



BARGE "CTCO 252"

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	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 252'-09"

May 17, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 252"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,234.27	0	1,902.20	0	1,570.13	0	1,238.06	0	906.22	0	574.41	0	242.38	0		0		0	
1/4	2,227.35	1/4	1,895.28	1/4	1,563.21	1/4	1,231.14	1/4	899.31	1/4	567.49	1/4	235.46	1/4	1/4		1/4		1/4
1/2	2,220.43	1/2	1,888.36	1/2	1,556.29	1/2	1,224.22	1/2	892.41	1/2	560.57	1/2	228.55	1/2	1/2		1/2		1/2
3/4	2,213.51	3/4	1,881.44	3/4	1,549.37	3/4	1,217.31	3/4	885.50	3/4	553.66	3/4	221.63	3/4	3/4		3/4		3/4
1	2,206.59	1	1,874.52	1	1,542.46	1	1,210.39	1	878.59	1	546.74	1	214.71	1	1		1		1
1/4	2,199.68	1/4	1,867.61	1/4	1,535.54	1/4	1,203.47	1/4	871.69	1/4	539.82	1/4	207.79	1/4	1/4		1/4		1/4
1/2	2,192.76	1/2	1,860.69	1/2	1,528.62	1/2	1,196.55	1/2	864.78	1/2	532.90	1/2	200.88	1/2	1/2		1/2		1/2
3/4	2,185.84	3/4	1,853.77	3/4	1,521.70	3/4	1,189.63	3/4	857.88	3/4	525.98	3/4	193.96	3/4	3/4		3/4		3/4
2	2,178.92	2	1,846.85	2	1,514.78	2	1,182.71	2	850.97	2	519.07	2	187.04	2	2		2		2
1/4	2,172.00	1/4	1,839.93	1/4	1,507.87	1/4	1,175.80	1/4	844.06	1/4	512.15	1/4	180.12	1/4	1/4		1/4		1/4
1/2	2,165.08	1/2	1,833.02	1/2	1,500.95	1/2	1,168.88	1/2	837.16	1/2	505.23	1/2	173.20	1/2	1/2		1/2		1/2
3/4	2,158.17	3/4	1,826.10	3/4	1,494.03	3/4	1,161.96	3/4	830.25	3/4	498.31	3/4	166.29	3/4	3/4		3/4		3/4
3	2,151.25	3	1,819.18	3	1,487.11	3	1,155.04	3	823.34	3	491.40	3	159.37	3	3		3		3
1/4	2,144.33	1/4	1,812.26	1/4	1,480.19	1/4	1,148.12	1/4	816.44	1/4	484.48	1/4	152.45	1/4	1/4		1/4		1/4
1/2	2,137.41	1/2	1,805.34	1/2	1,473.27	1/2	1,141.21	1/2	809.53	1/2	477.56	1/2	145.53	1/2	1/2		1/2		1/2
3/4	2,130.49	3/4	1,798.43	3/4	1,466.36	3/4	1,134.29	3/4	802.63	3/4	470.64	3/4	138.62	3/4	3/4		3/4		3/4
4	2,123.58	4	1,791.51	4	1,459.44	4	1,127.37	4	795.72	4	463.72	4	131.71	4	4		4		4
1/4	2,116.66	1/4	1,784.59	1/4	1,452.52	1/4	1,120.45	1/4	788.81	1/4	456.81	1/4	124.79	1/4	1/4		1/4		1/4
1/2	2,109.74	1/2	1,777.67	1/2	1,445.60	1/2	1,113.53	1/2	781.91	1/2	449.89	1/2	117.88	1/2	1/2		1/2		1/2
3/4	2,102.82	3/4	1,770.75	3/4	1,438.68	3/4	1,106.62	3/4	775.00	3/4	442.97	3/4	110.98	3/4	3/4		3/4		3/4
5	2,095.90	5	1,763.84	5	1,431.77	5	1,099.70	5	768.09	5	436.05	5	104.08	5	5		5		5
1/4	2,088.99	1/4	1,756.92	1/4	1,424.85	1/4	1,092.78	1/4	761.18	1/4	429.13	1/4	97.17	1/4	1/4		1/4		1/4
1/2	2,082.07	1/2	1,750.00	1/2	1,417.93	1/2	1,085.86	1/2	754.27	1/2	422.22	1/2	90.27	1/2	1/2		1/2		1/2
3/4	2,075.15	3/4	1,743.08	3/4	1,411.01	3/4	1,078.94	3/4	747.35	3/4	415.30	3/4	83.36	3/4	3/4		3/4		3/4
6	2,068.23	6	1,736.16	6	1,404.09	6	1,072.02	6	740.44	6	408.38	6	76.84	6	6		6		6
1/4	2,061.31	1/4	1,729.24	1/4	1,397.18	1/4	1,065.11	1/4	733.52	1/4	401.46	1/4	70.12	1/4	1/4		1/4		1/4
