4	845.97	4	1,206.77	4	1,569.19	4	1,931.78	4	2,294.42	4	2,657.06	4	3,019.70	4	3,382.34
1/4	135.49	1/4	491.39	1/4	853.47	1/4	1,214.33	1/4	1,576.73	1/4	1,939.33	1/4	2,301.97	1/4	2,664.61	1/4	3,027.25	1/4	3,389.89
1/2	143.01	1/2	498.95	1/2	860.98	1/2	1,221.88	1/2	1,584.27	1/2	1,946.89	1/2	2,309.53	1/2	2,672.17	1/2	3,034.81	1/2	3,397.45
3/4	150.53	3/4	506.50	3/4	868.48	3/4	1,229.44	3/4	1,591.81	3/4	1,954.44	3/4	2,317.08	3/4	2,679.72	3/4	3,042.36	3/4	3,405.00
5	158.05	5	514.06	5	875.98	5	1,236.99	5	1,599.36	5	1,962.00	5	2,324.64	5	2,687.28	5	3,049.92	5	3,412.56
1/4	165.54	1/4	521.61	1/4	883.49	1/4	1,244.55	1/4	1,606.91	1/4	1,969.55	1/4	2,332.19	1/4	2,694.83	1/4	3,057.47	1/4	3,420.11
1/2	173.03	1/2	529.17	1/2	890.99	1/2	1,252.11	1/2	1,614.47	1/2	1,977.11	1/2	2,339.75	1/2	2,702.39	1/2	3,065.03	1/2	3,427.67
3/4	180.52	3/4	536.73	3/4	898.50	3/4	1,259.66	3/4	1,622.02	3/4	1,984.66	3/4	2,347.30	3/4	2,709.94	3/4	3,072.58	3/4	3,435.22
6	188.01	6	544.28	6	906.00	6	1,267.22	6	1,629.58	6	1,992.22	6	2,354.86	6	2,717.50	6	3,080.14	6	3,442.78
1/4	195.36	1/4	551.84	1/4	913.50	1/4	1,274.77	1/4	1,637.13	1/4	1,999.77	1/4	2,362.41	1/4	2,725.05	1/4	3,087.69	1/4	3,450.33
1/2	202.71	1/2	559.39	1/2	921.01	1/2	1,282.33	1/2	1,644.69	1/2	2,007.33	1/2	2,369.97	1/2	2,732.61	1/2	3,095.25	1/2	3,457.89
3/4	210.06	3/4	566.95	3/4	928.51	3/4	1,289.88	3/4	1,652.24	3/4	2,014.88	3/4	2,377.52	3/4	2,740.16	3/4	3,102.80	3/4	3,465.44
7	217.41	7	574.50	7	936.02	7	1,297.44	7	1,659.80	7	2,022.44	7	2,385.08	7	2,747.72	7	3,110.36	7	3,473.00
1/4	224.76	1/4	582.06	1/4	943.52	1/4	1,304.99	1/4	1,667.35	1/4	2,029.99	1/4	2,392.63	1/4	2,755.27	1/4	3,117.91	1/4	3,480.55
1/2	232.11	1/2	589.61	1/2	951.02	1/2	1,312.55	1/2	1,674.91	1/2	2,037.55	1/2	2,400.19	1/2	2,762.83	1/2	3,125.47	1/2	3,488.11
3/4	239.46	3/4	597.17	3/4	958.53	3/4	1,320.10	3/4	1,682.46	3/4	2,045.10	3/4	2,407.74	3/4	2,770.38	3/4	3,133.02	3/4	3,495.66
8	246.81	8	604.73	8	966.03	8	1,327.66	8	1,690.02	8	2,052.66	8	2,415.30	8	2,777.94	8	3,140.58	8	3,503.22
1/4	254.16	1/4	612.28	1/4	973.53	1/4	1,335.21	1/4	1,697.57	1/4	2,060.21	1/4	2,422.85	1/4	2,785.49	1/4	3,148.13	1/4	3,510.77
1/2	261.50	1/2	619.84	1/2	981.04	1/2	1,342.77	1/2	1,705.13	1/2	2,067.77	1/2	2,430.41	1/2	2,793.05	1/2	3,155.69	1/2	3,518.33
3/4	268.85	3/4	627.39	3/4	988.54	3/4	1,350.33	3/4	1,712.68	3/4	2,075.32	3/4	2,437.96	3/4	2,800.60	3/4	3,163.24	3/4	3,525.88
9	276.20	9	634.95	9	996.05	9	1,357.88	9	1,720.24	9	2,082.88	9	2,445.52	9	2,808.16	9	3,170.80	9	3,533.44
1/4	283.55	1/4	642.50	1/4	1,003.55	1/4	1,365.44	1/4	1,727.79	1/4	2,090.43	1/4	2,453.07	1/4	2,815.71	1/4	3,178.35	1/4	3,540.99
1/2	290.90	1/2	650.06	1/2	1,011.05	1/2	1,372.99	1/2	1,735.35	1/2	2,097.99	1/2	2,460.63	1/2	2,823.27	1/2	3,185.91	1/2	3,548.55
3/4	298.25	3/4	657.61	3/4	1,018.56	3/4	1,380.55	3/4	1,742.90	3/4	2,105.54	3/4	2,468.18	3/4	2,830.82	3/4	3,193.46	3/4	3,556.10
10	305.60	10	665.17	10	1,026.06	10	1,388.10	10	1,750.46	10	2,113.10	10	2,475.74	10	2,838.38	10	3,201.02	10	3,563.66
1/4	312.95	1/4	672.73	1/4	1,033.56	1/4	1,395.66	1/4	1,758.01	1/4	2,120.65	1/4	2,483.29	1/4	2,845.93	1/4	3,208.57	1/4	3,571.21
1/2	320.30	1/2	680.28	1/2	1,041.07	1/2	1,403.21	1/2	1,765.57	1/2	2,128.21	1/2	2,490.85	1/2	2,853.49	1/2	3,216.13	1/2	3,578.77
3/4	327.65	3/4	687.84	3/4	1,048.57	3/4	1,410.77	3/4	1,773.12	3/4	2,135.76	3/4	2,498.40	3/4	2,861.04	3/4	3,223.68	3/4	3,586.32
11	335.00	11	695.39	11	1,056.08	11	1,418.32	11	1,780.68	11	2,143.32	11	2,505.96	11	2,868.60	11	3,231.24	11	3,593.88
1/4	342.34	1/4	702.95	1/4	1,063.58	1/4	1,425.88	1/4	1,788.23	1/4	2,150.87	1/4	2,513.51	1/4	2,876.15	1/4	3,238.79	1/4	3,601.43
1/2	349.69	1/2	710.50	1/2	1,071.08	1/2	1,433.43	1/2	1,795.79	1/2	2,158.43	1/2	2,521.07	1/2	2,883.71	1/2	3,246.35	1/2	3,608.99
3/4	357.04	3/4	718.06	3/4	1,078.59	3/4	1,440.99	3/4	1,803.34	3/4	2,165.98	3/4	2,528.62	3/4	2,891.26	3/4	3,253.90	3/4	3,616.54

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" 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 "MOC 19"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,624.10	0	3,986.74	0	4,349.38	0	4,712.02	0	5,073.84	0		0		0		0		0	
1/4	3,631.65	1/4	3,994.29	1/4	4,356.93	1/4	4,719.57	1/4	5,081.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.21	1/2	4,001.85	1/2	4,364.49	1/2	4,727.13	1/2	5,088.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.76	3/4	4,009.40	3/4	4,372.04	3/4	4,734.68	3/4	5,096.38	3/4		3/4		3/4		3/4		3/4	
1	3,654.32	1	4,016.96	1	4,379.60	1	4,742.24	1	5,103.89	1		1		1		1		1	
1 1/4	3,661.87	1 1/4	4,024.51	1 1/4	4,387.15	1 1/4	4,749.79	1 1/4	5,111.37	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,669.43	1 1/2	4,032.07	1 1/2	4,394.71	1 1/2	4,757.35	1 1/2	5,118.84	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/2	3,676.98	3/2	4,039.62	3/2	4,402.26	3/2	4,764.90	3/2	5,126.32	3/2		3/2		3/2		3/2		3/2	
2	3,684.54	2	4,047.18	2	4,409.82	2	4,772.46	2	5,133.80	2		2		2		2		2	
2 1/4	3,692.09	2 1/4	4,054.73	2 1/4	4,417.37	2 1/4	4,780.01	2 1/4	5,141.27	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	3,699.65	2 1/2	4,062.29	2 1/2	4,424.93	2 1/2	4,787.57	2 1/2	5,148.75	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
3/2	3,707.20	3/2	4,069.84	3/2	4,432.48	3/2	4,795.12	3/2	5,156.22	3/2		3/2		3/2		3/2		3/2	
3	3,714.76	3	4,077.40	3	4,440.04	3	4,802.68	3	5,163.70	3		3		3		3		3	
3 1/4	3,722.31	3 1/4	4,084.95	3 1/4	4,447.59	3 1/4	4,810.23	3 1/4	5,171.17	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	3,729.87	3 1/2	4,092.51	3 1/2	4,455.15	3 1/2	4,817.79	3 1/2	5,178.64	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
4	3,737.42	4	4,100.06	4	4,462.70	4	4,825.34	4	5,186.10	4		4		4		4		4	
4 1/4	3,744.98	4 1/4	4,107.62	4 1/4	4,470.26	4 1/4	4,832.90	4 1/4	5,193.57	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	3,752.53	4 1/2	4,115.17	4 1/2	4,477.81	4 1/2	4,840.45	4 1/2	5,200.99	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
5	3,760.09	5	4,122.73	5	4,485.37	5	4,848.00	5	5,208.41	5		5		5		5		5	
5 1/4	3,767.64	5 1/4	4,130.28	5 1/4	4,492.92	5 1/4	4,855.56	5 1/4	5,215.83	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	3,775.20	5 1/2	4,137.84	5 1/2	4,500.48	5 1/2	4,863.11	5 1/2	5,223.25	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2	
6	3,782.75	6	4,145.39	6	4,508.03	6	4,870.64	6	5,230.27	6		6		6		6		6	
6 1/4	3,790.31	6 1/4	4,152.95	6 1/4	4,515.59	6 1/4	4,878.16	6 1/4	5,237.30	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	3,797.86	6 1/2	4,160.50	6 1/2	4,523.14	6 1/2	4,885.69	6 1/2	5,244.33	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2	
7	3,805.42	7	4,168.06	7	4,530.70	7	4,893.21	7	5,251.35	7		7		7		7		7	
7 1/4	3,812.97	7 1/4	4,175.61	7 1/4	4,538.25	7 1/4	4,900.74	7 1/4	5,257.26	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	3,820.53	7 1/2	4,183.17	7 1/2	4,545.81	7 1/2	4,908.27	7 1/2	5,263.16	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2	
8	3,828.08	8	4,190.72	8	4,553.36	8	4,915.79	8	5,269.07	8		8		8		8		8	
8 1/4	3,835.64	8 1/4	4,198.28	8 1/4	4,560.92	8 1/4	4,923.32	8 1/4	5,274.97	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	3,843.19	8 1/2	4,205.83	8 1/2	4,568.47	8 1/2	4,930.84	8 1/2	5,279.61	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
9	3,850.75	9	4,213.39	9	4,576.03	9	4,938.37	9	5,284.26	9		9		9		9		9	
9 1/4	3,858.30	9 1/4	4,220.94	9 1/4	4,583.58	9 1/4	4,945.90	9 1/4	5,288.90	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	3,865.86	9 1/2	4,228.50	9 1/2	4,591.14	9 1/2	4,953.42	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
10	3,873.41	10	4,236.05	10	4,598.69	10	4,960.95	10		10		10		10		10		10	
10 1/4	3,880.97	10 1/4	4,243.61	10 1/4	4,606.25	10 1/4	4,968.47	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	3,888.52	10 1/2	4,251.16	10 1/2	4,613.80	10 1/2	4,976.00	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
11	3,896.08	11	4,258.72	11	4,621.36	11	4,983.53	11		11		11		11		11		11	
11 1/4	3,903.63	11 1/4	4,266.27	11 1/4	4,628.91	11 1/4	4,991.05	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	3,911.19	11 1/2	4,273.83	11 1/2	4,636.47	11 1/2	4,998.58	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
12	3,918.74	12	4,281.38	12	4,644.02	12	5,006.10	12		12		12		12		12		12	
12 1/4	3,926.30	12 1/4	4,288.94	12 1/4	4,651.58	12 1/4	5,013.63	12 1/4		12 1/4		12 1/4		12 1/4		12 1/4		12 1/4	
12 1/2	3,933.85	12 1/2	4,296.49	12 1/2	4,659.13	12 1/2	5,021.16	12 1/2		12 1/2		12 1/2		12 1/2		12 1/2		12 1/2	
13	3,941.41	13	4,304.05	13	4,666.69	13	5,028.68	13		13		13		13		13		13	
13 1/4	3,948.96	13 1/4	4,311.60	13 1/4	4,674.24	13 1/4	5,036.21	13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4	
13 1/2	3,956.52	13 1/2	4,319.16	13 1/2	4,681.80	13 1/2	5,043.73	13 1/2		13 1/2		13 1/2		13 1/2		13 1/2		13 1/2	
14	3,964.07	14	4,326.71	14	4,689.35	14	5,051.26	14		14		14		14		14		14	
14 1/4	3,971.63	14 1/4	4,334.27	14 1/4	4,696.91	14 1/4	5,058.79	14 1/4		14 1/4		14 1/4		14 1/4		14 1/4		14 1/4	
14 1/2	3,979.18	14 1/2	4,341.82	14 1/2	4,704.46	14 1/2	5,066.31	14 1/2		14 1/2		14 1/2		14 1/2		14 1/2		14 1/2	

STRAPPED: 01/03/2013 CL
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "MOC 19"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	27.21	0	363.45	0	723.76	0	1,085.10	0	1,446.76	0	1,806.61	0	2,168.36	0	2,530.10	0	2,891.75	0	3,253.36
1/4	31.88	1/4	370.78	1/4	731.29	1/4	1,092.62	1/4	1,454.27	1/4	1,814.14	1/4	2,175.89	1/4	2,537.64	1/4	2,899.28	1/4	3,260.90
1/2	36.56	1/2	378.11	1/2	738.83	1/2	1,100.14	1/2	1,461.77	1/2	1,821.68	1/2	2,183.43	1/2	2,545.18	1/2	2,906.82	1/2	3,268.43
3/4	41.24	3/4	385.44	3/4	746.37	3/4	1,107.67	3/4	1,469.28	3/4	1,829.22	3/4	2,190.96	3/4	2,552.71	3/4	2,914.35	3/4	3,275.96
1	45.92	1	392.77	1	753.90	1	1,115.19	1	1,476.79	1	1,836.75	1	2,198.50	1	2,560.25	1	2,921.88	1	3,283.50
1/4	51.85	1/4	400.15	1/4	761.44	1/4	1,122.72	1/4	1,484.20	1/4	1,844.29	1/4	2,206.04	1/4	2,567.78	1/4	2,929.42	1/4	3,291.03
1/2	57.78	1/2	407.54	1/2	768.97	1/2	1,130.25	1/2	1,491.62	1/2	1,851.83	1/2	2,213.57	1/2	2,575.32	1/2	2,936.95	1/2	3,298.56
3/4	63.72	3/4	414.92	3/4	776.51	3/4	1,137.78	3/4	1,499.04	3/4	1,859.36	3/4	2,221.11	3/4	2,582.86	3/4	2,944.48	3/4	3,306.10
2	69.65	2	422.30	2	784.05	2	1,145.30	2	1,506.46	2	1,866.90	2	2,228.65	2	2,590.39	2	2,952.02	2	3,313.63
1/4	76.67	1/4	429.84	1/4	791.58	1/4	1,152.84	1/4	1,513.88	1/4	1,874.44	1/4	2,236.18	1/4	2,597.93	1/4	2,959.55	1/4	3,321.16
1/2	83.70	1/2	437.37	1/2	799.12	1/2	1,160.38	1/2	1,521.29	1/2	1,881.97	1/2	2,243.72	1/2	2,605.47	1/2	2,967.09	1/2	3,328.70
3/4	90.72	3/4	444.91	3/4	806.66	3/4	1,167.91	3/4	1,528.71	3/4	1,889.51	3/4	2,251.26	3/4	2,613.00	3/4	2,974.62	3/4	3,336.23
3	97.74	3	452.45	3	814.19	3	1,175.45	3	1,536.13	3	1,897.04	3	2,258.79	3	2,620.54	3	2,982.15	3	3,343.77
1/4	105.22	1/4	459.98	1/4	821.72	1/4	1,182.99	1/4	1,543.55	1/4	1,904.58	1/4	2,266.33	1/4	2,628.07	1/4	2,989.69	1/4	3,351.30
1/2	112.70	1/2	467.52	1/2	829.26	1/2	1,190.52	1/2	1,550.96	1/2	1,912.12	1/2	2,273.86	1/2	2,635.61	1/2	2,997.22	1/2	3,358.83
3/4	120.17	3/4	475.06	3/4	836.79	3/4	1,198.06	3/4	1,558.38	3/4	1,919.65	3/4	2,281.40	3/4	2,643.14	3/4	3,004.75	3/4	3,366.37
4	127.65	4	482.59	4	844.32	4	1,205.59	4	1,565.80	4	1,927.19	4	2,288.94	4	2,650.67	4	3,012.29	4	3,373.90
1/4	135.15	1/4	490.13	1/4	851.85	1/4	1,213.13	1/4	1,573.25	1/4	1,934.73	1/4	2,296.47	1/4	2,658.21	1/4	3,019.82	1/4	3,381.43
1/2	142.65	1/2	497.67	1/2	859.37	1/2	1,220.67	1/2	1,580.69	1/2	1,942.26	1/2	2,304.01	1/2	2,665.74	1/2	3,027.35	1/2	3,388.97
3/4	150.15	3/4	505.20	3/4	866.90	3/4	1,228.20	3/4	1,588.14	3/4	1,949.80	3/4	2,311.55	3/4	2,673.28	3/4	3,034.89	3/4	3,396.50
5	157.65	5	512.74	5	874.42	5	1,235.74	5	1,595.59	5	1,957.34	5	2,319.08	5	2,680.81	5	3,042.42	5	3,404.03
1/4	165.12	1/4	520.28	1/4	881.95	1/4	1,243.28	1/4	1,603.13	1/4	1,964.87	1/4	2,326.62	1/4	2,688.34	1/4	3,049.96	1/4	3,411.57
1/2	172.59	1/2	527.81	1/2	889.47	1/2	1,250.81	1/2	1,610.66	1/2	1,972.41	1/2	2,334.16	1/2	2,695.88	1/2	3,057.49	1/2	3,419.10
3/4	180.07	3/4	535.35	3/4	896.99	3/4	1,258.35	3/4	1,618.20	3/4	1,979.95	3/4	2,341.69	3/4	2,703.41	3/4	3,065.02	3/4	3,426.64
6	187.54	6	542.89	6	904.52	6	1,265.89	6	1,625.73	6	1,987.48	6	2,349.23	6	2,710.94	6	3,072.56	6	3,434.17
1/4	194.87	1/4	550.42	1/4	912.04	1/4	1,273.42	1/4	1,633.27	1/4	1,995.02	1/4	2,356.77	1/4	2,718.48	1/4	3,080.09	1/4	3,441.70
1/2	202.20	1/2	557.96	1/2	919.57	1/2	1,280.96	1/2	1,640.81	1/2	2,002.55	1/2	2,364.30	1/2	2,726.01	1/2	3,087.62	1/2	3,449.24
3/4	209.53	3/4	565.49	3/4	927.09	3/4	1,288.49	3/4	1,648.34	3/4	2,010.09	3/4	2,371.84	3/4	2,733.54	3/4	3,095.16	3/4	3,456.77
7	216.86	7	573.03	7	934.61	7	1,296.03	7	1,655.88	7	2,017.63	7	2,379.37	7	2,741.08	7	3,102.69	7	3,464.30
1/4	224.19	1/4	580.57	1/4	942.14	1/4	1,303.57	1/4	1,663.42	1/4	2,025.16	1/4	2,386.91	1/4	2,748.61	1/4	3,110.22	1/4	3,471.84
1/2	231.52	1/2	588.10	1/2	949.66	1/2	1,311.10	1/2	1,670.95	1/2	2,032.70	1/2	2,394.45	1/2	2,756.14	1/2	3,117.76	1/2	3,479.37
3/4	238.85	3/4	595.64	3/4	957.19	3/4	1,318.64	3/4	1,678.49	3/4	2,040.24	3/4	2,401.98	3/4	2,763.68	3/4	3,125.29	3/4	3,486.90
8	246.18	8	603.18	8	964.71	8	1,326.18	8	1,686.03	8	2,047.77	8	2,409.52	8	2,771.21	8	3,132.82	8	3,494.44
1/4	253.51	1/4	610.71	1/4	972.23	1/4	1,333.71	1/4	1,693.56	1/4	2,055.31	1/4	2,417.06	1/4	2,778.75	1/4	3,140.36	1/4	3,501.97
1/2	260.84	1/2	618.25	1/2	979.76	1/2	1,341.25	1/2	1,701.10	1/2	2,062.85	1/2	2,424.59	1/2	2,786.28	1/2	3,147.89	1/2	3,509.50
3/4	268.17	3/4	625.79	3/4	987.28	3/4	1,348.79	3/4	1,708.63	3/4	2,070.38	3/4	2,432.13	3/4	2,793.81	3/4	3,155.43	3/4	3,517.04
9	275.50	9	633.32	9	994.81	9	1,356.32	9	1,716.17	9	2,077.92	9	2,439.67	9	2,801.35	9	3,162.96	9	3,524.57
1/4	282.83	1/4	640.86	1/4	1,002.33	1/4	1,363.86	1/4	1,723.71	1/4	2,085.45	1/4	2,447.20	1/4	2,808.88	1/4	3,170.49	1/4	3,532.11
1/2	290.16	1/2	648.40	1/2	1,009.85	1/2	1,371.40	1/2	1,731.24	1/2	2,092.99	1/2	2,454.74	1/2	2,816.41	1/2	3,178.03	1/2	3,539.64
3/4	297.48	3/4	655.93	3/4	1,017.38	3/4	1,378.93	3/4	1,738.78	3/4	2,100.53	3/4	2,462.27	3/4	2,823.95	3/4	3,185.56	3/4	3,547.17
10	304.81	10	663.47	10	1,024.90	10	1,386.47	10	1,746.32	10	2,108.06	10	2,469.81	10	2,831.48	10	3,193.09	10	3,554.71
1/4	312.14	1/4	671.01	1/4	1,032.43	1/4	1,394.00	1/4	1,753.85	1/4	2,115.60	1/4	2,477.35	1/4	2,839.01	1/4	3,200.63	1/4	3,562.24
1/2	319.47	1/2	678.54	1/2	1,039.95	1/2	1,401.54	1/2	1,761.39	1/2	2,123.14	1/2	2,484.88	1/2	2,846.55	1/2	3,208.16	1/2	3,569.77
3/4	326.80	3/4	686.08	3/4	1,047.48	3/4	1,409.08	3/4	1,768.93	3/4	2,130.67	3/4	2,492.42	3/4	2,854.08	3/4	3,215.69	3/4	3,577.31
11	334.13	11	693.61	11	1,055.00	11	1,416.61	11	1,776.46	11	2,138.21	11	2,499.96	11	2,861.62	11	3,223.23	11	3,584.84
1/4	341.46	1/4	701.15	1/4	1,062.52	1/4	1,424.15	1/4	1,784.00	1/4	2,145.75	1/4	2,507.49	1/4	2,869.15	1/4	3,230.76	1/4	3,592.37
1/2	348.79	1/2	708.69	1/2	1,070.05	1/2	1,431.69	1/2	1,791.54	1/2	2,153.28	1/2	2,515.03	1/2	2,876.68	1/2	3,238.30	1/2	3,599.91
3/4	356.12	3/4	716.22	3/4	1,077.57	3/4	1,439.22	3/4	1,799.07	3/4	2,160.82	3/4	2,522.57	3/4	2,884.22	3/4	3,245.83	3/4	3,607.44

