



BARGE "MM 330"

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 "MM 330"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	4,984.66	0	4,622.53	0	4,260.02	0	3,897.51	0	3,535.00	0	3,172.49	0	2,809.98	0	2,447.41
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	1/4	2,439.86
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	1/2	2,432.30
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	3/4	2,424.75
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	2,417.19
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	1/4	2,772.22
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	1/2	2,764.67
3/4		3/4		3/4	5,280.74	3/4	4,931.97	3/4	4,207.16	3/4	3,844.64	3/4	3,482.13	3/4	3,119.62	3/4	2,757.11	3/4	2,394.53
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	2	2,749.56
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	1/4	2,742.01
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	1/2	2,734.46
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	3/4	2,726.90
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	3	2,719.35
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	1/4	2,711.80
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	1/2	2,704.25
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	3/4	2,696.70
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	4	2,689.14
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	1/4	2,681.59
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	1/2	2,674.04
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	3/4	2,666.49
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	5	2,658.93
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	1/4	2,651.38
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	1/2	2,643.83
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	3/4	2,636.28
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	6	2,628.72
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	1/4	2,621.17
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	1/2	2,613.62
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	3/4	2,606.07
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	7	2,598.51
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	1/4	2,590.96
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	1/2	2,583.40
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	3/4	2,575.85
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	8	2,568.29
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	1/4	2,560.74
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	1/2	2,553.18
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	3/4	2,545.63
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	9	2,538.07
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	1/4	2,530.52
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	1/2	2,522.96
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	3/4	2,515.41
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	10	2,507.85
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	1/4	2,500.30
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	1/2	2,492.74
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	3/4	2,485.19
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	11	2,477.63
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	1/4	2,470.08
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	1/2	2,462.52
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	3/4	2,454.97

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.

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BARGE "MM 330"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	46.03	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	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
NAME CHANGE: 07/14/17