1/2	2,054.40	1/2	1,722.33	1/2	1,390.26	1/2	1,058.19	1/2	726.60	1/2	394.55	1/2	63.40	1/2	1/2		1/2		1/2
3/4	2,047.48	3/4	1,715.41	3/4	1,383.34	3/4	1,051.27	3/4	719.68	3/4	387.63	3/4	57.53	3/4	3/4		3/4		3/4
7	2,040.56	7	1,708.49	7	1,376.42	7	1,044.36	7	712.76	7	380.71	7	51.65	7	7		7		7
1/4	2,033.64	1/4	1,701.57	1/4	1,369.50	1/4	1,037.44	1/4	705.85	1/4	373.80	1/4	45.77	1/4	1/4		1/4		1/4
1/2	2,026.72	1/2	1,694.65	1/2	1,362.59	1/2	1,030.53	1/2	698.93	1/2	366.88	1/2	39.89	1/2	1/2		1/2		1/2
3/4	2,019.80	3/4	1,687.74	3/4	1,355.67	3/4	1,023.62	3/4	692.01	3/4	359.96	3/4	33.99	3/4	3/4		3/4		3/4
8	2,012.89	8	1,680.82	8	1,348.75	8	1,016.72	8	685.09	8	353.05	8	30.90	8	8		8		8
1/4	2,005.97	1/4	1,673.90	1/4	1,341.83	1/4	1,009.81	1/4	678.18	1/4	346.14	1/4	26.40	1/4	1/4		1/4		1/4
1/2	1,999.05	1/2	1,666.98	1/2	1,334.91	1/2	1,002.90	1/2	671.26	1/2	339.22	1/2	21.90	1/2	1/2		1/2		1/2
3/4	1,992.13	3/4	1,660.06	3/4	1,327.99	3/4	996.00	3/4	664.34	3/4	332.31	3/4		3/4	3/4		3/4		3/4
9	1,985.21	9	1,653.15	9	1,321.08	9	989.09	9	657.42	9	325.39	9		9	9		9		9
1/4	1,978.30	1/4	1,646.23	1/4	1,314.16	1/4	982.18	1/4	650.50	1/4	318.48	1/4		1/4	1/4		1/4		1/4
1/2	1,971.38	1/2	1,639.31	1/2	1,307.24	1/2	975.28	1/2	643.59	1/2	311.56	1/2		1/2	1/2		1/2		1/2
3/4	1,964.46	3/4	1,632.39	3/4	1,300.32	3/4	968.37	3/4	636.67	3/4	304.64	3/4		3/4	3/4		3/4		3/4
10	1,957.54	10	1,625.47	10	1,293.40	10	961.47	10	629.75	10	297.72	10		10	10		10		10
1/4	1,950.62	1/4	1,618.55	1/4	1,286.49	1/4	954.56	1/4	622.83	1/4	290.81	1/4		1/4	1/4		1/4		1/4
1/2	1,943.71	1/2	1,611.64	1/2	1,279.57	1/2	947.65	1/2	615.92	1/2	283.89	1/2		1/2	1/2		1/2		1/2
3/4	1,936.79	3/4	1,604.72	3/4	1,272.65	3/4	940.75	3/4	609.00	3/4	276.97	3/4		3/4	3/4		3/4		3/4
11	1,929.87	11	1,597.80	11	1,265.73	11	933.84	11	602.08	11	270.05	11		11	11		11		11
1/4	1,922.95	1/4	1,590.88	1/4	1,258.81	1/4	926.94	1/4	595.16	1/4	263.14	1/4		1/4	1/4		1/4		1/4
1/2	1,916.03	1/2	1,583.96	1/2	1,251.90	1/2	920.03	1/2	588.24	1/2	256.22	1/2		1/2	1/2		1/2		1/2
3/4	1,909.12	3/4	1,577.05	3/4	1,244.98	3/4	913.12	3/4	581.33	3/4	249.30	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
CALCULATED: 05/17/2013 CL
PRINTED: 05/18/2013 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013



BARGE "CTCO 252"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4	4,861.30	1/4	4,554.08	1/4	4,229.65	1/4	3,897.89	1/4	3,566.12	1/4	3,234.36	1/4	2,902.59	1/4	2,570.79		
1/2		1/2	5,141.00	1/2	4,855.07	1/2	4,547.48	1/2	4,222.74	1/2	3,890.98	1/2	3,559.21	1/2	3,227.44	1/2	2,895.68	1/2	2,563.87		
3/4		3/4	5,136.12	3/4	4,848.84	3/4	4,540.88	3/4	4,215.83	3/4	3,884.06	3/4	3,552.30	3/4	3,220.53	3/4	2,888.77	3/4	2,556.96		
1		1	5,131.24	1	4,842.61	1	4,534.28	1	4,208.92	1	3,877.15	1	3,545.39	1	3,213.62	1	2,881.85	1	2,550.04		
1/4		1/4	5,125.89	1/4	4,836.35	1/4	4,527.65	1/4	4,202.01	1/4	3,870.24	1/4	3,538.47	1/4	3,206.71	1/4	2,874.94	1/4	2,543.12		