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 THE TOP OF THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" 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 "MOC 19"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,614.98	0	3,976.59	0	4,338.20	0	4,699.84	0	5,060.75	0		0		0		0		0	
1/4	3,622.51	1/4	3,984.12	1/4	4,345.73	1/4	4,707.38	1/4	5,068.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.04	1/2	3,991.66	1/2	4,353.27	1/2	4,714.91	1/2	5,075.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,637.58	3/4	3,999.19	3/4	4,360.80	3/4	4,722.45	3/4	5,083.23	3/4		3/4		3/4		3/4		3/4	
1	3,645.11	1	4,006.72	1	4,368.34	1	4,729.99	1	5,090.73	1		1		1		1		1	
1/4	3,652.64	1/4	4,014.26	1/4	4,375.87	1/4	4,737.52	1/4	5,098.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,660.18	1/2	4,021.79	1/2	4,383.40	1/2	4,745.06	1/2	5,105.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,667.71	3/4	4,029.32	3/4	4,390.94	3/4	4,752.60	3/4	5,113.10	3/4		3/4		3/4		3/4		3/4	
2	3,675.24	2	4,036.86	2	4,398.47	2	4,760.13	2	5,120.56	2		2		2		2		2	
1/4	3,682.78	1/4	4,044.39	1/4	4,406.00	1/4	4,767.67	1/4	5,128.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,690.31	1/2	4,051.92	1/2	4,413.54	1/2	4,775.21	1/2	5,135.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,697.84	3/4	4,059.46	3/4	4,421.07	3/4	4,782.74	3/4	5,142.93	3/4		3/4		3/4		3/4		3/4	
3	3,705.38	3	4,066.99	3	4,428.60	3	4,790.28	3	5,150.38	3		3		3		3		3	
1/4	3,712.91	1/4	4,074.52	1/4	4,436.14	1/4	4,797.81	1/4	5,157.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,720.45	1/2	4,082.06	1/2	4,443.67	1/2	4,805.35	1/2	5,165.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,727.98	3/4	4,089.59	3/4	4,451.20	3/4	4,812.89	3/4	5,172.73	3/4		3/4		3/4		3/4		3/4	
4	3,735.51	4	4,097.13	4	4,458.74	4	4,820.42	4	5,180.18	4		4		4		4		4	
1/4	3,743.05	1/4	4,104.66	1/4	4,466.27	1/4	4,827.95	1/4	5,187.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,750.58	1/2	4,112.19	1/2	4,473.81	1/2	4,835.48	1/2	5,194.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,758.11	3/4	4,119.73	3/4	4,481.34	3/4	4,843.01	3/4	5,202.38	3/4		3/4		3/4		3/4		3/4	
5	3,765.65	5	4,127.26	5	4,488.87	5	4,850.54	5	5,209.78	5		5		5		5		5	
1/4	3,773.18	1/4	4,134.79	1/4	4,496.41	1/4	4,858.05	1/4	5,216.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,780.71	1/2	4,142.33	1/2	4,503.94	1/2	4,865.56	1/2	5,223.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,788.25	3/4	4,149.86	3/4	4,511.47	3/4	4,873.06	3/4	5,230.81	3/4		3/4		3/4		3/4		3/4	
6	3,795.78	6	4,157.39	6	4,519.01	6	4,880.57	6	5,237.82	6		6		6		6		6	
1/4	3,803.32	1/4	4,164.93	1/4	4,526.54	1/4	4,888.08	1/4	5,243.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,810.85	1/2	4,172.46	1/2	4,534.07	1/2	4,895.58	1/2	5,249.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,818.38	3/4	4,180.00	3/4	4,541.61	3/4	4,903.09	3/4	5,255.49	3/4		3/4		3/4		3/4		3/4	
7	3,825.92	7	4,187.53	7	4,549.14	7	4,910.60	7	5,261.37	7		7		7		7		7	
1/4	3,833.45	1/4	4,195.06	1/4	4,556.68	1/4	4,918.11	1/4	5,266.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,840.98	1/2	4,202.60	1/2	4,564.21	1/2	4,925.61	1/2	5,270.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,848.52	3/4	4,210.13	3/4	4,571.74	3/4	4,933.12	3/4	5,275.27	3/4		3/4		3/4		3/4		3/4	
8	3,856.05	8	4,217.66	8	4,579.28	8	4,940.63	8		8		8		8		8		8	
1/4	3,863.58	1/4	4,225.20	1/4	4,586.81	1/4	4,948.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,871.12	1/2	4,232.73	1/2	4,594.34	1/2	4,955.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,878.65	3/4	4,240.26	3/4	4,601.88	3/4	4,963.15	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,886.18	9	4,247.80	9	4,609.41	9	4,970.66	9		9		9		9		9		9	
1/4	3,893.72	1/4	4,255.33	1/4	4,616.94	1/4	4,978.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,901.25	1/2	4,262.86	1/2	4,624.48	1/2	4,985.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,908.79	3/4	4,270.40	3/4	4,632.01	3/4	4,993.18	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,916.32	10	4,277.93	10	4,639.54	10	5,000.69	10		10		10		10		10		10	
1/4	3,923.85	1/4	4,285.47	1/4	4,647.08	1/4	5,008.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.39	1/2	4,293.00	1/2	4,654.62	1/2	5,015.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,938.92	3/4	4,300.53	3/4	4,662.16	3/4	5,023.21	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,946.45	11	4,308.07	11	4,669.70	11	5,030.72	11		11		11		11		11		11	
1/4	3,953.99	1/4	4,315.60	1/4	4,677.23	1/4	5,038.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,961.52	1/2	4,323.13	1/2	4,684.77	1/2	5,045.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,969.05	3/4	4,330.67	3/4	4,692.30	3/4	5,053.24	3/4		3/4		3/4		3/4		3/4		3/4	

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PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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BARGE "MOC 19"

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	27.21	0	363.50	0	723.84	0	1,069.15	0	1,429.79	0	1,789.68	0	2,151.47	0	2,513.26	0	2,874.95	0	3,236.60
1/4	31.89	1/4	370.83	1/4	731.29	1/4	1,076.41	1/4	1,437.29	1/4	1,797.21	1/4	2,159.00	1/4	2,520.79	1/4	2,882.48	1/4	3,244.14
1/2	36.57	1/2	378.16	1/2	738.74	1/2	1,083.67	1/2	1,444.80	1/2	1,804.75	1/2	2,166.54	1/2	2,528.33	1/2	2,890.02	1/2	3,251.67
3/4	41.24	3/4	385.49	3/4	746.19	3/4	1,090.92	3/4	1,452.31	3/4	1,812.29	3/4	2,174.08	3/4	2,535.87	3/4	2,897.55	3/4	3,259.21
1	45.92	1	392.82	1	753.64	1	1,098.18	1	1,459.82	1	1,819.83	1	2,181.62	1	2,543.41	1	2,905.09	1	3,266.74
1/4	51.86	1/4	400.20	1/4	760.82	1/4	1,105.71	1/4	1,467.23	1/4	1,827.36	1/4	2,189.15	1/4	2,550.94	1/4	2,912.62	1/4	3,274.28
1/2	57.79	1/2	407.58	1/2	768.00	1/2	1,113.24	1/2	1,474.65	1/2	1,834.90	1/2	2,196.69	1/2	2,558.48	1/2	2,920.15	1/2	3,281.81
3/4	63.73	3/4	414.97	3/4	775.18	3/4	1,120.76	3/4	1,482.07	3/4	1,842.44	3/4	2,204.23	3/4	2,566.02	3/4	2,927.69	3/4	3,289.35
2	69.66	2	422.35	2	782.36	2	1,128.29	2	1,489.49	2	1,849.98	2	2,211.77	2	2,573.56	2	2,935.22	2	3,296.88
1/4	76.68	1/4	429.89	1/4	789.53	1/4	1,135.83	1/4	1,496.91	1/4	1,857.51	1/4	2,219.30	1/4	2,581.09	1/4	2,942.76	1/4	3,304.41
1/2	83.71	1/2	437.42	1/2	796.71	1/2	1,143.37	1/2	1,504.33	1/2	1,865.05	1/2	2,226.84	1/2	2,588.63	1/2	2,950.29	1/2	3,311.95
3/4	90.73	3/4	444.96	3/4	803.89	3/4	1,150.91	3/4	1,511.75	3/4	1,872.59	3/4	2,234.38	3/4	2,596.17	3/4	2,957.83	3/4	3,319.48
3	97.76	3	452.50	3	811.07	3	1,158.44	3	1,519.17	3	1,880.12	3	2,241.91	3	2,603.71	3	2,965.36	3	3,327.02
1/4	105.23	1/4	460.04	1/4	818.25	1/4	1,165.98	1/4	1,526.58	1/4	1,887.66	1/4	2,249.45	1/4	2,611.24	1/4	2,972.90	1/4	3,334.55
1/2	112.71	1/2	467.57	1/2	825.43	1/2	1,173.52	1/2	1,534.00	1/2	1,895.20	1/2	2,256.99	1/2	2,618.77	1/2	2,980.43	1/2	3,342.09
3/4	120.19	3/4	475.11	3/4	832.60	3/4	1,181.05	3/4	1,541.42	3/4	1,902.74	3/4	2,264.53	3/4	2,626.31	3/4	2,987.97	3/4	3,349.62
4	127.66	4	482.65	4	839.78	4	1,188.59	4	1,548.84	4	1,910.27	4	2,272.06	4	2,633.84	4	2,995.50	4	3,357.16
1/4	135.16	1/4	490.19	1/4	846.95	1/4	1,196.13	1/4	1,556.29	1/4	1,917.81	1/4	2,279.60	1/4	2,641.38	1/4	3,003.03	1/4	3,364.69
1/2	142.67	1/2	497.72	1/2	854.12	1/2	1,203.67	1/2	1,563.74	1/2	1,925.35	1/2	2,287.14	1/2	2,648.91	1/2	3,010.57	1/2	3,372.22
3/4	150.17	3/4	505.26	3/4	861.28	3/4	1,211.20	3/4	1,571.18	3/4	1,932.89	3/4	2,294.68	3/4	2,656.45	3/4	3,018.10	3/4	3,379.76
5	157.67	5	512.80	5	868.45	5	1,218.74	5	1,578.63	5	1,940.42	5	2,302.21	5	2,663.98	5	3,025.64	5	3,387.29
1/4	165.14	1/4	520.34	1/4	875.62	1/4	1,226.28	1/4	1,586.17	1/4	1,947.96	1/4	2,309.75	1/4	2,671.52	1/4	3,033.17	1/4	3,394.83
1/2	172.61	1/2	527.87	1/2	882.79	1/2	1,233.82	1/2	1,593.71	1/2	1,955.50	1/2	2,317.29	1/2	2,679.05	1/2	3,040.71	1/2	3,402.36
3/4	180.09	3/4	535.41	3/4	889.96	3/4	1,241.35	3/4	1,601.24	3/4	1,963.03	3/4	2,324.82	3/4	2,686.59	3/4	3,048.24	3/4	3,409.90
6	187.56	6	542.95	6	897.12	6	1,248.89	6	1,608.78	6	1,970.57	6	2,332.36	6	2,694.12	6	3,055.78	6	3,417.43
1/4	194.89	1/4	550.49	1/4	904.29	1/4	1,256.43	1/4	1,616.32	1/4	1,978.11	1/4	2,339.90	1/4	2,701.65	1/4	3,063.31	1/4	3,424.97
1/2	202.22	1/2	558.02	1/2	911.46	1/2	1,263.96	1/2	1,623.86	1/2	1,985.65	1/2	2,347.44	1/2	2,709.19	1/2	3,070.84	1/2	3,432.50
3/4	209.55	3/4	565.56	3/4	918.63	3/4	1,271.50	3/4	1,631.39	3/4	1,993.18	3/4	2,354.97	3/4	2,716.72	3/4	3,078.38	3/4	3,440.04
7	216.88	7	573.10	7	925.80	7	1,279.04	7	1,638.93	7	2,000.72	7	2,362.51	7	2,724.26	7	3,085.91	7	3,447.57
1/4	224.21	1/4	580.64	1/4	932.96	1/4	1,286.58	1/4	1,646.47	1/4	2,008.26	1/4	2,370.05	1/4	2,731.79	1/4	3,093.45	1/4	3,455.10
1/2	231.54	1/2	588.17	1/2	940.13	1/2	1,294.11	1/2	1,654.01	1/2	2,015.80	1/2	2,377.59	1/2	2,739.33	1/2	3,100.98	1/2	3,462.64
3/4	238.88	3/4	595.71	3/4	947.30	3/4	1,301.65	3/4	1,661.54	3/4	2,023.33	3/4	2,385.12	3/4	2,746.86	3/4	3,108.52	3/4	3,470.17
8	246.21	8	603.25	8	954.47	8	1,309.19	8	1,669.08	8	2,030.87	8	2,392.66	8	2,754.40	8	3,116.05	8	3,477.71
1/4	253.54	1/4	610.79	1/4	961.63	1/4	1,316.73	1/4	1,676.62	1/4	2,038.41	1/4	2,400.20	1/4	2,761.93	1/4	3,123.59	1/4	3,485.24
1/2	260.87	1/2	618.32	1/2	968.80	1/2	1,324.26	1/2	1,684.15	1/2	2,045.94	1/2	2,407.74	1/2	2,769.46	1/2	3,131.12	1/2	3,492.78
3/4	268.20	3/4	625.86	3/4	975.97	3/4	1,331.80	3/4	1,691.69	3/4	2,053.48	3/4	2,415.27	3/4	2,777.00	3/4	3,138.66	3/4	3,500.31
9	275.53	9	633.40	9	983.14	9	1,339.34	9	1,699.23	9	2,061.02	9	2,422.81	9	2,784.53	9	3,146.19	9	3,507.85
1/4	282.86	1/4	640.94	1/4	990.31	1/4	1,346.87	1/4	1,706.77	1/4	2,068.56	1/4	2,430.35	1/4	2,792.07	1/4	3,153.72	1/4	3,515.38
1/2	290.19	1/2	648.47	1/2	997.47	1/2	1,354.41	1/2	1,714.30	1/2	2,076.09	1/2	2,437.88	1/2	2,799.60	1/2	3,161.26	1/2	3,522.91
3/4	297.52	3/4	656.01	3/4	1,004.64	3/4	1,361.95	3/4	1,721.84	3/4	2,083.63	3/4	2,445.42	3/4	2,807.14	3/4	3,168.79	3/4	3,530.45
10	304.85	10	663.55	10	1,011.81	10	1,369.49	10	1,729.38	10	2,091.17	10	2,452.96	10	2,814.67	10	3,176.33	10	3,537.98
1/4	312.18	1/4	671.09	1/4	1,018.98	1/4	1,377.02	1/4	1,736.92	1/4	2,098.71	1/4	2,460.50	1/4	2,822.21	1/4	3,183.86	1/4	3,545.52
1/2	319.51	1/2	678.62	1/2	1,026.14	1/2	1,384.56	1/2	1,744.45	1/2	2,106.24	1/2	2,468.03	1/2	2,829.74	1/2	3,191.40	1/2	3,553.05
3/4	326.84	3/4	686.16	3/4	1,033.31	3/4	1,392.10	3/4	1,751.99	3/4	2,113.78	3/4	2,475.57	3/4	2,837.28	3/4	3,198.93	3/4	3,560.59
11	334.17	11	693.70	11	1,040.48	11	1,399.64	11	1,759.53	11	2,121.32	11	2,483.11	11	2,844.81	11	3,206.47	11	3,568.12
1/4	341.51	1/4	701.23	1/4	1,047.65	1/4	1,407.17	1/4	1,767.06	1/4	2,128.86	1/4	2,490.65	1/4	2,852.34	1/4	3,214.00	1/4	3,575.66
1/2	348.84	1/2	708.77	1/2	1,054.82	1/2	1,414.71	1/2	1,774.60	1/2	2,136.39	1/2	2,498.18	1/2	2,859.88	1/2	3,221.53	1/2	3,583.19
3/4	356.17	3/4	716.31	3/4	1,061.98	3/4	1,422.25	3/4	1,782.14	3/4	2,143.93	3/4	2,505.72	3/4	2,867.41	3/4	3,229.07	3/4	3,590.73

