



# BARGE "406"

## 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	- 00-0/8	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 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
4 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
4 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
5 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
5 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
6 PORT	00-5/8	- 00-5/8	01-3/8	- 01-3/8	02-0/8	- 02-0/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4	04-0/8	- 04-0/8
6 STBD	00-5/8	- 00-5/8	01-3/8	- 01-3/8	02-0/8	- 02-0/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4	04-0/8	- 04-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 223'-00"

October 24, 2007

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

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# BARGE "406"

# 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	1,827.96	0	1,644.99	0	1,480.56	0	1,316.06	0	1,151.56	0	987.06	0	822.56	0	658.06
1/4	1/4	1/4	1/4	1/4	1,823.33	1/4	1,641.57	1/4	1,477.14	1/4	1,312.64	1/4	1,148.14	1/4	983.63	1/4	819.13	1/4	654.63
1/2	1/2	1/2	1/2	1/2	1,818.70	1/2	1,638.15	1/2	1,473.71	1/2	1,309.21	1/2	1,144.71	1/2	980.21	1/2	815.71	1/2	651.21
3/4	3/4	3/4	3/4	3/4	1,814.07	3/4	1,634.73	3/4	1,470.28	3/4	1,305.78	3/4	1,141.28	3/4	976.78	3/4	812.28	3/4	647.78
1		1		1	1,809.41	1	1,631.31	1	1,466.86	1	1,302.35	1	1,137.85	1	973.35	1	808.85	1	644.35
1/4	1/4	1/4	1/4	1/4	1,804.75	1/4	1,627.90	1/4	1,463.43	1/4	1,298.93	1/4	1,134.43	1/4	969.93	1/4	805.43	1/4	640.92
1/2	1/2	1/2	1/2	1/2	1,800.09	1/2	1,624.48	1/2	1,460.00	1/2	1,295.50	1/2	1,131.00	1/2	966.50	1/2	802.00	1/2	637.50
3/4	3/4	3/4	3/4	3/4	1,795.44	3/4	1,621.06	3/4	1,456.57	3/4	1,292.07	3/4	1,127.57	3/4	963.07	3/4	798.57	3/4	634.07
2		2		2	1,790.74	2	1,617.64	2	1,453.15	2	1,288.65	2	1,124.15	2	959.64	2	795.14	2	630.64
1/4	1/4	1/4	1/4	1/4	1,786.05	1/4	1,614.22	1/4	1,449.72	1/4	1,285.22	1/4	1,120.72	1/4	956.22	1/4	791.72	1/4	627.22
1/2	1/2	1/2	1/2	1/2	1,781.36	1/2	1,610.80	1/2	1,446.29	1/2	1,281.79	1/2	1,117.29	1/2	952.79	1/2	788.29	1/2	623.79
3/4	3/4	3/4	3/4	3/4	1,776.66	3/4	1,607.38	3/4	1,442.87	3/4	1,278.37	3/4	1,113.86	3/4	949.36	3/4	784.86	3/4	620.36
3		3		3	1,772.27	3	1,603.95	3	1,439.44	3	1,274.94	3	1,110.44	3	945.94	3	781.44	3	616.93
1/4	1/4	1/4	1/4	1/4	1,767.88	1/4	1,600.52	1/4	1,436.01	1/4	1,271.51	1/4	1,107.01	1/4	942.51	1/4	778.01	1/4	613.51
1/2	1/2	1/2	1/2	1/2	1,763.48	1/2	1,597.09	1/2	1,432.58	1/2	1,268.08	1/2	1,103.58	1/2	939.08	1/2	774.58	1/2	610.08
3/4	3/4	3/4	3/4	3/4	1,759.09	3/4	1,593.66	3/4	1,429.16	3/4	1,264.66	3/4	1,100.16	3/4	935.66	3/4	771.16	3/4	606.65
4		4		4	1,755.34	4	1,590.23	4	1,425.73	4	1,261.23	4	1,096.73	4	932.23	4	767.73	4	603.22
1/4	1/4	1/4	1/4	1/4	1,751.60	1/4	1,586.80	1/4	1,422.30	1/4	1,257.80	1/4	1,093.30	1/4	928.80	1/4	764.30	1/4	599.80
1/2	1/2	1/2	1/2	1/2	1,747.86	1/2	1,583.38	1/2	1,418.88	1/2	1,254.38	1/2	1,089.87	1/2	925.37	1/2	760.87	1/2	596.37
3/4	3/4	3/4	3/4	3/4	1,744.11	3/4	1,579.95	3/4	1,415.45	3/4	1,250.95	3/4	1,086.45	3/4	921.95	3/4	757.45	3/4	592.94
5		5		5	1,740.69	5	1,576.52	5	1,412.02	5	1,247.52	5	1,083.02	5	918.52	5	754.02	5	589.52
1/4	1/4	1/4	1/4	1/4	1,737.28	1/4	1,573.10	1/4	1,408.59	1/4	1,244.09	1/4	1,079.59	1/4	915.09	1/4	750.59	1/4	586.09
1/2	1/2	1/2	1/2	1/2	1,733.86	1/2	1,569.67	1/2	1,405.17	1/2	1,240.67	1/2	1,076.17	1/2	911.67	1/2	747.17	1/2	582.66
3/4	3/4	3/4	3/4	3/4	1,730.44	3/4	1,566.24	3/4	1,401.74	3/4	1,237.24	3/4	1,072.74	3/4	908.24	3/4	743.74	3/4	579.23
6		6		6	1,727.02	6	1,562.81	6	1,398.31	6	1,233.81	6	1,069.31	6	904.81	6	740.31	6	575.81
1/4	1/4	1/4	1/4	1/4	1,723.60	1/4	1,559.39	1/4	1,394.89	1/4	1,230.39	1/4	1,065.88	1/4	901.38	1/4	736.88	1/4	572.38
1/2	1/2	1/2	1/2	1/2	1,720.19	1/2	1,555.96	1/2	1,391.46	1/2	1,226.96	1/2	1,062.46	1/2	897.96	1/2	733.46	1/2	568.96
3/4	3/4	3/4	3/4	3/4	1,914.07	3/4	1,716.77	3/4	1,552.53	3/4	1,388.03	3/4	1,223.53	3/4	1,059.03	3/4	894.53	3/4	565.52
7		7		7	1,910.88	7	1,713.35	7	1,549.11	7	1,384.61	7	1,220.10	7	1,055.60	7	891.10	7	562.11
1/4	1/4	1/4	1/4	1/4	1,907.69	1/4	1,709.93	1/4	1,545.68	1/4	1,381.18	1/4	1,216.68	1/4	1,052.18	1/4	887.68	1/4	558.70
1/2	1/2	1/2	1/2	1/2	1,904.50	1/2	1,706.51	1/2	1,542.25	1/2	1,377.75	1/2	1,213.25	1/2	1,048.75	1/2	884.25	1/2	555.29
3/4	3/4	3/4	3/4	3/4	1,901.31	3/4	1,703.09	3/4	1,538.82	3/4	1,374.32	3/4	1,209.82	3/4	1,045.32	3/4	880.82	3/4	551.88
8		8		8	1,897.57	8	1,699.68	8	1,535.40	8	1,370.90	8	1,206.40	8	1,041.90	8	877.39	8	548.50
1/4	1/4	1/4	1/4	1/4	1,893.82	1/4	1,696.26	1/4	1,531.97	1/4	1,367.47	1/4	1,202.97	1/4	1,038.47	1/4	873.97	1/4	545.13
1/2	1/2	1/2	1/2	1/2	1,890.07	1/2	1,692.84	1/2	1,528.54	1/2	1,364.04	1/2	1,199.54	1/2	1,035.04	1/2	870.54	1/2	541.75
3/4	3/4	3/4	3/4	3/4	1,886.32	3/4	1,689.42	3/4	1,525.12	3/4	1,360.62	3/4	1,196.11	3/4	1,031.61	3/4	867.11	3/4	538.37
9		9		9	1,882.05	9	1,686.00	9	1,521.69	9	1,357.19	9	1,192.69	9	1,028.19	9	863.69	9	535.01
1/4	1/4	1/4	1/4	1/4	1,877.77	1/4	1,682.59	1/4	1,518.26	1/4	1,353.76	1/4	1,189.26	1/4	1,024.76	1/4	860.26	1/4	531.65
1/2	1/2	1/2	1/2	1/2	1,873.49	1/2	1,679.17	1/2	1,514.84	1/2	1,350.33	1/2	1,185.83	1/2	1,021.33	1/2	856.83	1/2	528.29
3/4	3/4	3/4	3/4	3/4	1,869.21	3/4	1,675.75	3/4	1,511.41	3/4	1,346.91	3/4	1,182.41	3/4	1,017.91	3/4	853.40	3/4	524.93
10		10		10	1,864.65	10	1,672.33	10	1,507.98	10	1,343.48	10	1,178.98	10	1,014.48	10	849.98	10	521.57
1/4	1/4	1/4	1/4	1/4	1,860.10	1/4	1,668.91	1/4	1,504.55	1/4	1,340.05	1/4	1,175.55	1/4	1,011.05	1/4	846.55	1/4	518.20
1/2	1/2	1/2	1/2	1/2	1,855.54	1/2	1,665.50	1/2	1,501.13	1/2	1,336.63	1/2	1,172.13	1/2	1,007.62	1/2	843.12	1/2	514.84
3/4	3/4	3/4	3/4	3/4	1,850.99	3/4	1,662.08	3/4	1,497.70	3/4	1,333.20	3/4	1,168.70	3/4	1,004.20	3/4	839.70	3/4	511.48
11		11		11	1,846.39	11	1,658.66	11	1,494.27	11	1,329.77	11	1,165.27	11	1,000.77	11	836.27	11	508.12
1/4	1/4	1/4	1/4	1/4	1,841.79	1/4	1,655.24	1/4	1,490.85	1/4	1,326.34	1/4	1,161.84	1/4	997.34	1/4	832.84	1/4	504.76
1/2	1/2	1/2	1/2	1/2	1,837.19	1/2	1,651.82	1/2	1,487.42	1/2	1,322.92	1/2	1,158.42	1/2	993.92	1/2	829.42	1/2	501.40
3/4	3/4	3/4	3/4	3/4	1,832.59	3/4	1,648.41	3/4	1,483.99	3/4	1,319.49	3/4	1,154.99	3/4	990.49	3/4	825.99	3/4	498.04

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "406"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	494.68	0	332.23	0	167.72	0		0		0		0		0		0		0	
1/4	491.31	1/4	328.80	1/4	164.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	487.95	1/2	325.37	1/2	160.87	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	484.59	3/4	321.94	3/4	157.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	481.23	1	318.52	1	154.02	1		1		1		1		1		1		1	
1/4	477.87	1/4	315.09	1/4	150.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	474.51	1/2	311.66	1/2	147.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	471.15	3/4	308.24	3/4	143.73	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	467.79	2	304.81	2	140.31	2		2		2		2		2		2		2	
1/4	464.42	1/4	301.38	1/4	136.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	461.06	1/2	297.95	1/2	133.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	457.70	3/4	294.53	3/4	130.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	454.34	3	291.10	3	126.60	3		3		3		3		3		3		3	
1/4	450.98	1/4	287.67	1/4	123.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	447.62	1/2	284.25	1/2	119.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.26	3/4	280.82	3/4	116.33	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	440.90	4	277.39	4	112.91	4		4		4		4		4		4		4	
1/4	437.53	1/4	273.96	1/4	109.49	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.17	1/2	270.54	1/2	106.06	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.81	3/4	267.11	3/4	102.64	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	427.45	5	263.68	5	99.23	5		5		5		5		5		5		5	
1/4	424.09	1/4	260.26	1/4	95.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.73	1/2	256.83	1/2	92.40	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	417.37	3/4	253.40	3/4	88.98	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	413.99	6	249.98	6	85.57	6		6		6		6		6		6		6	
1/4	410.61	1/4	246.55	1/4	82.17	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	407.23	1/2	243.12	1/2	78.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.86	3/4	239.69	3/4	75.35	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	400.46	7	236.27	7	71.96	7		7		7		7		7		7		7	
1/4	397.07	1/4	232.84	1/4	68.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393.68	1/2	229.41	1/2	65.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	390.28	3/4	225.99	3/4	61.77	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	386.89	8	222.56	8	58.39	8		8		8		8		8		8		8	
1/4	383.50	1/4	219.13	1/4	55.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	380.11	1/2	215.70	1/2	51.63	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	376.71	3/4	212.28	3/4	48.25	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	373.30	9	208.85	9	45.00	9		9		9		9		9		9		9	
1/4	369.89	1/4	205.42	1/4	41.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	366.48	1/2	202.00	1/2	38.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	363.07	3/4	198.57	3/4	35.24	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	359.64	10	195.14	10	32.39	10		10		10		10		10		10		10	
1/4	356.22	1/4	191.71	1/4	29.54	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	352.79	1/2	188.29	1/2	26.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	349.36	3/4	184.86	3/4	23.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	345.93	11	181.43	11	21.55	11		11		11		11		11		11		11	
1/4	342.51	1/4	178.01	1/4	19.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	339.08	1/2	174.58	1/2	16.98	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	335.65	3/4	171.15	3/4	14.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

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



# BARGE "406"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	1,820.52	0	1,639.42	0	1,475.03	0	1,310.57	0	1,146.12	0	981.66	0	817.20	0	652.74
1/4	1/4	1/4	1/4	1/4	1,815.89	1/4	1,636.00	1/4	1,471.61	1/4	1,307.15	1/4	1,142.69	1/4	978.23	1/4	813.78	1/4	649.32
1/2	1/2	1/2	1/2	1/2	1,811.25	1/2	1,632.58	1/2	1,468.18	1/2	1,303.72	1/2	1,139.26	1/2	974.81	1/2	810.35	1/2	645.89
3/4	3/4	3/4	3/4	3/4	1,806.59	3/4	1,629.17	3/4	1,464.75	3/4	1,300.30	3/4	1,135.84	3/4	971.38	3/4	806.92	3/4	642.47
1		1		1	1,801.93	1	1,625.75	1	1,461.33	1	1,296.87	1	1,132.41	1	967.95	1	803.50	1	639.04
1/4	1/4	1/4	1/4	1/4	1,797.28	1/4	1,622.33	1/4	1,457.90	1/4	1,293.44	1/4	1,128.99	1/4	964.53	1/4	800.07	1/4	635.61
1/2	1/2	1/2	1/2	1/2	1,792.60	1/2	1,618.91	1/2	1,454.48	1/2	1,290.02	1/2	1,125.56	1/2	961.10	1/2	796.64	1/2	632.19
3/4	3/4	3/4	3/4	3/4	1,787.91	3/4	1,615.50	3/4	1,451.05	3/4	1,286.59	3/4	1,122.13	3/4	957.68	3/4	793.22	3/4	628.76
2		2		2	1,783.22	2	1,612.08	2	1,447.62	2	1,283.17	2	1,118.71	2	954.25	2	789.79	2	625.33
1/4	1/4	1/4	1/4	1/4	1,778.53	1/4	1,608.66	1/4	1,444.20	1/4	1,279.74	1/4	1,115.28	1/4	950.82	1/4	786.37	1/4	621.91
1/2	1/2	1/2	1/2	1/2	1,773.99	1/2	1,605.23	1/2	1,440.77	1/2	1,276.31	1/2	1,111.86	1/2	947.40	1/2	782.94	1/2	618.48
3/4	3/4	3/4	3/4	3/4	1,769.60	3/4	1,601.81	3/4	1,437.34	3/4	1,272.89	3/4	1,108.43	3/4	943.97	3/4	779.51	3/4	615.06
3		3		3	1,765.20	3	1,598.38	3	1,433.92	3	1,269.46	3	1,105.00	3	940.55	3	776.09	3	611.63
1/4	1/4	1/4	1/4	1/4	1,760.81	1/4	1,594.95	1/4	1,430.49	1/4	1,266.03	1/4	1,101.58	1/4	937.12	1/4	772.66	1/4	608.20
1/2	1/2	1/2	1/2	1/2	1,756.74	1/2	1,591.52	1/2	1,427.07	1/2	1,262.61	1/2	1,098.15	1/2	933.69	1/2	769.24	1/2	604.78
3/4	3/4	3/4	3/4	3/4	1,753.00	3/4	1,588.10	3/4	1,423.64	3/4	1,259.18	3/4	1,094.72	3/4	930.27	3/4	765.81	3/4	601.35
4		4		4	1,749.26	4	1,584.67	4	1,420.21	4	1,255.76	4	1,091.30	4	926.84	4	762.38	4	597.92
1/4	1/4	1/4	1/4	1/4	1,745.52	1/4	1,581.24	1/4	1,416.79	1/4	1,252.33	1/4	1,087.87	1/4	923.41	1/4	758.96	1/4	594.50
1/2	1/2	1/2	1/2	1/2	1,741.94	1/2	1,577.82	1/2	1,413.36	1/2	1,248.90	1/2	1,084.45	1/2	919.99	1/2	755.53	1/2	591.07
3/4	3/4	3/4	3/4	3/4	1,738.52	3/4	1,574.39	3/4	1,409.93	3/4	1,245.48	3/4	1,081.02	3/4	916.56	3/4	752.10	3/4	587.64
5		5		5	1,735.10	5	1,570.97	5	1,406.51	5	1,242.05	5	1,077.59	5	913.14	5	748.68	5	584.22
1/4	1/4	1/4	1/4	1/4	1,731.68	1/4	1,567.54	1/4	1,403.08	1/4	1,238.62	1/4	1,074.17	1/4	909.71	1/4	745.25	1/4	580.79
1/2	1/2	1/2	1/2	1/2	1,728.27	1/2	1,564.11	1/2	1,399.66	1/2	1,235.20	1/2	1,070.74	1/2	906.28	1/2	741.83	1/2	577.36
3/4	3/4	3/4	3/4	3/4	1,724.85	3/4	1,560.69	3/4	1,396.23	3/4	1,231.77	3/4	1,067.31	3/4	902.86	3/4	738.40	3/4	573.94
6		6		6	1,721.43	6	1,557.26	6	1,392.80	6	1,228.35	6	1,063.89	6	899.43	6	734.97	6	570.51
1/4	3/8	1,913.55	1/4	1,718.01	1/4	1,553.84	1/4	1,389.38	1/4	1,224.92	1/4	1,060.46	1/4	896.00	1/4	731.55	1/4	567.09	
1/2	1/2	1,911.95	1/2	1,714.60	1/2	1,550.41	1/2	1,385.95	1/2	1,221.49	1/2	1,057.04	1/2	892.58	1/2	728.12	1/2	563.67	
3/4	3/4	1,908.77	3/4	1,711.18	3/4	1,546.98	3/4	1,382.53	3/4	1,218.07	3/4	1,053.61	3/4	889.15	3/4	724.69	3/4	560.26	
7		7		7	1,905.58	7	1,707.76	7	1,543.56	7	1,379.10	7	1,214.64	7	885.73	7	721.27	7	556.85
1/4	1/4	1,902.39	1/4	1,704.35	1/4	1,540.13	1/4	1,375.67	1/4	1,211.22	1/4	1,046.76	1/4	882.30	1/4	717.84	1/4	553.44	
1/2	1/2	1,898.92	1/2	1,700.93	1/2	1,536.70	1/2	1,372.25	1/2	1,207.79	1/2	1,043.33	1/2	878.87	1/2	714.42	1/2	550.05	
3/4	3/4	1,895.18	3/4	1,697.51	3/4	1,533.28	3/4	1,368.82	3/4	1,204.36	3/4	1,039.91	3/4	875.45	3/4	710.99	3/4	546.67	
8		8		8	1,891.43	8	1,694.09	8	1,529.85	8	1,365.39	8	1,200.94	8	872.02	8	707.56	8	543.29
1/4	1/4	1,887.68	1/4	1,690.68	1/4	1,526.43	1/4	1,361.97	1/4	1,197.51	1/4	1,033.05	1/4	868.60	1/4	704.14	1/4	539.92	
1/2	1/2	1,883.67	1/2	1,687.26	1/2	1,523.00	1/2	1,358.54	1/2	1,194.08	1/2	1,029.63	1/2	865.17	1/2	700.71	1/2	536.55	
3/4	3/4	1,879.39	3/4	1,683.84	3/4	1,519.57	3/4	1,355.12	3/4	1,190.66	3/4	1,026.20	3/4	861.74	3/4	697.29	3/4	533.19	
9		9		9	1,875.12	9	1,680.43	9	1,516.15	9	1,187.23	9	1,022.77	9	858.32	9	693.86	9	529.83
1/4	1/4	1,870.84	1/4	1,677.01	1/4	1,512.72	1/4	1,348.26	1/4	1,183.81	1/4	1,019.35	1/4	854.89	1/4	690.43	1/4	526.47	
1/2	1/2	1,866.42	1/2	1,673.59	1/2	1,509.29	1/2	1,344.84	1/2	1,180.38	1/2	1,015.92	1/2	851.46	1/2	687.01	1/2	523.11	
3/4	3/4	1,861.87	3/4	1,670.17	3/4	1,505.87	3/4	1,341.41	3/4	1,176.95	3/4	1,012.50	3/4	848.04	3/4	683.58	3/4	519.75	
10		10		10	1,857.31	10	1,666.76	10	1,502.44	10	1,337.98	10	1,173.53	10	1,009.07	10	844.61	10	516.39
1/4	1/4	1,852.76	1/4	1,663.34	1/4	1,499.02	1/4	1,334.56	1/4	1,170.10	1/4	1,005.64	1/4	841.19	1/4	676.73	1/4	513.03	
1/2	1/2	1,848.18	1/2	1,659.92	1/2	1,495.59	1/2	1,331.13	1/2	1,166.67	1/2	1,002.22	1/2	837.76	1/2	673.30	1/2	509.66	
3/4	3/4	1,843.59	3/4	1,656.51	3/4	1,492.16	3/4	1,327.71	3/4	1,163.25	3/4	998.79	3/4	834.33	3/4	669.88	3/4	506.30	
11		11		11	1,838.99	11	1,653.09	11	1,488.74	11	1,324.28	11	1,159.82	11	995.36	11	830.91	11	502.94
1/4	1/4	1,834.39	1/4	1,649.67	1/4	1,485.31	1/4	1,320.85	1/4	1,156.40	1/4	991.94	1/4	827.48	1/4	663.02	1/4	499.58	
1/2	1/2	1,829.78	1/2	1,646.25	1/2	1,481.88	1/2	1,317.43	1/2	1,152.97	1/2	988.51	1/2	824.05	1/2	659.60	1/2	496.22	
3/4	3/4	1,825.15	3/4	1,642.84	3/4	1,478.46	3/4	1,314.00	3/4	1,149.54	3/4	985.09	3/4	820.63	3/4	656.17	3/4	492.86	