1/2		1/2	5,120.53	1/2	4,830.09	1/2	4,521.02	1/2	4,195.10	1/2	3,863.33	1/2	3,531.56	1/2	3,199.80	1/2	2,868.03	1/2	2,536.21		
3/4		3/4	5,115.18	3/4	4,823.83	3/4	4,514.40	3/4	4,188.18	3/4	3,856.42	3/4	3,524.65	3/4	3,192.88	3/4	2,861.12	3/4	2,529.29		
2		2	5,109.82	2	4,817.58	2	4,507.77	2	4,181.27	2	3,849.51	2	3,517.74	2	3,185.97	2	2,854.21	2	2,522.37		
1/4		1/4	5,103.92	1/4	4,811.29	1/4	4,501.11	1/4	4,174.36	1/4	3,842.59	1/4	3,510.83	1/4	3,179.06	1/4	2,847.29	1/4	2,515.46		
1/2		1/2	5,098.02	1/2	4,805.01	1/2	4,494.46	1/2	4,167.45	1/2	3,835.68	1/2	3,503.92	1/2	3,172.15	1/2	2,840.38	1/2	2,508.54		
3/4		3/4	5,092.12	3/4	4,798.72	3/4	4,487.80	3/4	4,160.54	3/4	3,828.77	3/4	3,497.00	3/4	3,165.24	3/4	2,833.47	3/4	2,501.63		
3		3	5,086.22	3	4,792.44	3	4,481.14	3	4,153.62	3	3,821.86	3	3,490.09	3	3,158.33	3	2,826.56	3	2,494.71		
1/4		1/4	5,080.30	1/4	4,786.12	1/4	4,474.46	1/4	4,146.71	1/4	3,814.95	1/4	3,483.18	1/4	3,151.41	1/4	2,819.65	1/4	2,487.79		
1/2		1/2	5,074.37	1/2	4,779.81	1/2	4,467.78	1/2	4,139.80	1/2	3,808.03	1/2	3,476.27	1/2	3,144.50	1/2	2,812.74	1/2	2,480.88		
3/4		3/4	5,068.44	3/4	4,773.50	3/4	4,461.09	3/4	4,132.89	3/4	3,801.12	3/4	3,469.36	3/4	3,137.59	3/4	2,805.82	3/4	2,473.96		
4		4	5,062.52	4	4,767.18	4	4,454.41	4	4,125.98	4	3,794.21	4	3,462.44	4	3,130.68	4	2,798.91	4	2,467.04		
1/4		1/4	5,056.56	1/4	4,760.84	1/4	4,447.70	1/4	4,119.07	1/4	3,787.30	1/4	3,455.53	1/4	3,123.77	1/4	2,792.00	1/4	2,460.13		
1/2		1/2	5,050.61	1/2	4,754.50	1/2	4,440.98	1/2	4,112.15	1/2	3,780.39	1/2	3,448.62	1/2	3,116.85	1/2	2,785.09	1/2	2,453.21		
3/4		3/4	5,044.66	3/4	4,748.16	3/4	4,434.27	3/4	4,105.24	3/4	3,773.48	3/4	3,441.71	3/4	3,109.94	3/4	2,778.18	3/4	2,446.29		
5		5	5,038.70	5	4,741.82	5	4,427.56	5	4,098.33	5	3,766.56	5	3,434.80	5	3,103.03	5	2,771.26	5	2,439.38		
1/4		1/4	5,032.71	1/4	4,735.46	1/4	4,420.82	1/4	4,091.42	1/4	3,759.65	1/4	3,427.89	1/4	3,096.12	1/4	2,764.35	1/4	2,432.46		
1/2		1/2	5,026.71	1/2	4,729.09	1/2	4,414.08	1/2	4,084.51	1/2	3,752.74	1/2	3,420.97	1/2	3,089.21	1/2	2,757.44	1/2	2,425.54		
3/4		3/4	5,020.72	3/4	4,722.72	3/4	4,407.34	3/4	4,077.59	3/4	3,745.83	3/4	3,414.06	3/4	3,082.30	3/4	2,750.53	3/4	2,418.63		
6		6	5,014.72	6	4,716.35	6	4,400.61	6	4,070.68	6	3,738.92	6	3,407.15	6	3,075.38	6	2,743.62	6	2,411.71		
1/4		1/4	5,008.66	1/4	4,709.96	1/4	4,393.84	1/4	4,063.77	1/4	3,732.00	1/4	3,400.24	1/4	3,068.47	1/4	2,736.71	1/4	2,404.80		
1/2		1/2	5,002.59	1/2	4,703.56	1/2	4,387.07	1/2	4,056.86	1/2	3,725.09	1/2	3,393.33	1/2	3,061.56	1/2	2,729.79	1/2	2,397.88		
3/4		3/4	4,996.53	3/4	4,697.16	3/4	4,380.31	3/4	4,049.95	3/4	3,718.18	3/4	3,386.41	3/4	3,054.65	3/4	2,722.88	3/4	2,390.96		
7		7	4,990.47	7	4,690.77	7	4,373.54	7	4,043.04	7	3,711.27	7	3,379.50	7	3,047.74	7	2,715.97	7	2,384.05		