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" 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 "MOC 19"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,598.26	0	3,959.92	0	4,321.57	0	4,683.26	0	5,044.20	0		0		0		0		0	
1/4	3,605.79	1/4	3,967.45	1/4	4,329.11	1/4	4,690.79	1/4	5,051.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,613.33	1/2	3,974.98	1/2	4,336.64	1/2	4,698.33	1/2	5,059.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,620.86	3/4	3,982.52	3/4	4,344.18	3/4	4,705.87	3/4	5,066.69	3/4		3/4		3/4		3/4		3/4	
1	3,628.40	1	3,990.05	1	4,351.71	1	4,713.40	1	5,074.19	1		1		1		1		1	
1/4	3,635.93	1/4	3,997.59	1/4	4,359.24	1/4	4,720.94	1/4	5,081.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,643.47	1/2	4,005.12	1/2	4,366.78	1/2	4,728.48	1/2	5,089.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,651.00	3/4	4,012.66	3/4	4,374.31	3/4	4,736.02	3/4	5,096.56	3/4		3/4		3/4		3/4		3/4	
2	3,658.54	2	4,020.19	2	4,381.85	2	4,743.55	2	5,104.02	2		2		2		2		2	
1/4	3,666.07	1/4	4,027.73	1/4	4,389.38	1/4	4,751.09	1/4	5,111.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,673.60	1/2	4,035.26	1/2	4,396.92	1/2	4,758.63	1/2	5,118.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.14	3/4	4,042.80	3/4	4,404.45	3/4	4,766.17	3/4	5,126.39	3/4		3/4		3/4		3/4		3/4	
3	3,688.67	3	4,050.33	3	4,411.99	3	4,773.70	3	5,133.85	3		3		3		3		3	
1/4	3,696.21	1/4	4,057.86	1/4	4,419.52	1/4	4,781.24	1/4	5,141.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,703.74	1/2	4,065.40	1/2	4,427.05	1/2	4,788.78	1/2	5,148.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,711.28	3/4	4,072.93	3/4	4,434.59	3/4	4,796.32	3/4	5,156.20	3/4		3/4		3/4		3/4		3/4	
4	3,718.81	4	4,080.47	4	4,442.12	4	4,803.85	4	5,163.65	4		4		4		4		4	
1/4	3,726.35	1/4	4,088.00	1/4	4,449.66	1/4	4,811.38	1/4	5,171.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,733.88	1/2	4,095.54	1/2	4,457.19	1/2	4,818.91	1/2	5,178.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,741.42	3/4	4,103.07	3/4	4,464.73	3/4	4,826.44	3/4	5,185.86	3/4		3/4		3/4		3/4		3/4	
5	3,748.95	5	4,110.61	5	4,472.26	5	4,833.97	5	5,193.26	5		5		5		5		5	
1/4	3,756.48	1/4	4,118.14	1/4	4,479.80	1/4	4,841.48	1/4	5,200.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,764.02	1/2	4,125.67	1/2	4,487.33	1/2	4,848.99	1/2	5,207.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,771.55	3/4	4,133.21	3/4	4,494.87	3/4	4,856.50	3/4	5,214.29	3/4		3/4		3/4		3/4		3/4	
6	3,779.09	6	4,140.74	6	4,502.40	6	4,864.01	6	5,221.30	6		6		6		6		6	
1/4	3,786.62	1/4	4,148.28	1/4	4,509.93	1/4	4,871.51	1/4	5,227.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,794.16	1/2	4,155.81	1/2	4,517.47	1/2	4,879.02	1/2	5,233.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,801.69	3/4	4,163.35	3/4	4,525.00	3/4	4,886.53	3/4	5,238.97	3/4		3/4		3/4		3/4		3/4	
7	3,809.23	7	4,170.88	7	4,532.54	7	4,894.04	7	5,244.86	7		7		7		7		7	
1/4	3,816.76	1/4	4,178.42	1/4	4,540.07	1/4	4,901.55	1/4	5,249.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,824.29	1/2	4,185.95	1/2	4,547.61	1/2	4,909.06	1/2	5,254.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,831.83	3/4	4,193.49	3/4	4,555.14	3/4	4,916.56	3/4	5,258.76	3/4		3/4		3/4		3/4		3/4	
8	3,839.36	8	4,201.02	8	4,562.68	8	4,924.07	8		8		8		8		8		8	
1/4	3,846.90	1/4	4,208.55	1/4	4,570.21	1/4	4,931.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,854.43	1/2	4,216.09	1/2	4,577.74	1/2	4,939.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,861.97	3/4	4,223.62	3/4	4,585.28	3/4	4,946.60	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,869.50	9	4,231.16	9	4,592.81	9	4,954.10	9		9		9		9		9		9	
1/4	3,877.04	1/4	4,238.69	1/4	4,600.35	1/4	4,961.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,884.57	1/2	4,246.23	1/2	4,607.88	1/2	4,969.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,892.11	3/4	4,253.76	3/4	4,615.42	3/4	4,976.63	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,899.64	10	4,261.30	10	4,622.95	10	4,984.14	10		10		10		10		10		10	
1/4	3,907.17	1/4	4,268.83	1/4	4,630.49	1/4	4,991.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,914.71	1/2	4,276.36	1/2	4,638.03	1/2	4,999.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,922.24	3/4	4,283.90	3/4	4,645.57	3/4	5,006.66	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,929.78	11	4,291.43	11	4,653.11	11	5,014.17	11		11		11		11		11		11	
1/4	3,937.31	1/4	4,298.97	1/4	4,660.64	1/4	5,021.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,944.85	1/2	4,306.50	1/2	4,668.18	1/2	5,029.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,952.38	3/4	4,314.04	3/4	4,675.72	3/4	5,036.69	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 01/03/2013 CL
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PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "MOC 19"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	27.08	0	361.76	0	720.40	0	1,080.08	0	1,440.07	0	1,797.94	0	2,158.02	0	2,518.10	0	2,878.09	0	3,237.39
1/4	31.74	1/4	369.06	1/4	727.91	1/4	1,087.57	1/4	1,447.54	1/4	1,805.44	1/4	2,165.52	1/4	2,525.60	1/4	2,885.58	1/4	3,244.85
1/2	36.40	1/2	376.35	1/2	735.41	1/2	1,095.06	1/2	1,455.01	1/2	1,812.94	1/2	2,173.02	1/2	2,533.10	1/2	2,893.08	1/2	3,252.31
3/4	41.05	3/4	383.65	3/4	742.91	3/4	1,102.55	3/4	1,462.48	3/4	1,820.44	3/4	2,180.52	3/4	2,540.61	3/4	2,900.58	3/4	3,259.77
1	45.71	1	390.94	1	750.41	1	1,110.04	1	1,469.94	1	1,827.94	1	2,188.03	1	2,548.11	1	2,908.08	1	3,267.23
1/4	51.61	1/4	398.29	1/4	757.91	1/4	1,117.53	1/4	1,477.31	1/4	1,835.45	1/4	2,195.53	1/4	2,555.61	1/4	2,915.58	1/4	3,274.68
1/2	57.52	1/2	405.64	1/2	765.41	1/2	1,125.02	1/2	1,484.67	1/2	1,842.95	1/2	2,203.03	1/2	2,563.11	1/2	2,923.08	1/2	3,282.13
3/4	63.43	3/4	412.99	3/4	772.91	3/4	1,132.51	3/4	1,492.03	3/4	1,850.45	3/4	2,210.53	3/4	2,570.61	3/4	2,930.58	3/4	3,289.59
2	69.33	2	420.33	2	780.42	2	1,140.01	2	1,499.40	2	1,857.95	2	2,218.03	2	2,578.11	2	2,938.08	2	3,297.04
1/4	76.32	1/4	427.83	1/4	787.92	1/4	1,147.51	1/4	1,506.76	1/4	1,865.45	1/4	2,225.53	1/4	2,585.62	1/4	2,945.57	1/4	3,304.42
1/2	83.31	1/2	435.34	1/2	795.42	1/2	1,155.01	1/2	1,514.12	1/2	1,872.95	1/2	2,233.04	1/2	2,593.12	1/2	2,953.07	1/2	3,311.79
3/4	90.31	3/4	442.84	3/4	802.92	3/4	1,162.51	3/4	1,521.49	3/4	1,880.46	3/4	2,240.54	3/4	2,600.62	3/4	2,960.56	3/4	3,319.17
3	97.30	3	450.34	3	810.42	3	1,170.01	3	1,528.85	3	1,887.96	3	2,248.04	3	2,608.12	3	2,968.06	3	3,326.55
1/4	104.74	1/4	457.84	1/4	817.92	1/4	1,177.52	1/4	1,536.21	1/4	1,895.46	1/4	2,255.54	1/4	2,615.62	1/4	2,975.55	1/4	3,333.57
1/2	112.18	1/2	465.34	1/2	825.42	1/2	1,185.02	1/2	1,543.57	1/2	1,902.96	1/2	2,263.04	1/2	2,623.12	1/2	2,983.03	1/2	3,340.60
3/4	119.62	3/4	472.84	3/4	832.92	3/4	1,192.52	3/4	1,550.94	3/4	1,910.46	3/4	2,270.54	3/4	2,630.62	3/4	2,990.51	3/4	3,347.63
4	127.06	4	480.35	4	840.41	4	1,200.02	4	1,558.30	4	1,917.97	4	2,278.05	4	2,638.12	4	2,998.00	4	3,354.65
1/4	134.53	1/4	487.85	1/4	847.90	1/4	1,207.52	1/4	1,565.70	1/4	1,925.47	1/4	2,285.55	1/4	2,645.62	1/4	3,005.48	1/4	3,361.10
1/2	141.99	1/2	495.35	1/2	855.39	1/2	1,215.02	1/2	1,573.10	1/2	1,932.97	1/2	2,293.05	1/2	2,653.12	1/2	3,012.97	1/2	3,367.55
3/4	149.46	3/4	502.85	3/4	862.88	3/4	1,222.53	3/4	1,580.49	3/4	1,940.47	3/4	2,300.55	3/4	2,660.62	3/4	3,020.45	3/4	3,374.00
5	156.93	5	510.35	5	870.37	5	1,230.03	5	1,587.89	5	1,947.97	5	2,308.05	5	2,668.12	5	3,027.94	5	3,380.44
1/4	164.36	1/4	517.86	1/4	877.86	1/4	1,237.53	1/4	1,595.39	1/4	1,955.47	1/4	2,315.56	1/4	2,675.62	1/4	3,035.42	1/4	3,386.31
1/2	171.80	1/2	525.36	1/2	885.35	1/2	1,245.03	1/2	1,602.89	1/2	1,962.98	1/2	2,323.06	1/2	2,683.11	1/2	3,042.91	1/2	3,392.18
3/4	179.24	3/4	532.86	3/4	892.84	3/4	1,252.53	3/4	1,610.40	3/4	1,970.48	3/4	2,330.56	3/4	2,690.61	3/4	3,050.39	3/4	3,398.05
6	186.68	6	540.36	6	900.33	6	1,260.03	6	1,617.90	6	1,977.98	6	2,338.06	6	2,698.11	6	3,057.87	6	3,403.92
1/4	193.97	1/4	547.86	1/4	907.82	1/4	1,267.54	1/4	1,625.40	1/4	1,985.48	1/4	2,345.56	1/4	2,705.61	1/4	3,065.36	1/4	3,409.20
1/2	201.27	1/2	555.36	1/2	915.31	1/2	1,275.04	1/2	1,632.90	1/2	1,992.98	1/2	2,353.06	1/2	2,713.11	1/2	3,072.84	1/2	3,414.49
3/4	208.56	3/4	562.87	3/4	922.80	3/4	1,282.54	3/4	1,640.40	3/4	2,000.48	3/4	2,360.57	3/4	2,720.61	3/4	3,080.33	3/4	3,419.78
7	215.86	7	570.37	7	930.29	7	1,290.04	7	1,647.90	7	2,007.99	7	2,368.07	7	2,728.11	7	3,087.81	7	3,425.07
1/4	223.15	1/4	577.87	1/4	937.78	1/4	1,297.54	1/4	1,655.41	1/4	2,015.49	1/4	2,375.57	1/4	2,735.61	1/4	3,095.30	1/4	3,429.78
1/2	230.45	1/2	585.37	1/2	945.27	1/2	1,305.04	1/2	1,662.91	1/2	2,022.99	1/2	2,383.07	1/2	2,743.11	1/2	3,102.78	1/2	3,434.49
3/4	237.74	3/4	592.87	3/4	952.76	3/4	1,312.55	3/4	1,670.41	3/4	2,030.49	3/4	2,390.57	3/4	2,750.60	3/4	3,110.27	3/4	3,439.20
8	245.04	8	600.38	8	960.25	8	1,320.05	8	1,677.91	8	2,037.99	8	2,398.07	8	2,758.10	8	3,117.75	8	3,443.90
1/4	252.33	1/4	607.88	1/4	967.74	1/4	1,327.55	1/4	1,685.41	1/4	2,045.49	1/4	2,405.58	1/4	2,765.60	1/4	3,125.24	1/4	3,448.11
1/2	259.63	1/2	615.38	1/2	975.23	1/2	1,335.05	1/2	1,692.91	1/2	2,053.00	1/2	2,413.08	1/2	2,773.10	1/2	3,132.72	1/2	3,452.33
3/4	266.92	3/4	622.88	3/4	982.72	3/4	1,342.55	3/4	1,700.42	3/4	2,060.50	3/4	2,420.58	3/4	2,780.60	3/4	3,140.20	3/4	3,456.54
9	274.22	9	630.38	9	990.21	9	1,350.05	9	1,707.92	9	2,068.00	9	2,428.08	9	2,788.10	9	3,147.69	9	3,460.75
1/4	281.51	1/4	637.88	1/4	997.69	1/4	1,357.56	1/4	1,715.42	1/4	2,075.50	1/4	2,435.58	1/4	2,795.60	1/4	3,155.17	1/4	3,464.77
1/2	288.81	1/2	645.39	1/2	1,005.18	1/2	1,365.06	1/2	1,722.92	1/2	2,083.00	1/2	2,443.08	1/2	2,803.10	1/2	3,162.66	1/2	3,468.79
3/4	296.10	3/4	652.89	3/4	1,012.67	3/4	1,372.56	3/4	1,730.42	3/4	2,090.50	3/4	2,450.59	3/4	2,810.60	3/4	3,170.14	3/4	3,472.81
10	303.40	10	660.39	10	1,020.16	10	1,380.06	10	1,737.92	10	2,098.01	10	2,458.09	10	2,818.09	10	3,177.63	10	3,476.83
1/4	310.70	1/4	667.89	1/4	1,027.65	1/4	1,387.56	1/4	1,745.43	1/4	2,105.51	1/4	2,465.59	1/4	2,825.59	1/4	3,185.10	1/4	3,480.85
1/2	317.99	1/2	675.39	1/2	1,035.14	1/2	1,395.06	1/2	1,752.93	1/2	2,113.01	1/2	2,473.09	1/2	2,833.09	1/2	3,192.58	1/2	3,484.87
3/4	325.29	3/4	682.90	3/4	1,042.63	3/4	1,402.57	3/4	1,760.43	3/4	2,120.51	3/4	2,480.59	3/4	2,840.59	3/4	3,200.06	3/4	3,488.90
11	332.58	11	690.40	11	1,050.12	11	1,410.07	11	1,767.93	11	2,128.01	11	2,488.09	11	2,848.09	11	3,207.54	11	3,492.92
1/4	339.88	1/4	697.90	1/4	1,057.61	1/4	1,417.57	1/4	1,775.43	1/4	2,135.51	1/4	2,495.60	1/4	2,855.59	1/4	3,215.00	1/4	3,496.94
1/2	347.17	1/2	705.40	1/2	1,065.10	1/2	1,425.07	1/2	1,782.93	1/2	2,143.02	1/2	2,503.10	1/2	2,863.09	1/2	3,222.46	1/2	3,500.96
3/4	354.47	3/4	712.90	3/4	1,072.59	3/4	1,432.57	3/4	1,790.44	3/4	2,150.52	3/4	2,510.60	3/4	2,870.59	3/4	3,229.92	3/4	3,504.98

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 55'-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 "MOC 19"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	3,509.00	0	3,702.03	0	3,895.06	0	4,088.09	0	4,280.83	0		0		0		0		0	
1/4	3,513.02	1/4	3,706.05	1/4	3,899.08	1/4	4,092.12	1/4	4,284.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,517.05	1/2	3,710.07	1/2	3,903.10	1/2	4,096.14	1/2	4,288.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,521.07	3/4	3,714.09	3/4	3,907.12	3/4	4,100.16	3/4	4,292.84	3/4		3/4		3/4		3/4		3/4	
1	3,525.09	1	3,718.12	1	3,911.14	1	4,104.19	1	4,296.84	1		1		1		1		1	
1 1/4	3,529.11	1 1/4	3,722.14	1 1/4	3,915.16	1 1/4	4,108.21	1 1/4	4,300.82	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,533.13	1 1/2	3,726.16	1 1/2	3,919.19	1 1/2	4,112.24	1 1/2	4,304.81	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,537.15	3 1/4	3,730.18	3 1/4	3,923.21	3 1/4	4,116.26	3 1/4	4,308.79	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
2	3,541.17	2	3,734.20	2	3,927.23	2	4,120.29	2	4,312.77	2		2		2		2		2	
1 1/4	3,545.20	1 1/4	3,738.22	1 1/4	3,931.25	1 1/4	4,124.31	1 1/4	4,316.75	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,549.22	1 1/2	3,742.24	1 1/2	3,935.27	1 1/2	4,128.33	1 1/2	4,320.74	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,553.24	3 1/4	3,746.27	3 1/4	3,939.29	3 1/4	4,132.36	3 1/4	4,324.72	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3	3,557.26	3	3,750.29	3	3,943.31	3	4,136.38	3	4,328.70	3		3		3		3		3	
1 1/4	3,561.28	1 1/4	3,754.31	1 1/4	3,947.34	1 1/4	4,140.41	1 1/4	4,332.68	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,565.30	1 1/2	3,758.33	1 1/2	3,951.36	1 1/2	4,144.43	1 1/2	4,336.66	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,569.32	3 1/4	3,762.35	3 1/4	3,955.38	3 1/4	4,148.45	3 1/4	4,340.64	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
4	3,573.35	4	3,766.37	4	3,959.40	4	4,152.48	4	4,344.62	4		4		4		4		4	
1 1/4	3,577.37	1 1/4	3,770.39	1 1/4	3,963.42	1 1/4	4,156.50	1 1/4	4,348.57	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,581.39	1 1/2	3,774.42	1 1/2	3,967.44	1 1/2	4,160.52	1 1/2	4,352.53	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,585.41	3 1/4	3,778.44	3 1/4	3,971.46	3 1/4	4,164.54	3 1/4	4,356.48	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
5	3,589.43	5	3,782.46	5	3,975.49	5	4,168.56	5	4,360.43	5		5		5		5		5	
1 1/4	3,593.45	1 1/4	3,786.48	1 1/4	3,979.51	1 1/4	4,172.57	1 1/4	4,364.17	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,597.47	1 1/2	3,790.50	1 1/2	3,983.53	1 1/2	4,176.58	1 1/2	4,367.92	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,601.50	3 1/4	3,794.52	3 1/4	3,987.55	3 1/4	4,180.59	3 1/4	4,371.66	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
6	3,605.52	6	3,798.54	6	3,991.57	6	4,184.60	6	4,375.41	6		6		6		6		6	
1 1/4	3,609.54	1 1/4	3,802.57	1 1/4	3,995.59	1 1/4	4,188.61	1 1/4	4,378.55	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,613.56	1 1/2	3,806.59	1 1/2	3,999.61	1 1/2	4,192.62	1 1/2	4,381.70	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,617.58	3 1/4	3,810.61	3 1/4	4,003.64	3 1/4	4,196.63	3 1/4	4,384.84	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
7	3,621.60	7	3,814.63	7	4,007.66	7	4,200.64	7	4,387.99	7		7		7		7		7	
1 1/4	3,625.62	1 1/4	3,818.65	1 1/4	4,011.68	1 1/4	4,204.65	1 1/4	4,390.46	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,629.65	1 1/2	3,822.67	1 1/2	4,015.70	1 1/2	4,208.66	1 1/2	4,392.94	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,633.67	3 1/4	3,826.69	3 1/4	4,019.72	3 1/4	4,212.67	3 1/4	4,395.41	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
8	3,637.69	8	3,830.72	8	4,023.74	8	4,216.68	8		8		8		8		8		8	
1 1/4	3,641.71	1 1/4	3,834.74	1 1/4	4,027.76	1 1/4	4,220.68	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,645.73	1 1/2	3,838.76	1 1/2	4,031.79	1 1/2	4,224.69	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,649.75	3 1/4	3,842.78	3 1/4	4,035.81	3 1/4	4,228.70	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
9	3,653.77	9	3,846.80	9	4,039.83	9	4,232.71	9		9		9		9		9		9	
1 1/4	3,657.80	1 1/4	3,850.82	1 1/4	4,043.85	1 1/4	4,236.72	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,661.82	1 1/2	3,854.84	1 1/2	4,047.87	1 1/2	4,240.73	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,665.84	3 1/4	3,858.87	3 1/4	4,051.89	3 1/4	4,244.74	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
10	3,669.86	10	3,862.89	10	4,055.91	10	4,248.75	10		10		10		10		10		10	
1 1/4	3,673.88	1 1/4	3,866.91	1 1/4	4,059.93	1 1/4	4,252.76	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,677.90	1 1/2	3,870.93	1 1/2	4,063.95	1 1/2	4,256.77	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,681.92	3 1/4	3,874.95	3 1/4	4,067.97	3 1/4	4,260.78	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
11	3,685.95	11	3,878.97	11	4,072.00	11	4,264.79	11		11		11		11		11		11	
1 1/4	3,689.97	1 1/4	3,882.99	1 1/4	4,076.02	1 1/4	4,268.80	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,693.99	1 1/2	3,887.02	1 1/2	4,080.04	1 1/2	4,272.81	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3 1/4	3,698.01	3 1/4	3,891.04	3 1/4	4,084.07	3 1/4	4,276.82	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2013 CL
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "MOC 19"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	27.09	0	361.42	0	719.57	0	1,058.45	0	1,415.36	0	1,772.62	0	2,132.10	0	2,491.58	0	2,851.00	0	3,209.77
1/4	31.75	1/4	368.71	1/4	726.96	1/4	1,065.56	1/4	1,422.81	1/4	1,780.10	1/4	2,139.59	1/4	2,499.07	1/4	2,858.48	1/4	3,217.22
1/2	36.40	1/2	375.99	1/2	734.34	1/2	1,072.68	1/2	1,430.26	1/2	1,787.59	1/2	2,147.08	1/2	2,506.56	1/2	2,865.97	1/2	3,224.67
3/4	41.06	3/4	383.28	3/4	741.73	3/4	1,079.80	3/4	1,437.72	3/4	1,795.08	3/4	2,154.56	3/4	2,514.05	3/4	2,873.46	3/4	3,232.11
1	45.72	1	390.56	1	749.11	1	1,086.92	1	1,445.17	1	1,802.57	1	2,162.05	1	2,521.54	1	2,880.94	1	3,239.56
1/4	51.62	1/4	397.90	1/4	756.18	1/4	1,094.36	1/4	1,452.52	1/4	1,810.06	1/4	2,169.54	1/4	2,529.02	1/4	2,888.43	1/4	3,247.01
1/2	57.53	1/2	405.24	1/2	763.25	1/2	1,101.80	1/2	1,459.87	1/2	1,817.55	1/2	2,177.03	1/2	2,536.51	1/2	2,895.91	1/2	3,254.45
3/4	63.44	3/4	412.57	3/4	770.32	3/4	1,109.24	3/4	1,467.22	3/4	1,825.04	3/4	2,184.52	3/4	2,544.00	3/4	2,903.40	3/4	3,261.89
2	69.35	2	419.91	2	777.39	2	1,116.68	2	1,474.58	2	1,832.53	2	2,192.01	2	2,551.49	2	2,910.89	2	3,269.34
1/4	76.34	1/4	427.40	1/4	784.45	1/4	1,124.13	1/4	1,481.93	1/4	1,840.02	1/4	2,199.50	1/4	2,558.98	1/4	2,918.37	1/4	3,276.70
1/2	83.33	1/2	434.89	1/2	791.52	1/2	1,131.58	1/2	1,489.28	1/2	1,847.51	1/2	2,206.99	1/2	2,566.47	1/2	2,925.86	1/2	3,284.07
3/4	90.32	3/4	442.38	3/4	798.59	3/4	1,139.04	3/4	1,496.63	3/4	1,855.00	3/4	2,214.48	3/4	2,573.96	3/4	2,933.34	3/4	3,291.43
3	97.31	3	449.88	3	805.66	3	1,146.49	3	1,503.98	3	1,862.49	3	2,221.97	3	2,581.45	3	2,940.83	3	3,298.80
1/4	104.74	1/4	457.37	1/4	812.72	1/4	1,153.96	1/4	1,511.33	1/4	1,869.97	1/4	2,229.46	1/4	2,588.94	1/4	2,948.30	1/4	3,305.81
1/2	112.18	1/2	464.86	1/2	819.79	1/2	1,161.42	1/2	1,518.68	1/2	1,877.46	1/2	2,236.95	1/2	2,596.43	1/2	2,955.77	1/2	3,312.83
3/4	119.61	3/4	472.35	3/4	826.85	3/4	1,168.89	3/4	1,526.03	3/4	1,884.95	3/4	2,244.43	3/4	2,603.92	3/4	2,963.25	3/4	3,319.85
4	127.05	4	479.84	4	833.92	4	1,176.36	4	1,533.38	4	1,892.44	4	2,251.92	4	2,611.41	4	2,970.72	4	3,326.86
1/4	134.51	1/4	487.33	1/4	840.96	1/4	1,183.83	1/4	1,540.76	1/4	1,899.93	1/4	2,259.41	1/4	2,618.89	1/4	2,978.19	1/4	3,333.30
1/2	141.96	1/2	494.83	1/2	848.01	1/2	1,191.30	1/2	1,548.15	1/2	1,907.42	1/2	2,266.90	1/2	2,626.38	1/2	2,985.67	1/2	3,339.73
3/4	149.42	3/4	502.32	3/4	855.05	3/4	1,198.76	3/4	1,555.53	3/4	1,914.91	3/4	2,274.39	3/4	2,633.87	3/4	2,993.14	3/4	3,346.17
5	156.87	5	509.81	5	862.10	5	1,206.23	5	1,562.92	5	1,922.40	5	2,281.88	5	2,641.36	5	3,000.62	5	3,352.61
1/4	164.30	1/4	517.30	1/4	869.11	1/4	1,213.70	1/4	1,570.41	1/4	1,929.89	1/4	2,289.37	1/4	2,648.85	1/4	3,008.09	1/4	3,358.46
1/2	171.73	1/2	524.79	1/2	876.12	1/2	1,221.17	1/2	1,577.90	1/2	1,937.38	1/2	2,296.86	1/2	2,656.34	1/2	3,015.56	1/2	3,364.32
3/4	179.16	3/4	532.28	3/4	883.13	3/4	1,228.64	3/4	1,585.39	3/4	1,944.87	3/4	2,304.35	3/4	2,663.83	3/4	3,023.04	3/4	3,370.18
6	186.58	6	539.78	6	890.15	6	1,236.10	6	1,592.87	6	1,952.36	6	2,311.84	6	2,671.32	6	3,030.51	6	3,376.03
1/4	193.87	1/4	547.27	1/4	897.16	1/4	1,243.57	1/4	1,600.36	1/4	1,959.85	1/4	2,319.33	1/4	2,678.81	1/4	3,037.98	1/4	3,381.31
1/2	201.15	1/2	554.76	1/2	904.17	1/2	1,251.04	1/2	1,607.85	1/2	1,967.33	1/2	2,326.82	1/2	2,686.30	1/2	3,045.46	1/2	3,386.59
3/4	208.44	3/4	562.25	3/4	911.18	3/4	1,258.51	3/4	1,615.34	3/4	1,974.82	3/4	2,334.31	3/4	2,693.79	3/4	3,052.93	3/4	3,391.87
7	215.72	7	569.74	7	918.20	7	1,265.98	7	1,622.83	7	1,982.31	7	2,341.79	7	2,701.28	7	3,060.40	7	3,397.15
1/4	223.01	1/4	577.23	1/4	925.21	1/4	1,273.44	1/4	1,630.32	1/4	1,989.80	1/4	2,349.28	1/4	2,708.76	1/4	3,067.88	1/4	3,401.86
1/2	230.29	1/2	584.73	1/2	932.22	1/2	1,280.91	1/2	1,637.81	1/2	1,997.29	1/2	2,356.77	1/2	2,716.25	1/2	3,075.35	1/2	3,406.57
3/4	237.58	3/4	592.22	3/4	939.23	3/4	1,288.38	3/4	1,645.30	3/4	2,004.78	3/4	2,364.26	3/4	2,723.74	3/4	3,082.83	3/4	3,411.27
8	244.86	8	599.71	8	946.25	8	1,295.85	8	1,652.79	8	2,012.27	8	2,371.75	8	2,731.23	8	3,090.30	8	3,415.98
1/4	252.15	1/4	607.20	1/4	953.26	1/4	1,303.32	1/4	1,660.28	1/4	2,019.76	1/4	2,379.24	1/4	2,738.71	1/4	3,097.77	1/4	3,420.19
1/2	259.43	1/2	614.69	1/2	960.27	1/2	1,310.78	1/2	1,667.77	1/2	2,027.25	1/2	2,386.73	1/2	2,746.20	1/2	3,105.25	1/2	3,424.40
3/4	266.72	3/4	622.18	3/4	967.28	3/4	1,318.25	3/4	1,675.26	3/4	2,034.74	3/4	2,394.22	3/4	2,753.69	3/4	3,112.72	3/4	3,428.62
9	274.00	9	629.68	9	974.30	9	1,325.72	9	1,682.74	9	2,042.23	9	2,401.71	9	2,761.17	9	3,120.19	9	3,432.83
1/4	281.29	1/4	637.17	1/4	981.31	1/4	1,333.19	1/4	1,690.23	1/4	2,049.72	1/4	2,409.20	1/4	2,768.66	1/4	3,127.67	1/4	3,436.85
1/2	288.57	1/2	644.66	1/2	988.32	1/2	1,340.65	1/2	1,697.72	1/2	2,057.20	1/2	2,416.69	1/2	2,776.14	1/2	3,135.14	1/2	3,440.87
3/4	295.86	3/4	652.15	3/4	995.33	3/4	1,348.12	3/4	1,705.21	3/4	2,064.69	3/4	2,424.18	3/4	2,783.63	3/4	3,142.62	3/4	3,444.90
10	303.14	10	659.64	10	1,002.35	10	1,355.59	10	1,712.70	10	2,072.18	10	2,431.66	10	2,791.11	10	3,150.09	10	3,448.92
1/4	310.43	1/4	667.13	1/4	1,009.36	1/4	1,363.06	1/4	1,720.19	1/4	2,079.67	1/4	2,439.15	1/4	2,798.60	1/4	3,157.56	1/4	3,452.94
1/2	317.71	1/2	674.63	1/2	1,016.37	1/2	1,370.53	1/2	1,727.68	1/2	2,087.16	1/2	2,446.64	1/2	2,806.09	1/2	3,165.03	1/2	3,456.97
3/4	325.00	3/4	682.12	3/4	1,023.38	3/4	1,377.99	3/4	1,735.17	3/4	2,094.65	3/4	2,454.13	3/4	2,813.57	3/4	3,172.49	3/4	3,460.99
11	332.28	11	689.61	11	1,030.40	11	1,385.46	11	1,742.66	11	2,102.14	11	2,461.62	11	2,821.06	11	3,179.96	11	3,465.01
1/4	339.57	1/4	697.10	1/4	1,037.41	1/4	1,392.94	1/4	1,750.15	1/4	2,109.63	1/4	2,469.11	1/4	2,828.54	1/4	3,187.41	1/4	3,469.04
1/2	346.85	1/2	704.59	1/2	1,044.42	1/2	1,400.41	1/2	1,757.64	1/2	2,117.12	1/2	2,476.60	1/2	2,836.03	1/2	3,194.86	1/2	3,473.06
3/4	354.14	3/4	712.08	3/4	1,051.43	3/4	1,407.88	3/4	1,765.13	3/4	2,124.61	3/4	2,484.09	3/4	2,843.51	3/4	3,202.32	3/4	3,477.08