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "406"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/8"

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	489.50	0	327.00	0	162.54	0		0		0		0		0		0		0	
1/4	486.14	1/4	323.57	1/4	159.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	482.78	1/2	320.15	1/2	155.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	479.42	3/4	316.72	3/4	152.26	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	476.06	1	313.29	1	148.84	1		1		1		1		1		1		1	
1/4	472.70	1/4	309.87	1/4	145.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	469.34	1/2	306.44	1/2	141.98	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	465.98	3/4	303.02	3/4	138.56	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	462.62	2	299.59	2	135.13	2		2		2		2		2		2		2	
1/4	459.26	1/4	296.16	1/4	131.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	455.90	1/2	292.74	1/2	128.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	452.54	3/4	289.31	3/4	124.86	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	449.18	3	285.88	3	121.43	3		3		3		3		3		3		3	
1/4	445.82	1/4	282.46	1/4	118.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	442.46	1/2	279.03	1/2	114.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	439.10	3/4	275.61	3/4	111.17	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	435.74	4	272.18	4	107.75	4		4		4		4		4		4		4	
1/4	432.38	1/4	268.75	1/4	104.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	429.02	1/2	265.33	1/2	100.91	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	425.65	3/4	261.90	3/4	97.49	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	422.29	5	258.47	5	94.08	5		5		5		5		5		5		5	
1/4	418.93	1/4	255.05	1/4	90.67	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	415.57	1/2	251.62	1/2	87.25	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	412.19	3/4	248.20	3/4	83.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	408.81	6	244.77	6	80.44	6		6		6		6		6		6		6	
1/4	405.44	1/4	241.34	1/4	77.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	402.05	1/2	237.92	1/2	73.63	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	398.66	3/4	234.49	3/4	70.24	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	395.27	7	231.06	7	66.84	7		7		7		7		7		7		7	
1/4	391.88	1/4	227.64	1/4	63.45	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	388.48	1/2	224.21	1/2	60.06	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	385.09	3/4	220.79	3/4	56.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	381.70	8	217.36	8	53.31	8		8		8		8		8		8		8	
1/4	378.31	1/4	213.93	1/4	49.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	374.91	1/2	210.51	1/2	46.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	371.50	3/4	207.08	3/4	43.36	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	368.09	9	203.65	9	40.11	9		9		9		9		9		9		9	
1/4	364.68	1/4	200.23	1/4	36.86	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	361.26	1/2	196.80	1/2	33.81	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	357.84	3/4	193.38	3/4	30.96	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	354.41	10	189.95	10	28.10	10		10		10		10		10		10		10	
1/4	350.98	1/4	186.52	1/4	25.25	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	347.56	1/2	183.10	1/2	22.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	344.13	3/4	179.67	3/4	20.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	340.70	11	176.25	11	18.11	11		11		11		11		11		11		11	
1/4	337.28	1/4	172.82	1/4	15.83	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	333.85	1/2	169.39	1/2	14.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	330.43	3/4	165.97	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "406"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	
0		0		0	1,816.59	0	1,651.71	0	1,486.21	0	1,320.62	0	1,155.03	0	989.44	0	823.85	0	658.26	
1/4	1/4	1/4	1,813.19	1/4	1,648.27	1/4	1,482.76	1/4	1,317.17	1/4	1,151.58	1/4	985.99	1/4	820.40	1/4	654.81			
1/2	1/2	1/2	1,809.79	1/2	1,644.83	1/2	1,479.31	1/2	1,313.72	1/2	1,148.13	1/2	982.54	1/2	816.95	1/2	651.36			
3/4	3/4	3/4	1,806.38	3/4	1,641.39	3/4	1,475.86	3/4	1,310.27	3/4	1,144.68	3/4	979.09	3/4	813.50	3/4	647.91			
1		1		1	1,802.98	1	1,637.95	1	1,472.41	1	1,306.82	1	1,141.23	1	975.64	1	810.05	1	644.46	
1/4	1/4	1/4	1,799.57	1/4	1,634.51	1/4	1,468.96	1/4	1,303.37	1/4	1,137.78	1/4	972.19	1/4	806.60	1/4	641.01			
1/2	1/2	1/2	1,796.16	1/2	1,631.07	1/2	1,465.51	1/2	1,299.92	1/2	1,134.33	1/2	968.74	1/2	803.15	1/2	637.56			
3/4	3/4	3/4	1,792.74	3/4	1,627.62	3/4	1,462.06	3/4	1,296.47	3/4	1,130.88	3/4	965.29	3/4	799.70	3/4	634.11			
2		2		2	1,789.32	2	1,624.18	2	1,458.61	2	1,293.02	2	1,127.43	2	961.84	2	796.25	2	630.66	
1/4	1/4	1/4	1,785.89	1/4	1,620.74	1/4	1,455.16	1/4	1,289.57	1/4	1,123.98	1/4	958.39	1/4	792.80	1/4	627.21			
1/2	1/2	1/2	1,782.46	1/2	1,617.29	1/2	1,451.71	1/2	1,286.12	1/2	1,120.53	1/2	954.94	1/2	789.35	1/2	623.76			
3/4	3/4	3/4	1,779.02	3/4	1,613.84	3/4	1,448.26	3/4	1,282.67	3/4	1,117.08	3/4	951.49	3/4	785.90	3/4	620.31			
3		3		3	1,775.58	3	1,610.39	3	1,444.81	3	1,279.22	3	1,113.63	3	948.04	3	782.45	3	616.86	
1/4	1/4	1/4	1,772.14	1/4	1,606.94	1/4	1,441.36	1/4	1,275.77	1/4	1,110.18	1/4	944.59	1/4	779.00	1/4	613.41			
1/2	1/2	1/2	1,768.70	1/2	1,603.50	1/2	1,437.91	1/2	1,272.32	1/2	1,106.73	1/2	941.14	1/2	775.55	1/2	609.96			
3/4	3/4	3/4	1,765.26	3/4	1,600.05	3/4	1,434.46	3/4	1,268.87	3/4	1,103.28	3/4	937.69	3/4	772.10	3/4	606.51			
4		4		4	1,761.82	4	1,596.60	4	1,431.01	4	1,265.42	4	1,099.83	4	934.24	4	768.65	4	603.06	
1/4	1/4	1/4	1,758.38	1/4	1,593.15	1/4	1,427.56	1/4	1,261.97	1/4	1,096.38	1/4	930.79	1/4	765.20	1/4	599.61			
1/2	1/2	1/2	1,754.94	1/2	1,589.70	1/2	1,424.11	1/2	1,258.52	1/2	1,092.93	1/2	927.34	1/2	761.75	1/2	596.16			
3/4	3/4	3/4	1,751.50	3/4	1,586.25	3/4	1,420.66	3/4	1,255.07	3/4	1,089.48	3/4	923.89	3/4	758.30	3/4	592.71			
5		5		5	1,748.06	5	1,582.80	5	1,417.21	5	1,251.62	5	1,086.03	5	920.44	5	754.85	5	589.26	
1/4	1/4	1/4	1,744.62	1/4	1,579.35	1/4	1,413.76	1/4	1,248.17	1/4	1,082.58	1/4	916.99	1/4	751.40	1/4	585.81			
1/2	1/2	1/2	1,741.17	1/2	1,575.90	1/2	1,410.31	1/2	1,244.72	1/2	1,079.13	1/2	913.54	1/2	747.95	1/2	582.36			
3/4	3/4	3/4	1,737.73	3/4	1,572.45	3/4	1,406.86	3/4	1,241.27	3/4	1,075.68	3/4	910.09	3/4	744.50	3/4	578.91			
6		6		6	1,734.29	6	1,569.00	6	1,403.41	6	1,237.82	6	1,072.23	6	906.64	6	741.05	6	575.46	
1/4	3/8	1,884.68	1/4	1,730.85	1/4	1,565.55	1/4	1,399.96	1/4	1,234.37	1/4	1,068.78	1/4	903.19	1/4	737.60	1/4	572.01		
1/2	1/2	1,883.57	1/2	1,727.41	1/2	1,562.10	1/2	1,396.51	1/2	1,230.92	1/2	1,065.33	1/2	899.74	1/2	734.15	1/2	568.56		
3/4	3/4	1,881.36	3/4	1,723.97	3/4	1,558.65	3/4	1,393.06	3/4	1,227.47	3/4	1,061.88	3/4	896.29	3/4	730.70	3/4	565.11		
7		7		7	1,879.16	7	1,720.53	7	1,555.20	7	1,389.61	7	1,224.02	7	892.84	7	727.25	7	561.66	
1/4	1/4	1,876.95	1/4	1,717.09	1/4	1,551.75	1/4	1,386.16	1/4	1,220.57	1/4	1,054.98	1/4	889.39	1/4	723.80	1/4	558.21		
1/2	1/2	1,874.49	1/2	1,713.65	1/2	1,548.30	1/2	1,382.71	1/2	1,217.12	1/2	1,051.53	1/2	885.94	1/2	720.35	1/2	554.77		
3/4	3/4	1,871.79	3/4	1,710.21	3/4	1,544.86	3/4	1,379.26	3/4	1,213.67	3/4	1,048.08	3/4	882.49	3/4	716.90	3/4	551.35		
8		8		8	1,869.09	8	1,706.77	8	1,541.41	8	1,375.81	8	1,210.22	8	879.04	8	713.45	8	547.93	
1/4	1/4	1,866.39	1/4	1,703.33	1/4	1,537.96	1/4	1,372.37	1/4	1,206.77	1/4	1,041.18	1/4	875.59	1/4	710.00	1/4	544.50		
1/2	1/2	1,863.45	1/2	1,699.88	1/2	1,534.51	1/2	1,368.92	1/2	1,203.32	1/2	1,037.73	1/2	872.14	1/2	706.55	1/2	541.09		
3/4	3/4	1,860.27	3/4	1,696.44	3/4	1,531.06	3/4	1,365.47	3/4	1,199.88	3/4	1,034.28	3/4	868.69	3/4	703.10	3/4	537.70		
9		9		9	1,857.10	9	1,693.00	9	1,527.61	9	1,362.02	9	1,196.43	9	865.24	9	699.65	9	534.30	
1/4	1/4	1,853.92	1/4	1,689.56	1/4	1,524.16	1/4	1,358.57	1/4	1,192.98	1/4	1,027.39	1/4	861.79	1/4	696.20	1/4	530.91		
1/2	1/2	1,850.63	1/2	1,686.12	1/2	1,520.71	1/2	1,355.12	1/2	1,189.53	1/2	1,023.94	1/2	858.34	1/2	692.75	1/2	527.51		
3/4	3/4	1,847.23	3/4	1,682.68	3/4	1,517.26	3/4	1,351.67	3/4	1,186.08	3/4	1,020.49	3/4	854.90	3/4	689.30	3/4	524.12		
10		10		10	1,843.83	10	1,679.24	10	1,513.81	10	1,348.22	10	1,182.63	10	851.45	10	685.85	10	520.72	
1/4	1/4	1,840.42	1/4	1,675.80	1/4	1,510.36	1/4	1,344.77	1/4	1,179.18	1/4	1,013.59	1/4	848.00	1/4	682.41	1/4	517.32		
1/2	1/2	1,837.02	1/2	1,672.36	1/2	1,506.91	1/2	1,341.32	1/2	1,175.73	1/2	1,010.14	1/2	844.55	1/2	678.96	1/2	513.93		
3/4	3/4	1,833.61	3/4	1,668.92	3/4	1,503.46	3/4	1,337.87	3/4	1,172.28	3/4	1,006.69	3/4	841.10	3/4	675.51	3/4	510.53		
11		11		11	1,830.21	11	1,665.48	11	1,500.01	11	1,334.42	11	1,168.83	11	837.65	11	672.06	11	507.14	
1/4	1/4	1,826.81	1/4	1,662.04	1/4	1,496.56	1/4	1,330.97	1/4	1,165.38	1/4	999.79	1/4	834.20	1/4	668.61	1/4	503.74		
1/2	1/2	1,823.40	1/2	1,658.60	1/2	1,493.11	1/2	1,327.52	1/2	1,161.93	1/2	996.34	1/2	830.75	1/2	665.16	1/2	500.35		
3/4	3/4	1,820.00	3/4	1,655.15	3/4	1,489.66	3/4	1,324.07	3/4	1,158.48	3/4	992.89	3/4	827.30	3/4	661.71	3/4	496.95		

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "406"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/8"