1/4		1/4	4,984.37	1/4	4,684.34	1/4	4,366.74	1/4	4,036.12	1/4	3,704.36	1/4	3,372.59	1/4	3,040.82	1/4	2,709.06	1/4	2,377.13		
1/2		1/2	4,978.28	1/2	4,677.92	1/2	4,359.95	1/2	4,029.21	1/2	3,697.45	1/2	3,365.68	1/2	3,033.91	1/2	2,702.15	1/2	2,370.21		
3/4		3/4	4,972.19	3/4	4,671.50	3/4	4,353.16	3/4	4,022.30	3/4	3,690.53	3/4	3,358.77	3/4	3,027.00	3/4	2,695.23	3/4	2,363.30		
8		8	4,966.10	8	4,665.07	8	4,346.36	8	4,015.39	8	3,683.62	8	3,351.86	8	3,020.09	8	2,688.32	8	2,356.38		
1/4		1/4	4,959.98	1/4	4,658.61	1/4	4,339.54	1/4	4,008.48	1/4	3,676.71	1/4	3,344.94	1/4	3,013.18	1/4	2,681.41	1/4	2,349.46		
1/2		1/2	4,953.86	1/2	4,652.15	1/2	4,332.72	1/2	4,001.56	1/2	3,669.80	1/2	3,338.03	1/2	3,006.27	1/2	2,674.50	1/2	2,342.55		
3/4		3/4	4,947.74	3/4	4,645.69	3/4	4,325.90	3/4	3,994.65	3/4	3,662.89	3/4	3,331.12	3/4	2,999.35	3/4	2,667.59	3/4	2,335.63		
9		9	4,941.62	9	4,639.23	9	4,319.07	9	3,987.74	9	3,655.97	9	3,324.21	9	2,992.44	9	2,660.68	9	2,328.72		
1/4		1/4	4,935.47	1/4	4,632.71	1/4	4,312.22	1/4	3,980.83	1/4	3,649.06	1/4	3,317.30	1/4	2,985.53	1/4	2,653.76	1/4	2,321.80		
1/2		1/2	4,929.33	1/2	4,626.20	1/2	4,305.37	1/2	3,973.92	1/2	3,642.15	1/2	3,310.38	1/2	2,978.62	1/2	2,646.85	1/2	2,314.88		
3/4		3/4	4,923.18	3/4	4,619.68	3/4	4,298.53	3/4	3,967.01	3/4	3,635.24	3/4	3,303.47	3/4	2,971.71	3/4	2,639.94	3/4	2,307.97		
10		10	4,917.03	10	4,613.16	10	4,291.68	10	3,960.09	10	3,628.33	10	3,296.56	10	2,964.79	10	2,633.03	10	2,301.05		
1/4		1/4	4,910.86	1/4	4,606.61	1/4	4,284.80	1/4	3,953.18	1/4	3,621.42	1/4	3,289.65	1/4	2,957.88	1/4	2,626.11	1/4	2,294.13		
1/2		1/2	4,904.68	1/2	4,600.07	1/2	4,277.92	1/2	3,946.27	1/2	3,614.50	1/2	3,282.74	1/2	2,950.97	1/2	2,619.20	1/2	2,287.22		
3/4		3/4	4,898.51	3/4	4,593.52	3/4	4,271.04	3/4	3,939.36	3/4	3,607.59	3/4	3,275.83	3/4	2,944.06	3/4	2,612.29	3/4	2,280.30		
11		11	4,892.34	11	4,586.98	11	4,264.17	11	3,932.45	11	3,600.68	11	3,268.91	11	2,937.15	11	2,605.37	11	2,273.38		
1/4		1/4	4,886.13	1/4	4,580.40	1/4	4,257.27	1/4	3,925.54	1/4	3,593.77	1/4	3,262.00	1/4	2,930.24	1/4	2,598.45	1/4	2,266.47		
1/2		1/2	4,879.93	1/2	4,573.83	1/2	4,250.37	1/2	3,918.62	1/2	3,586.86	1/2	3,255.09	1/2	2,923.32	1/2	2,591.54	1/2	2,259.55		
3/4		3/4	4,873.73	3/4	4,567.26	3/4	4,243.47	3/4	3,911.71	3/4	3,579.95	3/4	3,248.18	3/4	2,916.41	3/4	2,584.62	3/4	2,252.63		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTCO 252"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,245.72	0	1,913.73	0	1,581.74	0	1,249.76	0	918.75	0	588.09	0	256.15	0		0		0	
1/4	2,238.80	1/4	1,906.81	1/4	1,574.83	1/4	1,242.84	1/4	911.88	1/4	581.18	1/4	249.23	1/4		1/4		1/4	
1/2	2,231.89	1/2	1,899.90	1/2	1,567.91	1/2	1,235.92	1/2	905.02	1/2	574.26	1/2	242.32	1/2		1/2		1/2	
3/4	2,224.97	3/4	1,892.98	3/4	1,560.99	3/4	1,229.01	3/4	898.15	3/4	567.35	3/4	235.40	3/4		3/4		3/4	
1	2,218.05	1	1,886.07	1	1,554.08	1	1,222.09	1	891.28	1	560.43	1	228.48	1		1		1	