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "MM 330"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	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	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	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	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
1/4		1/4		1/4	4,960.94	1/4	4,598.69	1/4	4,236.05	1/4	3,873.41	1/4	3,510.77	1/4	3,148.13	1/4	2,785.49	1/4	2,422.85
1/2		1/2		1/2	4,953.42	1/2	4,591.13	1/2	4,228.49	1/2	3,865.85	1/2	3,503.21	1/2	3,140.57	1/2	2,777.93	1/2	2,415.29
3/4		3/4	5,288.90	3/4	4,945.89	3/4	4,583.58	3/4	4,220.94	3/4	3,858.30	3/4	3,495.66	3/4	3,133.02	3/4	2,770.38	3/4	2,407.74
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	2,400.18
1/4		1/4	5,279.61	1/4	4,930.84	1/4	4,568.47	1/4	4,205.83	1/4	3,843.19	1/4	3,480.55	1/4	3,117.91	1/4	2,755.27	1/4	2,392.63
1/2		1/2	5,274.97	1/2	4,923.31	1/2	4,560.91	1/2	4,198.27	1/2	3,835.63	1/2	3,472.99	1/2	3,110.35	1/2	2,747.71	1/2	2,385.07
3/4		3/4	5,269.06	3/4	4,915.79	3/4	4,553.36	3/4	4,190.72	3/4	3,828.08	3/4	3,465.44	3/4	3,102.80	3/4	2,740.16	3/4	2,377.52
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	2,369.96
1/4		1/4	5,257.26	1/4	4,900.74	1/4	4,538.25	1/4	4,175.61	1/4	3,812.97	1/4	3,450.33	1/4	3,087.69	1/4	2,725.05	1/4	2,362.41
1/2		1/2	5,251.35	1/2	4,893.21	1/2	4,530.69	1/2	4,168.05	1/2	3,805.41	1/2	3,442.77	1/2	3,080.13	1/2	2,717.49	1/2	2,354.85
3/4		3/4	5,244.32	3/4	4,885.68	3/4	4,523.14	3/4	4,160.50	3/4	3,797.86	3/4	3,435.22	3/4	3,072.58	3/4	2,709.94	3/4	2,347.30
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	2,339.74
1/4		1/4	5,230.27	1/4	4,870.63	1/4	4,508.03	1/4	4,145.39	1/4	3,782.75	1/4	3,420.11	1/4	3,057.47	1/4	2,694.83	1/4	2,332.19
1/2		1/2	5,223.24	1/2	4,863.11	1/2	4,500.47	1/2	4,137.83	1/2	3,775.19	1/2	3,412.55	1/2	3,049.91	1/2	2,687.27	1/2	2,324.63
3/4		3/4	5,215.83	3/4	4,855.55	3/4	4,492.92	3/4	4,130.28	3/4	3,767.64	3/4	3,405.00	3/4	3,042.36	3/4	2,679.72	3/4	2,317.08
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	2,309.52
1/4		1/4	5,200.99	1/4	4,840.45	1/4	4,477.81	1/4	4,115.17	1/4	3,752.53	1/4	3,389.89	1/4	3,027.25	1/4	2,664.61	1/4	2,301.97
1/2		1/2	5,193.57	1/2	4,832.89	1/2	4,470.25	1/2	4,107.61	1/2	3,744.97	1/2	3,382.33	1/2	3,019.69	1/2	2,657.05	1/2	2,294.41
3/4		3/4	5,186.10	3/4	4,825.34	3/4	4,462.70	3/4	4,100.06	3/4	3,737.42	3/4	3,374.78	3/4	3,012.14	3/4	2,649.50	3/4	2,286.86
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	2,279.30
1/4		1/4	5,171.16	1/4	4,810.23	1/4	4,447.59	1/4	4,084.95	1/4	3,722.31	1/4	3,359.67	1/4	2,997.03	1/4	2,634.39	1/4	2,271.75
1/2		1/2	5,163.69	1/2	4,802.67	1/2	4,440.03	1/2	4,077.39	1/2	3,714.75	1/2	3,352.11	1/2	2,989.47	1/2	2,626.83	1/2	2,264.19
3/4		3/4	5,156.22	3/4	4,795.12	3/4	4,432.48	3/4	4,069.84	3/4	3,707.20	3/4	3,344.56	3/4	2,981.92	3/4	2,619.28	3/4	2,256.64
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	2,249.08
1/4		1/4	5,141.27	1/4	4,780.01	1/4	4,417.37	1/4	4,054.73	1/4	3,692.09	1/4	3,329.45	1/4	2,966.81	1/4	2,604.17	1/4	2,241.53
1/2		1/2	5,133.79	1/2	4,772.45	1/2	4,409.81	1/2	4,047.17	1/2	3,684.53	1/2	3,321.89	1/2	2,959.25	1/2	2,596.61	1/2	2,233.97
3/4		3/4	5,126.32	3/4	4,764.90	3/4	4,402.26	3/4	4,039.62	3/4	3,676.98	3/4	3,314.34	3/4	2,951.70	3/4	2,589.06	3/4	2,226.42
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	2,218.86
1/4		1/4	5,111.36	1/4	4,749.79	1/4	4,387.15	1/4	4,024.51	1/4	3,661.87	1/4	3,299.23	1/4	2,936.59	1/4	2,573.95	1/4	2,211.31
1/2		1/2	5,103.89	1/2	4,742.23	1/2	4,379.59	1/2	4,016.95	1/2	3,654.31	1/2	3,291.67	1/2	2,929.03	1/2	2,566.39	1/2	2,203.75
3/4		3/4	5,096.37	3/4	4,734.68	3/4	4,372.04	3/4	4,009.40	3/4	3,646.76	3/4	3,284.12	3/4	2,921.48	3/4	2,558.84	3/4	2,196.20
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	2,188.64
1/4		1/4	5,081.35	1/4	4,719.57	1/4	4,356.93	1/4	3,994.29	1/4	3,631.65	1/4	3,269.01	1/4	2,906.37	1/4	2,543.73	1/4	2,181.09
1/2		1/2	5,073.83	1/2	4,712.01	1/2	4,349.37	1/2	3,986.73	1/2	3,624.09	1/2	3,261.45	1/2	2,898.81	1/2	2,536.17	1/2	2,173.53
3/4		3/4	5,066.31	3/4	4,704.46	3/4	4,341.82	3/4	3,979.18	3/4	3,616.54	3/4	3,253.90	3/4	2,891.26	3/4	2,528.62	3/4	2,165.98
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	2,158.42
1/4		1/4	5,051.26	1/4	4,689.35	1/4	4,326.71	1/4	3,964.07	1/4	3,601.43	1/4	3,238.79	1/4	2,876.15	1/4	2,513.51	1/4	2,150.87
1/2		1/2	5,043.73	1/2	4,681.79	1/2	4,319.15	1/2	3,956.51	1/2	3,593.87	1/2	3,231.23	1/2	2,868.59	1/2	2,505.95	1/2	2,143.31
3/4		3/4	5,036.20	3/4	4,674.24	3/4	4,311.60	3/4	3,948.96	3/4	3,586.32	3/4	3,223.68	3/4	2,861.04	3/4	2,498.40	3/4	2,135.76
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	2,128.20
1/4		1/4	5,021.15	1/4	4,659.13	1/4	4,296.49	1/4	3,933.85	1/4	3,571.21	1/4	3,208.57	1/4	2,845.93	1/4	2,483.29	1/4	2,120.65
1/2		1/2	5,013.63	1/2	4,651.57	1/2	4,288.93	1/2	3,926.29	1/2	3,563.65	1/2	3,201.01	1/2	2,838.37	1/2	2,475.73	1/2	2,113.09
3/4		3/4	5,006.10	3/4	4,644.02	3/4	4,281.38	3/4	3,918.74	3/4	3,556.10	3/4	3,193.46	3/4	2,830.82	3/4	2,468.18	3/4	2,105.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN 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 "MM 330"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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		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	1,924.22	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	1,546.58	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
NAME CHANGE: 07/14/17