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	493.56	0	329.24	0	163.65	0		0		0		0		0		0		0	
1/4	490.16	1/4	325.79	1/4	160.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	486.77	1/2	322.34	1/2	156.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	483.37	3/4	318.90	3/4	153.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	479.97	1	315.45	1	149.85	1		1		1		1		1		1		1	
1/4	476.58	1/4	312.00	1/4	146.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	473.18	1/2	308.55	1/2	142.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	469.79	3/4	305.10	3/4	139.51	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	466.39	2	301.65	2	136.06	2		2		2		2		2		2		2	
1/4	463.00	1/4	298.20	1/4	132.61	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	459.60	1/2	294.75	1/2	129.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	456.21	3/4	291.30	3/4	125.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	452.81	3	287.85	3	122.26	3		3		3		3		3		3		3	
1/4	449.41	1/4	284.40	1/4	118.82	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	446.02	1/2	280.95	1/2	115.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	442.62	3/4	277.50	3/4	111.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	439.23	4	274.05	4	108.48	4		4		4		4		4		4		4	
1/4	435.83	1/4	270.60	1/4	105.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	432.44	1/2	267.15	1/2	101.60	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	429.04	3/4	263.70	3/4	98.16	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	425.65	5	260.25	5	94.72	5		5		5		5		5		5		5	
1/4	422.25	1/4	256.80	1/4	91.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	418.84	1/2	253.35	1/2	87.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	415.42	3/4	249.90	3/4	84.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	412.00	6	246.45	6	80.99	6		6		6		6		6		6		6	
1/4	408.57	1/4	243.00	1/4	77.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	405.14	1/2	239.55	1/2	74.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	401.69	3/4	236.10	3/4	70.72	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	398.24	7	232.65	7	67.30	7		7		7		7		7		7		7	
1/4	394.79	1/4	229.20	1/4	63.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	391.34	1/2	225.75	1/2	60.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	387.89	3/4	222.30	3/4	57.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	384.44	8	218.85	8	53.67	8		8		8		8		8		8		8	
1/4	380.99	1/4	215.40	1/4	50.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	377.54	1/2	211.95	1/2	46.93	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	374.09	3/4	208.50	3/4	43.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	370.64	9	205.05	9	40.38	9		9		9		9		9		9		9	
1/4	367.19	1/4	201.60	1/4	37.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	363.74	1/2	198.15	1/2	34.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	360.29	3/4	194.70	3/4	31.17	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	356.84	10	191.25	10	28.29	10		10		10		10		10		10		10	
1/4	353.39	1/4	187.80	1/4	25.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	349.94	1/2	184.35	1/2	22.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	346.49	3/4	180.90	3/4	20.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	343.04	11	177.45	11	18.24	11		11		11		11		11		11		11	
1/4	339.59	1/4	174.00	1/4	15.94	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	336.14	1/2	170.55	3/8	14.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	332.69	3/4	167.10	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "406"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	1,818.78	0	1,653.88	0	1,488.33	0	1,322.69	0	1,157.06	0	991.43	0	825.79	0	660.16
1/4	1/4	1/4	1/4	1/4	1,815.38	1/4	1,650.44	1/4	1,484.88	1/4	1,319.24	1/4	1,153.61	1/4	987.97	1/4	822.34	1/4	656.71
1/2	1/2	1/2	1/2	1/2	1,811.97	1/2	1,646.99	1/2	1,481.42	1/2	1,315.79	1/2	1,150.16	1/2	984.52	1/2	818.89	1/2	653.26
3/4	3/4	3/4	3/4	3/4	1,808.57	3/4	1,643.55	3/4	1,477.97	3/4	1,312.34	3/4	1,146.71	3/4	981.07	3/4	815.44	3/4	649.81
1		1		1	1,805.16	1	1,640.11	1	1,474.52	1	1,308.89	1	1,143.26	1	977.62	1	811.99	1	646.36
1/4	1/4	1/4	1/4	1/4	1,801.76	1/4	1,636.67	1/4	1,471.07	1/4	1,305.44	1/4	1,139.81	1/4	974.17	1/4	808.54	1/4	642.90
1/2	1/2	1/2	1/2	1/2	1,798.35	1/2	1,633.23	1/2	1,467.62	1/2	1,301.99	1/2	1,136.35	1/2	970.72	1/2	805.09	1/2	639.45
3/4	3/4	3/4	3/4	3/4	1,794.93	3/4	1,629.78	3/4	1,464.17	3/4	1,298.54	3/4	1,132.90	3/4	967.27	3/4	801.64	3/4	636.00
2		2		2	1,791.51	2	1,626.34	2	1,460.72	2	1,295.09	2	1,129.45	2	963.82	2	798.19	2	632.55
1/4	1/4	1/4	1/4	1/4	1,788.08	1/4	1,622.89	1/4	1,457.27	1/4	1,291.64	1/4	1,126.00	1/4	960.37	1/4	794.74	1/4	629.10
1/2	1/2	1/2	1/2	1/2	1,784.66	1/2	1,619.45	1/2	1,453.82	1/2	1,288.19	1/2	1,122.55	1/2	956.92	1/2	791.28	1/2	625.65
3/4	3/4	3/4	3/4	3/4	1,781.22	3/4	1,616.00	3/4	1,450.37	3/4	1,284.74	3/4	1,119.10	3/4	953.47	3/4	787.83	3/4	622.20
3		3		3	1,777.78	3	1,612.55	3	1,446.92	3	1,281.28	3	1,115.65	3	950.02	3	784.38	3	618.75
1/4	1/4	1/4	1/4	1/4	1,774.34	1/4	1,609.10	1/4	1,443.47	1/4	1,277.83	1/4	1,112.20	1/4	946.57	1/4	780.93	1/4	615.30
1/2	1/2	1/2	1/2	1/2	1,770.89	1/2	1,605.65	1/2	1,440.02	1/2	1,274.38	1/2	1,108.75	1/2	943.12	1/2	777.48	1/2	611.85
3/4	3/4	3/4	3/4	3/4	1,767.45	3/4	1,602.20	3/4	1,436.57	3/4	1,270.93	3/4	1,105.30	3/4	939.67	3/4	774.03	3/4	608.40
4		4		4	1,764.01	4	1,598.75	4	1,433.12	4	1,267.48	4	1,101.85	4	936.21	4	770.58	4	604.95
1/4	1/4	1/4	1/4	1/4	1,760.57	1/4	1,595.30	1/4	1,429.66	1/4	1,264.03	1/4	1,098.40	1/4	932.76	1/4	767.13	1/4	601.50
1/2	1/2	1/2	1/2	1/2	1,757.13	1/2	1,591.85	1/2	1,426.21	1/2	1,260.58	1/2	1,094.95	1/2	929.31	1/2	763.68	1/2	598.04
3/4	3/4	3/4	3/4	3/4	1,753.69	3/4	1,588.40	3/4	1,422.76	3/4	1,257.13	3/4	1,091.50	3/4	925.86	3/4	760.23	3/4	594.59
5		5		5	1,750.24	5	1,584.95	5	1,419.31	5	1,253.68	5	1,088.05	5	922.41	5	756.78	5	591.14
1/4	1/4	1/4	1/4	1/4	1,746.80	1/4	1,581.50	1/4	1,415.86	1/4	1,250.23	1/4	1,084.59	1/4	918.96	1/4	753.33	1/4	587.69
1/2	1/2	1/2	1/2	1/2	1,743.36	1/2	1,578.04	1/2	1,412.41	1/2	1,246.78	1/2	1,081.14	1/2	915.51	1/2	749.88	1/2	584.24
3/4	3/4	3/4	3/4	3/4	1,739.92	3/4	1,574.59	3/4	1,408.96	3/4	1,243.33	3/4	1,077.69	3/4	912.06	3/4	746.43	3/4	580.79
6		6		6	1,736.48	6	1,571.14	6	1,405.51	6	1,239.88	6	1,074.24	6	908.61	6	742.98	6	577.34
1/4	1/4	1/4	1/4	1/4	1,733.04	1/4	1,567.69	1/4	1,402.06	1/4	1,236.43	1/4	1,070.79	1/4	905.16	1/4	739.52	1/4	573.89
1/2	1/2	1,885.19	1/2	1,729.59	1/2	1,564.24	1/2	1,398.61	1/2	1,232.97	1/2	1,067.34	1/2	901.71	1/2	736.07	1/2	570.44	
3/4	3/4	1,882.98	3/4	1,726.15	3/4	1,560.79	3/4	1,395.16	3/4	1,229.52	3/4	1,063.89	3/4	898.26	3/4	732.62	3/4	566.99	
7		7		7	1,880.77	7	1,722.71	7	1,557.34	7	1,391.71	7	1,226.07	7	1,060.44	7	894.81	7	729.17
1/4	1/4	1,878.56	1/4	1,719.27	1/4	1,553.89	1/4	1,388.26	1/4	1,222.62	1/4	1,056.99	1/4	891.36	1/4	725.72	1/4	560.08	
1/2	1/2	1,876.35	1/2	1,715.83	1/2	1,550.44	1/2	1,384.81	1/2	1,219.17	1/2	1,053.54	1/2	887.90	1/2	722.27	1/2	556.63	
3/4	3/4	1,873.65	3/4	1,712.39	3/4	1,546.99	3/4	1,381.35	3/4	1,215.72	3/4	1,050.09	3/4	884.45	3/4	718.82	3/4	553.21	
8		8		8	1,870.94	8	1,708.94	8	1,543.54	8	1,377.90	8	1,212.27	8	1,046.64	8	881.00	8	715.37
1/4	1/4	1,868.24	1/4	1,705.50	1/4	1,540.09	1/4	1,374.45	1/4	1,208.82	1/4	1,043.19	1/4	877.55	1/4	711.92	1/4	546.36	
1/2	1/2	1,865.54	1/2	1,702.06	1/2	1,536.64	1/2	1,371.00	1/2	1,205.37	1/2	1,039.74	1/2	874.10	1/2	708.47	1/2	542.94	
3/4	3/4	1,862.36	3/4	1,698.62	3/4	1,533.19	3/4	1,367.55	3/4	1,201.92	3/4	1,036.28	3/4	870.65	3/4	705.02	3/4	539.54	
9		9		9	1,859.19	9	1,695.18	9	1,529.73	9	1,364.10	9	1,198.47	9	1,032.83	9	867.20	9	701.57
1/4	1/4	1,856.01	1/4	1,691.74	1/4	1,526.28	1/4	1,360.65	1/4	1,195.02	1/4	1,029.38	1/4	863.75	1/4	698.12	1/4	532.75	
1/2	1/2	1,852.83	1/2	1,688.29	1/2	1,522.83	1/2	1,357.20	1/2	1,191.57	1/2	1,025.93	1/2	860.30	1/2	694.67	1/2	529.35	
3/4	3/4	1,849.43	3/4	1,684.85	3/4	1,519.38	3/4	1,353.75	3/4	1,188.12	3/4	1,022.48	3/4	856.85	3/4	691.21	3/4	525.95	
10		10		10	1,846.02	10	1,681.41	10	1,515.93	10	1,350.30	10	1,184.66	10	1,019.03	10	853.40	10	522.56
1/4	1/4	1,842.62	1/4	1,677.97	1/4	1,512.48	1/4	1,346.85	1/4	1,181.21	1/4	1,015.58	1/4	849.95	1/4	684.31	1/4	519.16	
1/2	1/2	1,839.21	1/2	1,674.53	1/2	1,509.03	1/2	1,343.40	1/2	1,177.76	1/2	1,012.13	1/2	846.50	1/2	680.86	1/2	515.76	
3/4	3/4	1,835.81	3/4	1,671.09	3/4	1,505.58	3/4	1,339.95	3/4	1,174.31	3/4	1,008.68	3/4	843.05	3/4	677.41	3/4	512.37	
11		11		11	1,832.40	11	1,667.64	11	1,502.13	11	1,336.50	11	1,170.86	11	1,005.23	11	839.59	11	508.97
1/4	1/4	1,829.00	1/4	1,664.20	1/4	1,498.68	1/4	1,333.04	1/4	1,167.41	1/4	1,001.78	1/4	836.14	1/4	670.51	1/4	505.58	
1/2	1/2	1,825.59	1/2	1,660.76	1/2	1,495.23	1/2	1,329.59	1/2	1,163.96	1/2	998.33	1/2	832.69	1/2	667.06	1/2	502.18	
3/4	3/4	1,822.19	3/4	1,657.32	3/4	1,491.78	3/4	1,326.14	3/4	1,160.51	3/4	994.88	3/4	829.24	3/4	663.61	3/4	498.78	

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-09" FORWARD OF AFT BULKHEAD.

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





# BARGE "406"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 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	495.39	0	331.06	0	165.42	0		0		0		0		0		0		0	
1/4	491.99	1/4	327.61	1/4	161.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	488.59	1/2	324.16	1/2	158.52	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	485.20	3/4	320.70	3/4	155.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	481.80	1	317.25	1	151.62	1		1		1		1		1		1		1	
1/4	478.40	1/4	313.80	1/4	148.17	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	475.01	1/2	310.35	1/2	144.72	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	471.61	3/4	306.90	3/4	141.27	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	468.22	2	303.45	2	137.82	2		2		2		2		2		2		2	
1/4	464.82	1/4	300.00	1/4	134.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	461.42	1/2	296.55	1/2	130.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.03	3/4	293.10	3/4	127.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	454.63	3	289.65	3	124.02	3		3		3		3		3		3		3	
1/4	451.23	1/4	286.20	1/4	120.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	447.84	1/2	282.75	1/2	117.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.44	3/4	279.30	3/4	113.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	441.04	4	275.85	4	110.23	4		4		4		4		4		4		4	
1/4	437.65	1/4	272.39	1/4	106.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.25	1/2	268.94	1/2	103.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.85	3/4	265.49	3/4	99.91	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	427.46	5	262.04	5	96.47	5		5		5		5		5		5		5	
1/4	424.06	1/4	258.59	1/4	93.03	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.67	1/2	255.14	1/2	89.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	417.24	3/4	251.69	3/4	86.16	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	413.82	6	248.24	6	82.73	6		6		6		6		6		6		6	
1/4	410.40	1/4	244.79	1/4	79.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	406.97	1/2	241.34	1/2	75.87	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.52	3/4	237.89	3/4	72.45	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	400.07	7	234.44	7	69.03	7		7		7		7		7		7		7	
1/4	396.62	1/4	230.99	1/4	65.61	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393.17	1/2	227.54	1/2	62.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.72	3/4	224.09	3/4	58.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	386.27	8	220.63	8	55.39	8		8		8		8		8		8		8	
1/4	382.82	1/4	217.18	1/4	51.98	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	379.37	1/2	213.73	1/2	48.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375.92	3/4	210.28	3/4	45.31	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	372.47	9	206.83	9	42.03	9		9		9		9		9		9		9	
1/4	369.01	1/4	203.38	1/4	38.76	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.56	1/2	199.93	1/2	35.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	362.11	3/4	196.48	3/4	32.61	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	358.66	10	193.03	10	29.74	10		10		10		10		10		10		10	
1/4	355.21	1/4	189.58	1/4	26.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.76	1/2	186.13	1/2	23.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	348.31	3/4	182.68	3/4	21.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	344.86	11	179.23	11	19.39	11		11		11		11		11		11		11	
1/4	341.41	1/4	175.78	1/4	17.09	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	337.96	1/2	172.32	1/2	14.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334.51	3/4	168.87	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

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



# BARGE "406"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	1,817.49	0	1,652.61	0	1,487.11	0	1,321.52	0	1,155.93	0	990.34	0	824.75	0	659.15
1/4	1/4	1/4	1/4	1/4	1,814.09	1/4	1,649.17	1/4	1,483.66	1/4	1,318.07	1/4	1,152.48	1/4	986.89	1/4	821.30	1/4	655.70
1/2	1/2	1/2	1/2	1/2	1,810.68	1/2	1,645.73	1/2	1,480.21	1/2	1,314.62	1/2	1,149.03	1/2	983.44	1/2	817.85	1/2	652.26
3/4	3/4	3/4	3/4	3/4	1,807.28	3/4	1,642.29	3/4	1,476.76	3/4	1,311.17	3/4	1,145.58	3/4	979.99	3/4	814.40	3/4	648.81
1		1		1	1,803.88	1	1,638.85	1	1,473.31	1	1,307.72	1	1,142.13	1	976.54	1	810.95	1	645.36
1/4	1/4	1/4	1/4	1/4	1,800.47	1/4	1,635.41	1/4	1,469.86	1/4	1,304.27	1/4	1,138.68	1/4	973.09	1/4	807.50	1/4	641.91
1/2	1/2	1/2	1/2	1/2	1,797.06	1/2	1,631.97	1/2	1,466.41	1/2	1,300.82	1/2	1,135.23	1/2	969.64	1/2	804.05	1/2	638.46
3/4	3/4	3/4	3/4	3/4	1,793.64	3/4	1,628.52	3/4	1,462.96	3/4	1,297.37	3/4	1,131.78	3/4	966.19	3/4	800.60	3/4	635.01
2		2		2	1,790.21	2	1,625.08	2	1,459.51	2	1,293.92	2	1,128.33	2	962.74	2	797.15	2	631.56
1/4	1/4	1/4	1/4	1/4	1,786.79	1/4	1,621.64	1/4	1,456.06	1/4	1,290.47	1/4	1,124.88	1/4	959.29	1/4	793.70	1/4	628.11
1/2	1/2	1/2	1/2	1/2	1,783.36	1/2	1,618.19	1/2	1,452.61	1/2	1,287.02	1/2	1,121.43	1/2	955.84	1/2	790.25	1/2	624.66
3/4	3/4	3/4	3/4	3/4	1,779.92	3/4	1,614.74	3/4	1,449.16	3/4	1,283.57	3/4	1,117.98	3/4	952.39	3/4	786.80	3/4	621.21
3		3		3	1,776.48	3	1,611.29	3	1,445.71	3	1,280.12	3	1,114.53	3	948.94	3	783.35	3	617.76
1/4	1/4	1/4	1/4	1/4	1,773.04	1/4	1,607.84	1/4	1,442.26	1/4	1,276.67	1/4	1,111.08	1/4	945.49	1/4	779.90	1/4	614.31
1/2	1/2	1/2	1/2	1/2	1,769.60	1/2	1,604.40	1/2	1,438.81	1/2	1,273.22	1/2	1,107.63	1/2	942.04	1/2	776.45	1/2	610.86
3/4	3/4	3/4	3/4	3/4	1,766.16	3/4	1,600.95	3/4	1,435.36	3/4	1,269.77	3/4	1,104.18	3/4	938.59	3/4	773.00	3/4	607.41
4		4		4	1,762.72	4	1,597.50	4	1,431.91	4	1,266.32	4	1,100.73	4	935.14	4	769.55	4	603.96
1/4	1/4	1/4	1/4	1/4	1,759.28	1/4	1,594.05	1/4	1,428.46	1/4	1,262.87	1/4	1,097.28	1/4	931.69	1/4	766.10	1/4	600.51
1/2	1/2	1/2	1/2	1/2	1,755.84	1/2	1,590.60	1/2	1,425.01	1/2	1,259.42	1/2	1,093.83	1/2	928.24	1/2	762.65	1/2	597.06
3/4	3/4	3/4	3/4	3/4	1,752.40	3/4	1,587.15	3/4	1,421.56	3/4	1,255.97	3/4	1,090.38	3/4	924.79	3/4	759.20	3/4	593.61
5		5		5	1,748.95	5	1,583.70	5	1,418.11	5	1,252.52	5	1,086.93	5	921.34	5	755.75	5	590.16
1/4	1/4	1/4	1/4	1/4	1,745.51	1/4	1,580.25	1/4	1,414.66	1/4	1,249.07	1/4	1,083.48	1/4	917.89	1/4	752.30	1/4	586.71
1/2	1/2	1/2	1/2	1/2	1,742.07	1/2	1,576.80	1/2	1,411.21	1/2	1,245.62	1/2	1,080.03	1/2	914.44	1/2	748.85	1/2	583.26
3/4	3/4	3/4	3/4	3/4	1,738.63	3/4	1,573.35	3/4	1,407.76	3/4	1,242.17	3/4	1,076.58	3/4	910.99	3/4	745.40	3/4	579.81
6		6		6	1,735.19	6	1,569.90	6	1,404.31	6	1,238.72	6	1,073.13	6	907.54	6	741.95	6	576.36
1/4	3/8	1,885.58	1/4	1,731.75	1/4	1,566.45	1/4	1,400.86	1/4	1,235.27	1/4	1,069.68	1/4	904.09	1/4	738.50	1/4	572.91	
1/2	1/2	1,884.47	1/2	1,728.31	1/2	1,563.00	1/2	1,397.41	1/2	1,231.82	1/2	1,066.23	1/2	900.64	1/2	735.05	1/2	569.46	
3/4	3/4	1,882.27	3/4	1,724.87	3/4	1,559.55	3/4	1,393.96	3/4	1,228.37	3/4	1,062.78	3/4	897.19	3/4	731.60	3/4	566.01	
7		7		7	1,880.06	7	1,721.43	7	1,556.10	7	1,390.51	7	1,224.92	7	1,059.33	7	893.74	7	562.56
1/4	1/4	1,877.85	1/4	1,717.99	1/4	1,552.65	1/4	1,387.06	1/4	1,221.47	1/4	1,055.88	1/4	890.29	1/4	724.70	1/4	559.11	
1/2	1/2	1,875.39	1/2	1,714.55	1/2	1,549.20	1/2	1,383.61	1/2	1,218.02	1/2	1,052.43	1/2	886.84	1/2	721.25	1/2	555.66	
3/4	3/4	1,872.69	3/4	1,711.11	3/4	1,545.75	3/4	1,380.16	3/4	1,214.57	3/4	1,048.98	3/4	883.39	3/4	717.80	3/4	552.23	
8		8		8	1,869.99	8	1,707.66	8	1,542.30	8	1,376.71	8	1,211.12	8	1,045.53	8	879.94	8	548.80
1/4	1/4	1,867.29	1/4	1,704.22	1/4	1,538.85	1/4	1,373.26	1/4	1,207.67	1/4	1,042.08	1/4	876.49	1/4	710.90	1/4	545.36	
1/2	1/2	1,864.35	1/2	1,700.78	1/2	1,535.40	1/2	1,369.81	1/2	1,204.22	1/2	1,038.63	1/2	873.04	1/2	707.45	1/2	541.94	
3/4	3/4	1,861.17	3/4	1,697.34	3/4	1,531.95	3/4	1,366.36	3/4	1,200.77	3/4	1,035.18	3/4	869.59	3/4	704.00	3/4	538.52	
9		9		9	1,858.00	9	1,693.90	9	1,528.50	9	1,362.91	9	1,197.32	9	1,031.73	9	866.14	9	535.10
1/4	1/4	1,854.82	1/4	1,690.46	1/4	1,525.05	1/4	1,359.46	1/4	1,193.87	1/4	1,028.28	1/4	862.69	1/4	697.10	1/4	531.68	
1/2	1/2	1,851.53	1/2	1,687.02	1/2	1,521.60	1/2	1,356.01	1/2	1,190.42	1/2	1,024.83	1/2	859.24	1/2	693.65	1/2	528.27	
3/4	3/4	1,848.13	3/4	1,683.58	3/4	1,518.15	3/4	1,352.56	3/4	1,186.97	3/4	1,021.38	3/4	855.79	3/4	690.20	3/4	524.85	
10		10		10	1,844.72	10	1,680.14	10	1,514.71	10	1,349.11	10	1,183.52	10	1,017.93	10	852.34	10	521.43
1/4	1/4	1,841.32	1/4	1,676.70	1/4	1,511.26	1/4	1,345.66	1/4	1,180.07	1/4	1,014.48	1/4	848.89	1/4	683.30	1/4	518.01	
1/2	1/2	1,837.92	1/2	1,673.26	1/2	1,507.81	1/2	1,342.22	1/2	1,176.62	1/2	1,011.03	1/2	845.44	1/2	679.85	1/2	514.59	
3/4	3/4	1,834.51	3/4	1,669.82	3/4	1,504.36	3/4	1,338.77	3/4	1,173.17	3/4	1,007.58	3/4	841.99	3/4	676.40	3/4	511.18	
11		11		11	1,831.11	11	1,666.38	11	1,500.91	11	1,335.32	11	1,169.73	11	1,004.13	11	838.54	11	507.76
1/4	1/4	1,827.70	1/4	1,662.93	1/4	1,497.46	1/4	1,331.87	1/4	1,166.28	1/4	1,000.68	1/4	835.09	1/4	669.50	1/4	504.34	
1/2	1/2	1,824.30	1/2	1,659.49	1/2	1,494.01	1/2	1,328.42	1/2	1,162.83	1/2	997.24	1/2	831.64	1/2	666.05	1/2	500.92	
3/4	3/4	1,820.90	3/4	1,656.05	3/4	1,490.56	3/4	1,324.97	3/4	1,159.38	3/4	993.79	3/4	828.19	3/4	662.60	3/4	497.50	