1/4	2,211.14	1/4	1,879.15	1/4	1,547.16	1/4	1,215.17	1/4	884.41	1/4	553.51	1/4	221.57	1/4		1/4		1/4	
1/2	2,204.22	1/2	1,872.23	1/2	1,540.25	1/2	1,208.26	1/2	877.55	1/2	546.60	1/2	214.65	1/2		1/2		1/2	
3/4	2,197.30	3/4	1,865.32	3/4	1,533.33	3/4	1,201.34	3/4	870.68	3/4	539.68	3/4	207.73	3/4		3/4		3/4	
2	2,190.39	2	1,858.40	2	1,526.41	2	1,194.43	2	863.81	2	532.76	2	200.82	2		2		2	
1/4	2,183.47	1/4	1,851.48	1/4	1,519.50	1/4	1,187.51	1/4	856.94	1/4	525.85	1/4	193.90	1/4		1/4		1/4	
1/2	2,176.55	1/2	1,844.57	1/2	1,512.58	1/2	1,180.59	1/2	850.08	1/2	518.93	1/2	186.99	1/2		1/2		1/2	
3/4	2,169.64	3/4	1,837.65	3/4	1,505.66	3/4	1,173.68	3/4	843.21	3/4	512.02	3/4	180.07	3/4		3/4		3/4	
3	2,162.72	3	1,830.73	3	1,498.75	3	1,166.76	3	836.34	3	505.10	3	173.15	3		3		3	
1/4	2,155.81	1/4	1,823.82	1/4	1,491.83	1/4	1,159.84	1/4	829.48	1/4	498.18	1/4	166.24	1/4		1/4		1/4	
1/2	2,148.89	1/2	1,816.90	1/2	1,484.91	1/2	1,152.93	1/2	822.61	1/2	491.27	1/2	159.32	1/2		1/2		1/2	
3/4	2,141.97	3/4	1,809.99	3/4	1,478.00	3/4	1,146.01	3/4	815.74	3/4	484.35	3/4	152.41	3/4		3/4		3/4	
4	2,135.06	4	1,803.07	4	1,471.08	4	1,139.09	4	808.87	4	477.44	4	145.49	4		4		4	
1/4	2,128.14	1/4	1,796.15	1/4	1,464.17	1/4	1,132.18	1/4	802.01	1/4	470.52	1/4	138.58	1/4		1/4		1/4	
1/2	2,121.22	1/2	1,789.24	1/2	1,457.25	1/2	1,125.26	1/2	795.14	1/2	463.60	1/2	131.67	1/2		1/2		1/2	
3/4	2,114.31	3/4	1,782.32	3/4	1,450.33	3/4	1,118.35	3/4	788.27	3/4	456.69	3/4	124.75	3/4		3/4		3/4	
5	2,107.39	5	1,775.40	5	1,443.42	5	1,111.43	5	781.40	5	449.77	5	117.84	5		5		5	
1/4	2,100.47	1/4	1,768.49	1/4	1,436.50	1/4	1,104.51	1/4	774.54	1/4	442.86	1/4	110.94	1/4		1/4		1/4	
1/2	2,093.56	1/2	1,761.57	1/2	1,429.58	1/2	1,097.60	1/2	767.67	1/2	435.94	1/2	104.04	1/2		1/2		1/2	
3/4	2,086.64	3/4	1,754.65	3/4	1,422.67	3/4	1,090.68	3/4	760.80	3/4	429.02	3/4	97.14	3/4		3/4		3/4	
6	2,079.72	6	1,747.74	6	1,415.75	6	1,083.76	6	753.93	6	422.11	6	90.24	6		6		6	
1/4	2,072.81	1/4	1,740.82	1/4	1,408.83	1/4	1,076.86	1/4	747.06	1/4	415.19	1/4	83.53	1/4		1/4		1/4	
1/2	2,065.89	1/2	1,733.90	1/2	1,401.92	1/2	1,069.95	1/2	740.18	1/2	408.28	1/2	76.81	1/2		1/2		1/2	
3/4	2,058.98	3/4	1,726.99	3/4	1,395.00	3/4	1,063.05	3/4	733.30	3/4	401.36	3/4	70.10	3/4		3/4		3/4	
7	2,052.06	7	1,720.07	7	1,388.08	7	1,056.14	7	726.42	7	394.44	7	63.38	7		7		7	
1/4	2,045.14	1/4	1,713.16	1/4	1,381.17	1/4	1,049.27	1/4	719.50	1/4	387.53	1/4	57.50	1/4		1/4		1/4	
1/2	2,038.23	1/2	1,706.24	1/2	1,374.25	1/2	1,042.39	1/2	712.58	1/2	380.61	1/2	51.63	1/2		1/2		1/2	
3/4	2,031.31	3/4	1,699.32	3/4	1,367.34	3/4	1,035.52	3/4	705.67	3/4	373.70	3/4	45.75	3/4		3/4		3/4	
8	2,024.39	8	1,692.41	8	1,360.42	8	1,028.65	8	698.75	8	366.78	8	39.87	8		8		8	
1/4	2,017.48	1/4	1,685.49	1/4	1,353.50	1/4	1,021.77	1/4	691.84	1/4	359.87	1/4	33.88	1/4		1/4		1/4	