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MM 330"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	4,564.21	2	4,202.59	2	3,840.98	2	3,479.37	2	3,117.75	2	2,756.14
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	2,748.61
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	2,741.07
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	2,733.54
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	2,726.01
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	2,718.47
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	2,710.94
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	2,703.41
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	2,695.87
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	2,688.34
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	2,680.81
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	2,673.27
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	2,665.74
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	2,658.20
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	2,650.67
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	2,643.14
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	2,635.60
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	2,628.07
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	2,620.54
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	2,613.00
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	2,605.46
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	2,597.93
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	2,590.39
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	2,582.85
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	2,575.32
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	2,567.78
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	2,560.24
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	2,552.71
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	2,545.17
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	2,537.64
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	2,530.10
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	2,522.56
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	2,515.03
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	2,507.49
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	2,499.95
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	2,492.42
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	2,484.88
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	2,477.34
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	2,469.81
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	2,462.27

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 "MM 330"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	90.22	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
NAME CHANGE: 07/14/17

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "MM 330"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	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	3/4	2,385.13
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	2	2,377.59
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	1/4	2,370.05
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	1/2	2,362.52
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	3/4	2,354.98
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	3	2,347.44
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	1/4	2,339.90
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	1/2	2,332.37
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	3/4	2,324.83
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	4	2,317.29
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	1/4	2,309.75
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	1/2	2,302.22
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	3/4	2,294.68
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	5	2,287.14
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	1/4	2,279.60
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	1/2	2,272.07
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	3/4	2,264.53
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	6	2,256.99
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	1/4	2,249.46
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	1/2	2,241.92
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	3/4	2,234.38
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	7	2,226.84
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	1/4	2,219.31
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	1/2	2,211.77
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	3/4	2,204.23
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	8	2,196.69
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	1/4	2,189.16
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	1/2	2,181.62
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	3/4	2,174.08
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	9	2,166.55
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	1/4	2,159.01
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	1/2	2,151.47
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	3/4	2,143.93
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	10	2,136.40
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	1/4	2,128.86
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	1/2	2,121.32
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	3/4	2,113.78
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	11	2,106.25
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	1/4	2,098.71
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	1/2	2,091.17
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	3/4	2,083.64