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "406"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 3/8"

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	494.09	0	329.24	0	163.65	0		0		0		0		0		0		0	
1/4	490.67	1/4	325.79	1/4	160.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	487.25	1/2	322.35	1/2	156.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	483.83	3/4	318.90	3/4	153.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	480.41	1	315.45	1	149.85	1		1		1		1		1		1		1	
1/4	477.00	1/4	312.00	1/4	146.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	473.58	1/2	308.55	1/2	142.96	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	470.16	3/4	305.10	3/4	139.51	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	466.74	2	301.65	2	136.06	2		2		2		2		2		2		2	
1/4	463.32	1/4	298.20	1/4	132.61	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	459.91	1/2	294.75	1/2	129.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	456.49	3/4	291.30	3/4	125.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	453.07	3	287.85	3	122.26	3		3		3		3		3		3		3	
1/4	449.65	1/4	284.40	1/4	118.82	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	446.23	1/2	280.95	1/2	115.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	442.82	3/4	277.50	3/4	111.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	439.40	4	274.05	4	108.48	4		4		4		4		4		4		4	
1/4	435.98	1/4	270.60	1/4	105.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	432.56	1/2	267.15	1/2	101.60	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	429.14	3/4	263.70	3/4	98.16	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	425.73	5	260.25	5	94.72	5		5		5		5		5		5		5	
1/4	422.31	1/4	256.80	1/4	91.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	418.88	1/2	253.35	1/2	87.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	415.45	3/4	249.90	3/4	84.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	412.01	6	246.45	6	80.99	6		6		6		6		6		6		6	
1/4	408.58	1/4	243.00	1/4	77.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	405.14	1/2	239.55	1/2	74.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	401.69	3/4	236.10	3/4	70.72	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	398.24	7	232.65	7	67.30	7		7		7		7		7		7		7	
1/4	394.79	1/4	229.20	1/4	63.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	391.34	1/2	225.75	1/2	60.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	387.89	3/4	222.30	3/4	57.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	384.44	8	218.85	8	53.67	8		8		8		8		8		8		8	
1/4	380.99	1/4	215.40	1/4	50.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	377.54	1/2	211.95	1/2	46.93	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	374.09	3/4	208.50	3/4	43.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	370.64	9	205.05	9	40.38	9		9		9		9		9		9		9	
1/4	367.19	1/4	201.60	1/4	37.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	363.74	1/2	198.15	1/2	34.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	360.29	3/4	194.70	3/4	31.17	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	356.84	10	191.25	10	28.29	10		10		10		10		10		10		10	
1/4	353.39	1/4	187.80	1/4	25.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	349.94	1/2	184.35	1/2	22.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	346.49	3/4	180.90	3/4	20.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	343.04	11	177.45	11	18.24	11		11		11		11		11		11		11	
1/4	339.59	1/4	174.00	1/4	15.94	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	336.14	1/2	170.55	3/8	14.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	332.69	3/4	167.10	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "406"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	1,820.16	0	1,655.21	0	1,489.61	0	1,323.94	0	1,158.26	0	992.58	0	826.91	0	661.23
1/4	1/4	1/4	1/4	1/4	1,816.75	1/4	1,651.76	1/4	1,486.16	1/4	1,320.48	1/4	1,154.81	1/4	989.13	1/4	823.45	1/4	657.78
1/2	1/2	1/2	1/2	1/2	1,813.34	1/2	1,648.32	1/2	1,482.71	1/2	1,317.03	1/2	1,151.36	1/2	985.68	1/2	820.00	1/2	654.33
3/4	3/4	3/4	3/4	3/4	1,809.94	3/4	1,644.88	3/4	1,479.26	3/4	1,313.58	3/4	1,147.90	3/4	982.23	3/4	816.55	3/4	650.87
1		1		1	1,806.53	1	1,641.44	1	1,475.81	1	1,310.13	1	1,144.45	1	978.78	1	813.10	1	647.42
1/4	1/4	1/4	1/4	1/4	1,803.13	1/4	1,637.99	1/4	1,472.35	1/4	1,306.68	1/4	1,141.00	1/4	975.32	1/4	809.65	1/4	643.97
1/2	1/2	1/2	1/2	1/2	1,799.72	1/2	1,634.55	1/2	1,468.90	1/2	1,303.23	1/2	1,137.55	1/2	971.87	1/2	806.20	1/2	640.52
3/4	3/4	3/4	3/4	3/4	1,796.32	3/4	1,631.11	3/4	1,465.45	3/4	1,299.77	3/4	1,134.10	3/4	968.42	3/4	802.74	3/4	637.07
2		2		2	1,792.91	2	1,627.67	2	1,462.00	2	1,296.32	2	1,130.65	2	964.97	2	799.29	2	633.62
1/4	1/4	1/4	1/4	1/4	1,789.47	1/4	1,624.22	1/4	1,458.55	1/4	1,292.87	1/4	1,127.19	1/4	961.52	1/4	795.84	1/4	630.16
1/2	1/2	1/2	1/2	1/2	1,786.03	1/2	1,620.77	1/2	1,455.10	1/2	1,289.42	1/2	1,123.74	1/2	958.07	1/2	792.39	1/2	626.71
3/4	3/4	3/4	3/4	3/4	1,782.58	3/4	1,617.32	3/4	1,451.65	3/4	1,285.97	3/4	1,120.29	3/4	954.61	3/4	788.94	3/4	623.26
3		3		3	1,779.14	3	1,613.87	3	1,448.19	3	1,282.52	3	1,116.84	3	951.16	3	785.49	3	619.81
1/4	1/4	1/4	1/4	1/4	1,775.70	1/4	1,610.42	1/4	1,444.74	1/4	1,279.07	1/4	1,113.39	1/4	947.71	1/4	782.03	1/4	616.36
1/2	1/2	1/2	1/2	1/2	1,772.25	1/2	1,606.97	1/2	1,441.29	1/2	1,275.61	1/2	1,109.94	1/2	944.26	1/2	778.58	1/2	612.91
3/4	3/4	3/4	3/4	3/4	1,768.81	3/4	1,603.52	3/4	1,437.84	3/4	1,272.16	3/4	1,106.49	3/4	940.81	3/4	775.13	3/4	609.45
4		4		4	1,765.37	4	1,600.06	4	1,434.39	4	1,268.71	4	1,103.03	4	937.36	4	771.68	4	606.00
1/4	1/4	1/4	1/4	1/4	1,761.93	1/4	1,596.61	1/4	1,430.94	1/4	1,265.26	1/4	1,099.58	1/4	933.91	1/4	768.23	1/4	602.55
1/2	1/2	1/2	1/2	1/2	1,758.48	1/2	1,593.16	1/2	1,427.48	1/2	1,261.81	1/2	1,096.13	1/2	930.45	1/2	764.78	1/2	599.10
3/4	3/4	3/4	3/4	3/4	1,755.04	3/4	1,589.71	3/4	1,424.03	3/4	1,258.36	3/4	1,092.68	3/4	927.00	3/4	761.33	3/4	595.65
5		5		5	1,751.60	5	1,586.26	5	1,420.58	5	1,254.90	5	1,089.23	5	923.55	5	757.87	5	592.20
1/4	1/4	1/4	1/4	1/4	1,748.16	1/4	1,582.81	1/4	1,417.13	1/4	1,251.45	1/4	1,085.78	1/4	920.10	1/4	754.42	1/4	588.74
1/2	1/2	1/2	1/2	1/2	1,744.71	1/2	1,579.35	1/2	1,413.68	1/2	1,248.00	1/2	1,082.32	1/2	916.65	1/2	750.97	1/2	585.29
3/4	3/4	3/4	3/4	3/4	1,741.27	3/4	1,575.90	3/4	1,410.23	3/4	1,244.55	3/4	1,078.87	3/4	913.20	3/4	747.52	3/4	581.84
6		6		6	1,737.83	6	1,572.45	6	1,406.77	6	1,241.10	6	1,075.42	6	909.74	6	744.07	6	578.39
1/4	1/4	1/4	1/4	1/4	1,734.39	1/4	1,569.00	1/4	1,403.32	1/4	1,237.65	1/4	1,071.97	1/4	906.29	1/4	740.62	1/4	574.94
1/2	1/2	1/2	1/2	1/2	1,886.58	1/2	1,730.94	1/2	1,565.55	1/2	1,399.87	1/2	1,234.19	1/2	1,068.52	1/2	902.84	1/2	737.16
3/4	3/4	3/4	3/4	3/4	1,884.61	3/4	1,727.50	3/4	1,562.10	3/4	1,396.42	3/4	1,230.74	3/4	1,065.07	3/4	899.39	3/4	733.71
7		7		7	1,882.65	7	1,724.06	7	1,558.64	7	1,392.97	7	1,227.29	7	1,061.61	7	895.94	7	730.26
1/4	1/4	1/4	1/4	1/4	1,880.19	1/4	1,720.62	1/4	1,555.19	1/4	1,389.52	1/4	1,223.84	1/4	1,058.16	1/4	892.49	1/4	726.81
1/2	1/2	1/2	1/2	1/2	1,877.74	1/2	1,717.17	1/2	1,551.74	1/2	1,386.06	1/2	1,220.39	1/2	1,054.71	1/2	889.03	1/2	723.36
3/4	3/4	3/4	3/4	3/4	1,875.28	3/4	1,713.73	3/4	1,548.29	3/4	1,382.61	3/4	1,216.94	3/4	1,051.26	3/4	885.58	3/4	719.91
8		8		8	1,872.82	8	1,710.29	8	1,544.84	8	1,379.16	8	1,213.48	8	1,047.81	8	882.13	8	716.45
1/4	1/4	1/4	1/4	1/4	1,869.87	1/4	1,706.85	1/4	1,541.39	1/4	1,375.71	1/4	1,210.03	1/4	1,044.36	1/4	878.68	1/4	713.00
1/2	1/2	1/2	1/2	1/2	1,866.92	1/2	1,703.40	1/2	1,537.94	1/2	1,372.26	1/2	1,206.58	1/2	1,040.90	1/2	875.23	1/2	709.55
3/4	3/4	3/4	3/4	3/4	1,863.97	3/4	1,699.96	3/4	1,534.48	3/4	1,368.81	3/4	1,203.13	3/4	1,037.45	3/4	871.78	3/4	706.10
9		9		9	1,861.02	9	1,696.52	9	1,531.03	9	1,365.36	9	1,199.68	9	1,034.00	9	868.32	9	702.65
1/4	1/4	1/4	1/4	1/4	1,857.62	1/4	1,693.08	1/4	1,527.58	1/4	1,361.90	1/4	1,196.23	1/4	1,030.55	1/4	864.87	1/4	699.20
1/2	1/2	1/2	1/2	1/2	1,854.21	1/2	1,689.63	1/2	1,524.13	1/2	1,358.45	1/2	1,192.78	1/2	1,027.10	1/2	861.42	1/2	695.74
3/4	3/4	3/4	3/4	3/4	1,850.81	3/4	1,686.19	3/4	1,520.68	3/4	1,355.00	3/4	1,189.32	3/4	1,023.65	3/4	857.97	3/4	692.29
10		10		10	1,847.40	10	1,682.75	10	1,517.23	10	1,351.55	10	1,185.87	10	1,020.20	10	854.52	10	688.84
1/4	1/4	1/4	1/4	1/4	1,844.00	1/4	1,679.30	1/4	1,513.77	1/4	1,348.10	1/4	1,182.42	1/4	1,016.74	1/4	851.07	1/4	685.39
1/2	1/2	1/2	1/2	1/2	1,840.59	1/2	1,675.86	1/2	1,510.32	1/2	1,344.65	1/2	1,178.97	1/2	1,013.29	1/2	847.62	1/2	681.94
3/4	3/4	3/4	3/4	3/4	1,837.18	3/4	1,672.42	3/4	1,506.87	3/4	1,341.19	3/4	1,175.52	3/4	1,009.84	3/4	844.16	3/4	678.49
11		11		11	1,833.78	11	1,668.98	11	1,503.42	11	1,337.74	11	1,172.07	11	1,006.39	11	840.71	11	675.04
1/4	1/4	1/4	1/4	1/4	1,830.37	1/4	1,665.53	1/4	1,499.97	1/4	1,334.29	1/4	1,168.61	1/4	1,002.94	1/4	837.26	1/4	671.58
1/2	1/2	1/2	1/2	1/2	1,826.97	1/2	1,662.09	1/2	1,496.52	1/2	1,330.84	1/2	1,165.16	1/2	999.49	1/2	833.81	1/2	668.13
3/4	3/4	3/4	3/4	3/4	1,823.56	3/4	1,658.65	3/4	1,493.06	3/4	1,327.39	3/4	1,161.71	3/4	996.03	3/4	830.36	3/4	664.68