1/2	2,010.56	1/2	1,678.57	1/2	1,346.59	1/2	1,014.90	1/2	684.92	1/2	352.96	1/2	30.88	1/2		1/2		1/2	
3/4	2,003.64	3/4	1,671.66	3/4	1,339.67	3/4	1,008.03	3/4	678.00	3/4	346.04	3/4	26.39	3/4		3/4		3/4	
9	1,996.73	9	1,664.74	9	1,332.75	9	1,001.16	9	671.09	9	339.13	9	21.90	9		9		9	
1/4	1,989.81	1/4	1,657.82	1/4	1,325.84	1/4	994.29	1/4	664.17	1/4	332.22	1/4		1/4		1/4		1/4	
1/2	1,982.90	1/2	1,650.91	1/2	1,318.92	1/2	987.42	1/2	657.25	1/2	325.30	1/2		1/2		1/2		1/2	
3/4	1,975.98	3/4	1,643.99	3/4	1,312.00	3/4	980.56	3/4	650.34	3/4	318.39	3/4		3/4		3/4		3/4	
10	1,969.06	10	1,637.08	10	1,305.09	10	973.69	10	643.42	10	311.48	10		10		10		10	
1/4	1,962.15	1/4	1,630.16	1/4	1,298.17	1/4	966.82	1/4	636.51	1/4	304.56	1/4		1/4		1/4		1/4	
1/2	1,955.23	1/2	1,623.24	1/2	1,291.26	1/2	959.95	1/2	629.59	1/2	297.64	1/2		1/2		1/2		1/2	
3/4	1,948.31	3/4	1,616.33	3/4	1,284.34	3/4	953.09	3/4	622.67	3/4	290.73	3/4		3/4		3/4		3/4	
11	1,941.40	11	1,609.41	11	1,277.42	11	946.22	11	615.76	11	283.81	11		11		11		11	
1/4	1,934.48	1/4	1,602.49	1/4	1,270.51	1/4	939.35	1/4	608.84	1/4	276.90	1/4		1/4		1/4		1/4	
1/2	1,927.56	1/2	1,595.58	1/2	1,263.59	1/2	932.48	1/2	601.93	1/2	269.98	1/2		1/2		1/2		1/2	
3/4	1,920.65	3/4	1,588.66	3/4	1,256.67	3/4	925.62	3/4	595.01	3/4	263.06	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
CALCULATED: 05/17/2013 CL
PRINTED: 05/18/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013

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



BARGE "CTCO 252"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
			5,124.44		4,839.53		4,533.06		4,209.48		3,878.91		3,548.34		3,217.77		2,887.20		2,556.60
1/4	1/4	1/2	5,119.58	1/2	4,833.33	1/2	4,526.48	1/2	4,202.59	1/2	3,872.02	1/2	3,541.45	1/2	3,210.88	1/2	2,880.31	1/2	2,549.71
3/4	3/4	3/4	5,114.71	3/4	4,827.12	3/4	4,519.91	3/4	4,195.71	3/4	3,865.14	3/4	3,534.57	3/4	3,203.99	3/4	2,873.42	3/4	2,542.82
1	1	1	5,109.38	1	4,820.88	1	4,513.30	1	4,188.82	1	3,858.25	1	3,527.68	1	3,197.11	1	2,866.54	1	2,535.93
			5,104.04		4,814.65		4,506.70		4,181.93		3,851.36		3,520.79		3,190.22		2,859.65		2,529.04
1/4	1/4	1/2	5,098.71	1/2	4,808.41	1/2	4,500.09	1/2	4,175.05	1/2	3,844.48	1/2	3,513.90	1/2	3,183.33	1/2	2,852.76	1/2	2,522.15
3/4	3/4	3/4	5,093.37	3/4	4,802.18	3/4	4,493.49	3/4	4,168.16	3/4	3,837.59	3/4	3,507.02	3/4	3,176.45	3/4	2,845.88	3/4	2,515.25
2	2	2	5,087.49	2	4,795.92	2	4,486.85	2	4,161.27	2	3,830.70	2	3,500.13	2	3,169.56	2	2,838.99	2	2,508.36
			5,081.61		4,789.65		4,480.22		4,154.39		3,823.82		3,493.24		3,162.67		2,832.10		2,501.47
1/4	1/4	1/2	5,075.73	1/2	4,783.39	1/2	4,473.59	1/2	4,147.50	1/2	3,816.93	1/2	3,486.36	1/2	3,155.79	1/2	2,825.21	1/2	2,494.58
3/4	3/4	3/4	5,069.85	3/4	4,777.13	3/4	4,466.96	3/4	4,140.61	3/4	3,810.04	3/4	3,479.47	3/4	3,148.90	3/4	2,818.33	3/4	2,487.69
3	3	3	5,063.95	3	4,770.84	3	4,460.30	3	4,133.73	3	3,803.15	3	3,472.58	3	3,142.01	3	2,811.44	3	2,480.80