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 "MM 330"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	
1/2	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	
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	
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	
1/4	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	
1/2	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	
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	
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	
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	
1/2	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	
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	1,985.65	3	1,623.86	3	1,263.97	3	911.46	3	558.03	3	202.23	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	
1/2	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	
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	
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	
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	
1/2	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	
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	
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	
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	
1/2	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	
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	
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	
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	
1/2	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	
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	
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	
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	
1/2	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	
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	
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	
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	
1/2	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	
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	
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	
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	
1/2	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	
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	
10	1,774.61	10	1,414.71	10	1,054.82	10	708.77	10	348.84	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	
1/2	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	
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	
11	1,744.46	11	1,384.57	11	1,026.15	11	678.63	11	319.52	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	
1/2	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	
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	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2013 CL -
CALCULATED: 01/03/2013 CL
NAME CHANGE: 07/14/17

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "MM 330"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	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	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	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	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
1/4		1/4	4,395.41	1/4	4,212.66	1/4	4,019.72	1/4	3,826.69	1/4	3,633.67	1/4	3,439.19	1/4	3,110.27	1/4	2,750.60	1/4	2,390.57
1/2		1/2	4,392.94	1/2	4,208.65	1/2	4,015.70	1/2	3,822.67	1/2	3,629.64	1/2	3,434.49	1/2	3,102.78	1/2	2,743.10	1/2	2,383.07
3/4		3/4	4,390.46	3/4	4,204.65	3/4	4,011.68	3/4	3,818.65	3/4	3,625.62	3/4	3,429.78	3/4	3,095.30	3/4	2,735.61	3/4	2,375.57
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	2,368.07
1/4		1/4	4,384.84	1/4	4,196.63	1/4	4,003.63	1/4	3,810.61	1/4	3,617.58	1/4	3,419.78	1/4	3,080.33	1/4	2,720.61	1/4	2,360.56
1/2		1/2	4,381.70	1/2	4,192.62	1/2	3,999.61	1/2	3,806.59	1/2	3,613.56	1/2	3,414.49	1/2	3,072.84	1/2	2,713.11	1/2	2,353.06
3/4		3/4	4,378.55	3/4	4,188.61	3/4	3,995.59	3/4	3,802.56	3/4	3,609.54	3/4	3,409.20	3/4	3,065.36	3/4	2,705.61	3/4	2,345.56