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "406"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 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	496.06	0	331.14	0	165.47	0		0		0		0		0		0		0	
1/4	492.64	1/4	327.69	1/4	162.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	489.22	1/2	324.24	1/2	158.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	485.80	3/4	320.79	3/4	155.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	482.38	1	317.34	1	151.66	1		1		1		1		1		1		1	
1/4	478.96	1/4	313.89	1/4	148.21	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	475.54	1/2	310.43	1/2	144.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	472.12	3/4	306.98	3/4	141.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	468.70	2	303.53	2	137.85	2		2		2		2		2		2		2	
1/4	465.28	1/4	300.08	1/4	134.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	461.86	1/2	296.63	1/2	130.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.44	3/4	293.18	3/4	127.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	455.02	3	289.72	3	124.05	3		3		3		3		3		3		3	
1/4	451.60	1/4	286.27	1/4	120.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	448.18	1/2	282.82	1/2	117.15	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.76	3/4	279.37	3/4	113.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	441.34	4	275.92	4	110.26	4		4		4		4		4		4		4	
1/4	437.92	1/4	272.47	1/4	106.82	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.50	1/2	269.01	1/2	103.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	431.08	3/4	265.56	3/4	99.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	427.66	5	262.11	5	96.49	5		5		5		5		5		5		5	
1/4	424.24	1/4	258.66	1/4	93.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.82	1/2	255.21	1/2	89.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	417.40	3/4	251.76	3/4	86.18	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	413.98	6	248.30	6	82.74	6		6		6		6		6		6		6	
1/4	410.53	1/4	244.85	1/4	79.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	407.08	1/2	241.40	1/2	75.89	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.63	3/4	237.95	3/4	72.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	400.18	7	234.50	7	69.03	7		7		7		7		7		7		7	
1/4	396.72	1/4	231.05	1/4	65.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393.27	1/2	227.60	1/2	62.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.82	3/4	224.14	3/4	58.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	386.37	8	220.69	8	55.38	8		8		8		8		8		8		8	
1/4	382.92	1/4	217.24	1/4	51.99	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	379.47	1/2	213.79	1/2	48.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	376.01	3/4	210.34	3/4	45.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	372.56	9	206.89	9	41.81	9		9		9		9		9		9		9	
1/4	369.11	1/4	203.43	1/4	38.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.66	1/2	199.98	1/2	35.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	362.21	3/4	196.53	3/4	32.33	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	358.76	10	193.08	10	29.18	10		10		10		10		10		10		10	
1/4	355.30	1/4	189.63	1/4	26.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.85	1/2	186.18	1/2	24.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	348.40	3/4	182.72	3/4	21.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	344.95	11	179.27	11	18.82	11		11		11		11		11		11		11	
1/4	341.50	1/4	175.82	1/4	16.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	338.05	1/2	172.37	1/2	14.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334.59	3/4	168.92	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "406"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0	1,819.26	0	1,654.31	0	1,488.71	0	1,323.04	0	1,157.36	0	991.68	0	826.01	0	660.33		
1/4	1/4	1/4	1/4	1/4	1,815.85	1/4	1,650.87	1/4	1,485.26	1/4	1,319.59	1/4	1,153.91	1/4	988.23	1/4	822.56	1/4	656.88		
1/2	1/2	1/2	1/2	1/2	1,812.45	1/2	1,647.42	1/2	1,481.81	1/2	1,316.13	1/2	1,150.46	1/2	984.78	1/2	819.10	1/2	653.43		
3/4	3/4	3/4	3/4	3/4	1,809.04	3/4	1,643.98	3/4	1,478.36	3/4	1,312.68	3/4	1,147.01	3/4	981.33	3/4	815.65	3/4	649.98		
1		1		1	1,805.64	1	1,640.54	1	1,474.91	1	1,309.23	1	1,143.55	1	977.88	1	812.20	1	646.52		
1/4	1/4	1/4	1/4	1/4	1,802.23	1/4	1,637.10	1/4	1,471.46	1/4	1,305.78	1/4	1,140.10	1/4	974.43	1/4	808.75	1/4	643.07		
1/2	1/2	1/2	1/2	1/2	1,798.82	1/2	1,633.65	1/2	1,468.01	1/2	1,302.33	1/2	1,136.65	1/2	970.97	1/2	805.30	1/2	639.62		
3/4	3/4	3/4	3/4	3/4	1,795.42	3/4	1,630.21	3/4	1,464.55	3/4	1,298.88	3/4	1,133.20	3/4	967.52	3/4	801.85	3/4	636.17		
2		2		2	1,792.01	2	1,626.77	2	1,461.10	2	1,295.43	2	1,129.75	2	964.07	2	798.39	2	632.72		
1/4	1/4	1/4	1/4	1/4	1,788.57	1/4	1,623.32	1/4	1,457.65	1/4	1,291.97	1/4	1,126.30	1/4	960.62	1/4	794.94	1/4	629.27		
1/2	1/2	1/2	1/2	1/2	1,785.13	1/2	1,619.87	1/2	1,454.20	1/2	1,288.52	1/2	1,122.85	1/2	957.17	1/2	791.49	1/2	625.81		
3/4	3/4	3/4	3/4	3/4	1,781.68	3/4	1,616.42	3/4	1,450.75	3/4	1,285.07	3/4	1,119.39	3/4	953.72	3/4	788.04	3/4	622.36		
3		3		3	1,778.24	3	1,612.97	3	1,447.30	3	1,281.62	3	1,115.94	3	950.27	3	784.59	3	618.91		
1/4	1/4	1/4	1/4	1/4	1,774.80	1/4	1,609.52	1/4	1,443.84	1/4	1,278.17	1/4	1,112.49	1/4	946.81	1/4	781.14	1/4	615.46		
1/2	1/2	1/2	1/2	1/2	1,771.36	1/2	1,606.07	1/2	1,440.39	1/2	1,274.72	1/2	1,109.04	1/2	943.36	1/2	777.69	1/2	612.01		
3/4	3/4	3/4	3/4	3/4	1,767.91	3/4	1,602.62	3/4	1,436.94	3/4	1,271.26	3/4	1,105.59	3/4	939.91	3/4	774.23	3/4	608.56		
4		4		4	1,764.47	4	1,599.17	4	1,433.49	4	1,267.81	4	1,102.14	4	936.46	4	770.78	4	605.10		
1/4	1/4	1/4	1/4	1/4	1,761.03	1/4	1,595.71	1/4	1,430.04	1/4	1,264.36	1/4	1,098.68	1/4	933.01	1/4	767.33	1/4	601.65		
1/2	1/2	1/2	1/2	1/2	1,757.59	1/2	1,592.26	1/2	1,426.59	1/2	1,260.91	1/2	1,095.23	1/2	929.56	1/2	763.88	1/2	598.20		
3/4	3/4	3/4	3/4	3/4	1,754.14	3/4	1,588.81	3/4	1,423.13	3/4	1,257.46	3/4	1,091.78	3/4	926.10	3/4	760.43	3/4	594.75		
5		5		5	1,750.70	5	1,585.36	5	1,419.68	5	1,254.01	5	1,088.33	5	922.65	5	756.98	5	591.30		
1/4	1/4	1/4	1/4	1/4	1,747.26	1/4	1,581.91	1/4	1,416.23	1/4	1,250.55	1/4	1,084.88	1/4	919.20	1/4	753.52	1/4	587.84		
1/2	1/2	1/2	1/2	1/2	1,743.82	1/2	1,578.46	1/2	1,412.78	1/2	1,247.10	1/2	1,081.43	1/2	915.75	1/2	750.07	1/2	584.39		
3/4	3/4	3/4	3/4	3/4	1,740.37	3/4	1,575.00	3/4	1,409.33	3/4	1,243.65	3/4	1,077.97	3/4	912.30	3/4	746.62	3/4	580.94		
6		6		6	1,736.93	6	1,571.55	6	1,405.88	6	1,240.20	6	1,074.52	6	908.85	6	743.17	6	577.49		
1/4	1/4	1/4	1/4	1/4	1,733.49	1/4	1,568.10	1/4	1,402.42	1/4	1,236.75	1/4	1,071.07	1/4	905.39	1/4	739.72	1/4	574.04		
1/2	1/2	1,885.68	1/2	1,730.05	1/2	1,564.65	1/2	1,398.97	1/2	1,233.30	1/2	1,067.62	1/2	901.94	1/2	736.27	1/2	570.59			
3/4	3/4	1,883.71	3/4	1,726.60	3/4	1,561.20	3/4	1,395.52	3/4	1,229.84	3/4	1,064.17	3/4	898.49	3/4	732.81	3/4	567.13			
7		7		7	1,881.75	7	1,723.16	7	1,557.75	7	1,392.07	7	1,226.39	7	1,060.72	7	895.04	7	729.36	7	563.68
1/4	1/4	1,879.29	1/4	1,719.72	1/4	1,554.30	1/4	1,388.62	1/4	1,222.94	1/4	1,057.26	1/4	891.59	1/4	725.91	1/4	560.23			
1/2	1/2	1,876.84	1/2	1,716.28	1/2	1,550.84	1/2	1,385.17	1/2	1,219.49	1/2	1,053.81	1/2	888.14	1/2	722.46	1/2	556.78			
3/4	3/4	1,874.38	3/4	1,712.83	3/4	1,547.39	3/4	1,381.72	3/4	1,216.04	3/4	1,050.36	3/4	884.68	3/4	719.01	3/4	553.33			
8		8		8	1,871.92	8	1,709.39	8	1,543.94	8	1,378.26	8	1,212.59	8	1,046.91	8	881.23	8	715.56	8	549.87
1/4	1/4	1,868.98	1/4	1,705.95	1/4	1,540.49	1/4	1,374.81	1/4	1,209.14	1/4	1,043.46	1/4	877.78	1/4	712.10	1/4	546.48			
1/2	1/2	1,866.03	1/2	1,702.50	1/2	1,537.04	1/2	1,371.36	1/2	1,205.68	1/2	1,040.01	1/2	874.33	1/2	708.65	1/2	543.08			
3/4	3/4	1,863.08	3/4	1,699.06	3/4	1,533.59	3/4	1,367.91	3/4	1,202.23	3/4	1,036.56	3/4	870.88	3/4	705.20	3/4	539.68			
9		9		9	1,860.13	9	1,695.62	9	1,530.13	9	1,198.78	9	1,033.10	9	867.43	9	701.75	9	536.28		
1/4	1/4	1,856.72	1/4	1,692.18	1/4	1,526.68	1/4	1,361.01	1/4	1,195.33	1/4	1,029.65	1/4	863.98	1/4	698.30	1/4	532.89			
1/2	1/2	1,853.32	1/2	1,688.73	1/2	1,523.23	1/2	1,357.55	1/2	1,191.88	1/2	1,026.20	1/2	860.52	1/2	694.85	1/2	529.49			
3/4	3/4	1,849.91	3/4	1,685.29	3/4	1,519.78	3/4	1,354.10	3/4	1,188.43	3/4	1,022.75	3/4	857.07	3/4	691.40	3/4	526.09			
10		10		10	1,846.50	10	1,681.85	10	1,516.33	10	1,350.65	10	1,184.97	10	1,019.30	10	853.62	10	687.94	10	522.70
1/4	1/4	1,843.10	1/4	1,678.41	1/4	1,512.88	1/4	1,347.20	1/4	1,181.52	1/4	1,015.85	1/4	850.17	1/4	684.49	1/4	519.30			
1/2	1/2	1,839.69	1/2	1,674.96	1/2	1,509.42	1/2	1,343.75	1/2	1,178.07	1/2	1,012.39	1/2	846.72	1/2	681.04	1/2	515.90			
3/4	3/4	1,836.29	3/4	1,671.52	3/4	1,505.97	3/4	1,340.30	3/4	1,174.62	3/4	1,008.94	3/4	843.27	3/4	677.59	3/4	512.50			
11		11		11	1,832.88	11	1,668.08	11	1,502.52	11	1,336.84	11	1,171.17	11	1,005.49	11	839.81	11	674.14	11	509.11
1/4	1/4	1,829.48	1/4	1,664.64	1/4	1,499.07	1/4	1,333.39	1/4	1,167.72	1/4	1,002.04	1/4	836.36	1/4	670.69	1/4	505.71			
1/2	1/2	1,826.07	1/2	1,661.19	1/2	1,495.62	1/2	1,329.94	1/2	1,164.26	1/2	998.59	1/2	832.91	1/2	667.23	1/2	502.31			
3/4	3/4	1,822.66	3/4	1,657.75	3/4	1,492.17	3/4	1,326.49	3/4	1,160.81	3/4	995.14	3/4	829.46	3/4	663.78	3/4	498.91			

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "406"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 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	495.52	0	331.14	0	165.47	0		0		0		0		0		0		0	
1/4	492.12	1/4	327.69	1/4	162.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	488.72	1/2	324.24	1/2	158.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	485.32	3/4	320.79	3/4	155.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	481.93	1	317.34	1	151.66	1		1		1		1		1		1		1	
1/4	478.53	1/4	313.89	1/4	148.21	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	475.13	1/2	310.43	1/2	144.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	471.74	3/4	306.98	3/4	141.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	468.34	2	303.53	2	137.85	2		2		2		2		2		2		2	
1/4	464.94	1/4	300.08	1/4	134.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	461.54	1/2	296.63	1/2	130.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.15	3/4	293.18	3/4	127.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	454.75	3	289.72	3	124.05	3		3		3		3		3		3		3	
1/4	451.35	1/4	286.27	1/4	120.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	447.95	1/2	282.82	1/2	117.15	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.56	3/4	279.37	3/4	113.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	441.16	4	275.92	4	110.26	4		4		4		4		4		4		4	
1/4	437.76	1/4	272.47	1/4	106.82	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.37	1/2	269.01	1/2	103.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.97	3/4	265.56	3/4	99.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	427.57	5	262.11	5	96.49	5		5		5		5		5		5		5	
1/4	424.17	1/4	258.66	1/4	93.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.78	1/2	255.21	1/2	89.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	417.38	3/4	251.76	3/4	86.18	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	413.98	6	248.30	6	82.74	6		6		6		6		6		6		6	
1/4	410.53	1/4	244.85	1/4	79.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	407.08	1/2	241.40	1/2	75.89	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.63	3/4	237.95	3/4	72.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	400.18	7	234.50	7	69.03	7		7		7		7		7		7		7	
1/4	396.72	1/4	231.05	1/4	65.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393.27	1/2	227.60	1/2	62.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.82	3/4	224.14	3/4	58.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	386.37	8	220.69	8	55.38	8		8		8		8		8		8		8	
1/4	382.92	1/4	217.24	1/4	51.99	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	379.47	1/2	213.79	1/2	48.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	376.01	3/4	210.34	3/4	45.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	372.56	9	206.89	9	41.81	9		9		9		9		9		9		9	
1/4	369.11	1/4	203.43	1/4	38.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.66	1/2	199.98	1/2	35.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	362.21	3/4	196.53	3/4	32.33	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	358.76	10	193.08	10	29.18	10		10		10		10		10		10		10	
1/4	355.30	1/4	189.63	1/4	26.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.85	1/2	186.18	1/2	24.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	348.40	3/4	182.72	3/4	21.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	344.95	11	179.27	11	18.82	11		11		11		11		11		11		11	
1/4	341.50	1/4	175.82	1/4	16.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	338.05	1/2	172.37	1/2	14.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334.59	3/4	168.92	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "406"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	1,818.78	0	1,653.88	0	1,488.33	0	1,322.69	0	1,157.06	0	991.43	0	825.79	0	660.16		
1/4	1/4	1/4	1/4	1/4	1,815.38	1/4	1,650.43	1/4	1,484.88	1/4	1,319.24	1/4	1,153.61	1/4	987.98	1/4	822.34	1/4	656.71		
1/2	1/2	1/2	1/2	1/2	1,811.97	1/2	1,646.99	1/2	1,481.43	1/2	1,315.79	1/2	1,150.16	1/2	984.52	1/2	818.89	1/2	653.26		
3/4	3/4	3/4	3/4	3/4	1,808.57	3/4	1,643.55	3/4	1,477.97	3/4	1,312.34	3/4	1,146.71	3/4	981.07	3/4	815.44	3/4	649.81		
1		1		1	1,805.16	1	1,640.11	1	1,474.52	1	1,308.89	1	1,143.26	1	977.62	1	811.99	1	646.36		
1/4	1/4	1/4	1/4	1/4	1,801.76	1/4	1,636.67	1/4	1,471.07	1/4	1,305.44	1/4	1,139.81	1/4	974.17	1/4	808.54	1/4	642.91		
1/2	1/2	1/2	1/2	1/2	1,798.35	1/2	1,633.23	1/2	1,467.62	1/2	1,301.99	1/2	1,136.36	1/2	970.72	1/2	805.09	1/2	639.45		
3/4	3/4	3/4	3/4	3/4	1,794.95	3/4	1,629.78	3/4	1,464.17	3/4	1,298.54	3/4	1,132.90	3/4	967.27	3/4	801.64	3/4	636.00		
2		2		2	1,791.54	2	1,626.34	2	1,460.72	2	1,295.09	2	1,129.45	2	963.82	2	798.19	2	632.55		
1/4	1/4	1/4	1/4	1/4	1,788.10	1/4	1,622.89	1/4	1,457.27	1/4	1,291.64	1/4	1,126.00	1/4	960.37	1/4	794.74	1/4	629.10		
1/2	1/2	1/2	1/2	1/2	1,784.66	1/2	1,619.45	1/2	1,453.82	1/2	1,288.19	1/2	1,122.55	1/2	956.92	1/2	791.29	1/2	625.65		
3/4	3/4	3/4	3/4	3/4	1,781.22	3/4	1,616.00	3/4	1,450.37	3/4	1,284.74	3/4	1,119.10	3/4	953.47	3/4	787.83	3/4	622.20		
3		3		3	1,777.78	3	1,612.55	3	1,446.92	3	1,281.29	3	1,115.65	3	950.02	3	784.38	3	618.75		
1/4	1/4	1/4	1/4	1/4	1,774.34	1/4	1,609.10	1/4	1,443.47	1/4	1,277.83	1/4	1,112.20	1/4	946.57	1/4	780.93	1/4	615.30		
1/2	1/2	1/2	1/2	1/2	1,770.89	1/2	1,605.65	1/2	1,440.02	1/2	1,274.38	1/2	1,108.75	1/2	943.12	1/2	777.48	1/2	611.85		
3/4	3/4	3/4	3/4	3/4	1,767.45	3/4	1,602.20	3/4	1,436.57	3/4	1,270.93	3/4	1,105.30	3/4	939.67	3/4	774.03	3/4	608.40		
4		4		4	1,764.01	4	1,598.75	4	1,433.12	4	1,267.48	4	1,101.85	4	936.22	4	770.58	4	604.95		
1/4	1/4	1/4	1/4	1/4	1,760.57	1/4	1,595.30	1/4	1,429.67	1/4	1,264.03	1/4	1,098.40	1/4	932.76	1/4	767.13	1/4	601.50		
1/2	1/2	1/2	1/2	1/2	1,757.13	1/2	1,591.85	1/2	1,426.21	1/2	1,260.58	1/2	1,094.95	1/2	929.31	1/2	763.68	1/2	598.04		
3/4	3/4	3/4	3/4	3/4	1,753.69	3/4	1,588.40	3/4	1,422.76	3/4	1,257.13	3/4	1,091.50	3/4	925.86	3/4	760.23	3/4	594.59		
5		5		5	1,750.24	5	1,584.95	5	1,419.31	5	1,253.68	5	1,088.05	5	922.41	5	756.78	5	591.14		
1/4	1/4	1/4	1/4	1/4	1,746.80	1/4	1,581.50	1/4	1,415.86	1/4	1,250.23	1/4	1,084.60	1/4	918.96	1/4	753.33	1/4	587.69		
1/2	1/2	1/2	1/2	1/2	1,743.36	1/2	1,578.05	1/2	1,412.41	1/2	1,246.78	1/2	1,081.14	1/2	915.51	1/2	749.88	1/2	584.24		
3/4	3/4	3/4	3/4	3/4	1,739.92	3/4	1,574.59	3/4	1,408.96	3/4	1,243.33	3/4	1,077.69	3/4	912.06	3/4	746.43	3/4	580.79		
6		6		6	1,736.48	6	1,571.14	6	1,405.51	6	1,239.88	6	1,074.24	6	908.61	6	742.98	6	577.34		
1/4	1/4	1/4	1/4	1/4	1,733.04	1/4	1,567.69	1/4	1,402.06	1/4	1,236.43	1/4	1,070.79	1/4	905.16	1/4	739.53	1/4	573.89		
1/2	1/2	1,885.19	1/2	1,729.59	1/2	1,564.24	1/2	1,398.61	1/2	1,232.98	1/2	1,067.34	1/2	901.71	1/2	736.07	1/2	570.44			
3/4	3/4	1,883.23	3/4	1,726.15	3/4	1,560.79	3/4	1,395.16	3/4	1,229.52	3/4	1,063.89	3/4	898.26	3/4	732.62	3/4	566.99			
7		7		7	1,881.27	7	1,722.71	7	1,557.34	7	1,391.71	7	1,226.07	7	1,060.44	7	894.81	7	729.17	7	563.53
1/4	1/4	1,878.81	1/4	1,719.27	1/4	1,553.89	1/4	1,388.26	1/4	1,222.62	1/4	1,056.99	1/4	891.36	1/4	725.72	1/4	560.08			
1/2	1/2	1,876.35	1/2	1,715.83	1/2	1,550.44	1/2	1,384.81	1/2	1,219.17	1/2	1,053.54	1/2	887.91	1/2	722.27	1/2	556.63			
3/4	3/4	1,873.90	3/4	1,712.38	3/4	1,546.99	3/4	1,381.36	3/4	1,215.72	3/4	1,050.09	3/4	884.45	3/4	718.82	3/4	553.18			
8		8		8	1,871.44	8	1,708.94	8	1,543.54	8	1,377.90	8	1,212.27	8	1,046.64	8	881.00	8	715.37	8	549.73
1/4	1/4	1,868.49	1/4	1,705.50	1/4	1,540.09	1/4	1,374.45	1/4	1,208.82	1/4	1,043.19	1/4	877.55	1/4	711.92	1/4	546.33			
1/2	1/2	1,865.54	1/2	1,702.06	1/2	1,536.64	1/2	1,371.00	1/2	1,205.37	1/2	1,039.74	1/2	874.10	1/2	708.47	1/2	542.94			
3/4	3/4	1,862.59	3/4	1,698.62	3/4	1,533.19	3/4	1,367.55	3/4	1,201.92	3/4	1,036.29	3/4	870.65	3/4	705.02	3/4	539.54			
9		9		9	1,859.64	9	1,695.18	9	1,529.74	9	1,364.10	9	1,198.47	9	1,032.83	9	867.20	9	701.57	9	536.15
1/4	1/4	1,856.24	1/4	1,691.73	1/4	1,526.28	1/4	1,360.65	1/4	1,195.02	1/4	1,029.38	1/4	863.75	1/4	698.12	1/4	532.75			
1/2	1/2	1,852.83	1/2	1,688.29	1/2	1,522.83	1/2	1,357.20	1/2	1,191.57	1/2	1,025.93	1/2	860.30	1/2	694.67	1/2	529.35			
3/4	3/4	1,849.43	3/4	1,684.85	3/4	1,519.38	3/4	1,353.75	3/4	1,188.12	3/4	1,022.48	3/4	856.85	3/4	691.22	3/4	525.96			
10		10		10	1,846.02	10	1,681.41	10	1,515.93	10	1,350.30	10	1,184.67	10	1,019.03	10	853.40	10	522.56		
1/4	1/4	1,842.62	1/4	1,677.97	1/4	1,512.48	1/4	1,346.85	1/4	1,181.21	1/4	1,015.58	1/4	849.95	1/4	684.31	1/4	519.16			
1/2	1/2	1,839.21	1/2	1,674.53	1/2	1,509.03	1/2	1,343.40	1/2	1,177.76	1/2	1,012.13	1/2	846.50	1/2	680.86	1/2	515.77			
3/4	3/4	1,835.81	3/4	1,671.08	3/4	1,505.58	3/4	1,339.95	3/4	1,174.31	3/4	1,008.68	3/4	843.05	3/4	677.41	3/4	512.37			
11		11		11	1,832.40	11	1,667.64	11	1,502.13	11	1,336.50	11	1,170.86	11	1,005.23	11	839.60	11	508.97		
1/4	1/4	1,829.00	1/4	1,664.20	1/4	1,498.68	1/4	1,333.05	1/4	1,167.41	1/4	1,001.78	1/4	836.14	1/4	670.51	1/4	505.58			
1/2	1/2	1,825.59	1/2	1,660.76	1/2	1,495.23	1/2	1,329.59	1/2	1,163.96	1/2	998.33	1/2	832.69	1/2	667.06	1/2	502.18			
3/4	3/4	1,822.19	3/4	1,657.32	3/4	1,491.78	3/4	1,326.14	3/4	1,160.51	3/4	994.88	3/4	829.24	3/4	663.61	3/4	498.78			

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 12'-6" OFF CENTERLINE AND 18'-09" FORWARD OF AFT BULKHEAD.