			5,058.04		4,764.55		4,453.64		4,126.84		3,796.27		3,465.70		3,135.13		2,804.55		2,473.91
1/4	1/4	1/2	5,052.14	1/2	4,758.26	1/2	4,446.98	1/2	4,119.95	1/2	3,789.38	1/2	3,458.81	1/2	3,128.24	1/2	2,797.67	1/2	2,467.01
3/4	3/4	3/4	5,046.23	3/4	4,751.97	3/4	4,440.32	3/4	4,113.07	3/4	3,782.49	3/4	3,451.92	3/4	3,121.35	3/4	2,790.78	3/4	2,460.12
4	4	4	5,040.30	4	4,745.65	4	4,433.63	4	4,106.18	4	3,775.61	4	3,445.04	4	3,114.46	4	2,783.89	4	2,453.23
			5,034.37		4,739.33		4,426.94		4,099.29		3,768.72		3,438.15		3,107.58		2,777.01		2,446.34
1/4	1/4	1/2	5,028.44	1/2	4,733.02	1/2	4,420.26	1/2	4,092.40	1/2	3,761.83	1/2	3,431.26	1/2	3,100.69	1/2	2,770.12	1/2	2,439.45
3/4	3/4	3/4	5,022.51	3/4	4,726.70	3/4	4,413.57	3/4	4,085.52	3/4	3,754.95	3/4	3,424.38	3/4	3,093.80	3/4	2,763.23	3/4	2,432.56
5	5	5	5,016.53	5	4,720.35	5	4,406.85	5	4,078.63	5	3,748.06	5	3,417.49	5	3,086.92	5	2,756.35	5	2,425.66
			5,010.56		4,714.01		4,400.14		4,071.74		3,741.17		3,410.60		3,080.03		2,749.46		2,418.77
1/4	1/4	1/2	5,004.59	1/2	4,707.66	1/2	4,393.43	1/2	4,064.86	1/2	3,734.29	1/2	3,403.71	1/2	3,073.14	1/2	2,742.57	1/2	2,411.88
3/4	3/4	3/4	4,998.61	3/4	4,701.32	3/4	4,386.71	3/4	4,057.97	3/4	3,727.40	3/4	3,396.83	3/4	3,066.26	3/4	2,735.69	3/4	2,404.99
6	6	6	4,992.57	6	4,694.95	6	4,379.97	6	4,051.08	6	3,720.51	6	3,389.94	6	3,059.37	6	2,728.80	6	2,398.10
			4,986.53		4,688.57		4,373.23		4,044.20		3,713.63		3,383.05		3,052.48		2,721.91		2,391.21
1/4	1/4	1/2	4,980.49	1/2	4,682.20	1/2	4,366.48	1/2	4,037.31	1/2	3,706.74	1/2	3,376.17	1/2	3,045.60	1/2	2,715.02	1/2	2,384.31
3/4	3/4	3/4	4,974.44	3/4	4,675.83	3/4	4,359.74	3/4	4,030.42	3/4	3,699.85	3/4	3,369.28	3/4	3,038.71	3/4	2,708.14	3/4	2,377.42
7	7	7	4,968.37	7	4,669.43	7	4,352.97	7	4,023.54	7	3,692.96	7	3,362.39	7	3,031.82	7	2,701.25	7	2,370.53
			4,962.30		4,663.03		4,346.20		4,016.65		3,686.08		3,355.51		3,024.94		2,694.36		2,363.64
1/4	1/4	1/2	4,956.23	1/2	4,656.63	1/2	4,339.43	1/2	4,009.76	1/2	3,679.19	1/2	3,348.62	1/2	3,018.05	1/2	2,687.48	1/2	2,356.75
3/4	3/4	3/4	4,950.17	3/4	4,650.23	3/4	4,332.66	3/4	4,002.87	3/4	3,672.30	3/4	3,341.73	3/4	3,011.16	3/4	2,680.59	3/4	2,349.86
8	8	8	4,944.07	8	4,643.79	8	4,325.86	8	3,995.99	8	3,665.42	8	3,334.85	8	3,004.27	8	2,673.70	8	2,342.96
			4,937.97		4,637.35		4,319.07		3,989.10		3,658.53		3,327.96		2,997.39		2,666.82		2,336.07
1/4	1/4	1/2	4,931.87	1/2	4,630.92	1/2	4,312.27	1/2	3,982.21	1/2	3,651.64	1/2	3,321.07	1/2	2,990.50	1/2	2,659.93	1/2	2,329.18
3/4	3/4	3/4	4,925.78	3/4	4,624.48	3/4	4,305.47	3/4	3,975.33	3/4	3,644.76	3/4	3,314.18	3/4	2,983.61	3/4	2,653.04	3/4	2,322.29
9	9	9	4,919.65	9	4,617.98	9	4,298.65	9	3,968.44	9	3,637.87	9	3,307.30	9	2,976.73	9	2,646.16	9	2,315.40
			4,913.53		4,611.49		4,291.82		3,961.55		3,630.98		3,300.41		2,969.84		2,639.27		2,308.51