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 55'-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 "MOC 19"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,481.10	0	3,674.22	0	3,867.33	0	4,060.45	0	4,253.14	0		0		0		0		0	
1/4	3,485.13	1/4	3,678.24	1/4	3,871.36	1/4	4,064.47	1/4	4,257.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,489.15	1/2	3,682.26	1/2	3,875.38	1/2	4,068.49	1/2	4,261.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,493.17	3/4	3,686.29	3/4	3,879.40	3/4	4,072.52	3/4	4,265.15	3/4		3/4		3/4		3/4		3/4	
1	3,497.20	1	3,690.31	1	3,883.42	1	4,076.54	1	4,269.15	1		1		1		1		1	
1/4	3,501.22	1/4	3,694.33	1/4	3,887.45	1/4	4,080.56	1/4	4,273.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,505.24	1/2	3,698.36	1/2	3,891.47	1/2	4,084.58	1/2	4,277.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,509.27	3/4	3,702.38	3/4	3,895.49	3/4	4,088.61	3/4	4,281.10	3/4		3/4		3/4		3/4		3/4	
2	3,513.29	2	3,706.40	2	3,899.52	2	4,092.63	2	4,285.08	2		2		2		2		2	
1/4	3,517.31	1/4	3,710.43	1/4	3,903.54	1/4	4,096.65	1/4	4,289.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,521.34	1/2	3,714.45	1/2	3,907.56	1/2	4,100.68	1/2	4,293.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,525.36	3/4	3,718.47	3/4	3,911.59	3/4	4,104.70	3/4	4,297.02	3/4		3/4		3/4		3/4		3/4	
3	3,529.38	3	3,722.50	3	3,915.61	3	4,108.72	3	4,301.01	3		3		3		3		3	
1/4	3,533.41	1/4	3,726.52	1/4	3,919.63	1/4	4,112.75	1/4	4,304.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,537.43	1/2	3,730.54	1/2	3,923.66	1/2	4,116.77	1/2	4,308.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,541.45	3/4	3,734.57	3/4	3,927.68	3/4	4,120.79	3/4	4,312.94	3/4		3/4		3/4		3/4		3/4	
4	3,545.48	4	3,738.59	4	3,931.70	4	4,124.82	4	4,316.92	4		4		4		4		4	
1/4	3,549.50	1/4	3,742.61	1/4	3,935.73	1/4	4,128.84	1/4	4,320.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,553.52	1/2	3,746.64	1/2	3,939.75	1/2	4,132.86	1/2	4,324.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,557.55	3/4	3,750.66	3/4	3,943.77	3/4	4,136.88	3/4	4,328.77	3/4		3/4		3/4		3/4		3/4	
5	3,561.57	5	3,754.68	5	3,947.80	5	4,140.90	5	4,332.73	5		5		5		5		5	
1/4	3,565.59	1/4	3,758.71	1/4	3,951.82	1/4	4,144.91	1/4	4,336.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,569.62	1/2	3,762.73	1/2	3,955.84	1/2	4,148.92	1/2	4,340.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,573.64	3/4	3,766.75	3/4	3,959.87	3/4	4,152.93	3/4	4,343.95	3/4		3/4		3/4		3/4		3/4	
6	3,577.66	6	3,770.78	6	3,963.89	6	4,156.93	6	4,347.70	6		6		6		6		6	
1/4	3,581.68	1/4	3,774.80	1/4	3,967.91	1/4	4,160.94	1/4	4,350.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,585.71	1/2	3,778.82	1/2	3,971.94	1/2	4,164.95	1/2	4,353.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.73	3/4	3,782.84	3/4	3,975.96	3/4	4,168.96	3/4	4,357.13	3/4		3/4		3/4		3/4		3/4	
7	3,593.75	7	3,786.87	7	3,979.98	7	4,172.97	7	4,360.28	7		7		7		7		7	
1/4	3,597.78	1/4	3,790.89	1/4	3,984.00	1/4	4,176.98	1/4	4,362.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.80	1/2	3,794.91	1/2	3,988.03	1/2	4,180.99	1/2	4,365.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,605.82	3/4	3,798.94	3/4	3,992.05	3/4	4,185.00	3/4	4,367.70	3/4		3/4		3/4		3/4		3/4	
8	3,609.85	8	3,802.96	8	3,996.07	8	4,189.00	8		8		8		8		8		8	
1/4	3,613.87	1/4	3,806.98	1/4	4,000.10	1/4	4,193.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,617.89	1/2	3,811.01	1/2	4,004.12	1/2	4,197.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,621.92	3/4	3,815.03	3/4	4,008.14	3/4	4,201.03	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,625.94	9	3,819.05	9	4,012.17	9	4,205.04	9		9		9		9		9		9	
1/4	3,629.96	1/4	3,823.08	1/4	4,016.19	1/4	4,209.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,633.99	1/2	3,827.10	1/2	4,020.21	1/2	4,213.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,638.01	3/4	3,831.12	3/4	4,024.24	3/4	4,217.06	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,642.03	10	3,835.15	10	4,028.26	10	4,221.07	10		10		10		10		10		10	
1/4	3,646.06	1/4	3,839.17	1/4	4,032.28	1/4	4,225.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,650.08	1/2	3,843.19	1/2	4,036.31	1/2	4,229.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,654.10	3/4	3,847.22	3/4	4,040.33	3/4	4,233.10	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,658.13	11	3,851.24	11	4,044.35	11	4,237.11	11		11		11		11		11		11	
1/4	3,662.15	1/4	3,855.26	1/4	4,048.38	1/4	4,241.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,666.17	1/2	3,859.29	1/2	4,052.40	1/2	4,245.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,670.20	3/4	3,863.31	3/4	4,056.42	3/4	4,249.13	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 01/03/2013 CL
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MOC 19"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/8	00-1/8	- 00-1/8	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
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	- 00-3/8	00-3/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
3 PORT	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2
3 STBD	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

January 3, 2013

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

<http://www.pmacorp.net>



BARGE "MOC 19"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"																	
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	0	0	0	0	4,984.66	0	4,622.53	0	4,260.02	0	3,897.51	0	3,535.00	0	3,172.49	0	2,809.98
1/4	1/4	1/4	1/4	1/4	4,977.13	1/4	4,614.98	1/4	4,252.47	1/4	3,889.96	1/4	3,527.45	1/4	3,164.94	1/4	2,802.43
1/2	1/2	1/2	1/2	1/2	4,969.60	1/2	4,607.43	1/2	4,244.92	1/2	3,882.41	1/2	3,519.90	1/2	3,157.39	1/2	2,794.88
3/4	3/4	3/4	3/4	3/4	4,962.08	3/4	4,599.87	3/4	4,237.36	3/4	3,874.85	3/4	3,512.34	3/4	3,149.83	3/4	2,787.32
1	1	1	1	1	4,954.55	1	4,592.32	1	4,229.81	1	3,867.30	1	3,504.79	1	3,142.28	1	2,779.77
1/4	1/4	1/4	1/4	1/4	5,290.03	1/4	4,947.03	1/4	4,584.77	1/4	4,222.26	1/4	3,859.75	1/4	3,497.24	1/4	3,134.73
1/2	1/2	1/2	1/2	1/2	5,285.39	1/2	4,939.50	1/2	4,577.22	1/2	4,214.71	1/2	3,852.20	1/2	3,489.69	1/2	3,127.18
3/4	3/4	3/4	3/4	3/4	5,280.74	3/4	4,931.97	3/4	4,569.67	3/4	4,207.16	3/4	3,844.64	3/4	3,482.13	3/4	3,119.62
2	2	2	2	2	5,276.10	2	4,924.45	2	4,562.11	2	4,199.60	2	3,837.09	2	3,474.58	2	3,112.07
1/4	1/4	1/4	1/4	1/4	5,270.19	1/4	4,916.92	1/4	4,554.56	1/4	4,192.05	1/4	3,829.54	1/4	3,467.03	1/4	3,104.52
1/2	1/2	1/2	1/2	1/2	5,264.29	1/2	4,909.40	1/2	4,547.01	1/2	4,184.50	1/2	3,821.99	1/2	3,459.48	1/2	3,096.97
3/4	3/4	3/4	3/4	3/4	5,258.39	3/4	4,901.87	3/4	4,539.46	3/4	4,176.95	3/4	3,814.44	3/4	3,451.93	3/4	3,089.41
3	3	3	3	3	5,252.48	3	4,894.34	3	4,531.90	3	4,169.39	3	3,806.88	3	3,444.37	3	3,081.86
1/4	1/4	1/4	1/4	1/4	5,245.45	1/4	4,886.82	1/4	4,524.35	1/4	4,161.84	1/4	3,799.33	1/4	3,436.82	1/4	3,074.31
1/2	1/2	1/2	1/2	1/2	5,238.43	1/2	4,879.29	1/2	4,516.80	1/2	4,154.29	1/2	3,791.78	1/2	3,429.27	1/2	3,066.76
3/4	3/4	3/4	3/4	3/4	5,231.40	3/4	4,871.77	3/4	4,509.25	3/4	4,146.74	3/4	3,784.23	3/4	3,421.72	3/4	3,059.21
4	4	4	4	4	5,224.37	4	4,864.24	4	4,501.70	4	4,139.18	4	3,776.67	4	3,414.16	4	3,051.65
1/4	1/4	1/4	1/4	1/4	5,216.96	1/4	4,856.69	1/4	4,494.14	1/4	4,131.63	1/4	3,769.12	1/4	3,406.61	1/4	3,044.10
1/2	1/2	1/2	1/2	1/2	5,209.54	1/2	4,849.14	1/2	4,486.59	1/2	4,124.08	1/2	3,761.57	1/2	3,399.06	1/2	3,036.55
3/4	3/4	3/4	3/4	3/4	5,202.12	3/4	4,841.60	3/4	4,479.04	3/4	4,116.53	3/4	3,754.02	3/4	3,391.51	3/4	3,029.00
5	5	5	5	5	5,194.70	5	4,834.05	5	4,471.49	5	4,108.98	5	3,746.47	5	3,383.95	5	3,021.44
1/4	1/4	1/4	1/4	1/4	5,187.23	1/4	4,826.49	1/4	4,463.93	1/4	4,101.42	1/4	3,738.91	1/4	3,376.40	1/4	3,013.89
1/2	1/2	1/2	1/2	1/2	5,179.76	1/2	4,818.94	1/2	4,456.38	1/2	4,093.87	1/2	3,731.36	1/2	3,368.85	1/2	3,006.34
3/4	3/4	3/4	3/4	3/4	5,172.30	3/4	4,811.38	3/4	4,448.83	3/4	4,086.32	3/4	3,723.81	3/4	3,361.30	3/4	2,998.79
6	6	6	6	6	5,164.83	6	4,803.83	6	4,441.28	6	4,078.77	6	3,716.26	6	3,353.75	6	2,991.24
1/4	1/4	1/4	1/4	1/4	5,157.35	1/4	4,796.27	1/4	4,433.72	1/4	4,071.21	1/4	3,708.70	1/4	3,346.19	1/4	2,983.68
1/2	1/2	1/2	1/2	1/2	5,149.88	1/2	4,788.72	1/2	4,426.17	1/2	4,063.66	1/2	3,701.15	1/2	3,338.64	1/2	2,976.13
3/4	3/4	3/4	3/4	3/4	5,142.40	3/4	4,781.16	3/4	4,418.62	3/4	4,056.11	3/4	3,693.60	3/4	3,331.09	3/4	2,968.58
7	7	7	7	7	5,134.93	7	4,773.61	7	4,411.07	7	4,048.56	7	3,686.05	7	3,323.54	7	2,961.03
1/4	1/4	1/4	1/4	1/4	5,127.45	1/4	4,766.05	1/4	4,403.52	1/4	4,041.00	1/4	3,678.49	1/4	3,315.98	1/4	2,953.47
1/2	1/2	1/2	1/2	1/2	5,119.97	1/2	4,758.50	1/2	4,395.96	1/2	4,033.45	1/2	3,670.94	1/2	3,308.43	1/2	2,945.92
3/4	3/4	3/4	3/4	3/4	5,112.50	3/4	4,750.94	3/4	4,388.41	3/4	4,025.90	3/4	3,663.39	3/4	3,300.88	3/4	2,938.37
8	8	8	8	8	5,105.02	8	4,743.39	8	4,380.86	8	4,018.35	8	3,655.84	8	3,293.33	8	2,930.82
1/4	1/4	1/4	1/4	1/4	5,097.51	1/4	4,735.83	1/4	4,373.31	1/4	4,010.80	1/4	3,648.29	1/4	3,285.77	1/4	2,923.26
1/2	1/2	1/2	1/2	1/2	5,089.99	1/2	4,728.28	1/2	4,365.75	1/2	4,003.24	1/2	3,640.73	1/2	3,278.22	1/2	2,915.71
3/4	3/4	3/4	3/4	3/4	5,082.48	3/4	4,720.72	3/4	4,358.20	3/4	3,995.69	3/4	3,633.18	3/4	3,270.67	3/4	2,908.16
9	9	9	9	9	5,074.97	9	4,713.17	9	4,350.65	9	3,988.14	9	3,625.63	9	3,263.12	9	2,900.61
1/4	1/4	1/4	1/4	1/4	5,067.44	1/4	4,705.61	1/4	4,343.10	1/4	3,980.59	1/4	3,618.08	1/4	3,255.57	1/4	2,893.06
1/2	1/2	1/2	1/2	1/2	5,059.92	1/2	4,698.06	1/2	4,335.54	1/2	3,973.03	1/2	3,610.52	1/2	3,248.01	1/2	2,885.50
3/4	3/4	3/4	3/4	3/4	5,052.39	3/4	4,690.50	3/4	4,327.99	3/4	3,965.48	3/4	3,602.97	3/4	3,240.46	3/4	2,877.95
10	10	10	10	10	5,044.86	10	4,682.95	10	4,320.44	10	3,957.93	10	3,595.42	10	3,232.91	10	2,870.40
1/4	1/4	1/4	1/4	1/4	5,037.34	1/4	4,675.40	1/4	4,312.89	1/4	3,950.38	1/4	3,587.87	1/4	3,225.36	1/4	2,862.85
1/2	1/2	1/2	1/2	1/2	5,029.81	1/2	4,667.84	1/2	4,305.34	1/2	3,942.82	1/2	3,580.31	1/2	3,217.80	1/2	2,855.29
3/4	3/4	3/4	3/4	3/4	5,022.29	3/4	4,660.29	3/4	4,297.78	3/4	3,935.27	3/4	3,572.76	3/4	3,210.25	3/4	2,847.74
11	11	11	11	11	5,014.76	11	4,652.74	11	4,290.23	11	3,927.72	11	3,565.21	11	3,202.70	11	2,840.19
1/4	1/4	1/4	1/4	1/4	5,007.23	1/4	4,645.19	1/4	4,282.68	1/4	3,920.17	1/4	3,557.66	1/4	3,195.15	1/4	2,832.64
1/2	1/2	1/2	1/2	1/2	4,999.71	1/2	4,637.64	1/2	4,275.13	1/2	3,912.62	1/2	3,550.11	1/2	3,187.59	1/2	2,825.08
3/4	3/4	3/4	3/4	3/4	4,992.18	3/4	4,630.08	3/4	4,267.57	3/4	3,905.06	3/4	3,542.55	3/4	3,180.04	3/4	2,817.53