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





# BARGE "406"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 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	495.39	0	331.06	0	165.42	0		0		0		0		0		0		0	
1/4	491.99	1/4	327.61	1/4	161.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	488.60	1/2	324.16	1/2	158.52	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	485.20	3/4	320.71	3/4	155.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	481.80	1	317.26	1	151.62	1		1		1		1		1		1		1	
1/4	478.41	1/4	313.80	1/4	148.17	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	475.01	1/2	310.35	1/2	144.72	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	471.61	3/4	306.90	3/4	141.27	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	468.22	2	303.45	2	137.82	2		2		2		2		2		2		2	
1/4	464.82	1/4	300.00	1/4	134.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	461.42	1/2	296.55	1/2	130.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.03	3/4	293.10	3/4	127.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	454.63	3	289.65	3	124.02	3		3		3		3		3		3		3	
1/4	451.24	1/4	286.20	1/4	120.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	447.84	1/2	282.75	1/2	117.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.44	3/4	279.30	3/4	113.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	441.05	4	275.85	4	110.23	4		4		4		4		4		4		4	
1/4	437.65	1/4	272.40	1/4	106.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.25	1/2	268.95	1/2	103.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.86	3/4	265.49	3/4	99.90	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	427.46	5	262.04	5	96.46	5		5		5		5		5		5		5	
1/4	424.06	1/4	258.59	1/4	93.03	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.67	1/2	255.14	1/2	89.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	417.27	3/4	251.69	3/4	86.16	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	413.87	6	248.24	6	82.72	6		6		6		6		6		6		6	
1/4	410.42	1/4	244.79	1/4	79.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	406.97	1/2	241.34	1/2	75.87	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.52	3/4	237.89	3/4	72.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	400.07	7	234.44	7	69.02	7		7		7		7		7		7		7	
1/4	396.62	1/4	230.99	1/4	65.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393.17	1/2	227.54	1/2	62.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.72	3/4	224.09	3/4	58.78	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	386.27	8	220.64	8	55.36	8		8		8		8		8		8		8	
1/4	382.82	1/4	217.18	1/4	51.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	379.37	1/2	213.73	1/2	48.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375.92	3/4	210.28	3/4	45.19	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	372.47	9	206.83	9	41.80	9		9		9		9		9		9		9	
1/4	369.02	1/4	203.38	1/4	38.64	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.56	1/2	199.93	1/2	35.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	362.11	3/4	196.48	3/4	32.33	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	358.66	10	193.03	10	29.17	10		10		10		10		10		10		10	
1/4	355.21	1/4	189.58	1/4	26.58	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.76	1/2	186.13	1/2	23.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	348.31	3/4	182.68	3/4	21.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	344.86	11	179.23	11	18.82	11		11		11		11		11		11		11	
1/4	341.41	1/4	175.78	1/4	16.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	337.96	1/2	172.33	1/2	14.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334.51	3/4	168.87	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "406"

# 5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-00 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	1,824.60	0	1,659.88	0	1,494.47	0	1,328.95	0	1,163.43	0	997.90	0	832.38	0	666.86
1/4	1/4	1/4	1/4	1/4	1,821.20	1/4	1,656.44	1/4	1,491.02	1/4	1,325.50	1/4	1,159.98	1/4	994.46	1/4	828.93	1/4	663.41
1/2	1/2	1/2	1/2	1/2	1,817.80	1/2	1,653.00	1/2	1,487.58	1/2	1,322.05	1/2	1,156.53	1/2	991.01	1/2	825.48	1/2	659.96
3/4	3/4	3/4	3/4	3/4	1,814.39	3/4	1,649.56	3/4	1,484.13	3/4	1,318.60	3/4	1,153.08	3/4	987.56	3/4	822.04	3/4	656.51
1		1		1	1,810.99	1	1,646.12	1	1,480.68	1	1,315.16	1	1,149.63	1	984.11	1	818.59	1	653.06
1/4	1/4	1/4	1/4	1/4	1,807.59	1/4	1,642.69	1/4	1,477.23	1/4	1,311.71	1/4	1,146.18	1/4	980.66	1/4	815.14	1/4	649.62
1/2	1/2	1/2	1/2	1/2	1,804.19	1/2	1,639.25	1/2	1,473.78	1/2	1,308.26	1/2	1,142.74	1/2	977.21	1/2	811.69	1/2	646.17
3/4	3/4	3/4	3/4	3/4	1,800.78	3/4	1,635.81	3/4	1,470.33	3/4	1,304.81	3/4	1,139.29	3/4	973.76	3/4	808.24	3/4	642.72
2		2		2	1,797.38	2	1,632.37	2	1,466.89	2	1,301.36	2	1,135.84	2	970.32	2	804.79	2	639.27
1/4	1/4	1/4	1/4	1/4	1,793.98	1/4	1,628.93	1/4	1,463.44	1/4	1,297.91	1/4	1,132.39	1/4	966.87	1/4	801.34	1/4	635.82
1/2	1/2	1/2	1/2	1/2	1,790.57	1/2	1,625.49	1/2	1,459.99	1/2	1,294.47	1/2	1,128.94	1/2	963.42	1/2	797.90	1/2	632.37
3/4	3/4	3/4	3/4	3/4	1,787.14	3/4	1,622.05	3/4	1,456.54	3/4	1,291.02	3/4	1,125.49	3/4	959.97	3/4	794.45	3/4	628.92
3		3		3	1,783.70	3	1,618.60	3	1,453.09	3	1,287.57	3	1,122.05	3	956.52	3	791.00	3	625.48
1/4	1/4	1/4	1/4	1/4	1,780.26	1/4	1,615.16	1/4	1,449.64	1/4	1,284.12	1/4	1,118.60	1/4	953.07	1/4	787.55	1/4	622.03
1/2	1/2	1/2	1/2	1/2	1,776.82	1/2	1,611.72	1/2	1,446.20	1/2	1,280.67	1/2	1,115.15	1/2	949.63	1/2	784.10	1/2	618.58
3/4	3/4	3/4	3/4	3/4	1,773.38	3/4	1,608.27	3/4	1,442.75	3/4	1,277.22	3/4	1,111.70	3/4	946.18	3/4	780.65	3/4	615.13
4		4		4	1,769.94	4	1,604.82	4	1,439.30	4	1,273.78	4	1,108.25	4	942.73	4	777.21	4	611.68
1/4	1/4	1/4	1/4	1/4	1,766.50	1/4	1,601.37	1/4	1,435.85	1/4	1,270.33	1/4	1,104.80	1/4	939.28	1/4	773.76	1/4	608.23
1/2	1/2	1/2	1/2	1/2	1,763.06	1/2	1,597.93	1/2	1,432.40	1/2	1,266.88	1/2	1,101.36	1/2	935.83	1/2	770.31	1/2	604.79
3/4	3/4	3/4	3/4	3/4	1,759.62	3/4	1,594.48	3/4	1,428.95	3/4	1,263.43	3/4	1,097.91	3/4	932.38	3/4	766.86	3/4	601.34
5		5		5	1,756.18	5	1,591.03	5	1,425.51	5	1,259.98	5	1,094.46	5	928.94	5	763.41	5	597.89
1/4	1/4	1/4	1/4	1/4	1,752.74	1/4	1,587.58	1/4	1,422.06	1/4	1,256.53	1/4	1,091.01	1/4	925.49	1/4	759.96	1/4	594.44
1/2	1/2	1/2	1/2	1/2	1,749.30	1/2	1,584.13	1/2	1,418.61	1/2	1,253.09	1/2	1,087.56	1/2	922.04	1/2	756.52	1/2	590.99
3/4	3/4	3/4	3/4	3/4	1,745.86	3/4	1,580.68	3/4	1,415.16	3/4	1,249.64	3/4	1,084.11	3/4	918.59	3/4	753.07	3/4	587.54
6		6		6	1,742.42	6	1,577.23	6	1,411.71	6	1,246.19	6	1,080.67	6	915.14	6	749.62	6	584.09
1/4	1/4	1/4	1/4	1/4	1,738.99	1/4	1,573.79	1/4	1,408.26	1/4	1,242.74	1/4	1,077.22	1/4	911.69	1/4	746.17	1/4	580.65
1/2	1/2	1/2	1/2	1/2	1,735.55	1/2	1,570.34	1/2	1,404.81	1/2	1,239.29	1/2	1,073.77	1/2	908.25	1/2	742.72	1/2	577.20
3/4	3/4	3/4	3/4	3/4	1,732.11	3/4	1,566.89	3/4	1,401.37	3/4	1,235.84	3/4	1,070.32	3/4	904.80	3/4	739.27	3/4	573.75
7		7	1,884.15	7	1,728.67	7	1,563.44	7	1,397.92	7	1,232.39	7	1,066.87	7	901.35	7	735.83	7	570.30
1/4	1/4	1/4	1,882.19	1/4	1,725.23	1/4	1,559.99	1/4	1,394.47	1/4	1,228.95	1/4	1,063.42	1/4	897.90	1/4	732.38	1/4	566.85
1/2	1/2	1/2	1,880.23	1/2	1,721.79	1/2	1,556.54	1/2	1,391.02	1/2	1,225.50	1/2	1,059.97	1/2	894.45	1/2	728.93	1/2	563.40
3/4	3/4	3/4	1,877.77	3/4	1,718.35	3/4	1,553.10	3/4	1,387.57	3/4	1,222.05	3/4	1,056.53	3/4	891.00	3/4	725.48	3/4	559.95
8		8	1,875.32	8	1,714.91	8	1,549.65	8	1,384.12	8	1,218.60	8	1,053.08	8	887.55	8	722.03	8	556.50
1/4	1/4	1/4	1,872.87	1/4	1,711.47	1/4	1,546.20	1/4	1,380.68	1/4	1,215.15	1/4	1,049.63	1/4	884.11	1/4	718.58	1/4	553.06
1/2	1/2	1/2	1,870.41	1/2	1,708.03	1/2	1,542.75	1/2	1,377.23	1/2	1,211.70	1/2	1,046.18	1/2	880.66	1/2	715.13	1/2	549.61
3/4	3/4	3/4	1,867.47	3/4	1,704.59	3/4	1,539.30	3/4	1,373.78	3/4	1,208.26	3/4	1,042.73	3/4	877.21	3/4	711.69	3/4	546.19
9		9	1,864.52	9	1,701.15	9	1,535.85	9	1,370.33	9	1,204.81	9	1,039.28	9	873.76	9	708.24	9	542.77
1/4	1/4	1/4	1,861.57	1/4	1,697.71	1/4	1,532.41	1/4	1,366.88	1/4	1,201.36	1/4	1,035.84	1/4	870.31	1/4	704.79	1/4	539.36
1/2	1/2	1/2	1,858.63	1/2	1,694.27	1/2	1,528.96	1/2	1,363.43	1/2	1,197.91	1/2	1,032.39	1/2	866.86	1/2	701.34	1/2	535.94
3/4	3/4	3/4	1,855.22	3/4	1,690.84	3/4	1,525.51	3/4	1,359.99	3/4	1,194.46	3/4	1,028.94	3/4	863.42	3/4	697.89	3/4	532.53
10		10	1,851.82	10	1,687.40	10	1,522.06	10	1,356.54	10	1,191.01	10	1,025.49	10	859.97	10	694.44	10	529.11
1/4	1/4	1/4	1,848.42	1/4	1,683.96	1/4	1,518.61	1/4	1,353.09	1/4	1,187.57	1/4	1,022.04	1/4	856.52	1/4	691.00	1/4	525.69
1/2	1/2	1/2	1,845.02	1/2	1,680.52	1/2	1,515.16	1/2	1,349.64	1/2	1,184.12	1/2	1,018.59	1/2	853.07	1/2	687.55	1/2	522.28
3/4	3/4	3/4	1,841.61	3/4	1,677.08	3/4	1,511.72	3/4	1,346.19	3/4	1,180.67	3/4	1,015.15	3/4	849.62	3/4	684.10	3/4	518.86
11		11	1,838.21	11	1,673.64	11	1,508.27	11	1,342.74	11	1,177.22	11	1,011.70	11	846.17	11	680.65	11	515.44
1/4	1/4	1/4	1,834.81	1/4	1,670.20	1/4	1,504.82	1/4	1,339.30	1/4	1,173.77	1/4	1,008.25	1/4	842.73	1/4	677.20	1/4	512.03
1/2	1/2	1/2	1,831.41	1/2	1,666.76	1/2	1,501.37	1/2	1,335.85	1/2	1,170.32	1/2	1,004.80	1/2	839.28	1/2	673.75	1/2	508.61
3/4	3/4	3/4	1,828.00	3/4	1,663.32	3/4	1,497.92	3/4	1,332.40	3/4	1,166.88	3/4	1,001.35	3/4	835.83	3/4	670.31	3/4	505.22

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 10'-6" OFF CENTERLINE AND 18'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "406"

## 5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-00 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	501.82	0	337.96	0	172.32	0	14.79	0		0		0		0		0		0	
1/4	498.43	1/4	334.51	1/4	168.87	1/4	12.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	495.03	1/2	331.06	1/2	165.42	1/2	10.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	491.64	3/4	327.61	3/4	161.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	488.25	1	324.16	1	158.52	1		1		1		1		1		1		1	
1/4	484.85	1/4	320.70	1/4	155.07	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	481.46	1/2	317.25	1/2	151.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	478.06	3/4	313.80	3/4	148.17	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	474.67	2	310.35	2	144.72	2		2		2		2		2		2		2	
1/4	471.27	1/4	306.90	1/4	141.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	467.88	1/2	303.45	1/2	137.82	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	464.49	3/4	300.00	3/4	134.37	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	461.09	3	296.55	3	130.92	3		3		3		3		3		3		3	
1/4	457.70	1/4	293.10	1/4	127.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	454.30	1/2	289.65	1/2	124.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	450.91	3/4	286.20	3/4	120.57	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	447.52	4	282.75	4	117.12	4		4		4		4		4		4		4	
1/4	444.12	1/4	279.30	1/4	113.68	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	440.73	1/2	275.85	1/2	110.23	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	437.33	3/4	272.40	3/4	106.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	433.94	5	268.94	5	103.35	5		5		5		5		5		5		5	
1/4	430.55	1/4	265.49	1/4	99.90	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	427.15	1/2	262.04	1/2	96.46	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	423.76	3/4	258.59	3/4	93.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	420.36	6	255.14	6	89.59	6		6		6		6		6		6		6	
1/4	416.97	1/4	251.69	1/4	86.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	413.57	1/2	248.24	1/2	82.72	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	410.15	3/4	244.79	3/4	79.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	406.72	7	241.34	7	75.87	7		7		7		7		7		7		7	
1/4	403.30	1/4	237.89	1/4	72.44	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	399.87	1/2	234.44	1/2	69.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	396.45	3/4	230.99	3/4	65.60	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	393.02	8	227.54	8	62.19	8		8		8		8		8		8		8	
1/4	389.59	1/4	224.09	1/4	58.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	386.17	1/2	220.63	1/2	55.36	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	382.74	3/4	217.18	3/4	51.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	379.32	9	213.73	9	48.58	9		9		9		9		9		9		9	
1/4	375.89	1/4	210.28	1/4	45.19	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	372.47	1/2	206.83	1/2	41.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	369.01	3/4	203.38	3/4	38.64	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	365.56	10	199.93	10	35.48	10		10		10		10		10		10		10	
1/4	362.11	1/4	196.48	1/4	32.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	358.66	1/2	193.03	1/2	29.17	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	355.21	3/4	189.58	3/4	26.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	351.76	11	186.13	11	23.99	11		11		11		11		11		11		11	
1/4	348.31	1/4	182.68	1/4	21.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	344.86	1/2	179.23	1/2	18.82	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	341.41	3/4	175.78	3/4	16.80	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "406"