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	2,338.06
1/4		1/4	4,371.66	1/4	4,180.59	1/4	3,987.55	1/4	3,794.52	1/4	3,601.49	1/4	3,398.05	1/4	3,050.39	1/4	2,690.61	1/4	2,330.56
1/2		1/2	4,367.92	1/2	4,176.58	1/2	3,983.53	1/2	3,790.50	1/2	3,597.47	1/2	3,392.18	1/2	3,042.90	1/2	2,683.11	1/2	2,323.06
3/4		3/4	4,364.17	3/4	4,172.57	3/4	3,979.51	3/4	3,786.48	3/4	3,593.45	3/4	3,386.31	3/4	3,035.42	3/4	2,675.61	3/4	2,315.55
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	2,308.05
1/4		1/4	4,356.48	1/4	4,164.54	1/4	3,971.46	1/4	3,778.44	1/4	3,585.41	1/4	3,374.00	1/4	3,020.45	1/4	2,660.62	1/4	2,300.55
1/2		1/2	4,352.53	1/2	4,160.52	1/2	3,967.44	1/2	3,774.41	1/2	3,581.39	1/2	3,367.55	1/2	3,012.97	1/2	2,653.12	1/2	2,293.05
3/4		3/4	4,348.57	3/4	4,156.50	3/4	3,963.42	3/4	3,770.39	3/4	3,577.37	3/4	3,361.10	3/4	3,005.48	3/4	2,645.62	3/4	2,285.55
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	2,278.05
1/4		1/4	4,340.64	1/4	4,148.45	1/4	3,955.38	1/4	3,762.35	1/4	3,569.32	1/4	3,347.63	1/4	2,990.51	1/4	2,630.62	1/4	2,270.54
1/2		1/2	4,336.66	1/2	4,144.43	1/2	3,951.36	1/2	3,758.33	1/2	3,565.30	1/2	3,340.60	1/2	2,983.03	1/2	2,623.12	1/2	2,263.04
3/4		3/4	4,332.68	3/4	4,140.41	3/4	3,947.34	3/4	3,754.31	3/4	3,561.28	3/4	3,333.57	3/4	2,975.54	3/4	2,615.62	3/4	2,255.54
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	2,248.04
1/4		1/4	4,324.72	1/4	4,132.36	1/4	3,939.29	1/4	3,746.27	1/4	3,553.24	1/4	3,319.17	1/4	2,960.56	1/4	2,600.62	1/4	2,240.54
1/2		1/2	4,320.74	1/2	4,128.33	1/2	3,935.27	1/2	3,742.24	1/2	3,549.22	1/2	3,311.79	1/2	2,953.07	1/2	2,593.12	1/2	2,233.04
3/4		3/4	4,316.75	3/4	4,124.31	3/4	3,931.25	3/4	3,738.22	3/4	3,545.20	3/4	3,304.42	3/4	2,945.57	3/4	2,585.62	3/4	2,225.53
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	2,218.03
1/4		1/4	4,308.79	1/4	4,116.26	1/4	3,923.21	1/4	3,730.18	1/4	3,537.15	1/4	3,289.59	1/4	2,930.58	1/4	2,570.61	1/4	2,210.53
1/2		1/2	4,304.81	1/2	4,112.24	1/2	3,919.19	1/2	3,726.16	1/2	3,533.13	1/2	3,282.13	1/2	2,923.08	1/2	2,563.11	1/2	2,203.03
3/4		3/4	4,300.82	3/4	4,108.21	3/4	3,915.16	3/4	3,722.14	3/4	3,529.11	3/4	3,274.68	3/4	2,915.58	3/4	2,555.61	3/4	2,195.53
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	2,188.03
1/4		1/4	4,292.84	1/4	4,100.16	1/4	3,907.12	1/4	3,714.09	1/4	3,521.07	1/4	3,259.77	1/4	2,900.58	1/4	2,540.61	1/4	2,180.52
1/2		1/2	4,288.83	1/2	4,096.14	1/2	3,903.10	1/2	3,710.07	1/2	3,517.05	1/2	3,252.31	1/2	2,893.08	1/2	2,533.10	1/2	2,173.02
3/4		3/4	4,284.83	3/4	4,092.12	3/4	3,899.08	3/4	3,706.05	3/4	3,513.02	3/4	3,244.85	3/4	2,885.58	3/4	2,525.60	3/4	2,165.52
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	2,158.02
1/4		1/4	4,276.82	1/4	4,084.07	1/4	3,891.04	1/4	3,698.01	1/4	3,504.98	1/4	3,229.92	1/4	2,870.59	1/4	2,510.60	1/4	2,150.52
1/2		1/2	4,272.81	1/2	4,080.04	1/2	3,887.01	1/2	3,693.99	1/2	3,500.96	1/2	3,222.46	1/2	2,863.09	1/2	2,503.10	1/2	2,143.02
3/4		3/4	4,268.80	3/4	4,076.02	3/4	3,882.99	3/4	3,689.97	3/4	3,496.94	3/4	3,215.00	3/4	2,855.59	3/4	2,495.59	3/4	2,135.51
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	2,128.01
1/4		1/4	4,260.78	1/4	4,067.97	1/4	3,874.95	1/4	3,681.92	1/4	3,488.90	1/4	3,200.06	1/4	2,840.59	1/4	2,480.59	1/4	2,120.51
1/2		1/2	4,256.77	1/2	4,063.95	1/2	3,870.93	1/2	3,677.90	1/2	3,484.87	1/2	3,192.58	1/2	2,833.09	1/2	2,473.09	1/2	2,113.01
3/4		3/4	4,252.76	3/4	4,059.93	3/4	3,866.91	3/4	3,673.88	3/4	3,480.85	3/4	3,185.10	3/4	2,825.59	3/4	2,465.59	3/4	2,105.51
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	2,098.00
1/4		1/4	4,244.74	1/4	4,051.89	1/4	3,858.86	1/4	3,665.84	1/4	3,472.81	1/4	3,170.14	1/4	2,810.59	1/4	2,450.58	1/4	2,090.50
1/2		1/2	4,240.73	1/2	4,047.87	1/2	3,854.84	1/2	3,661.82	1/2	3,468.79	1/2	3,162.66	1/2	2,803.10	1/2	2,443.08	1/2	2,083.00
3/4		3/4	4,236.72	3/4	4,043.85	3/4	3,850.82	3/4	3,657.79	3/4	3,464.77	3/4	3,155.17	3/4	2,795.60	3/4	2,435.58	3/4	2,075.50