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" 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 "MOC 19"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	2,084.77	0	1,722.12	0	1,359.77	0	997.34	0	634.94	0	276.20	0		0		0		0	
1/4	2,077.21	1/4	1,714.57	1/4	1,352.21	1/4	989.80	1/4	627.39	1/4	268.85	1/4		1/4		1/4		1/4	
1/2	2,069.66	1/2	1,707.01	1/2	1,344.66	1/2	982.25	1/2	619.83	1/2	261.50	1/2		1/2		1/2		1/2	
3/4	2,062.10	3/4	1,699.46	3/4	1,337.10	3/4	974.71	3/4	612.28	3/4	254.15	3/4		3/4		3/4		3/4	
1	2,054.55	1	1,691.90	1	1,329.54	1	967.17	1	604.72	1	246.80	1		1		1		1	
1/4	2,046.99	1/4	1,684.35	1/4	1,321.99	1/4	959.62	1/4	597.17	1/4	239.45	1/4		1/4		1/4		1/4	
1/2	2,039.44	1/2	1,676.79	1/2	1,314.43	1/2	952.08	1/2	589.61	1/2	232.10	1/2		1/2		1/2		1/2	
3/4	2,031.88	3/4	1,669.24	3/4	1,306.88	3/4	944.54	3/4	582.05	3/4	224.75	3/4		3/4		3/4		3/4	
2	2,024.33	2	1,661.68	2	1,299.32	2	936.99	2	574.50	2	217.41	2		2		2		2	
1/4	2,016.77	1/4	1,654.13	1/4	1,291.77	1/4	929.45	1/4	566.94	1/4	210.06	1/4		1/4		1/4		1/4	
1/2	2,009.22	1/2	1,646.57	1/2	1,284.21	1/2	921.91	1/2	559.39	1/2	202.71	1/2		1/2		1/2		1/2	
3/4	2,001.66	3/4	1,639.02	3/4	1,276.66	3/4	914.36	3/4	551.83	3/4	195.36	3/4		3/4		3/4		3/4	
3	1,994.11	3	1,631.46	3	1,269.10	3	906.82	3	544.28	3	188.01	3		3		3		3	
1/4	1,986.55	1/4	1,623.91	1/4	1,261.55	1/4	899.28	1/4	536.72	1/4	180.52	1/4		1/4		1/4		1/4	
1/2	1,979.00	1/2	1,616.35	1/2	1,253.99	1/2	891.73	1/2	529.16	1/2	173.03	1/2		1/2		1/2		1/2	
3/4	1,971.44	3/4	1,608.80	3/4	1,246.44	3/4	884.19	3/4	521.61	3/4	165.54	3/4		3/4		3/4		3/4	
4	1,963.89	4	1,601.24	4	1,238.88	4	876.65	4	514.05	4	158.05	4		4		4		4	
1/4	1,956.33	1/4	1,593.70	1/4	1,231.32	1/4	869.10	1/4	506.50	1/4	150.53	1/4		1/4		1/4		1/4	
1/2	1,948.77	1/2	1,586.16	1/2	1,223.77	1/2	861.56	1/2	498.94	1/2	143.01	1/2		1/2		1/2		1/2	
3/4	1,941.22	3/4	1,578.62	3/4	1,216.21	3/4	854.02	3/4	491.39	3/4	135.49	3/4		3/4		3/4		3/4	
5	1,933.66	5	1,571.08	5	1,208.66	5	846.48	5	483.83	5	127.97	5		5		5		5	
1/4	1,926.11	1/4	1,563.54	1/4	1,201.10	1/4	838.92	1/4	476.27	1/4	120.47	1/4		1/4		1/4		1/4	
1/2	1,918.55	1/2	1,556.00	1/2	1,193.55	1/2	831.37	1/2	468.72	1/2	112.98	1/2		1/2		1/2		1/2	
3/4	1,911.00	3/4	1,548.47	3/4	1,185.99	3/4	823.82	3/4	461.16	3/4	105.48	3/4		3/4		3/4		3/4	
6	1,903.44	6	1,540.93	6	1,178.44	6	816.27	6	453.61	6	97.99	6		6		6		6	
1/4	1,895.89	1/4	1,533.39	1/4	1,170.88	1/4	808.71	1/4	446.05	1/4	90.95	1/4		1/4		1/4		1/4	
1/2	1,888.33	1/2	1,525.86	1/2	1,163.33	1/2	801.16	1/2	438.50	1/2	83.91	1/2		1/2		1/2		1/2	
3/4	1,880.78	3/4	1,518.32	3/4	1,155.77	3/4	793.60	3/4	430.94	3/4	76.87	3/4		3/4		3/4		3/4	
7	1,873.22	7	1,510.78	7	1,148.22	7	786.05	7	423.38	7	69.82	7		7		7		7	
1/4	1,865.67	1/4	1,503.25	1/4	1,140.67	1/4	778.49	1/4	415.98	1/4	63.88	1/4		1/4		1/4		1/4	
1/2	1,858.11	1/2	1,495.71	1/2	1,133.12	1/2	770.94	1/2	408.58	1/2	57.93	1/2		1/2		1/2		1/2	
3/4	1,850.56	3/4	1,488.17	3/4	1,125.58	3/4	763.38	3/4	401.18	3/4	51.98	3/4		3/4		3/4		3/4	
8	1,843.00	8	1,480.64	8	1,118.03	8	755.83	8	393.78	8	45.03	8		8		8		8	
1/4	1,835.45	1/4	1,473.08	1/4	1,110.49	1/4	748.27	1/4	386.43	1/4	41.34	1/4		1/4		1/4		1/4	
1/2	1,827.89	1/2	1,465.53	1/2	1,102.94	1/2	740.72	1/2	379.08	1/2	36.65	1/2		1/2		1/2		1/2	
3/4	1,820.34	3/4	1,457.98	3/4	1,095.40	3/4	733.16	3/4	371.73	3/4	31.96	3/4		3/4		3/4		3/4	
9	1,812.78	9	1,450.43	9	1,087.86	9	725.61	9	364.39	9	27.27	9		9		9		9	
1/4	1,805.23	1/4	1,442.88	1/4	1,080.31	1/4	718.05	1/4	357.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,797.67	1/2	1,435.32	1/2	1,072.77	1/2	710.50	1/2	349.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,790.12	3/4	1,427.76	3/4	1,065.23	3/4	702.94	3/4	342.34	3/4		3/4		3/4		3/4		3/4	
10	1,782.56	10	1,420.21	10	1,057.68	10	695.39	10	334.99	10		10		10		10		10	
1/4	1,775.01	1/4	1,412.65	1/4	1,050.14	1/4	687.83	1/4	327.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,767.45	1/2	1,405.10	1/2	1,042.60	1/2	680.27	1/2	320.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,759.90	3/4	1,397.54	3/4	1,035.06	3/4	672.72	3/4	312.94	3/4		3/4		3/4		3/4		3/4	
11	1,752.34	11	1,389.99	11	1,027.51	11	665.16	11	305.59	11		11		11		11		11	
1/4	1,744.79	1/4	1,382.43	1/4	1,019.97	1/4	657.61	1/4	298.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,737.23	1/2	1,374.88	1/2	1,012.43	1/2	650.05	1/2	290.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.68	3/4	1,367.32	3/4	1,004.88	3/4	642.50	3/4	283.55	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MOC 19"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,998.57	0	4,636.46	0	4,273.82	0	3,911.18	0	3,548.54	0	3,185.90	0	2,823.26	0	2,460.62
1/4	1/4	1/4	1/4	1/4	4,991.05	1/4	4,628.91	1/4	4,266.27	1/4	3,903.63	1/4	3,540.99	1/4	3,178.35	1/4	2,815.71	1/4	2,453.07
1/2	1/2	1/2	1/2	1/2	4,983.52	1/2	4,621.35	1/2	4,258.71	1/2	3,896.07	1/2	3,533.43	1/2	3,170.79	1/2	2,808.15	1/2	2,445.51
3/4	3/4	3/4	3/4	3/4	4,976.00	3/4	4,613.80	3/4	4,251.16	3/4	3,888.52	3/4	3,525.88	3/4	3,163.24	3/4	2,800.60	3/4	2,437.96
1	1	1	1	1	4,968.47	1	4,606.24	1	4,243.60	1	3,880.96	1	3,518.32	1	3,155.68	1	2,793.04	1	2,430.40
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,960.94	1 1/4	4,598.69	1 1/4	4,236.05	1 1/4	3,873.41	1 1/4	3,510.77	1 1/4	3,148.13	1 1/4	2,785.49	1 1/4	2,422.85
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,953.42	1 1/2	4,591.13	1 1/2	4,228.49	1 1/2	3,865.85	1 1/2	3,503.21	1 1/2	3,140.57	1 1/2	2,777.93	1 1/2	2,415.29
3/4 1	3/4 1	3/4 1	3/4 1	3/4 1	5,288.90	3/4 1	4,945.89	3/4 1	4,583.58	3/4 1	4,220.94	3/4 1	3,858.30	3/4 1	3,495.66	3/4 1	3,133.02	3/4 1	2,770.38
2	2	2	2	2	5,284.26	2	4,938.37	2	4,576.02	2	4,213.38	2	3,850.74	2	3,488.10	2	3,125.46	2	2,762.82
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	5,279.61	2 1/4	4,930.84	2 1/4	4,568.47	2 1/4	4,205.83	2 1/4	3,843.19	2 1/4	3,480.55	2 1/4	3,117.91	2 1/4	2,755.27
1 1/2 2	1 1/2 2	1 1/2 2	1 1/2 2	1 1/2 2	5,274.97	1 1/2 2	4,923.31	1 1/2 2	4,560.91	1 1/2 2	4,198.27	1 1/2 2	3,835.63	1 1/2 2	3,472.99	1 1/2 2	3,110.35	1 1/2 2	2,747.71
3/4 2	3/4 2	3/4 2	3/4 2	3/4 2	5,269.06	3/4 2	4,915.79	3/4 2	4,553.36	3/4 2	4,190.72	3/4 2	3,828.08	3/4 2	3,465.44	3/4 2	3,102.80	3/4 2	2,740.16
3	3	3	3	3	5,263.16	3	4,908.26	3	4,545.80	3	4,183.16	3	3,820.52	3	3,457.88	3	3,095.24	3	2,732.60
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	5,257.26	3 1/4	4,900.74	3 1/4	4,538.25	3 1/4	4,175.61	3 1/4	3,812.97	3 1/4	3,450.33	3 1/4	3,087.69	3 1/4	2,725.05
1 1/2 3	1 1/2 3	1 1/2 3	1 1/2 3	1 1/2 3	5,251.35	1 1/2 3	4,893.21	1 1/2 3	4,530.69	1 1/2 3	4,168.05	1 1/2 3	3,805.41	1 1/2 3	3,442.77	1 1/2 3	3,080.13	1 1/2 3	2,717.49
3/4 3	3/4 3	3/4 3	3/4 3	3/4 3	5,244.32	3/4 3	4,885.68	3/4 3	4,523.14	3/4 3	4,160.50	3/4 3	3,797.86	3/4 3	3,435.22	3/4 3	3,072.58	3/4 3	2,709.94
4	4	4	4	4	5,237.30	4	4,878.16	4	4,515.58	4	4,152.94	4	3,790.30	4	3,427.66	4	3,065.02	4	2,702.38
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	5,230.27	4 1/4	4,870.63	4 1/4	4,508.03	4 1/4	4,145.39	4 1/4	3,782.75	4 1/4	3,420.11	4 1/4	3,057.47	4 1/4	2,694.83
1 1/2 4	1 1/2 4	1 1/2 4	1 1/2 4	1 1/2 4	5,223.24	1 1/2 4	4,863.11	1 1/2 4	4,500.47	1 1/2 4	4,137.83	1 1/2 4	3,775.19	1 1/2 4	3,412.55	1 1/2 4	3,049.91	1 1/2 4	2,687.27
3/4 4	3/4 4	3/4 4	3/4 4	3/4 4	5,215.83	3/4 4	4,855.55	3/4 4	4,492.92	3/4 4	4,130.28	3/4 4	3,767.64	3/4 4	3,405.00	3/4 4	3,042.36	3/4 4	2,679.72
5	5	5	5	5	5,208.41	5	4,848.00	5	4,485.36	5	4,122.72	5	3,760.08	5	3,397.44	5	3,034.80	5	2,672.16
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5,200.99	5 1/4	4,840.45	5 1/4	4,477.81	5 1/4	4,115.17	5 1/4	3,752.53	5 1/4	3,389.89	5 1/4	3,027.25	5 1/4	2,664.61
1 1/2 5	1 1/2 5	1 1/2 5	1 1/2 5	1 1/2 5	5,193.57	1 1/2 5	4,832.89	1 1/2 5	4,470.25	1 1/2 5	4,107.61	1 1/2 5	3,744.97	1 1/2 5	3,382.33	1 1/2 5	3,019.69	1 1/2 5	2,657.05
3/4 5	3/4 5	3/4 5	3/4 5	3/4 5	5,186.10	3/4 5	4,825.34	3/4 5	4,462.70	3/4 5	4,100.06	3/4 5	3,737.42	3/4 5	3,374.78	3/4 5	3,012.14	3/4 5	2,649.50
6	6	6	6	6	5,178.63	6	4,817.78	6	4,455.14	6	4,092.50	6	3,729.86	6	3,367.22	6	3,004.58	6	2,641.94
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	5,171.16	6 1/4	4,810.23	6 1/4	4,447.59	6 1/4	4,084.95	6 1/4	3,722.31	6 1/4	3,359.67	6 1/4	2,997.03	6 1/4	2,634.39
1 1/2 6	1 1/2 6	1 1/2 6	1 1/2 6	1 1/2 6	5,163.69	1 1/2 6	4,802.67	1 1/2 6	4,440.03	1 1/2 6	4,077.39	1 1/2 6	3,714.75	1 1/2 6	3,352.11	1 1/2 6	2,989.47	1 1/2 6	2,626.83
3/4 6	3/4 6	3/4 6	3/4 6	3/4 6	5,156.22	3/4 6	4,795.12	3/4 6	4,432.48	3/4 6	4,069.84	3/4 6	3,707.20	3/4 6	3,344.56	3/4 6	2,981.92	3/4 6	2,619.28
7	7	7	7	7	5,148.74	7	4,787.56	7	4,424.92	7	4,062.28	7	3,699.64	7	3,337.00	7	2,974.36	7	2,611.72
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	5,141.27	7 1/4	4,780.01	7 1/4	4,417.37	7 1/4	4,054.73	7 1/4	3,692.09	7 1/4	3,329.45	7 1/4	2,966.81	7 1/4	2,604.17
1 1/2 7	1 1/2 7	1 1/2 7	1 1/2 7	1 1/2 7	5,133.79	1 1/2 7	4,772.45	1 1/2 7	4,409.81	1 1/2 7	4,047.17	1 1/2 7	3,684.53	1 1/2 7	3,321.89	1 1/2 7	2,959.25	1 1/2 7	2,596.61
3/4 7	3/4 7	3/4 7	3/4 7	3/4 7	5,126.32	3/4 7	4,764.90	3/4 7	4,402.26	3/4 7	4,039.62	3/4 7	3,676.98	3/4 7	3,314.34	3/4 7	2,951.70	3/4 7	2,589.06
8	8	8	8	8	5,118.84	8	4,757.34	8	4,394.70	8	4,032.06	8	3,669.42	8	3,306.78	8	2,944.14	8	2,581.50
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	5,111.36	8 1/4	4,749.79	8 1/4	4,387.15	8 1/4	4,024.51	8 1/4	3,661.87	8 1/4	3,299.23	8 1/4	2,936.59	8 1/4	2,573.95
1 1/2 8	1 1/2 8	1 1/2 8	1 1/2 8	1 1/2 8	5,103.89	1 1/2 8	4,742.23	1 1/2 8	4,379.59	1 1/2 8	4,016.95	1 1/2 8	3,654.31	1 1/2 8	3,291.67	1 1/2 8	2,929.03	1 1/2 8	2,566.39
3/4 8	3/4 8	3/4 8	3/4 8	3/4 8	5,096.37	3/4 8	4,734.68	3/4 8	4,372.04	3/4 8	4,009.40	3/4 8	3,646.76	3/4 8	3,284.12	3/4 8	2,921.48	3/4 8	2,558.84
9	9	9	9	9	5,088.86	9	4,727.12	9	4,364.48	9	4,001.84	9	3,639.20	9	3,276.56	9	2,913.92	9	2,551.28
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	5,081.35	9 1/4	4,719.57	9 1/4	4,356.93	9 1/4	3,994.29	9 1/4	3,631.65	9 1/4	3,269.01	9 1/4	2,906.37	9 1/4	2,543.73
1 1/2 9	1 1/2 9	1 1/2 9	1 1/2 9	1 1/2 9	5,073.83	1 1/2 9	4,712.01	1 1/2 9	4,349.37	1 1/2 9	3,986.73	1 1/2 9	3,624.09	1 1/2 9	3,261.45	1 1/2 9	2,898.81	1 1/2 9	2,536.17
3/4 9	3/4 9	3/4 9	3/4 9	3/4 9	5,066.31	3/4 9	4,704.46	3/4 9	4,341.82	3/4 9	3,979.18	3/4 9	3,616.54	3/4 9	3,253.90	3/4 9	2,891.26	3/4 9	2,528.62
10	10	10	10	10	5,058.78	10	4,696.90	10	4,334.26	10	3,971.62	10	3,608.98	10	3,246.34	10	2,883.70	10	2,521.06
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	5,051.26	10 1/4	4,689.35	10 1/4	4,326.71	10 1/4	3,964.07	10 1/4	3,601.43	10 1/4	3,238.79	10 1/4	2,876.15	10 1/4	2,513.51
1 1/2 10	1 1/2 10	1 1/2 10	1 1/2 10	1 1/2 10	5,043.73	1 1/2 10	4,681.79	1 1/2 10	4,319.15	1 1/2 10	3,956.51	1 1/2 10	3,593.87	1 1/2 10	3,231.23	1 1/2 10	2,868.59	1 1/2 10	2,505.95
3/4 10	3/4 10	3/4 10	3/4 10	3/4 10	5,036.20	3/4 10	4,674.24	3/4 10	4,311.60	3/4 10	3,948.96	3/4 10	3,586.32	3/4 10	3,223.68	3/4 10	2,861.04	3/4 10	2,498.40
11	11	11	11	11	5,028.68	11	4,666.68	11	4,304.04	11	3,941.40	11	3,578.76	11	3,216.12	11	2,853.48	11	2,490.84
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	5,021.15	11 1/4	4,659.13	11 1/4	4,296.49	11 1/4	3,933.85	11 1/4	3,571.21	11 1/4	3,208.57	11 1/4	2,845.93	11 1/4	2,483.29
1 1/2 11	1 1/2 11	1 1/2 11	1 1/2 11	1 1/2 11	5,013.63	1 1/2 11	4,651.57	1 1/2 11	4,288.93	1 1/2 11	3,926.29	1 1/2 11	3,563.65	1 1/2 11	3,201.01	1 1/2 11	2,838.37	1 1/2 11	2,475.73
3/4 11	3/4 11	3/4 11	3/4 11	3/4 11	5,006.10	3/4 11	4,644.02	3/4 11	4,281.38	3/4 11	3,918.74	3/4 11	3,556.10	3/4 11	3,193.46	3/4 11	2,830.82	3/4 11	2,468.18