## 5 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	1,816.84	0	1,652.13	0	1,486.80	0	1,321.36	0	1,155.92	0	990.49	0	825.05	0	659.61
1/4	1/4	1/4	1/4	1/4	1,813.44	1/4	1,648.69	1/4	1,483.35	1/4	1,317.91	1/4	1,152.48	1/4	987.04	1/4	821.60	1/4	656.17
1/2	1/2	1/2	1/2	1/2	1,810.03	1/2	1,645.26	1/2	1,479.90	1/2	1,314.47	1/2	1,149.03	1/2	983.59	1/2	818.16	1/2	652.72
3/4	3/4	3/4	3/4	3/4	1,806.63	3/4	1,641.82	3/4	1,476.46	3/4	1,311.02	3/4	1,145.58	3/4	980.15	3/4	814.71	3/4	649.27
1		1		1	1,803.23	1	1,638.38	1	1,473.01	1	1,307.57	1	1,142.14	1	976.70	1	811.26	1	645.83
1/4	1/4	1/4	1/4	1/4	1,799.83	1/4	1,634.94	1/4	1,469.57	1/4	1,304.13	1/4	1,138.69	1/4	973.25	1/4	807.82	1/4	642.38
1/2	1/2	1/2	1/2	1/2	1,796.43	1/2	1,631.51	1/2	1,466.12	1/2	1,300.68	1/2	1,135.24	1/2	969.81	1/2	804.37	1/2	638.93
3/4	3/4	3/4	3/4	3/4	1,793.03	3/4	1,628.07	3/4	1,462.67	3/4	1,297.24	3/4	1,131.80	3/4	966.36	3/4	800.92	3/4	635.49
2		2		2	1,789.63	2	1,624.63	2	1,459.23	2	1,293.79	2	1,128.35	2	962.91	2	797.48	2	632.04
1/4	1/4	1/4	1/4	1/4	1,786.19	1/4	1,621.19	1/4	1,455.78	1/4	1,290.34	1/4	1,124.91	1/4	959.47	1/4	794.03	1/4	628.59
1/2	1/2	1/2	1/2	1/2	1,782.76	1/2	1,617.75	1/2	1,452.33	1/2	1,286.90	1/2	1,121.46	1/2	956.02	1/2	790.58	1/2	625.15
3/4	3/4	3/4	3/4	3/4	1,779.32	3/4	1,614.31	3/4	1,448.89	3/4	1,283.45	3/4	1,118.01	3/4	952.58	3/4	787.14	3/4	621.70
3		3		3	1,775.88	3	1,610.88	3	1,445.44	3	1,280.00	3	1,114.57	3	949.13	3	783.69	3	618.25
1/4	1/4	1/4	1/4	1/4	1,772.44	1/4	1,607.43	1/4	1,441.99	1/4	1,276.56	1/4	1,111.12	1/4	945.68	1/4	780.25	1/4	614.81
1/2	1/2	1/2	1/2	1/2	1,769.01	1/2	1,603.98	1/2	1,438.55	1/2	1,273.11	1/2	1,107.67	1/2	942.24	1/2	776.80	1/2	611.36
3/4	3/4	3/4	3/4	3/4	1,765.57	3/4	1,600.54	3/4	1,435.10	3/4	1,269.66	3/4	1,104.23	3/4	938.79	3/4	773.35	3/4	607.91
4		4		4	1,762.13	4	1,597.09	4	1,431.65	4	1,266.22	4	1,100.78	4	935.34	4	769.91	4	604.47
1/4	1/4	1/4	1/4	1/4	1,758.69	1/4	1,593.64	1/4	1,428.21	1/4	1,262.77	1/4	1,097.33	1/4	931.90	1/4	766.46	1/4	601.02
1/2	1/2	1/2	1/2	1/2	1,755.26	1/2	1,590.20	1/2	1,424.76	1/2	1,259.32	1/2	1,093.89	1/2	928.45	1/2	763.01	1/2	597.57
3/4	3/4	3/4	3/4	3/4	1,751.82	3/4	1,586.75	3/4	1,421.31	3/4	1,255.88	3/4	1,090.44	3/4	925.00	3/4	759.57	3/4	594.13
5		5		5	1,748.38	5	1,583.30	5	1,417.87	5	1,252.43	5	1,086.99	5	921.56	5	756.12	5	590.68
1/4	1/4	1/4	1/4	1/4	1,744.94	1/4	1,579.86	1/4	1,414.42	1/4	1,248.98	1/4	1,083.55	1/4	918.11	1/4	752.67	1/4	587.23
1/2	1/2	1/2	1/2	1/2	1,741.51	1/2	1,576.41	1/2	1,410.97	1/2	1,245.54	1/2	1,080.10	1/2	914.66	1/2	749.23	1/2	583.79
3/4	3/4	3/4	3/4	3/4	1,738.07	3/4	1,572.96	3/4	1,407.53	3/4	1,242.09	3/4	1,076.65	3/4	911.22	3/4	745.78	3/4	580.34
6		6		6	1,734.63	6	1,569.52	6	1,404.08	6	1,238.64	6	1,073.21	6	907.77	6	742.33	6	576.89
1/4	1/4	1/4	1/4	1/4	1,731.19	1/4	1,566.07	1/4	1,400.63	1/4	1,235.20	1/4	1,069.76	1/4	904.32	1/4	738.89	1/4	573.45
1/2	1/2	1/2	1,883.16	1/2	1,727.76	1/2	1,562.62	1/2	1,397.19	1/2	1,231.75	1/2	1,066.31	1/2	900.88	1/2	735.44	1/2	570.00
3/4	3/4	3/4	1,881.20	3/4	1,724.32	3/4	1,559.18	3/4	1,393.74	3/4	1,228.30	3/4	1,062.87	3/4	897.43	3/4	731.99	3/4	566.55
7		7		7	1,720.88	7	1,555.73	7	1,390.29	7	1,224.86	7	1,059.42	7	893.98	7	728.55	7	563.11
1/4	1/4	1/4	1,876.78	1/4	1,717.44	1/4	1,552.28	1/4	1,386.85	1/4	1,221.41	1/4	1,055.97	1/4	890.54	1/4	725.10	1/4	559.66
1/2	1/2	1/2	1,874.33	1/2	1,714.01	1/2	1,548.84	1/2	1,383.40	1/2	1,217.96	1/2	1,052.53	1/2	887.09	1/2	721.65	1/2	556.21
3/4	3/4	3/4	1,871.88	3/4	1,710.57	3/4	1,545.39	3/4	1,379.95	3/4	1,214.52	3/4	1,049.08	3/4	883.64	3/4	718.21	3/4	552.77
8		8		8	1,869.43	8	1,707.13	8	1,541.94	8	1,376.51	8	1,211.07	8	880.20	8	714.76	8	549.32
1/4	1/4	1/4	1,866.48	1/4	1,703.69	1/4	1,538.50	1/4	1,373.06	1/4	1,207.62	1/4	1,042.19	1/4	876.75	1/4	711.31	1/4	545.90
1/2	1/2	1/2	1,863.54	1/2	1,700.26	1/2	1,535.05	1/2	1,369.61	1/2	1,204.18	1/2	1,038.74	1/2	873.30	1/2	707.87	1/2	542.49
3/4	3/4	3/4	1,860.59	3/4	1,696.82	3/4	1,531.60	3/4	1,366.17	3/4	1,200.73	3/4	1,035.29	3/4	869.86	3/4	704.42	3/4	539.07
9		9		9	1,857.65	9	1,693.38	9	1,528.16	9	1,362.72	9	1,197.28	9	866.41	9	700.97	9	535.66
1/4	1/4	1/4	1,854.25	1/4	1,689.94	1/4	1,524.71	1/4	1,359.27	1/4	1,193.84	1/4	1,028.40	1/4	862.96	1/4	697.53	1/4	532.24
1/2	1/2	1/2	1,850.84	1/2	1,686.51	1/2	1,521.26	1/2	1,355.83	1/2	1,190.39	1/2	1,024.95	1/2	859.52	1/2	694.08	1/2	528.83
3/4	3/4	3/4	1,847.44	3/4	1,683.07	3/4	1,517.82	3/4	1,352.38	3/4	1,186.94	3/4	1,021.51	3/4	856.07	3/4	690.63	3/4	525.42
10		10		10	1,844.04	10	1,679.63	10	1,514.37	10	1,348.93	10	1,183.50	10	852.62	10	687.19	10	522.00
1/4	1/4	1/4	1,840.64	1/4	1,676.19	1/4	1,510.92	1/4	1,345.49	1/4	1,180.05	1/4	1,014.61	1/4	849.18	1/4	683.74	1/4	518.59
1/2	1/2	1/2	1,837.24	1/2	1,672.76	1/2	1,507.48	1/2	1,342.04	1/2	1,176.60	1/2	1,011.17	1/2	845.73	1/2	680.29	1/2	515.17
3/4	3/4	3/4	1,833.84	3/4	1,669.32	3/4	1,504.03	3/4	1,338.59	3/4	1,173.16	3/4	1,007.72	3/4	842.28	3/4	676.85	3/4	511.76
11		11		11	1,830.44	11	1,665.88	11	1,500.58	11	1,335.15	11	1,169.71	11	838.84	11	673.40	11	508.34
1/4	1/4	1/4	1,827.04	1/4	1,662.44	1/4	1,497.14	1/4	1,331.70	1/4	1,166.26	1/4	1,000.83	1/4	835.39	1/4	669.95	1/4	504.95
1/2	1/2	1/2	1,823.64	1/2	1,659.01	1/2	1,493.69	1/2	1,328.25	1/2	1,162.82	1/2	997.38	1/2	831.94	1/2	666.51	1/2	501.56
3/4	3/4	3/4	1,820.24	3/4	1,655.57	3/4	1,490.24	3/4	1,324.81	3/4	1,159.37	3/4	993.93	3/4	828.50	3/4	663.06	3/4	498.16

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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# BARGE "406"

## 5 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 12'-11 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	494.77	0	330.88	0	165.34	0		0		0		0		0		0		0	
1/4	491.38	1/4	327.43	1/4	161.89	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	487.99	1/2	323.99	1/2	158.44	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	484.60	3/4	320.54	3/4	154.99	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	481.20	1	317.09	1	151.54	1		1		1		1		1		1		1	
1/4	477.81	1/4	313.64	1/4	148.09	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	474.42	1/2	310.19	1/2	144.64	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	471.03	3/4	306.74	3/4	141.19	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	467.63	2	303.29	2	137.74	2		2		2		2		2		2		2	
1/4	464.24	1/4	299.84	1/4	134.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	460.85	1/2	296.39	1/2	130.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	457.46	3/4	292.95	3/4	127.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	454.06	3	289.50	3	123.95	3		3		3		3		3		3		3	
1/4	450.67	1/4	286.05	1/4	120.51	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	447.28	1/2	282.60	1/2	117.06	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	443.89	3/4	279.15	3/4	113.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	440.50	4	275.70	4	110.17	4		4		4		4		4		4		4	
1/4	437.10	1/4	272.25	1/4	106.73	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	433.71	1/2	268.80	1/2	103.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.32	3/4	265.35	3/4	99.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	426.93	5	261.91	5	96.41	5		5		5		5		5		5		5	
1/4	423.53	1/4	258.46	1/4	92.98	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.14	1/2	255.01	1/2	89.54	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	416.75	3/4	251.56	3/4	86.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	413.36	6	248.11	6	82.68	6		6		6		6		6		6		6	
1/4	409.93	1/4	244.66	1/4	79.25	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	406.51	1/2	241.21	1/2	75.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.09	3/4	237.76	3/4	72.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	399.66	7	234.31	7	68.98	7		7		7		7		7		7		7	
1/4	396.24	1/4	230.87	1/4	65.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	392.81	1/2	227.42	1/2	62.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.39	3/4	223.97	3/4	58.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	385.97	8	220.52	8	55.33	8		8		8		8		8		8		8	
1/4	382.54	1/4	217.07	1/4	51.94	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	379.12	1/2	213.62	1/2	48.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375.69	3/4	210.17	3/4	45.17	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	372.27	9	206.72	9	41.78	9		9		9		9		9		9		9	
1/4	368.82	1/4	203.27	1/4	38.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.37	1/2	199.83	1/2	35.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	361.92	3/4	196.38	3/4	32.31	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	358.47	10	192.93	10	29.15	10		10		10		10		10		10		10	
1/4	355.03	1/4	189.48	1/4	26.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.58	1/2	186.03	1/2	23.98	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	348.13	3/4	182.58	3/4	21.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	344.68	11	179.13	11	18.81	11		11		11		11		11		11		11	
1/4	341.23	1/4	175.68	1/4	16.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	337.78	1/2	172.23	1/2	14.78	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334.33	3/4	168.78	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: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
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# BARGE "406"

# 6 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	1,860.62	0	1,697.92	0	1,532.35	0	1,366.35	0	1,200.43	0	1,034.33	0	868.62	0	704.20
1/4	1/4	1/4	1/4	1/4	1,857.68	1/4	1,694.48	1/4	1,528.89	1/4	1,362.90	1/4	1,196.97	1/4	1,030.87	1/4	865.20	1/4	700.75
1/2	1/2	1/2	1/2	1/2	1,854.73	1/2	1,691.04	1/2	1,525.43	1/2	1,359.44	1/2	1,193.50	1/2	1,027.41	1/2	861.79	1/2	697.29
3/4	3/4	3/4	3/4	3/4	1,851.36	3/4	1,687.60	3/4	1,521.97	3/4	1,355.99	3/4	1,190.04	3/4	1,023.95	3/4	858.38	3/4	693.83
1		1		1	1,848.00	1	1,684.16	1	1,518.51	1	1,352.54	1	1,186.58	1	1,020.48	1	854.96	1	690.38
1/4	1/4	1/4	1/4	1/4	1,844.63	1/4	1,680.72	1/4	1,515.05	1/4	1,349.08	1/4	1,183.12	1/4	1,017.02	1/4	851.55	1/4	686.92
1/2	1/2	1/2	1/2	1/2	1,841.26	1/2	1,677.28	1/2	1,511.59	1/2	1,345.63	1/2	1,179.66	1/2	1,013.56	1/2	848.13	1/2	683.46
3/4	3/4	3/4	3/4	3/4	1,837.89	3/4	1,673.84	3/4	1,508.13	3/4	1,342.17	3/4	1,176.20	3/4	1,010.10	3/4	844.72	3/4	680.00
2		2		2	1,834.53	2	1,670.40	2	1,504.68	2	1,338.72	2	1,172.74	2	1,006.64	2	841.30	2	676.55
1/4	1/4	1/4	1/4	1/4	1,831.16	1/4	1,666.95	1/4	1,501.22	1/4	1,335.27	1/4	1,169.28	1/4	1,003.18	1/4	837.89	1/4	673.09
1/2	1/2	1/2	1/2	1/2	1,827.79	1/2	1,663.51	1/2	1,497.76	1/2	1,331.81	1/2	1,165.82	1/2	999.72	1/2	834.47	1/2	669.63
3/4	3/4	3/4	3/4	3/4	1,824.42	3/4	1,660.07	3/4	1,494.30	3/4	1,328.36	3/4	1,162.36	3/4	996.26	3/4	831.06	3/4	666.18
3		3		3	1,821.06	3	1,656.63	3	1,490.84	3	1,324.91	3	1,158.90	3	992.80	3	827.64	3	662.72
1/4	1/4	1/4	1/4	1/4	1,817.69	1/4	1,653.19	1/4	1,487.38	1/4	1,321.45	1/4	1,155.44	1/4	989.34	1/4	824.23	1/4	659.26
1/2	1/2	1/2	1/2	1/2	1,814.32	1/2	1,649.75	1/2	1,483.92	1/2	1,318.00	1/2	1,151.98	1/2	985.88	1/2	820.81	1/2	655.81
3/4	3/4	3/4	3/4	3/4	1,810.95	3/4	1,646.31	3/4	1,480.46	3/4	1,314.55	3/4	1,148.52	3/4	982.42	3/4	817.40	3/4	652.35
4		4		4	1,807.59	4	1,642.87	4	1,477.00	4	1,311.09	4	1,145.06	4	978.96	4	813.99	4	648.89
1/4	1/4	1/4	1/4	1/4	1,804.22	1/4	1,639.43	1/4	1,473.55	1/4	1,307.64	1/4	1,141.60	1/4	975.50	1/4	810.57	1/4	645.43
1/2	1/2	1/2	1/2	1/2	1,800.85	1/2	1,635.99	1/2	1,470.09	1/2	1,304.18	1/2	1,138.14	1/2	972.04	1/2	807.16	1/2	641.98
3/4	3/4	3/4	3/4	3/4	1,797.49	3/4	1,632.55	3/4	1,466.63	3/4	1,300.73	3/4	1,134.68	3/4	968.58	3/4	803.74	3/4	638.52
5		5		5	1,794.12	5	1,629.11	5	1,463.17	5	1,297.28	5	1,131.22	5	965.12	5	800.33	5	635.06
1/4	1/4	1/4	1/4	1/4	1,790.75	1/4	1,625.67	1/4	1,459.71	1/4	1,293.82	1/4	1,127.76	1/4	961.66	1/4	796.91	1/4	631.61
1/2	1/2	1/2	1/2	1/2	1,787.38	1/2	1,622.22	1/2	1,456.25	1/2	1,290.37	1/2	1,124.30	1/2	958.20	1/2	793.50	1/2	628.15
3/4	3/4	3/4	3/4	3/4	1,783.94	3/4	1,618.78	3/4	1,452.79	3/4	1,286.92	3/4	1,120.84	3/4	954.74	3/4	790.08	3/4	624.69
6		6		6	1,780.50	6	1,615.33	6	1,449.33	6	1,283.46	6	1,117.38	6	951.28	6	786.67	6	621.23
1/4	1/4	1/4	1/4	1/4	1,777.06	1/4	1,611.89	1/4	1,445.87	1/4	1,280.01	1/4	1,113.92	1/4	947.82	1/4	783.25	1/4	617.78
1/2	1/2	1/2	1/2	1/2	1,773.62	1/2	1,608.44	1/2	1,442.42	1/2	1,276.55	1/2	1,110.46	1/2	944.36	1/2	779.84	1/2	614.32
3/4	3/4	3/4	3/4	3/4	1,770.18	3/4	1,604.98	3/4	1,438.96	3/4	1,273.09	3/4	1,106.99	3/4	940.90	3/4	776.42	3/4	610.86
7		7		7	1,766.74	7	1,601.52	7	1,435.50	7	1,269.63	7	1,103.53	7	937.44	7	773.01	7	607.40
1/4	1/4	1/4	1/4	1/4	1,763.30	1/4	1,598.07	1/4	1,432.04	1/4	1,266.17	1/4	1,100.07	1/4	933.97	1/4	769.60	1/4	603.95
1/2	1/2	1/2	1/2	1/2	1,893.79	1/2	1,759.86	1/2	1,594.61	1/2	1,428.58	1/2	1,262.71	1/2	1,096.61	1/2	930.51	1/2	766.18
3/4	3/4	3/4	3/4	3/4	1,892.83	3/4	1,756.42	3/4	1,591.15	3/4	1,425.12	3/4	1,259.25	3/4	1,093.15	3/4	927.05	3/4	762.77
8		8		8	1,891.87	8	1,752.97	8	1,587.69	8	1,421.66	8	1,255.79	8	1,089.69	8	923.59	8	759.35
1/4	1/4	1/4	1/4	1/4	1,890.91	1/4	1,749.53	1/4	1,584.23	1/4	1,418.20	1/4	1,252.33	1/4	1,086.23	1/4	920.13	1/4	755.94
1/2	1/2	1/2	1/2	1/2	1,889.95	1/2	1,746.09	1/2	1,580.77	1/2	1,414.74	1/2	1,248.87	1/2	1,082.77	1/2	916.67	1/2	752.52
3/4	3/4	3/4	3/4	3/4	1,888.49	3/4	1,742.65	3/4	1,577.31	3/4	1,411.29	3/4	1,245.41	3/4	1,079.31	3/4	913.24	3/4	749.09
9		9		9	1,887.03	9	1,739.21	9	1,573.85	9	1,407.83	9	1,241.95	9	1,075.85	9	909.80	9	745.65
1/4	1/4	1/4	1/4	1/4	1,885.58	1/4	1,735.77	1/4	1,570.39	1/4	1,404.37	1/4	1,238.49	1/4	1,072.39	1/4	906.37	1/4	742.21
1/2	1/2	1/2	1/2	1/2	1,884.12	1/2	1,732.33	1/2	1,566.94	1/2	1,400.91	1/2	1,235.03	1/2	1,068.93	1/2	902.93	1/2	738.78
3/4	3/4	3/4	3/4	3/4	1,882.17	3/4	1,728.89	3/4	1,563.48	3/4	1,397.45	3/4	1,231.57	3/4	1,065.47	3/4	899.50	3/4	735.32
10		10		10	1,880.21	10	1,725.45	10	1,560.02	10	1,393.99	10	1,228.11	10	1,062.01	10	896.06	10	731.86
1/4	1/4	1/4	1/4	1/4	1,878.26	1/4	1,722.01	1/4	1,556.56	1/4	1,390.53	1/4	1,224.65	1/4	1,058.55	1/4	892.63	1/4	728.40
1/2	1/2	1/2	1/2	1/2	1,876.31	1/2	1,718.57	1/2	1,553.10	1/2	1,387.07	1/2	1,221.19	1/2	1,055.09	1/2	889.19	1/2	724.95
3/4	3/4	3/4	3/4	3/4	1,873.86	3/4	1,715.13	3/4	1,549.64	3/4	1,383.62	3/4	1,217.73	3/4	1,051.63	3/4	885.75	3/4	721.49
11		11		11	1,871.41	11	1,711.69	11	1,546.18	11	1,380.17	11	1,214.27	11	1,048.17	11	882.32	11	718.03
1/4	1/4	1/4	1/4	1/4	1,868.96	1/4	1,708.24	1/4	1,542.72	1/4	1,376.71	1/4	1,210.81	1/4	1,044.71	1/4	878.88	1/4	714.58
1/2	1/2	1/2	1/2	1/2	1,866.51	1/2	1,704.80	1/2	1,539.26	1/2	1,373.26	1/2	1,207.35	1/2	1,041.25	1/2	875.45	1/2	711.12
3/4	3/4	3/4	3/4	3/4	1,863.57	3/4	1,701.36	3/4	1,535.81	3/4	1,369.80	3/4	1,203.89	3/4	1,037.79	3/4	872.03	3/4	707.66