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 55'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "MM 330"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	
1/4	2,030.49	1/4	1,670.41	1/4	1,312.54	1/4	952.76	1/4	592.87	1/4	237.74	1/4		1/4		1/4		1/4	
1/2	2,022.99	1/2	1,662.91	1/2	1,305.04	1/2	945.27	1/2	585.37	1/2	230.45	1/2		1/2		1/2		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	
1/4	2,000.48	1/4	1,640.40	1/4	1,282.54	1/4	922.80	1/4	562.87	1/4	208.56	1/4		1/4		1/4		1/4	
1/2	1,992.98	1/2	1,632.90	1/2	1,275.04	1/2	915.31	1/2	555.36	1/2	201.26	1/2		1/2		1/2		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	
1/4	1,970.48	1/4	1,610.39	1/4	1,252.53	1/4	892.84	1/4	532.86	1/4	179.24	1/4		1/4		1/4		1/4	
1/2	1,962.97	1/2	1,602.89	1/2	1,245.03	1/2	885.35	1/2	525.36	1/2	171.80	1/2		1/2		1/2		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	
1/4	1,940.47	1/4	1,580.49	1/4	1,222.52	1/4	862.88	1/4	502.85	1/4	149.46	1/4		1/4		1/4		1/4	
1/2	1,932.97	1/2	1,573.09	1/2	1,215.02	1/2	855.39	1/2	495.35	1/2	141.99	1/2		1/2		1/2		1/2	
3/4	1,925.47	3/4	1,565.70	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	
1/4	1,910.46	1/4	1,550.94	1/4	1,192.52	1/4	832.92	1/4	472.84	1/4	119.62	1/4		1/4		1/4		1/4	
1/2	1,902.96	1/2	1,543.57	1/2	1,185.02	1/2	825.42	1/2	465.34	1/2	112.18	1/2		1/2		1/2		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	
1/4	1,880.46	1/4	1,521.48	1/4	1,162.51	1/4	802.92	1/4	442.84	1/4	90.30	1/4		1/4		1/4		1/4	
1/2	1,872.95	1/2	1,514.12	1/2	1,155.01	1/2	795.42	1/2	435.33	1/2	83.31	1/2		1/2		1/2		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	
1/4	1,850.45	1/4	1,492.03	1/4	1,132.51	1/4	772.91	1/4	412.98	1/4	63.43	1/4		1/4		1/4		1/4	
1/2	1,842.95	1/2	1,484.67	1/2	1,125.02	1/2	765.41	1/2	405.64	1/2	57.52	1/2		1/2		1/2		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	
1/4	1,820.44	1/4	1,462.48	1/4	1,102.55	1/4	742.91	1/4	383.65	1/4	41.05	1/4		1/4		1/4		1/4	
1/2	1,812.94	1/2	1,455.01	1/2	1,095.06	1/2	735.41	1/2	376.35	1/2	36.39	1/2		1/2		1/2		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	
1/4	1,790.44	1/4	1,432.57	1/4	1,072.59	1/4	712.90	1/4	354.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,782.93	1/2	1,425.07	1/2	1,065.10	1/2	705.40	1/2	347.17	1/2		1/2		1/2		1/2		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	
1/4	1,760.43	1/4	1,402.57	1/4	1,042.63	1/4	682.90	1/4	325.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,752.93	1/2	1,395.06	1/2	1,035.14	1/2	675.39	1/2	317.99	1/2		1/2		1/2		1/2		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	
1/4	1,730.42	1/4	1,372.56	1/4	1,012.67	1/4	652.89	1/4	296.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,722.92	1/2	1,365.06	1/2	1,005.18	1/2	645.39	1/2	288.81	1/2		1/2		1/2		1/2		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
NAME CHANGE: 07/14/17