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 THE TOP OF THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "MOC 19"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,097.98	0	1,735.34	0	1,372.99	0	1,011.05	0	650.06	0	290.90	0		0		0			
1/4	2,090.43	1/4	1,727.79	1/4	1,365.43	1/4	1,003.55	1/4	642.50	1/4	283.55	1/4		1/4		1/4		1/4	
1/2	2,082.87	1/2	1,720.23	1/2	1,357.88	1/2	996.04	1/2	634.95	1/2	276.20	1/2		1/2		1/2		1/2	
3/4	2,075.32	3/4	1,712.68	3/4	1,350.32	3/4	988.54	3/4	627.39	3/4	268.85	3/4		3/4		3/4		3/4	
1	2,067.76	1	1,705.12	1	1,342.77	1	981.04	1	619.83	1	261.50	1		1		1		1	
1/4	2,060.21	1/4	1,697.57	1/4	1,335.21	1/4	973.53	1/4	612.28	1/4	254.15	1/4		1/4		1/4		1/4	
1/2	2,052.65	1/2	1,690.01	1/2	1,327.66	1/2	966.03	1/2	604.72	1/2	246.80	1/2		1/2		1/2		1/2	
3/4	2,045.10	3/4	1,682.46	3/4	1,320.10	3/4	958.52	3/4	597.17	3/4	239.45	3/4		3/4		3/4		3/4	
2	2,037.54	2	1,674.90	2	1,312.55	2	951.02	2	589.61	2	232.11	2		2		2		2	
1/4	2,029.99	1/4	1,667.35	1/4	1,304.99	1/4	943.52	1/4	582.06	1/4	224.76	1/4		1/4		1/4		1/4	
1/2	2,022.43	1/2	1,659.79	1/2	1,297.43	1/2	936.01	1/2	574.50	1/2	217.41	1/2		1/2		1/2		1/2	
3/4	2,014.88	3/4	1,652.24	3/4	1,289.88	3/4	928.51	3/4	566.95	3/4	210.06	3/4		3/4		3/4		3/4	
3	2,007.32	3	1,644.68	3	1,282.32	3	921.00	3	559.39	3	202.71	3		3		3		3	
1/4	1,999.77	1/4	1,637.13	1/4	1,274.77	1/4	913.50	1/4	551.83	1/4	195.36	1/4		1/4		1/4		1/4	
1/2	1,992.21	1/2	1,629.57	1/2	1,267.21	1/2	906.00	1/2	544.28	1/2	188.01	1/2		1/2		1/2		1/2	
3/4	1,984.66	3/4	1,622.02	3/4	1,259.66	3/4	898.49	3/4	536.72	3/4	180.52	3/4		3/4		3/4		3/4	
4	1,977.10	4	1,614.46	4	1,252.10	4	890.99	4	529.17	4	173.03	4		4		4		4	
1/4	1,969.55	1/4	1,606.91	1/4	1,244.55	1/4	883.49	1/4	521.61	1/4	165.54	1/4		1/4		1/4		1/4	
1/2	1,961.99	1/2	1,599.35	1/2	1,236.99	1/2	875.98	1/2	514.06	1/2	158.05	1/2		1/2		1/2		1/2	
3/4	1,954.44	3/4	1,591.81	3/4	1,229.44	3/4	868.48	3/4	506.50	3/4	150.53	3/4		3/4		3/4		3/4	
5	1,946.88	5	1,584.27	5	1,221.88	5	860.97	5	498.94	5	143.01	5		5		5		5	
1/4	1,939.33	1/4	1,576.73	1/4	1,214.33	1/4	853.47	1/4	491.39	1/4	135.49	1/4		1/4		1/4		1/4	
1/2	1,931.77	1/2	1,569.19	1/2	1,206.77	1/2	845.97	1/2	483.83	1/2	127.97	1/2		1/2		1/2		1/2	
3/4	1,924.21	3/4	1,561.65	3/4	1,199.21	3/4	838.45	3/4	476.28	3/4	120.47	3/4		3/4		3/4		3/4	
6	1,916.66	6	1,554.11	6	1,191.66	6	830.94	6	468.72	6	112.98	6		6		6		6	
1/4	1,909.11	1/4	1,546.56	1/4	1,184.10	1/4	823.43	1/4	461.17	1/4	105.48	1/4		1/4		1/4		1/4	
1/2	1,901.55	1/2	1,539.04	1/2	1,176.55	1/2	815.92	1/2	453.61	1/2	97.99	1/2		1/2		1/2		1/2	
3/4	1,894.00	3/4	1,531.50	3/4	1,168.99	3/4	808.40	3/4	446.06	3/4	90.95	3/4		3/4		3/4		3/4	
7	1,886.44	7	1,523.97	7	1,161.44	7	800.88	7	438.50	7	83.91	7		7		7		7	
1/4	1,878.89	1/4	1,516.43	1/4	1,153.88	1/4	793.37	1/4	430.94	1/4	76.87	1/4		1/4		1/4		1/4	
1/2	1,871.33	1/2	1,508.89	1/2	1,146.33	1/2	785.85	1/2	423.39	1/2	69.82	1/2		1/2		1/2		1/2	
3/4	1,863.78	3/4	1,501.36	3/4	1,138.78	3/4	778.34	3/4	415.99	3/4	63.88	3/4		3/4		3/4		3/4	
8	1,856.22	8	1,493.82	8	1,131.23	8	770.82	8	408.59	8	57.93	8		8		8		8	
1/4	1,848.67	1/4	1,486.28	1/4	1,123.69	1/4	763.31	1/4	401.19	1/4	51.98	1/4		1/4		1/4		1/4	
1/2	1,841.11	1/2	1,478.75	1/2	1,116.14	1/2	755.79	1/2	393.79	1/2	46.03	1/2		1/2		1/2		1/2	
3/4	1,833.56	3/4	1,471.20	3/4	1,108.63	3/4	748.24	3/4	386.44	3/4	41.34	3/4		3/4		3/4		3/4	
9	1,826.00	9	1,463.65	9	1,101.12	9	740.70	9	379.09	9	36.65	9		9		9		9	
1/4	1,818.45	1/4	1,456.09	1/4	1,093.60	1/4	733.15	1/4	371.74	1/4	31.96	1/4		1/4		1/4		1/4	
1/2	1,810.89	1/2	1,448.54	1/2	1,086.09	1/2	725.61	1/2	364.39	1/2	27.27	1/2		1/2		1/2		1/2	
3/4	1,803.34	3/4	1,440.99	3/4	1,078.58	3/4	718.05	3/4	357.04	3/4		3/4		3/4		3/4		3/4	
10	1,795.78	10	1,433.43	10	1,071.08	10	710.50	10	349.69	10		10		10		10		10	
1/4	1,788.23	1/4	1,425.88	1/4	1,063.58	1/4	702.94	1/4	342.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,780.67	1/2	1,418.32	1/2	1,056.07	1/2	695.39	1/2	334.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,773.12	3/4	1,410.77	3/4	1,048.57	3/4	687.83	3/4	327.64	3/4		3/4		3/4		3/4		3/4	
11	1,765.56	11	1,403.21	11	1,041.07	11	680.28	11	320.29	11		11		11		11		11	
1/4	1,758.01	1/4	1,395.65	1/4	1,033.56	1/4	672.72	1/4	312.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,750.45	1/2	1,388.10	1/2	1,026.06	1/2	665.17	1/2	305.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,742.90	3/4	1,380.54	3/4	1,018.55	3/4	657.61	3/4	298.25	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "MOC 19"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,985.67	0	4,624.47	0	4,262.86	0	3,901.25	0	3,539.64	0	3,178.02	0	2,816.41	0	2,454.74
1/4		1/4		1/4	4,978.16	1/4	4,616.94	1/4	4,255.33	1/4	3,893.72	1/4	3,532.10	1/4	3,170.49	1/4	2,808.88	1/4	2,447.20
1/2		1/2		1/2	4,970.65	1/2	4,609.41	1/2	4,247.79	1/2	3,886.18	1/2	3,524.57	1/2	3,162.96	1/2	2,801.34	1/2	2,439.66
3/4		3/4		3/4	4,963.15	3/4	4,601.87	3/4	4,240.26	3/4	3,878.65	3/4	3,517.04	3/4	3,155.42	3/4	2,793.81	3/4	2,432.13
1		1		1	4,955.64	1	4,594.34	1	4,232.73	1	3,871.11	1	3,509.50	1	3,147.89	1	2,786.28	1	2,424.59
1/4		1/4		1/4	4,948.13	1/4	4,586.81	1/4	4,225.19	1/4	3,863.58	1/4	3,501.97	1/4	3,140.36	1/4	2,778.74	1/4	2,417.05
1/2		1/2		1/2	4,940.63	1/2	4,579.27	1/2	4,217.66	1/2	3,856.05	1/2	3,494.43	1/2	3,132.82	1/2	2,771.21	1/2	2,409.52
3/4		3/4		3/4	5,275.27	3/4	4,933.12	3/4	4,571.74	3/4	4,210.13	3/4	3,848.51	3/4	3,486.90	3/4	3,125.29	3/4	2,763.68
2		2		2	5,270.64	2	4,925.61	2	4,202.59	2	3,840.98	2	3,479.37	2	3,117.75	2	2,756.14	2	2,394.44
1/4		1/4		1/4	5,266.00	1/4	4,918.10	1/4	4,556.67	1/4	4,195.06	1/4	3,833.45	1/4	3,471.83	1/4	3,110.22	1/4	2,386.91
1/2		1/2		1/2	5,261.37	1/2	4,910.60	1/2	4,549.14	1/2	4,187.53	1/2	3,825.91	1/2	3,464.30	1/2	3,102.69	1/2	2,379.37
3/4		3/4		3/4	5,255.48	3/4	4,903.09	3/4	4,541.60	3/4	4,179.99	3/4	3,818.38	3/4	3,456.77	3/4	3,095.15	3/4	2,373.54
3		3		3	5,249.59	3	4,895.58	3	4,534.07	3	4,172.46	3	3,810.85	3	3,449.23	3	3,087.62	3	2,364.30
1/4		1/4		1/4	5,243.70	1/4	4,888.07	1/4	4,526.54	1/4	4,164.92	1/4	3,803.31	1/4	3,441.70	1/4	3,080.09	1/4	2,356.76
1/2		1/2		1/2	5,237.82	1/2	4,880.57	1/2	4,519.00	1/2	4,157.39	1/2	3,795.78	1/2	3,434.17	1/2	3,072.55	1/2	2,348.23
3/4		3/4		3/4	5,230.81	3/4	4,873.06	3/4	4,511.47	3/4	4,149.86	3/4	3,788.24	3/4	3,426.63	3/4	3,065.02	3/4	2,341.69
4		4		4	5,223.80	4	4,865.55	4	4,503.94	4	4,142.32	4	3,780.71	4	3,419.10	4	3,057.49	4	2,334.15
1/4		1/4		1/4	5,216.79	1/4	4,858.04	1/4	4,496.40	1/4	4,134.79	1/4	3,773.18	1/4	3,411.56	1/4	3,049.95	1/4	2,326.62
1/2		1/2		1/2	5,209.78	1/2	4,850.54	1/2	4,488.87	1/2	4,127.26	1/2	3,765.64	1/2	3,404.03	1/2	3,042.42	1/2	2,319.08
3/4		3/4		3/4	5,202.38	3/4	4,843.01	3/4	4,481.34	3/4	4,119.72	3/4	3,758.11	3/4	3,396.50	3/4	3,034.88	3/4	2,311.54
5		5		5	5,194.98	5	4,835.48	5	4,473.80	5	4,112.19	5	3,750.58	5	3,388.96	5	3,027.35	5	2,304.01
1/4		1/4		1/4	5,187.58	1/4	4,827.95	1/4	4,466.27	1/4	4,104.66	1/4	3,743.04	1/4	3,381.43	1/4	3,019.82	1/4	2,296.47
1/2		1/2		1/2	5,180.18	1/2	4,820.42	1/2	4,458.74	1/2	4,097.12	1/2	3,735.51	1/2	3,373.90	1/2	3,012.28	1/2	2,288.93
3/4		3/4		3/4	5,172.73	3/4	4,812.88	3/4	4,451.20	3/4	4,089.59	3/4	3,727.98	3/4	3,366.36	3/4	3,004.75	3/4	2,281.40
6		6		6	5,165.28	6	4,805.35	6	4,443.67	6	4,082.06	6	3,720.44	6	3,358.83	6	2,997.22	6	2,273.86
1/4		1/4		1/4	5,157.83	1/4	4,797.81	1/4	4,436.13	1/4	4,074.52	1/4	3,712.91	1/4	3,351.30	1/4	2,989.68	1/4	2,266.33
1/2		1/2		1/2	5,150.38	1/2	4,790.27	1/2	4,428.60	1/2	4,066.99	1/2	3,705.38	1/2	3,343.76	1/2	2,982.15	1/2	2,258.79
3/4		3/4		3/4	5,142.92	3/4	4,782.74	3/4	4,421.07	3/4	4,059.45	3/4	3,697.84	3/4	3,336.23	3/4	2,974.62	3/4	2,251.25
7		7		7	5,135.47	7	4,775.20	7	4,413.53	7	4,051.92	7	3,690.31	7	3,328.70	7	2,967.08	7	2,243.72
1/4		1/4		1/4	5,128.01	1/4	4,767.67	1/4	4,406.00	1/4	4,044.39	1/4	3,682.77	1/4	3,321.16	1/4	2,959.55	1/4	2,236.18
1/2		1/2		1/2	5,120.55	1/2	4,760.13	1/2	4,398.47	1/2	4,036.85	1/2	3,675.24	1/2	3,313.63	1/2	2,952.02	1/2	2,228.64
3/4		3/4		3/4	5,113.09	3/4	4,752.59	3/4	4,390.93	3/4	4,029.32	3/4	3,667.71	3/4	3,306.09	3/4	2,944.48	3/4	2,221.11
8		8		8	5,105.64	8	4,745.06	8	4,383.40	8	4,021.79	8	3,660.17	8	3,298.56	8	2,936.95	8	2,213.57
1/4		1/4		1/4	5,098.18	1/4	4,737.52	1/4	4,375.87	1/4	4,014.25	1/4	3,652.64	1/4	3,291.03	1/4	2,929.41	1/4	2,206.03
1/2		1/2		1/2	5,090.72	1/2	4,729.98	1/2	4,368.33	1/2	4,006.72	1/2	3,645.11	1/2	3,283.49	1/2	2,921.88	1/2	2,198.50
3/4		3/4		3/4	5,083.23	3/4	4,722.45	3/4	4,360.80	3/4	3,999.19	3/4	3,637.57	3/4	3,275.96	3/4	2,914.35	3/4	2,190.96
9		9		9	5,075.73	9	4,714.91	9	4,353.26	9	3,991.65	9	3,630.04	9	3,268.43	9	2,906.81	9	2,183.42
1/4		1/4		1/4	5,068.24	1/4	4,707.37	1/4	4,345.73	1/4	3,984.12	1/4	3,622.51	1/4	3,260.89	1/4	2,899.28	1/4	2,175.89
1/2		1/2		1/2	5,060.74	1/2	4,699.84	1/2	4,338.20	1/2	3,976.58	1/2	3,614.97	1/2	3,253.36	1/2	2,891.75	1/2	2,168.35
3/4		3/4		3/4	5,053.23	3/4	4,692.30	3/4	4,330.66	3/4	3,969.05	3/4	3,607.44	3/4	3,245.83	3/4	2,884.21	3/4	2,160.82
10		10		10	5,045.73	10	4,684.77	10	4,323.13	10	3,961.52	10	3,599.90	10	3,238.29	10	2,876.68	10	2,153.28
1/4		1/4		1/4	5,038.22	1/4	4,677.23	1/4	4,315.60	1/4	3,953.98	1/4	3,592.37	1/4	3,230.76	1/4	2,869.15	1/4	2,145.74
1/2		1/2		1/2	5,030.71	1/2	4,669.69	1/2	4,308.06	1/2	3,946.45	1/2	3,584.84	1/2	3,223.22	1/2	2,861.61	1/2	2,138.21
3/4		3/4		3/4	5,023.21	3/4	4,662.15	3/4	4,300.53	3/4	3,938.92	3/4	3,577.30	3/4	3,215.69	3/4	2,854.08	3/4	2,130.67
11		11		11	5,015.70	11	4,654.62	11	4,293.00	11	3,931.38	11	3,569.77	11	3,208.16	11	2,846.54	11	2,123.13
1/4		1/4		1/4	5,008.19	1/4	4,647.08	1/4	4,285.46	1/4	3,923.85	1/4	3,562.24	1/4	3,200.62	1/4	2,839.01	1/4	2,115.60
1/2		1/2		1/2	5,000.68	1/2	4,639.54	1/2	4,277.93	1/2	3,916.32	1/2	3,554.70	1/2	3,193.09	1/2	2,831.48	1/2	2,108.06
3/4		3/4		3/4	4,993.18	3/4	4,632.01	3/4	4,270.40	3/4	3,908.78	3/4	3,547.17	3/4	3,185.56	3/4	2,823.94	3/4	2,100.52

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" 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 "MOC 19"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,092.99	0	1,731.24	0	1,371.39	0	1,009.85	0	648.39	0	290.15	0		0		0		0	
1/4	2,085.45	1/4	1,723.70	1/4	1,363.86	1/4	1,002.33	1/4	640.86	1/4	282.82	1/4		1/4		1/4		1/4	
1/2	2,077.92	1/2	1,716.17	1/2	1,356.32	1/2	994.80	1/2	633.32	1/2	275.49	1/2		1/2		1/2		1/2	
3/4	2,070.38	3/4	1,708.63	3/4	1,348.78	3/4	987.28	3/4	625.78	3/4	268.16	3/4		3/4		3/4		3/4	
1	2,062.84	1	1,701.10	1	1,341.25	1	979.76	1	618.25	1	260.83	1		1		1		1	
1/4	2,055.31	1/4	1,693.56	1/4	1,333.71	1/4	972.23	1/4	610.71	1/4	253.50	1/4		1/4		1/4		1/4	
1/2	2,047.77	1/2	1,686.02	1/2	1,326.17	1/2	964.71	1/2	603.17	1/2	246.17	1/2		1/2		1/2		1/2	
3/4	2,040.23	3/4	1,678.49	3/4	1,318.64	3/4	957.18	3/4	595.64	3/4	238.84	3/4		3/4		3/4		3/4	
2	2,032.70	2	1,670.95	2	1,311.10	2	949.66	2	588.10	2	231.51	2		2		2		2	
1/4	2,025.16	1/4	1,663.41	1/4	1,303.56	1/4	942.13	1/4	580.56	1/4	224.18	1/4		1/4		1/4		1/4	
1/2	2,017.62	1/2	1,655.88	1/2	1,296.03	1/2	934.61	1/2	573.03	1/2	216.85	1/2		1/2		1/2		1/2	
3/4	2,010.09	3/4	1,648.34	3/4	1,288.49	3/4	927.09	3/4	565.49	3/4	209.52	3/4		3/4		3/4		3/4	
3	2,002.55	3	1,640.80	3	1,280.96	3	919.56	3	557.96	3	202.19	3		3		3		3	
1/4	1,995.01	1/4	1,633.27	1/4	1,273.42	1/4	912.04	1/4	550.42	1/4	194.86	1/4		1/4		1/4		1/4	
1/2	1,987.48	1/2	1,625.73	1/2	1,265.88	1/2	904.51	1/2	542.88	1/2	187.53	1/2		1/2		1/2		1/2	
3/4	1,979.94	3/4	1,618.19	3/4	1,258.35	3/4	896.99	3/4	535.35	3/4	180.06	3/4		3/4		3/4		3/4	
4	1,972.41	4	1,610.66	4	1,250.81	4	889.47	4	527.81	4	172.59	4		4		4		4	
1/4	1,964.87	1/4	1,603.12	1/4	1,243.27	1/4	881.94	1/4	520.27	1/4	165.12	1/4		1/4		1/4		1/4	
1/2	1,957.33	1/2	1,595.59	1/2	1,235.74	1/2	874.42	1/2	512.74	1/2	157.65	1/2		1/2		1/2		1/2	
3/4	1,949.80	3/4	1,588.14	3/4	1,228.20	3/4	866.89	3/4	505.20	3/4	150.15	3/4		3/4		3/4		3/4	
5	1,942.26	5	1,580.69	5	1,220.66	5	859.37	5	497.66	5	142.64	5		5		5		5	
1/4	1,934.72	1/4	1,573.24	1/4	1,213.13	1/4	851.85	1/4	490.13	1/4	135.14	1/4		1/4		1/4		1/4	
1/2	1,927.19	1/2	1,565.80	1/2	1,205.59	1/2	844.32	1/2	482.59	1/2	127.64	1/2		1/2		1/2		1/2	
3/4	1,919.65	3/4	1,558.38	3/4	1,198.05	3/4	836.79	3/4	475.05	3/4	120.17	3/4		3/4		3/4		3/4	
6	1,912.11	6	1,550.96	6	1,190.52	6	829.25	6	467.52	6	112.69	6		6		6		6	
1/4	1,904.58	1/4	1,543.54	1/4	1,182.98	1/4	821.72	1/4	459.98	1/4	105.22	1/4		1/4		1/4		1/4	
1/2	1,897.04	1/2	1,536.13	1/2	1,175.45	1/2	814.19	1/2	452.44	1/2	97.74	1/2		1/2		1/2		1/2	
3/4	1,889.51	3/4	1,528.71	3/4	1,167.91	3/4	806.65	3/4	444.91	3/4	90.72	3/4		3/4		3/4		3/4	
7	1,881.97	7	1,521.29	7	1,160.37	7	799.12	7	437.37	7	83.69	7		7		7		7	
1/4	1,874.43	1/4	1,513.87	1/4	1,152.84	1/4	791.58	1/4	429.83	1/4	76.67	1/4		1/4		1/4		1/4	
1/2	1,866.90	1/2	1,506.45	1/2	1,145.30	1/2	784.04	1/2	422.30	1/2	69.65	1/2		1/2		1/2		1/2	
3/4	1,859.36	3/4	1,499.04	3/4	1,137.77	3/4	776.51	3/4	414.91	3/4	63.71	3/4		3/4		3/4		3/4	
8	1,851.82	8	1,491.62	8	1,130.24	8	768.97	8	407.53	8	57.78	8		8		8		8	
1/4	1,844.29	1/4	1,484.20	1/4	1,122.72	1/4	761.44	1/4	400.15	1/4	51.85	1/4		1/4		1/4		1/4	
1/2	1,836.75	1/2	1,476.78	1/2	1,115.19	1/2	753.90	1/2	392.77	1/2	45.91	1/2		1/2		1/2		1/2	
3/4	1,829.21	3/4	1,469.28	3/4	1,107.67	3/4	746.36	3/4	385.44	3/4	41.24	3/4		3/4		3/4		3/4	
9	1,821.68	9	1,461.77	9	1,100.14	9	738.83	9	378.11	9	36.56	9		9		9		9	
1/4	1,814.14	1/4	1,454.26	1/4	1,092.62	1/4	731.29	1/4	370.78	1/4	31.88	1/4		1/4		1/4		1/4	
1/2	1,806.60	1/2	1,446.76	1/2	1,085.09	1/2	723.76	1/2	363.45	1/2	27.21	1/2		1/2		1/2		1/2	
3/4	1,799.07	3/4	1,439.22	3/4	1,077.57	3/4	716.22	3/4	356.12	3/4		3/4		3/4		3/4		3/4	
10	1,791.53	10	1,431.68	10	1,070.04	10	708.68	10	348.79	10		10		10		10		10	
1/4	1,784.00	1/4	1,424.15	1/4	1,062.52	1/4	701.15	1/4	341.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,776.46	1/2	1,416.61	1/2	1,055.00	1/2	693.61	1/2	334.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,768.92	3/4	1,409.07	3/4	1,047.47	3/4	686.07	3/4	326.80	3/4		3/4		3/4		3/4		3/4	
11	1,761.39	11	1,401.54	11	1,039.95	11	678.54	11	319.47	11		11		11		11		11	
1/4	1,753.85	1/4	1,394.00	1/4	1,032.42	1/4	671.00	1/4	312.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,746.31	1/2	1,386.46	1/2	1,024.90	1/2	663.47	1/2	304.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,738.78	3/4	1,378.93	3/4	1,017.38	3/4	655.93	3/4	297.48	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "MOC 19"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,969.12	0	4,607.89	0	4,246.23	0	3,884.57	0	3,522.92	0	3,161.26	0	2,799.61	0	2,437.89
1/4		1/4		1/4	4,961.62	1/4	4,600.35	1/4	4,238.70	1/4	3,877.04	1/4	3,515.38	1/4	3,153.73	1/4	2,792.07	1/4	2,430.35
1/2		1/2		1/2	4,954.11	1/2	4,592.82	1/2	4,231.16	1/2	3,869.51	1/2	3,507.85	1/2	3,146.19	1/2	2,784.54	1/2	2,422.81
3/4		3/4		3/4	4,946.60	3/4	4,585.28	3/4	4,223.63	3/4	3,861.97	3/4	3,500.32	3/4	3,138.66	3/4	2,777.00	3/4	2,415.28
1		1		1	4,939.09	1	4,577.75	1	4,216.09	1	3,854.44	1	3,492.78	1	3,131.12	1	2,769.47	1	2,407.74
1/4		1/4		1/4	4,931.58	1/4	4,570.21	1/4	4,208.56	1/4	3,846.90	1/4	3,485.25	1/4	3,123.59	1/4	2,761.93	1/4	2,400.20
1/2		1/2		1/2	4,924.08	1/2	4,562.68	1/2	4,201.02	1/2	3,839.37	1/2	3,477.71	1/2	3,116.06	1/2	2,754.40	1/2	2,392.66
3/4		3/4		3/4	5,258.76	3/4	4,916.57	3/4	4,555.15	3/4	4,193.49	3/4	3,831.83	3/4	3,470.18	3/4	3,108.52	3/4	2,746.87
2		2		2	5,254.13	2	4,909.06	2	4,547.61	2	4,185.95	2	3,824.30	2	3,462.64	2	3,100.99	2	2,739.33
1/4		1/4		1/4	5,249.49	1/4	4,901.55	1/4	4,540.08	1/4	4,178.42	1/4	3,816.76	1/4	3,455.11	1/4	3,093.45	1/4	2,731.80
1/2		1/2		1/2	5,244.86	1/2	4,894.04	1/2	4,532.54	1/2	4,170.89	1/2	3,809.23	1/2	3,447.57	1/2	3,085.92	1/2	2,724.26
3/4		3/4		3/4	5,238.97	3/4	4,886.53	3/4	4,525.01	3/4	4,163.35	3/4	3,801.70	3/4	3,440.04	3/4	3,078.38	3/4	2,716.73
3		3		3	5,233.08	3	4,879.03	3	4,517.47	3	4,155.82	3	3,794.16	3	3,432.50	3	3,070.85	3	2,709.19
1/4		1/4		1/4	5,227.19	1/4	4,871.52	1/4	4,509.94	1/4	4,148.28	1/4	3,786.63	1/4	3,424.97	1/4	3,063.31	1/4	2,701.66
1/2		1/2		1/2	5,221.30	1/2	4,864.01	1/2	4,502.40	1/2	4,140.75	1/2	3,779.09	1/2	3,417.44	1/2	3,055.78	1/2	2,694.12
3/4		3/4		3/4	5,214.29	3/4	4,856.50	3/4	4,494.87	3/4	4,133.21	3/4	3,771.56	3/4	3,409.90	3/4	3,048.25	3/4	2,686.59
4		4		4	5,207.28	4	4,848.99	4	4,487.33	4	4,125.68	4	3,764.02	4	3,402.37	4	3,040.71	4	2,679.05
1/4		1/4		1/4	5,200.27	1/4	4,841.49	1/4	4,479.80	1/4	4,118.14	1/4	3,756.49	1/4	3,394.83	1/4	3,033.18	1/4	2,671.52
1/2		1/2		1/2	5,193.26	1/2	4,833.98	1/2	4,472.27	1/2	4,110.61	1/2	3,748.95	1/2	3,387.30	1/2	3,025.64	1/2	2,663.99
3/4		3/4		3/4	5,185.86	3/4	4,826.45	3/4	4,464.73	3/4	4,103.08	3/4	3,741.42	3/4	3,379.76	3/4	3,018.11	3/4	2,656.45
5		5		5	5,178.46	5	4,818.92	5	4,457.20	5	4,095.54	5	3,733.88	5	3,372.23	5	3,010.57	5	2,648.92
1/4		1/4		1/4	5,171.06	1/4	4,811.39	1/4	4,449.66	1/4	4,088.01	1/4	3,726.35	1/4	3,364.69	1/4	3,003.04	1/4	2,641.38
1/2		1/2		1/2	5,163.66	1/2	4,803.86	1/2	4,442.13	1/2	4,080.47	1/2	3,718.82	1/2	3,357.16	1/2	2,995.50	1/2	2,633.85
3/4		3/4		3/4	5,156.21	3/4	4,796.32	3/4	4,434.59	3/4	4,072.94	3/4	3,711.28	3/4	3,349.63	3/4	2,987.97	3/4	2,626.31
6		6		6	5,148.76	6	4,788.78	6	4,427.06	6	4,065.40	6	3,703.75	6	3,342.09	6	2,980.43	6	2,618.78
1/4		1/4		1/4	5,141.30	1/4	4,781.24	1/4	4,419.52	1/4	4,057.87	1/4	3,696.21	1/4	3,334.56	1/4	2,972.90	1/4	2,611.24
1/2		1/2		1/2	5,133.85	1/2	4,773.71	1/2	4,411.99	1/2	4,050.33	1/2	3,688.68	1/2	3,327.02	1/2	2,965.37	1/2	2,603.71
3/4		3/4		3/4	5,126.40	3/4	4,766.17	3/4	4,404.46	3/4	4,042.80	3/4	3,681.14	3/4	3,319.49	3/4	2,957.83	3/4	2,596.17
7		7		7	5,118.94	7	4,758.63	7	4,396.92	7	4,035.26	7	3,673.61	7	3,311.95	7	2,950.30	7	2,588.63
1/4		1/4		1/4	5,111.48	1/4	4,751.09	1/4	4,389.39	1/4	4,027.73	1/4	3,666.07	1/4	3,304.42	1/4	2,942.76	1/4	2,581.10
1/2		1/2		1/2	5,104.02	1/2	4,743.56	1/2	4,381.85	1/2	4,020.20	1/2	3,658.54	1/2	3,296.88	1/2	2,935.23	1/2	2,573.56
3/4		3/4		3/4	5,096.57	3/4	4,736.02	3/4	4,374.32	3/4	4,012.66	3/4	3,651.01	3/4	3,289.35	3/4	2,927.69	3/4	2,566.02
8		8		8	5,089.11	8	4,728.48	8	4,366.78	8	4,005.13	8	3,643.47	8	3,281.81	8	2,920.16	8	2,558.49
1/4		1/4		1/4	5,081.65	1/4	4,720.95	1/4	4,359.25	1/4	3,997.59	1/4	3,635.94	1/4	3,274.28	1/4	2,912.62	1/4	2,550.95
1/2		1/2		1/2	5,074.19	1/2	4,713.41	1/2	4,351.71	1/2	3,990.06	1/2	3,628.40	1/2	3,266.75	1/2	2,905.09	1/2	2,543.41
3/4		3/4		3/4	5,066.69	3/4	4,705.87	3/4	4,344.18	3/4	3,982.52	3/4	3,620.87	3/4	3,259.21	3/4	2,897.56	3/4	2,535.87
9		9		9	5,059.20	9	4,698.33	9	4,336.64	9	3,974.99	9	3,613.33	9	3,251.68	9	2,890.02	9	2,528.34
1/4		1/4		1/4	5,051.70	1/4	4,690.80	1/4	4,329.11	1/4	3,967.45	1/4	3,605.80	1/4	3,244.14	1/4	2,882.49	1/4	2,520.80
1/2		1/2		1/2	5,044.21	1/2	4,683.26	1/2	4,321.58	1/2	3,959.92	1/2	3,598.26	1/2	3,236.61	1/2	2,874.95	1/2	2,513.26
3/4		3/4		3/4	5,036.70	3/4	4,675.72	3/4	4,314.04	3/4	3,952.39	3/4	3,590.73	3/4	3,229.07	3/4	2,867.42	3/4	2,505.72
10		10		10	5,029.19	10	4,668.18	10	4,306.51	10	3,944.85	10	3,583.19	10	3,221.54	10	2,859.88	10	2,498.19
1/4		1/4		1/4	5,021.68	1/4	4,660.65	1/4	4,298.97	1/4	3,937.32	1/4	3,575.66	1/4	3,214.00	1/4	2,852.35	1/4	2,490.65
1/2		1/2		1/2	5,014.17	1/2	4,653.11	1/2	4,291.44	1/2	3,929.78	1/2	3,568.13	1/2	3,206.47	1/2	2,844.81	1/2	2,483.11
3/4		3/4		3/4	5,006.67	3/4	4,645.57	3/4	4,283.90	3/4	3,922.25	3/4	3,560.59	3/4	3,198.94	3/4	2,837.28	3/4	2,475.57
11		11		11	4,999.16	11	4,638.03	11	4,276.37	11	3,914.71	11	3,553.06	11	3,191.40	11	2,829.74	11	2,468.04
1/4		1/4		1/4	4,991.65	1/4	4,630.49	1/4	4,268.83	1/4	3,907.18	1/4	3,545.52	1/4	3,183.87	1/4	2,822.21	1/4	2,460.50
1/2		1/2		1/2	4,984.14	1/2	4,622.96	1/2	4,261.30	1/2	3,899.64	1/2	3,537.99	1/2	3,176.33	1/2	2,814.68	1/2	2,452.96
3/4		3/4		3/4	4,976.63	3/4	4,615.42	3/4	4,253.77	3/4	3,892.11	3/4	3,530.45	3/4	3,168.80	3/4	2,807.14	3/4	2,445.43