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 2'-9" OFF CENTERLINE AND 32'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "406"

## 6 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-05 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	539.05	0	380.48	0	214.59	0	48.88	0		0		0		0		0		0	
1/4	535.76	1/4	377.13	1/4	211.13	1/4	45.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	532.46	1/2	373.78	1/2	207.67	1/2	42.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	529.17	3/4	370.32	3/4	204.21	3/4	38.88	3/4		3/4		3/4		3/4		3/4		3/4	
1	525.87	1	366.86	1	200.74	1	35.70	1		1		1		1		1		1	
1/4	522.58	1/4	363.40	1/4	197.28	1/4	32.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	519.28	1/2	359.94	1/2	193.82	1/2	29.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	515.99	3/4	356.48	3/4	190.36	3/4	26.74	3/4		3/4		3/4		3/4		3/4		3/4	
2	512.69	2	353.02	2	186.90	2	24.14	2		2		2		2		2		2	
1/4	509.40	1/4	349.56	1/4	183.44	1/4	21.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	506.10	1/2	346.10	1/2	179.98	1/2	18.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	502.81	3/4	342.64	3/4	176.52	3/4	16.91	3/4		3/4		3/4		3/4		3/4		3/4	
3	499.51	3	339.18	3	173.06	3	14.88	3		3		3		3		3		3	
1/4	496.22	1/4	335.72	1/4	169.60	1/4	12.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	492.92	1/2	332.25	1/2	166.14	1/2	10.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	489.63	3/4	328.79	3/4	162.68	3/4	9.38	3/4		3/4		3/4		3/4		3/4		3/4	
4	486.33	4	325.33	4	159.21	4	7.93	4		4		4		4		4		4	
1/4	483.04	1/4	321.87	1/4	155.75	1/4	6.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	479.74	1/2	318.41	1/2	152.29	1/2	5.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	476.45	3/4	314.95	3/4	148.83	3/4	4.17	3/4		3/4		3/4		3/4		3/4		3/4	
5	473.15	5	311.49	5	145.37	5	3.30	5		5		5		5		5		5	
1/4	469.86	1/4	308.03	1/4	141.91	1/4	2.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	466.56	1/2	304.57	1/2	138.45	1/2	1.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	463.27	3/4	301.11	3/4	134.99	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	459.97	6	297.65	6	131.53	6		6		6		6		6		6		6	
1/4	456.68	1/4	294.19	1/4	128.07	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	453.38	1/2	290.73	1/2	124.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	450.09	3/4	287.26	3/4	121.15	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	446.79	7	283.80	7	117.70	7		7		7		7		7		7		7	
1/4	443.50	1/4	280.34	1/4	114.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	440.20	1/2	276.88	1/2	110.78	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	436.90	3/4	273.42	3/4	107.33	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	433.61	8	269.96	8	103.88	8		8		8		8		8		8		8	
1/4	430.31	1/4	266.50	1/4	100.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	427.02	1/2	263.04	1/2	96.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	423.72	3/4	259.58	3/4	93.53	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	420.43	9	256.12	9	90.08	9		9		9		9		9		9		9	
1/4	417.13	1/4	252.66	1/4	86.64	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	413.84	1/2	249.20	1/2	83.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	410.51	3/4	245.73	3/4	79.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	407.19	10	242.27	10	76.32	10		10		10		10		10		10		10	
1/4	403.86	1/4	238.81	1/4	72.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	400.53	1/2	235.35	1/2	69.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	397.19	3/4	231.89	3/4	66.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	393.86	11	228.43	11	62.58	11		11		11		11		11		11		11	
1/4	390.52	1/4	224.97	1/4	59.14	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	387.18	1/2	221.51	1/2	55.71	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	383.83	3/4	218.05	3/4	52.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

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





# BARGE "406"

## 6 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0	1,866.99	0	1,703.23	0	1,537.04	0	1,370.61	0	1,204.18	0	1,037.76	0	871.33	0	706.81		
1/4	1/4	1/4	1/4	1/4	1,864.03	1/4	1,699.77	1/4	1,533.57	1/4	1,367.14	1/4	1,200.72	1/4	1,034.29	1/4	867.87	1/4	703.34		
1/2	1/2	1/2	1/2	1/2	1,861.07	1/2	1,696.31	1/2	1,530.10	1/2	1,363.68	1/2	1,197.25	1/2	1,030.82	1/2	864.40	1/2	699.87		
3/4	3/4	3/4	3/4	3/4	1,858.11	3/4	1,692.85	3/4	1,526.63	3/4	1,356.21	3/4	1,193.78	3/4	1,027.36	3/4	860.93	3/4	696.40		
1		1		1	1,854.69	1	1,689.39	1	1,523.17	1	1,356.74	1	1,190.32	1	1,023.89	1	857.46	1	692.93		
1/4	1/4	1/4	1/4	1/4	1,851.26	1/4	1,685.94	1/4	1,519.70	1/4	1,353.27	1/4	1,186.85	1/4	1,020.42	1/4	854.00	1/4	689.47		
1/2	1/2	1/2	1/2	1/2	1,847.84	1/2	1,682.48	1/2	1,516.23	1/2	1,349.81	1/2	1,183.38	1/2	1,016.96	1/2	850.53	1/2	686.00		
3/4	3/4	3/4	3/4	3/4	1,844.42	3/4	1,679.02	3/4	1,512.76	3/4	1,346.34	3/4	1,179.91	3/4	1,013.49	3/4	847.06	3/4	682.53		
2		2		2	1,841.00	2	1,675.56	2	1,509.30	2	1,342.87	2	1,176.45	2	1,010.02	2	843.64	2	679.06		
1/4	1/4	1/4	1/4	1/4	1,837.58	1/4	1,672.10	1/4	1,505.83	1/4	1,339.40	1/4	1,172.98	1/4	1,006.55	1/4	840.22	1/4	675.59		
1/2	1/2	1/2	1/2	1/2	1,834.16	1/2	1,668.65	1/2	1,502.36	1/2	1,335.94	1/2	1,169.51	1/2	1,003.09	1/2	836.80	1/2	672.12		
3/4	3/4	3/4	3/4	3/4	1,830.74	3/4	1,665.19	3/4	1,498.90	3/4	1,332.47	3/4	1,166.04	3/4	999.62	3/4	833.38	3/4	668.65		
3		3		3	1,827.32	3	1,661.73	3	1,495.43	3	1,329.00	3	1,162.58	3	996.15	3	829.96	3	665.18		
1/4	1/4	1/4	1/4	1/4	1,823.89	1/4	1,658.27	1/4	1,491.96	1/4	1,325.54	1/4	1,159.11	1/4	992.68	1/4	826.55	1/4	661.71		
1/2	1/2	1/2	1/2	1/2	1,820.47	1/2	1,654.81	1/2	1,488.49	1/2	1,322.07	1/2	1,155.64	1/2	989.22	1/2	823.13	1/2	658.24		
3/4	3/4	3/4	3/4	3/4	1,817.05	3/4	1,651.36	3/4	1,485.03	3/4	1,318.60	3/4	1,152.18	3/4	985.75	3/4	819.71	3/4	654.77		
4		4		4	1,813.63	4	1,647.90	4	1,481.56	4	1,315.13	4	1,148.71	4	982.28	4	816.29	4	651.30		
1/4	1/4	1/4	1/4	1/4	1,810.21	1/4	1,644.44	1/4	1,478.09	1/4	1,311.67	1/4	1,145.24	1/4	978.82	1/4	812.87	1/4	647.83		
1/2	1/2	1/2	1/2	1/2	1,806.79	1/2	1,640.98	1/2	1,474.63	1/2	1,308.20	1/2	1,141.77	1/2	975.35	1/2	809.45	1/2	644.36		
3/4	3/4	3/4	3/4	3/4	1,803.37	3/4	1,637.52	3/4	1,471.16	3/4	1,304.73	3/4	1,138.31	3/4	971.88	3/4	806.03	3/4	640.89		
5		5		5	1,799.94	5	1,634.07	5	1,467.69	5	1,301.27	5	1,134.84	5	968.41	5	802.61	5	637.42		
1/4	1/4	1/4	1/4	1/4	1,796.52	1/4	1,630.61	1/4	1,464.22	1/4	1,297.80	1/4	1,131.37	1/4	964.95	1/4	799.19	1/4	633.95		
1/2	1/2	1/2	1/2	1/2	1,793.10	1/2	1,627.15	1/2	1,460.76	1/2	1,294.33	1/2	1,127.91	1/2	961.48	1/2	795.77	1/2	630.48		
3/4	3/4	3/4	3/4	3/4	1,789.68	3/4	1,623.69	3/4	1,457.29	3/4	1,290.86	3/4	1,124.44	3/4	958.01	3/4	792.35	3/4	627.01		
6		6		6	1,786.22	6	1,620.23	6	1,453.82	6	1,287.40	6	1,120.97	6	954.55	6	788.93	6	623.54		
1/4	1/4	1/4	1/4	1/4	1,782.76	1/4	1,616.77	1/4	1,450.36	1/4	1,283.93	1/4	1,117.50	1/4	951.08	1/4	785.51	1/4	620.08		
1/2	1/2	1/2	1/2	1/2	1,779.31	1/2	1,613.31	1/2	1,446.89	1/2	1,280.46	1/2	1,114.04	1/2	947.61	1/2	782.09	1/2	616.61		
3/4	3/4	3/4	3/4	3/4	1,775.85	3/4	1,609.85	3/4	1,443.42	3/4	1,277.00	3/4	1,110.57	3/4	944.14	3/4	778.67	3/4	613.14		
7		7		7	1,772.39	7	1,606.38	7	1,439.95	7	1,273.53	7	1,107.10	7	940.68	7	775.25	7	609.67		
1/4	1/4	1/4	1/4	1/4	1,768.93	1/4	1,602.91	1/4	1,436.49	1/4	1,270.06	1/4	1,103.64	1/4	937.21	1/4	771.83	1/4	606.20		
1/2	1/2	1/2	1/2	1/2	1,765.47	1/2	1,599.44	1/2	1,433.02	1/2	1,266.59	1/2	1,100.17	1/2	933.74	1/2	768.41	1/2	602.73		
3/4	3/4	3/4	3/4	3/4	1,897.48	3/4	1,762.01	3/4	1,595.98	3/4	1,429.55	3/4	1,263.13	3/4	1,096.70	3/4	930.28	3/4	599.26		
8		8		8	1,896.51	8	1,758.56	8	1,592.51	8	1,426.08	8	1,259.66	8	1,093.23	8	926.81	8	761.57	8	595.79
1/4	1/4	1/4	1/4	1/4	1,895.53	1/4	1,755.10	1/4	1,589.04	1/4	1,422.62	1/4	1,256.19	1/4	1,089.77	1/4	923.34	1/4	758.16	1/4	592.32
1/2	1/2	1/2	1/2	1/2	1,894.56	1/2	1,751.64	1/2	1,585.58	1/2	1,419.15	1/2	1,252.72	1/2	1,086.30	1/2	919.87	1/2	754.74	1/2	588.85
3/4	3/4	3/4	3/4	3/4	1,893.58	3/4	1,748.18	3/4	1,582.11	3/4	1,415.68	3/4	1,249.26	3/4	1,082.83	3/4	916.41	3/4	751.32	3/4	585.38
9		9		9	1,892.11	9	1,744.72	9	1,578.64	9	1,412.22	9	1,245.79	9	1,079.36	9	912.94	9	747.90	9	581.91
1/4	1/4	1/4	1/4	1/4	1,890.64	1/4	1,741.27	1/4	1,575.17	1/4	1,408.75	1/4	1,242.32	1/4	1,075.90	1/4	909.47	1/4	744.48	1/4	578.44
1/2	1/2	1/2	1/2	1/2	1,889.16	1/2	1,737.81	1/2	1,571.71	1/2	1,405.28	1/2	1,238.86	1/2	1,072.43	1/2	906.00	1/2	741.06	1/2	574.97
3/4	3/4	3/4	3/4	3/4	1,887.69	3/4	1,734.35	3/4	1,568.24	3/4	1,401.81	3/4	1,235.39	3/4	1,068.96	3/4	902.54	3/4	737.64	3/4	571.50
10		10		10	1,885.72	10	1,730.89	10	1,564.77	10	1,398.35	10	1,231.92	10	1,065.50	10	899.07	10	734.22	10	568.03
1/4	1/4	1/4	1/4	1/4	1,883.75	1/4	1,727.43	1/4	1,561.31	1/4	1,394.88	1/4	1,228.45	1/4	1,062.03	1/4	895.60	1/4	730.80	1/4	564.56
1/2	1/2	1/2	1/2	1/2	1,881.78	1/2	1,723.98	1/2	1,557.84	1/2	1,391.41	1/2	1,224.99	1/2	1,058.56	1/2	892.14	1/2	727.38	1/2	561.09
3/4	3/4	3/4	3/4	3/4	1,879.82	3/4	1,720.52	3/4	1,554.37	3/4	1,387.95	3/4	1,221.52	3/4	1,055.09	3/4	888.67	3/4	723.96	3/4	557.62
11		11		11	1,877.35	11	1,717.06	11	1,550.90	11	1,384.48	11	1,218.05	11	1,051.63	11	885.20	11	720.54	11	554.27
1/4	1/4	1/4	1/4	1/4	1,874.88	1/4	1,713.60	1/4	1,547.44	1/4	1,381.01	1/4	1,214.59	1/4	1,048.16	1/4	881.73	1/4	717.12	1/4	550.93
1/2	1/2	1/2	1/2	1/2	1,872.42	1/2	1,710.14	1/2	1,543.97	1/2	1,377.54	1/2	1,211.12	1/2	1,044.69	1/2	878.27	1/2	713.70	1/2	547.58
3/4	3/4	3/4	3/4	3/4	1,869.95	3/4	1,706.69	3/4	1,540.50	3/4	1,374.08	3/4	1,207.65	3/4	1,041.23	3/4	874.80	3/4	710.28	3/4	544.23

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 AT "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 2'-9" OFF CENTERLINE AND 32'-03" FORWARD OF AFT BULKHEAD.

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





# BARGE "406"

## 6 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	540.93	0	384.58	0	218.72	0	52.34	0		0		0		0		0		0	
1/4	537.63	1/4	381.29	1/4	215.24	1/4	48.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	534.32	1/2	378.00	1/2	211.77	1/2	45.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	531.02	3/4	374.71	3/4	208.29	3/4	42.09	3/4		3/4		3/4		3/4		3/4		3/4	
1	527.71	1	371.29	1	204.82	1	38.91	1		1		1		1		1		1	
1/4	524.41	1/4	367.86	1/4	201.34	1/4	35.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	521.11	1/2	364.43	1/2	197.87	1/2	32.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	517.80	3/4	361.01	3/4	194.39	3/4	29.37	3/4		3/4		3/4		3/4		3/4		3/4	
2	514.50	2	357.58	2	190.92	2	26.77	2		2		2		2		2		2	
1/4	511.20	1/4	354.15	1/4	187.44	1/4	24.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	507.89	1/2	350.73	1/2	183.97	1/2	21.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	504.59	3/4	347.30	3/4	180.49	3/4	18.95	3/4		3/4		3/4		3/4		3/4		3/4	
3	501.36	3	343.82	3	177.02	3	16.92	3		3		3		3		3		3	
1/4	498.12	1/4	340.35	1/4	173.54	1/4	14.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	494.89	1/2	336.87	1/2	170.07	1/2	12.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	491.65	3/4	333.40	3/4	166.59	3/4	10.84	3/4		3/4		3/4		3/4		3/4		3/4	
4	488.42	4	329.92	4	163.12	4	9.39	4		4		4		4		4		4	
1/4	485.19	1/4	326.45	1/4	159.64	1/4	7.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	481.95	1/2	322.97	1/2	156.17	1/2	6.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	478.72	3/4	319.50	3/4	152.69	3/4	5.04	3/4		3/4		3/4		3/4		3/4		3/4	
5	475.48	5	316.02	5	149.22	5	4.18	5		5		5		5		5		5	
1/4	472.25	1/4	312.55	1/4	145.74	1/4	3.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	469.02	1/2	309.07	1/2	142.27	1/2	2.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	465.78	3/4	305.60	3/4	138.79	3/4	1.57	3/4		3/4		3/4		3/4		3/4		3/4	
6	462.55	6	302.12	6	135.32	6		6		6		6		6		6		6	
1/4	459.31	1/4	298.65	1/4	131.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	456.08	1/2	295.17	1/2	128.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	452.85	3/4	291.70	3/4	124.89	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	449.61	7	288.22	7	121.42	7		7		7		7		7		7		7	
1/4	446.38	1/4	284.75	1/4	117.95	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	443.14	1/2	281.27	1/2	114.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	439.91	3/4	277.80	3/4	111.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	436.68	8	274.32	8	107.54	8		8		8		8		8		8		8	
1/4	433.44	1/4	270.85	1/4	104.07	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430.21	1/2	267.37	1/2	100.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	426.97	3/4	263.90	3/4	97.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	423.74	9	260.42	9	93.68	9		9		9		9		9		9		9	
1/4	420.51	1/4	256.95	1/4	90.22	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	417.27	1/2	253.47	1/2	86.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	414.04	3/4	249.99	3/4	83.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	410.77	10	246.52	10	79.85	10		10		10		10		10		10		10	
1/4	407.51	1/4	243.04	1/4	76.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	404.24	1/2	239.57	1/2	72.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	400.97	3/4	236.09	3/4	69.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	397.70	11	232.62	11	66.06	11		11		11		11		11		11		11	
1/4	394.42	1/4	229.14	1/4	62.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	391.14	1/2	225.67	1/2	59.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	387.87	3/4	222.19	3/4	55.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/23/2007 CL - SW  
CALCULATED: 10/24/2007 CL  
PRINTED: 10/24/2007 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2007

PRECISION MEASUREMENT  
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