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

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



BARGE "MM 330"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	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	3/4	2,364.26
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	2	2,356.78
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	1/4	2,349.29
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	1/2	2,341.80
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	3/4	2,334.31
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	3	2,326.82
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	1/4	2,319.33
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	1/2	2,311.84
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	3/4	2,304.35
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	4	2,296.86
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	1/4	2,289.37
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	1/2	2,281.88
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	3/4	2,274.39
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	5	2,266.90
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	1/4	2,259.42
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	1/2	2,251.93
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	3/4	2,244.44
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	6	2,236.95
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	1/4	2,229.46
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	1/2	2,221.97
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	3/4	2,214.48
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	7	2,206.99
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	1/4	2,199.50
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	1/2	2,192.01
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	3/4	2,184.52
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	8	2,177.03
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	1/4	2,169.55
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	1/2	2,162.06
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	3/4	2,154.57
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	9	2,147.08
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	1/4	2,139.59
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	1/2	2,132.10
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	3/4	2,124.61
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	10	2,117.12
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	1/4	2,109.63
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	1/2	2,102.14
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	3/4	2,094.65
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	11	2,087.16
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	1/4	2,079.67
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	1/2	2,072.19
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	3/4	2,064.70

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 55'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 330"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "MOC 19"

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	1/4	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	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	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	
1/4	2,019.76	1/4	1,660.28	1/4	1,303.32	1/4	953.26	1/4	607.20	1/4	252.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,012.27	1/2	1,652.79	1/2	1,295.85	1/2	946.25	1/2	599.71	1/2	244.86	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,989.80	1/4	1,630.32	1/4	1,273.45	1/4	925.21	1/4	577.24	1/4	223.01	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,982.32	1/2	1,622.83	1/2	1,265.98	1/2	918.20	1/2	569.75	1/2	215.72	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	3/4	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	
1/4	1,959.85	1/4	1,600.37	1/4	1,243.57	1/4	897.16	1/4	547.27	1/4	193.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,952.36	1/2	1,592.88	1/2	1,236.11	1/2	890.15	1/2	539.78	1/2	186.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,929.89	1/4	1,570.41	1/4	1,213.70	1/4	869.11	1/4	517.30	1/4	164.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,922.40	1/2	1,562.92	1/2	1,206.23	1/2	862.10	1/2	509.81	1/2	156.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,899.93	1/4	1,540.77	1/4	1,183.83	1/4	840.96	1/4	487.34	1/4	134.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,892.44	1/2	1,533.38	1/2	1,176.36	1/2	833.92	1/2	479.84	1/2	127.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,869.98	1/4	1,511.33	1/4	1,153.96	1/4	812.72	1/4	457.37	1/4	104.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,862.49	1/2	1,503.98	1/2	1,146.49	1/2	805.66	1/2	449.88	1/2	97.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,840.02	1/4	1,481.93	1/4	1,124.13	1/4	784.46	1/4	427.40	1/4	76.34	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,832.53	1/2	1,474.58	1/2	1,116.68	1/2	777.39	1/2	419.91	1/2	69.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,810.06	1/4	1,452.53	1/4	1,094.36	1/4	756.18	1/4	397.90	1/4	51.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,802.57	1/2	1,445.18	1/2	1,086.92	1/2	749.12	1/2	390.56	1/2	45.72	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,780.11	1/4	1,422.81	1/4	1,065.57	1/4	726.96	1/4	368.71	1/4	31.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,772.62	1/2	1,415.36	1/2	1,058.45	1/2	719.57	1/2	361.42	1/2	27.09	1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,750.15	1/4	1,392.94	1/4	1,037.41	1/4	697.10	1/4	339.57	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,742.66	1/2	1,385.46	1/2	1,030.40	1/2	689.61	1/2	332.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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	
1/4	1,720.19	1/4	1,363.06	1/4	1,009.36	1/4	667.14	1/4	310.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,712.70	1/2	1,355.59	1/2	1,002.35	1/2	659.65	1/2	303.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	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	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
NAME CHANGE: 07/14/17

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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