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "MOC 19"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,076.10	0	1,714.31	0	1,354.42	0	997.48	0	648.48	0	290.19	0		0		0		0	
1/4	2,068.56	1/4	1,706.77	1/4	1,346.88	1/4	990.31	1/4	640.94	1/4	282.86	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,061.02	1/2	1,699.23	1/2	1,339.34	1/2	983.14	1/2	633.40	1/2	275.53	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,053.49	3/4	1,691.70	3/4	1,331.80	3/4	975.97	3/4	625.87	3/4	268.20	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,045.95	1	1,684.16	1	1,324.27	1	968.81	1	618.33	1	260.87	1	1	1	1	1	1	1	1
1/4	2,038.41	1/4	1,676.62	1/4	1,316.73	1/4	961.64	1/4	610.79	1/4	253.54	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,030.87	1/2	1,669.08	1/2	1,309.19	1/2	954.47	1/2	603.25	1/2	246.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,023.34	3/4	1,661.55	3/4	1,301.65	3/4	947.30	3/4	595.72	3/4	238.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,015.80	2	1,654.01	2	1,294.12	2	940.13	2	588.18	2	231.55	2	2	2	2	2	2	2	2
1/4	2,008.26	1/4	1,646.47	1/4	1,286.58	1/4	932.97	1/4	580.64	1/4	224.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,000.72	1/2	1,638.93	1/2	1,279.04	1/2	925.80	1/2	573.10	1/2	216.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,993.19	3/4	1,631.40	3/4	1,271.51	3/4	918.63	3/4	565.57	3/4	209.56	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,985.65	3	1,623.86	3	1,263.97	3	911.46	3	558.03	3	202.23	3	3	3	3	3	3	3	3
1/4	1,978.11	1/4	1,616.32	1/4	1,256.43	1/4	904.30	1/4	550.49	1/4	194.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,970.58	1/2	1,608.79	1/2	1,248.89	1/2	897.13	1/2	542.95	1/2	187.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,963.04	3/4	1,601.25	3/4	1,241.36	3/4	889.96	3/4	535.42	3/4	180.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,955.50	4	1,593.71	4	1,233.82	4	882.79	4	527.88	4	172.62	4	4	4	4	4	4	4	4
1/4	1,947.96	1/4	1,586.17	1/4	1,226.28	1/4	875.62	1/4	520.34	1/4	165.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,940.43	1/2	1,578.64	1/2	1,218.74	1/2	868.46	1/2	512.80	1/2	157.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,932.89	3/4	1,571.19	3/4	1,211.21	3/4	861.29	3/4	505.27	3/4	150.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,925.35	5	1,563.74	5	1,203.67	5	854.12	5	497.73	5	142.67	5	5	5	5	5	5	5	5
1/4	1,917.81	1/4	1,556.29	1/4	1,196.13	1/4	846.95	1/4	490.19	1/4	135.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,910.28	1/2	1,548.84	1/2	1,188.60	1/2	839.79	1/2	482.65	1/2	127.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,902.74	3/4	1,541.42	3/4	1,181.06	3/4	832.61	3/4	475.12	3/4	120.19	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,895.20	6	1,534.01	6	1,173.52	6	825.43	6	467.58	6	112.71	6	6	6	6	6	6	6	6
1/4	1,887.67	1/4	1,526.59	1/4	1,165.98	1/4	818.25	1/4	460.04	1/4	105.24	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,880.13	1/2	1,519.17	1/2	1,158.45	1/2	811.08	1/2	452.50	1/2	97.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,872.59	3/4	1,511.75	3/4	1,150.91	3/4	803.90	3/4	444.97	3/4	90.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,865.05	7	1,504.33	7	1,143.37	7	796.72	7	437.43	7	83.71	7	7	7	7	7	7	7	7
1/4	1,857.52	1/4	1,496.91	1/4	1,135.83	1/4	789.54	1/4	429.89	1/4	76.69	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,849.98	1/2	1,489.49	1/2	1,128.30	1/2	782.36	1/2	422.35	1/2	69.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,842.44	3/4	1,482.08	3/4	1,120.77	3/4	775.18	3/4	414.97	3/4	63.73	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,834.90	8	1,474.66	8	1,113.24	8	768.00	8	407.59	8	57.79	8	8	8	8	8	8	8	8
1/4	1,827.37	1/4	1,467.24	1/4	1,105.71	1/4	760.82	1/4	400.21	1/4	51.86	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,819.83	1/2	1,459.82	1/2	1,098.18	1/2	753.64	1/2	392.82	1/2	45.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,812.29	3/4	1,452.31	3/4	1,090.93	3/4	746.19	3/4	385.49	3/4	41.25	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,804.76	9	1,444.80	9	1,083.67	9	738.74	9	378.16	9	36.57	9	9	9	9	9	9	9	9
1/4	1,797.22	1/4	1,437.30	1/4	1,076.41	1/4	731.30	1/4	370.83	1/4	31.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,789.68	1/2	1,429.79	1/2	1,069.15	1/2	723.85	1/2	363.50	1/2	27.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,782.14	3/4	1,422.25	3/4	1,061.99	3/4	716.31	3/4	356.17	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,774.61	10	1,414.71	10	1,054.82	10	708.77	10	348.84	10		10	10	10	10	10	10	10	10
1/4	1,767.07	1/4	1,407.18	1/4	1,047.65	1/4	701.24	1/4	341.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,759.53	1/2	1,399.64	1/2	1,040.48	1/2	693.70	1/2	334.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,751.99	3/4	1,392.10	3/4	1,033.32	3/4	686.16	3/4	326.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,744.46	11	1,384.57	11	1,026.15	11	678.63	11	319.52	11		11	11	11	11	11	11	11	11
1/4	1,736.92	1/4	1,377.03	1/4	1,018.98	1/4	671.09	1/4	312.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,729.38	1/2	1,369.49	1/2	1,011.81	1/2	663.55	1/2	304.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,721.84	3/4	1,361.95	3/4	1,004.64	3/4	656.02	3/4	297.52	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: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MOC 19"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	4,232.71	0	4,039.83	0	3,846.80	0	3,653.77	0	3,460.75	0	3,147.69	0	2,788.10	0	2,428.08
1/4	1/4	1/4	1/4	1/4	4,228.70	1/4	4,035.81	1/4	3,842.78	1/4	3,649.75	1/4	3,456.54	1/4	3,140.20	1/4	2,780.60	1/4	2,420.58
1/2	1/2	1/2	1/2	1/2	4,224.69	1/2	4,031.78	1/2	3,838.76	1/2	3,645.73	1/2	3,452.32	1/2	3,132.72	1/2	2,773.10	1/2	2,413.08
3/4	3/4	3/4	3/4	3/4	4,220.68	3/4	4,027.76	3/4	3,834.74	3/4	3,641.71	3/4	3,448.11	3/4	3,125.23	3/4	2,765.60	3/4	2,405.57
1	1	1	1	1	4,216.67	1	4,023.74	1	3,830.71	1	3,637.69	1	3,443.90	1	3,117.75	1	2,758.10	1	2,398.07
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,395.41	1 1/4	4,212.66	1 1/4	4,019.72	1 1/4	3,826.69	1 1/4	3,633.67	1 1/4	3,439.19	1 1/4	3,110.27	1 1/4	2,750.60
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,392.94	1 1/2	4,208.65	1 1/2	4,015.70	1 1/2	3,822.67	1 1/2	3,629.64	1 1/2	3,434.49	1 1/2	3,102.78	1 1/2	2,743.10
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	4,390.46	1 3/4	4,204.65	1 3/4	4,011.68	1 3/4	3,818.65	1 3/4	3,625.62	1 3/4	3,429.78	1 3/4	3,095.30	1 3/4	2,735.61
2	2	2	2	2	4,387.99	2	4,200.64	2	4,007.66	2	3,814.63	2	3,621.60	2	3,425.07	2	3,087.81	2	2,728.11
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	4,384.84	2 1/4	4,196.63	2 1/4	4,003.63	2 1/4	3,810.61	2 1/4	3,617.58	2 1/4	3,419.78	2 1/4	3,080.33	2 1/4	2,720.61
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	4,381.70	2 1/2	4,192.62	2 1/2	3,999.61	2 1/2	3,806.59	2 1/2	3,613.56	2 1/2	3,414.49	2 1/2	3,072.84	2 1/2	2,713.11
2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	4,378.55	2 3/4	4,188.61	2 3/4	3,995.59	2 3/4	3,802.56	2 3/4	3,609.54	2 3/4	3,409.20	2 3/4	3,065.36	2 3/4	2,705.61
3	3	3	3	3	4,375.40	3	4,184.60	3	3,991.57	3	3,798.54	3	3,605.52	3	3,403.92	3	3,057.87	3	2,698.11
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,371.66	3 1/4	4,180.59	3 1/4	3,987.55	3 1/4	3,794.52	3 1/4	3,601.49	3 1/4	3,398.05	3 1/4	3,050.39	3 1/4	2,690.61
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	4,367.92	3 1/2	4,176.58	3 1/2	3,983.53	3 1/2	3,790.50	3 1/2	3,597.47	3 1/2	3,392.18	3 1/2	3,042.90	3 1/2	2,683.11
3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	4,364.17	3 3/4	4,172.57	3 3/4	3,979.51	3 3/4	3,786.48	3 3/4	3,593.45	3 3/4	3,386.31	3 3/4	3,035.42	3 3/4	2,675.61
4	4	4	4	4	4,360.43	4	4,168.56	4	3,975.48	4	3,782.46	4	3,589.43	4	3,380.44	4	3,027.94	4	2,668.12
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4,356.48	4 1/4	4,164.54	4 1/4	3,971.46	4 1/4	3,778.44	4 1/4	3,585.41	4 1/4	3,374.00	4 1/4	3,020.45	4 1/4	2,660.62
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4,352.53	4 1/2	4,160.52	4 1/2	3,967.44	4 1/2	3,774.41	4 1/2	3,581.39	4 1/2	3,367.55	4 1/2	3,012.97	4 1/2	2,653.12
4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4,348.57	4 3/4	4,156.50	4 3/4	3,963.42	4 3/4	3,770.39	4 3/4	3,577.37	4 3/4	3,361.10	4 3/4	3,005.48	4 3/4	2,645.62
5	5	5	5	5	4,344.62	5	4,152.48	5	3,959.40	5	3,766.37	5	3,573.34	5	3,354.65	5	2,998.00	5	2,638.12
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	4,340.64	5 1/4	4,148.45	5 1/4	3,955.38	5 1/4	3,762.35	5 1/4	3,569.32	5 1/4	3,347.63	5 1/4	2,990.51	5 1/4	2,630.62
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	4,336.66	5 1/2	4,144.43	5 1/2	3,951.36	5 1/2	3,758.33	5 1/2	3,565.30	5 1/2	3,340.60	5 1/2	2,983.03	5 1/2	2,623.12
5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	4,332.68	5 3/4	4,140.41	5 3/4	3,947.34	5 3/4	3,754.31	5 3/4	3,561.28	5 3/4	3,333.57	5 3/4	2,975.54	5 3/4	2,615.62
6	6	6	6	6	4,328.70	6	4,136.38	6	3,943.31	6	3,750.29	6	3,557.26	6	3,326.55	6	2,968.06	6	2,608.12
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	4,324.72	6 1/4	4,132.36	6 1/4	3,939.29	6 1/4	3,746.27	6 1/4	3,553.24	6 1/4	3,319.17	6 1/4	2,960.56	6 1/4	2,600.62
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	4,320.74	6 1/2	4,128.33	6 1/2	3,935.27	6 1/2	3,742.24	6 1/2	3,549.22	6 1/2	3,311.79	6 1/2	2,953.07	6 1/2	2,593.12
6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	4,316.75	6 3/4	4,124.31	6 3/4	3,931.25	6 3/4	3,738.22	6 3/4	3,545.20	6 3/4	3,304.42	6 3/4	2,945.57	6 3/4	2,585.62
7	7	7	7	7	4,312.77	7	4,120.28	7	3,927.23	7	3,734.20	7	3,541.17	7	3,297.04	7	2,938.08	7	2,578.11
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	4,308.79	7 1/4	4,116.26	7 1/4	3,923.21	7 1/4	3,730.18	7 1/4	3,537.15	7 1/4	3,289.59	7 1/4	2,930.58	7 1/4	2,570.61
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	4,304.81	7 1/2	4,112.24	7 1/2	3,919.19	7 1/2	3,726.16	7 1/2	3,533.13	7 1/2	3,282.13	7 1/2	2,923.08	7 1/2	2,563.11
7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	4,300.82	7 3/4	4,108.21	7 3/4	3,915.16	7 3/4	3,722.14	7 3/4	3,529.11	7 3/4	3,274.68	7 3/4	2,915.58	7 3/4	2,555.61
8	8	8	8	8	4,296.84	8	4,104.19	8	3,911.14	8	3,718.12	8	3,525.09	8	3,267.23	8	2,908.08	8	2,548.11
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	4,292.84	8 1/4	4,100.16	8 1/4	3,907.12	8 1/4	3,714.09	8 1/4	3,521.07	8 1/4	3,259.77	8 1/4	2,900.58	8 1/4	2,540.61
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	4,288.83	8 1/2	4,096.14	8 1/2	3,903.10	8 1/2	3,710.07	8 1/2	3,517.05	8 1/2	3,252.31	8 1/2	2,893.08	8 1/2	2,533.10
8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	4,284.83	8 3/4	4,092.12	8 3/4	3,899.08	8 3/4	3,706.05	8 3/4	3,513.02	8 3/4	3,244.85	8 3/4	2,885.58	8 3/4	2,525.60
9	9	9	9	9	4,280.83	9	4,088.09	9	3,895.06	9	3,702.03	9	3,509.00	9	3,237.38	9	2,878.08	9	2,518.10
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	4,276.82	9 1/4	4,084.07	9 1/4	3,891.04	9 1/4	3,698.01	9 1/4	3,504.98	9 1/4	3,229.92	9 1/4	2,870.59	9 1/4	2,510.60
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	4,272.81	9 1/2	4,080.04	9 1/2	3,887.01	9 1/2	3,693.99	9 1/2	3,500.96	9 1/2	3,222.46	9 1/2	2,863.09	9 1/2	2,503.10
9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	4,268.80	9 3/4	4,076.02	9 3/4	3,882.99	9 3/4	3,689.97	9 3/4	3,496.94	9 3/4	3,215.00	9 3/4	2,855.59	9 3/4	2,495.59
10	10	10	10	10	4,264.79	10	4,071.99	10	3,878.97	10	3,685.94	10	3,492.92	10	3,207.54	10	2,848.09	10	2,488.09
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	4,260.78	10 1/4	4,067.97	10 1/4	3,874.95	10 1/4	3,681.92	10 1/4	3,488.90	10 1/4	3,200.06	10 1/4	2,840.59	10 1/4	2,480.59
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	4,256.77	10 1/2	4,063.95	10 1/2	3,870.93	10 1/2	3,677.90	10 1/2	3,484.87	10 1/2	3,192.58	10 1/2	2,833.09	10 1/2	2,473.09
10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	4,252.76	10 3/4	4,059.93	10 3/4	3,866.91	10 3/4	3,673.88	10 3/4	3,480.85	10 3/4	3,185.10	10 3/4	2,825.59	10 3/4	2,465.59
11	11	11	11	11	4,248.75	11	4,055.91	11	3,862.89	11	3,669.86	11	3,476.83	11	3,177.63	11	2,818.09	11	2,458.09
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	4,244.74	11 1/4	4,051.89	11 1/4	3,858.86	11 1/4	3,665.84	11 1/4	3,472.81	11 1/4	3,170.14	11 1/4	2,810.59	11 1/4	2,450.58
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	4,240.73	11 1/2	4,047.87	11 1/2	3,854.84	11 1/2	3,661.82	11 1/2	3,468.79	11 1/2	3,162.66	11 1/2	2,803.10	11 1/2	2,443.08
11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	4,236.72	11 3/4	4,043.85	11 3/4	3,850.82	11 3/4	3,657.79	11 3/4	3,464.77	11 3/4	3,155.17	11 3/4	2,795.60	11 3/4	2,435.58

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 THE TOP OF THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 55'-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 "MOC 19"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	2,068.00	0	1,707.92	0	1,350.05	0	990.20	0	630.38	0	274.22	0		0		0		0	
1/4	2,060.50	1/4	1,700.41	1/4	1,342.55	1/4	982.71	1/4	622.88	1/4	266.92	1/4		1/4		1/4		1/4	
1/2	2,052.99	1/2	1,692.91	1/2	1,335.05	1/2	975.23	1/2	615.38	1/2	259.63	1/2		1/2		1/2		1/2	
3/4	2,045.49	3/4	1,685.41	3/4	1,327.55	3/4	967.74	3/4	607.88	3/4	252.33	3/4		3/4		3/4		3/4	
1	2,037.99	1	1,677.91	1	1,320.05	1	960.25	1	600.37	1	245.04	1		1		1		1	
1 1/4	2,030.49	1 1/4	1,670.41	1 1/4	1,312.54	1 1/4	952.76	1 1/4	592.87	1 1/4	237.74	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,022.99	1 1/2	1,662.91	1 1/2	1,305.04	1 1/2	945.27	1 1/2	585.37	1 1/2	230.45	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,015.49	3/4	1,655.40	3/4	1,297.54	3/4	937.78	3/4	577.87	3/4	223.15	3/4		3/4		3/4		3/4	
2	2,007.98	2	1,647.90	2	1,290.04	2	930.29	2	570.37	2	215.86	2		2		2		2	
1 1/4	2,000.48	1 1/4	1,640.40	1 1/4	1,282.54	1 1/4	922.80	1 1/4	562.87	1 1/4	208.56	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,992.98	1 1/2	1,632.90	1 1/2	1,275.04	1 1/2	915.31	1 1/2	555.36	1 1/2	201.26	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,985.48	3/4	1,625.40	3/4	1,267.53	3/4	907.82	3/4	547.86	3/4	193.97	3/4		3/4		3/4		3/4	
3	1,977.98	3	1,617.90	3	1,260.03	3	900.33	3	540.36	3	186.67	3		3		3		3	
1 1/4	1,970.48	1 1/4	1,610.39	1 1/4	1,252.53	1 1/4	892.84	1 1/4	532.86	1 1/4	179.24	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,962.97	1 1/2	1,602.89	1 1/2	1,245.03	1 1/2	885.35	1 1/2	525.36	1 1/2	171.80	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,955.47	3/4	1,595.39	3/4	1,237.53	3/4	877.86	3/4	517.85	3/4	164.36	3/4		3/4		3/4		3/4	
4	1,947.97	4	1,587.89	4	1,230.03	4	870.37	4	510.35	4	156.92	4		4		4		4	
1 1/4	1,940.47	1 1/4	1,580.49	1 1/4	1,222.52	1 1/4	862.88	1 1/4	502.85	1 1/4	149.46	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,932.97	1 1/2	1,573.09	1 1/2	1,215.02	1 1/2	855.39	1 1/2	495.35	1 1/2	141.99	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,925.47	3/4	1,565.50	3/4	1,207.52	3/4	847.90	3/4	487.85	3/4	134.53	3/4		3/4		3/4		3/4	
5	1,917.96	5	1,558.30	5	1,200.02	5	840.41	5	480.35	5	127.06	5		5		5		5	
1 1/4	1,910.46	1 1/4	1,550.94	1 1/4	1,192.52	1 1/4	832.92	1 1/4	472.84	1 1/4	119.62	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,902.96	1 1/2	1,543.57	1 1/2	1,185.02	1 1/2	825.42	1 1/2	465.34	1 1/2	112.18	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,895.46	3/4	1,536.21	3/4	1,177.51	3/4	817.92	3/4	457.84	3/4	104.74	3/4		3/4		3/4		3/4	
6	1,887.96	6	1,528.85	6	1,170.01	6	810.42	6	450.34	6	97.30	6		6		6		6	
1 1/4	1,880.46	1 1/4	1,521.48	1 1/4	1,162.51	1 1/4	802.92	1 1/4	442.84	1 1/4	90.30	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,872.95	1 1/2	1,514.12	1 1/2	1,155.01	1 1/2	795.42	1 1/2	435.33	1 1/2	83.31	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,865.45	3/4	1,506.76	3/4	1,147.51	3/4	787.92	3/4	427.83	3/4	76.32	3/4		3/4		3/4		3/4	
7	1,857.95	7	1,499.40	7	1,140.01	7	780.41	7	420.33	7	69.33	7		7		7		7	
1 1/4	1,850.45	1 1/4	1,492.03	1 1/4	1,132.51	1 1/4	772.91	1 1/4	412.98	1 1/4	63.43	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,842.95	1 1/2	1,484.67	1 1/2	1,125.02	1 1/2	765.41	1 1/2	405.64	1 1/2	57.52	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,835.45	3/4	1,477.31	3/4	1,117.53	3/4	757.91	3/4	398.29	3/4	51.61	3/4		3/4		3/4		3/4	
8	1,827.94	8	1,469.94	8	1,110.04	8	750.41	8	390.94	8	45.71	8		8		8		8	
1 1/4	1,820.44	1 1/4	1,462.48	1 1/4	1,102.55	1 1/4	742.91	1 1/4	383.65	1 1/4	41.05	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,812.94	1 1/2	1,455.01	1 1/2	1,095.06	1 1/2	735.41	1 1/2	376.35	1 1/2	36.39	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,805.44	3/4	1,447.54	3/4	1,087.57	3/4	727.90	3/4	369.06	3/4	31.74	3/4		3/4		3/4		3/4	
9	1,797.94	9	1,440.07	9	1,080.08	9	720.40	9	361.76	9	27.08	9		9		9		9	
1 1/4	1,790.44	1 1/4	1,432.57	1 1/4	1,072.59	1 1/4	712.90	1 1/4	354.47	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,782.93	1 1/2	1,425.07	1 1/2	1,065.10	1 1/2	705.40	1 1/2	347.17	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,775.43	3/4	1,417.57	3/4	1,057.61	3/4	697.90	3/4	339.88	3/4		3/4		3/4		3/4		3/4	
10	1,767.93	10	1,410.07	10	1,050.12	10	690.40	10	332.58	10		10		10		10		10	
1 1/4	1,760.43	1 1/4	1,402.57	1 1/4	1,042.63	1 1/4	682.90	1 1/4	325.28	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,752.93	1 1/2	1,395.06	1 1/2	1,035.14	1 1/2	675.39	1 1/2	317.99	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,745.42	3/4	1,387.56	3/4	1,027.65	3/4	667.89	3/4	310.69	3/4		3/4		3/4		3/4		3/4	
11	1,737.92	11	1,380.06	11	1,020.16	11	660.39	11	303.40	11		11		11		11		11	
1 1/4	1,730.42	1 1/4	1,372.56	1 1/4	1,012.67	1 1/4	652.89	1 1/4	296.10	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,722.92	1 1/2	1,365.06	1 1/2	1,005.18	1 1/2	645.39	1 1/2	288.81	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,715.42	3/4	1,357.55	3/4	997.69	3/4	637.88	3/4	281.51	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "MOC 19"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,213.06	0	4,020.22	0	3,827.10	0	3,633.99	0	3,440.88	0	3,135.14	0	2,776.15	0	2,416.69
1/4		1/4		1/4	4,209.05	1/4	4,016.19	1/4	3,823.08	1/4	3,629.97	1/4	3,436.85	1/4	3,127.67	1/4	2,768.66	1/4	2,409.20
1/2		1/2		1/2	4,205.04	1/2	4,012.17	1/2	3,819.06	1/2	3,625.94	1/2	3,432.83	1/2	3,120.20	1/2	2,761.17	1/2	2,401.71
3/4		3/4		3/4	4,201.03	3/4	4,008.15	3/4	3,815.03	3/4	3,621.92	3/4	3,428.62	3/4	3,112.72	3/4	2,753.69	3/4	2,394.22
1		1		1	4,197.02	1	4,004.12	1	3,811.01	1	3,617.90	1	3,424.41	1	3,105.25	1	2,746.20	1	2,386.73
1/4		1/4		1/4	4,193.02	1/4	4,000.10	1/4	3,806.99	1/4	3,613.87	1/4	3,420.20	1/4	3,097.78	1/4	2,738.72	1/4	2,379.24
1/2		1/2		1/2	4,189.01	1/2	3,996.08	1/2	3,802.96	1/2	3,609.85	1/2	3,415.99	1/2	3,090.30	1/2	2,731.23	1/2	2,371.75
3/4		3/4		3/4	4,367.70	3/4	4,185.00	3/4	3,992.05	3/4	3,798.94	3/4	3,605.83	3/4	3,411.28	3/4	3,082.83	3/4	2,723.74
2		2		2	4,365.23	2	4,180.99	2	3,988.03	2	3,794.92	2	3,601.80	2	3,406.57	2	3,075.35	2	2,716.26
1/4		1/4		1/4	4,362.75	1/4	4,176.98	1/4	3,984.01	1/4	3,790.89	1/4	3,597.78	1/4	3,401.86	1/4	3,067.88	1/4	2,708.77
1/2		1/2		1/2	4,360.28	1/2	4,172.97	1/2	3,979.98	1/2	3,786.87	1/2	3,593.76	1/2	3,397.15	1/2	3,060.41	1/2	2,701.28
3/4		3/4		3/4	4,357.13	3/4	4,168.96	3/4	3,975.96	3/4	3,782.85	3/4	3,589.73	3/4	3,391.87	3/4	3,052.93	3/4	2,693.79
3		3		3	4,353.99	3	4,164.95	3	3,971.94	3	3,778.82	3	3,585.71	3	3,386.59	3	3,045.46	3	2,686.30
1/4		1/4		1/4	4,350.84	1/4	4,160.95	1/4	3,967.91	1/4	3,774.80	1/4	3,581.69	1/4	3,381.31	1/4	3,037.99	1/4	2,678.81
1/2		1/2		1/2	4,347.70	1/2	4,156.94	1/2	3,963.89	1/2	3,770.78	1/2	3,577.66	1/2	3,376.03	1/2	3,030.51	1/2	2,671.32
3/4		3/4		3/4	4,343.96	3/4	4,152.93	3/4	3,959.87	3/4	3,766.75	3/4	3,573.64	3/4	3,370.18	3/4	3,023.04	3/4	2,663.83
4		4		4	4,340.21	4	4,148.92	4	3,955.84	4	3,762.73	4	3,569.62	4	3,364.32	4	3,015.57	4	2,656.34
1/4		1/4		1/4	4,336.47	1/4	4,144.91	1/4	3,951.82	1/4	3,758.71	1/4	3,565.59	1/4	3,358.47	1/4	3,008.09	1/4	2,648.85
1/2		1/2		1/2	4,332.73	1/2	4,140.90	1/2	3,947.80	1/2	3,754.68	1/2	3,561.57	1/2	3,352.61	1/2	3,000.62	1/2	2,641.36
3/4		3/4		3/4	4,328.78	3/4	4,136.88	3/4	3,943.78	3/4	3,750.66	3/4	3,557.55	3/4	3,346.17	3/4	2,993.14	3/4	2,633.88
5		5		5	4,324.83	5	4,132.86	5	3,939.75	5	3,746.64	5	3,553.52	5	3,339.74	5	2,985.67	5	2,626.39
1/4		1/4		1/4	4,320.87	1/4	4,128.84	1/4	3,935.73	1/4	3,742.62	1/4	3,549.50	1/4	3,333.30	1/4	2,978.20	1/4	2,618.90
1/2		1/2		1/2	4,316.92	1/2	4,124.82	1/2	3,931.71	1/2	3,738.59	1/2	3,545.48	1/2	3,326.86	1/2	2,970.72	1/2	2,611.41
3/4		3/4		3/4	4,312.94	3/4	4,120.80	3/4	3,927.68	3/4	3,734.57	3/4	3,541.46	3/4	3,319.85	3/4	2,963.25	3/4	2,603.92
6		6		6	4,308.97	6	4,116.77	6	3,923.66	6	3,730.55	6	3,537.43	6	3,312.83	6	2,955.78	6	2,596.43
1/4		1/4		1/4	4,304.99	1/4	4,112.75	1/4	3,919.64	1/4	3,726.52	1/4	3,533.41	1/4	3,305.82	1/4	2,948.30	1/4	2,588.94
1/2		1/2		1/2	4,301.01	1/2	4,108.73	1/2	3,915.61	1/2	3,722.50	1/2	3,529.39	1/2	3,298.80	1/2	2,940.83	1/2	2,581.45
3/4		3/4		3/4	4,297.03	3/4	4,104.70	3/4	3,911.59	3/4	3,718.48	3/4	3,525.36	3/4	3,291.44	3/4	2,933.34	3/4	2,573.96
7		7		7	4,293.04	7	4,100.68	7	3,907.57	7	3,714.45	7	3,521.34	7	3,284.07	7	2,925.86	7	2,566.47
1/4		1/4		1/4	4,289.06	1/4	4,096.66	1/4	3,903.54	1/4	3,710.43	1/4	3,517.32	1/4	3,276.70	1/4	2,918.37	1/4	2,558.98
1/2		1/2		1/2	4,285.08	1/2	4,092.63	1/2	3,899.52	1/2	3,706.41	1/2	3,513.29	1/2	3,269.34	1/2	2,910.89	1/2	2,551.49
3/4		3/4		3/4	4,281.10	3/4	4,088.61	3/4	3,895.50	3/4	3,702.38	3/4	3,509.27	3/4	3,261.90	3/4	2,903.40	3/4	2,544.01
8		8		8	4,277.12	8	4,084.59	8	3,891.47	8	3,698.36	8	3,505.25	8	3,254.45	8	2,895.92	8	2,536.52
1/4		1/4		1/4	4,273.14	1/4	4,080.56	1/4	3,887.45	1/4	3,694.34	1/4	3,501.22	1/4	3,247.01	1/4	2,888.43	1/4	2,529.03
1/2		1/2		1/2	4,269.15	1/2	4,076.54	1/2	3,883.43	1/2	3,690.31	1/2	3,497.20	1/2	3,239.57	1/2	2,880.94	1/2	2,521.54
3/4		3/4		3/4	4,265.15	3/4	4,072.52	3/4	3,879.40	3/4	3,686.29	3/4	3,493.18	3/4	3,232.12	3/4	2,873.46	3/4	2,514.05
9		9		9	4,261.15	9	4,068.49	9	3,875.38	9	3,682.27	9	3,489.15	9	3,224.67	9	2,865.97	9	2,506.56
1/4		1/4		1/4	4,257.15	1/4	4,064.47	1/4	3,871.36	1/4	3,678.24	1/4	3,485.13	1/4	3,217.22	1/4	2,858.49	1/4	2,499.07
1/2		1/2		1/2	4,253.15	1/2	4,060.45	1/2	3,867.33	1/2	3,674.22	1/2	3,481.11	1/2	3,209.77	1/2	2,851.00	1/2	2,491.58
3/4		3/4		3/4	4,249.14	3/4	4,056.42	3/4	3,863.31	3/4	3,670.20	3/4	3,477.08	3/4	3,202.32	3/4	2,843.52	3/4	2,484.09
10		10		10	4,245.13	10	4,052.40	10	3,859.29	10	3,666.17	10	3,473.06	10	3,194.87	10	2,836.03	10	2,476.60
1/4		1/4		1/4	4,241.12	1/4	4,048.38	1/4	3,855.26	1/4	3,662.15	1/4	3,469.04	1/4	3,187.42	1/4	2,828.54	1/4	2,469.11
1/2		1/2		1/2	4,237.11	1/2	4,044.36	1/2	3,851.24	1/2	3,658.13	1/2	3,465.01	1/2	3,179.97	1/2	2,821.06	1/2	2,461.62
3/4		3/4		3/4	4,233.10	3/4	4,040.33	3/4	3,847.22	3/4	3,654.10	3/4	3,460.99	3/4	3,172.50	3/4	2,813.57	3/4	2,454.13
11		11		11	4,229.09	11	4,036.31	11	3,843.20	11	3,650.08	11	3,456.97	11	3,165.03	11	2,806.09	11	2,446.65
1/4		1/4		1/4	4,225.08	1/4	4,032.29	1/4	3,839.17	1/4	3,646.06	1/4	3,452.94	1/4	3,157.56	1/4	2,798.60	1/4	2,439.16
1/2		1/2		1/2	4,221.08	1/2	4,028.26	1/2	3,835.15	1/2	3,642.04	1/2	3,448.92	1/2	3,150.09	1/2	2,791.12	1/2	2,431.67
3/4		3/4		3/4	4,217.07	3/4	4,024.24	3/4	3,831.13	3/4	3,638.01	3/4	3,444.90	3/4	3,142.62	3/4	2,783.63	3/4	2,424.18

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 THE TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77558

<http://www.pmacorp.net>



BARGE "MOC 19"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,057.21	0	1,697.73	0	1,340.66	0	988.32	0	644.66	0	288.57	0		0		0		0	
1/4	2,049.72	1/4	1,690.24	1/4	1,333.19	1/4	981.31	1/4	637.17	1/4	281.29	1/4		1/4		1/4		1/4	
1/2	2,042.23	1/2	1,682.75	1/2	1,325.72	1/2	974.30	1/2	629.68	1/2	274.00	1/2		1/2		1/2		1/2	
3/4	2,034.74	3/4	1,675.26	3/4	1,318.25	3/4	967.29	3/4	622.19	3/4	266.72	3/4		3/4		3/4		3/4	
1	2,027.25	1	1,667.77	1	1,310.79	1	960.27	1	614.70	1	259.43	1		1		1		1	
1 1/4	2,019.76	1 1/4	1,660.28	1 1/4	1,303.32	1 1/4	953.26	1 1/4	607.20	1 1/4	252.15	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,012.27	1 1/2	1,652.79	1 1/2	1,295.85	1 1/2	946.25	1 1/2	599.71	1 1/2	244.86	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,004.78	3/4	1,645.30	3/4	1,288.38	3/4	939.24	3/4	592.22	3/4	237.58	3/4		3/4		3/4		3/4	
2	1,997.29	2	1,637.81	2	1,280.91	2	932.22	2	584.73	2	230.29	2		2		2		2	
1 1/4	1,989.80	1 1/4	1,630.32	1 1/4	1,273.45	1 1/4	925.21	1 1/4	577.24	1 1/4	223.01	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,982.32	1 1/2	1,622.83	1 1/2	1,265.98	1 1/2	918.20	1 1/2	569.75	1 1/2	215.72	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,974.83	3/4	1,615.34	3/4	1,258.51	3/4	911.19	3/4	562.25	3/4	208.44	3/4		3/4		3/4		3/4	
3	1,967.34	3	1,607.86	3	1,251.04	3	904.17	3	554.76	3	201.15	3		3		3		3	
1 1/4	1,959.85	1 1/4	1,600.37	1 1/4	1,243.57	1 1/4	897.16	1 1/4	547.27	1 1/4	193.87	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,952.36	1 1/2	1,592.88	1 1/2	1,236.11	1 1/2	890.15	1 1/2	539.78	1 1/2	186.58	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,944.87	3/4	1,585.39	3/4	1,228.64	3/4	883.14	3/4	532.29	3/4	179.16	3/4		3/4		3/4		3/4	
4	1,937.38	4	1,577.90	4	1,221.17	4	876.12	4	524.80	4	171.73	4		4		4		4	
1 1/4	1,929.89	1 1/4	1,570.41	1 1/4	1,213.70	1 1/4	869.11	1 1/4	517.30	1 1/4	164.30	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,922.40	1 1/2	1,562.92	1 1/2	1,206.23	1 1/2	862.10	1 1/2	509.81	1 1/2	156.88	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,914.91	3/4	1,555.44	3/4	1,198.77	3/4	855.05	3/4	502.32	3/4	149.42	3/4		3/4		3/4		3/4	
5	1,907.42	5	1,548.15	5	1,191.30	5	848.01	5	494.83	5	141.96	5		5		5		5	
1 1/4	1,899.93	1 1/4	1,540.77	1 1/4	1,183.83	1 1/4	840.96	1 1/4	487.34	1 1/4	134.51	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,892.44	1 1/2	1,533.38	1 1/2	1,176.36	1 1/2	833.92	1 1/2	479.84	1 1/2	127.05	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,884.96	3/4	1,526.03	3/4	1,168.90	3/4	826.85	3/4	472.35	3/4	119.62	3/4		3/4		3/4		3/4	
6	1,877.47	6	1,518.68	6	1,161.43	6	819.79	6	464.86	6	112.18	6		6		6		6	
1 1/4	1,869.98	1 1/4	1,511.33	1 1/4	1,153.96	1 1/4	812.72	1 1/4	457.37	1 1/4	104.75	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,862.49	1 1/2	1,503.98	1 1/2	1,146.49	1 1/2	805.66	1 1/2	449.88	1 1/2	97.31	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,855.00	3/4	1,496.63	3/4	1,139.04	3/4	798.59	3/4	442.39	3/4	90.32	3/4		3/4		3/4		3/4	
7	1,847.51	7	1,489.28	7	1,131.59	7	791.52	7	434.89	7	83.33	7		7		7		7	
1 1/4	1,840.02	1 1/4	1,481.93	1 1/4	1,124.13	1 1/4	784.46	1 1/4	427.40	1 1/4	76.34	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,832.53	1 1/2	1,474.58	1 1/2	1,116.68	1 1/2	777.39	1 1/2	419.91	1 1/2	69.35	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,825.04	3/4	1,467.23	3/4	1,109.24	3/4	770.32	3/4	412.57	3/4	63.44	3/4		3/4		3/4		3/4	
8	1,817.55	8	1,459.88	8	1,101.80	8	763.25	8	405.24	8	57.53	8		8		8		8	
1 1/4	1,810.06	1 1/4	1,452.53	1 1/4	1,094.36	1 1/4	756.18	1 1/4	397.90	1 1/4	51.63	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,802.57	1 1/2	1,445.18	1 1/2	1,086.92	1 1/2	749.12	1 1/2	390.56	1 1/2	45.72	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,795.09	3/4	1,437.72	3/4	1,079.80	3/4	741.73	3/4	383.28	3/4	41.06	3/4		3/4		3/4		3/4	
9	1,787.60	9	1,430.27	9	1,072.69	9	734.35	9	375.99	9	36.41	9		9		9		9	
1 1/4	1,780.11	1 1/4	1,422.81	1 1/4	1,065.57	1 1/4	726.96	1 1/4	368.71	1 1/4	31.75	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,772.62	1 1/2	1,415.36	1 1/2	1,058.45	1 1/2	719.57	1 1/2	361.42	1 1/2	27.09	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,765.13	3/4	1,407.88	3/4	1,051.44	3/4	712.08	3/4	354.14	3/4		3/4		3/4		3/4		3/4	
10	1,757.64	10	1,400.41	10	1,044.42	10	704.59	10	346.85	10		10		10		10		10	
1 1/4	1,750.15	1 1/4	1,392.94	1 1/4	1,037.41	1 1/4	697.10	1 1/4	339.57	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,742.66	1 1/2	1,385.46	1 1/2	1,030.40	1 1/2	689.61	1 1/2	332.28	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,735.17	3/4	1,378.00	3/4	1,023.39	3/4	682.12	3/4	325.00	3/4		3/4		3/4		3/4		3/4	
11	1,727.68	11	1,370.53	11	1,016.37	11	674.63	11	317.71	11		11		11		11		11	
1 1/4	1,720.19	1 1/4	1,363.06	1 1/4	1,009.36	1 1/4	667.14	1 1/4	310.43	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,712.70	1 1/2	1,355.59	1 1/2	1,002.35	1 1/2	659.65	1 1/2	303.14	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,705.21	3/4	1,348.12	3/4	995.34	3/4	652.15	3/4	295.86	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
PRINTED: 01/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
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