1/4	1/4	1/2	4,907.40	1/2	4,605.00	1/2	4,285.00	1/2	3,954.67	1/2	3,624.10	1/2	3,293.52	1/2	2,962.95	1/2	2,632.38	1/2	2,301.62
3/4	3/4	3/4	4,901.28	3/4	4,598.50	3/4	4,278.17	3/4	3,947.78	3/4	3,617.21	3/4	3,286.64	3/4	2,956.07	3/4	2,625.49	3/4	2,294.72
10	10	10	4,895.12	10	4,591.98	10	4,271.32	10	3,940.89	10	3,610.32	10	3,279.75	10	2,949.18	10	2,618.61	10	2,287.83
			4,888.97		4,585.46		4,264.47		3,934.01		3,603.43		3,272.86		2,942.29		2,611.72		2,280.94
1/4	1/4	1/2	4,882.82	1/2	4,578.93	1/2	4,257.61	1/2	3,927.12	1/2	3,596.55	1/2	3,265.98	1/2	2,935.41	1/2	2,604.84	1/2	2,274.05
3/4	3/4	3/4	4,876.67	3/4	4,572.41	3/4	4,250.76	3/4	3,920.23	3/4	3,589.66	3/4	3,259.09	3/4	2,928.52	3/4	2,597.95	3/4	2,267.16
11	11	11	4,870.49	11	4,565.86	11	4,243.89	11	3,913.35	11	3,582.77	11	3,252.20	11	2,921.63	11	2,591.06	11	2,260.27
			4,864.31		4,559.31		4,237.01		3,906.46		3,575.89		3,245.32		2,914.74		2,584.17		2,253.37
1/4	1/4	1/2	4,858.13	1/2	4,552.76	1/2	4,230.13	1/2	3,899.57	1/2	3,569.00	1/2	3,238.43	1/2	2,907.86	1/2	2,577.28	1/2	2,246.48
3/4	3/4	3/4	4,851.95	3/4	4,546.21	3/4	4,223.26	3/4	3,892.68	3/4	3,562.11	3/4	3,231.54	3/4	2,900.97	3/4	2,570.39	3/4	2,239.59

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

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





BARGE "CTCO 252"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,225.81	1/4	1,895.01	1/4	1,564.21	1/4	1,233.42	1/4	902.80	1/4	572.20	1/4	241.45	1/4		1/4		1/4	
1/2	2,218.92	1/2	1,888.12	1/2	1,557.32	1/2	1,226.53	1/2	895.91	1/2	565.31	1/2	234.56	1/2		1/2		1/2	
3/4	2,212.02	3/4	1,881.23	3/4	1,550.43	3/4	1,219.63	3/4	889.03	3/4	558.42	3/4	227.67	3/4		3/4		3/4	
1	2,205.13	1	1,874.34	1	1,543.54	1	1,212.74	1	882.15	1	551.53	1	220.78	1		1		1	
1/4	2,198.24	1/4	1,867.44	1/4	1,536.65	1/4	1,205.85	1/4	875.27	1/4	544.64	1/4	213.88	1/4		1/4		1/4	
1/2	2,191.35	1/2	1,860.55	1/2	1,529.76	1/2	1,198.96	1/2	868.38	1/2	537.75	1/2	206.99	1/2		1/2		1/2	
3/4	2,184.46	3/4	1,853.66	3/4	1,522.86	3/4	1,192.07	3/4	861.50	3/4	530.86	3/4	200.10	3/4		3/4		3/4	
2	2,177.57	2	1,846.77	2	1,515.97	2	1,185.18	2	854.62	2	523.96	2	193.21	2		2		2	
1/4	2,170.67	1/4	1,839.88	1/4	1,509.08	1/4	1,178.28	1/4	847.74	1/4	517.07	1/4	186.32	1/4		1/4		1/4	
1/2	2,163.78	1/2	1,832.99	1/2	1,502.19	1/2	1,171.39	1/2	840.85	1/2	510.18	1/2	179.43	1/2		1/2		1/2	
3/4	2,156.89	3/4	1,826.09	3/4	1,495.30	3/4	1,164.50	3/4	833.97	3/4	503.29	3/4	172.54	3/4		3/4		3/4	
3	2,150.00	3	1,819.20	3	1,488.41	3	1,157.61	3	827.09	3	496.40	3	165.65	3		3		3	
1/4	2,143.11	1/4	1,812.31	1/4	1,481.51	1/4	1,150.72	1/4	820.21	1/4	489.51	1/4	158.76	1/4		1/4		1/4	
1/2	2,136.22	1/2	1,805.42	1/2	1,474.62	1/2	1,143.83	1/2	813.32	1/2	482.62	1/2	151.86	1/2		1/2		1/2	
3/4	2,129.33	3/4	1,798.53	3/4	1,467.73	3/4	1,136.93	3/4	806.44	3/4	475.73	3/4	144.97	3/4		3/4		3/4	
4	2,122.43	4	1,791.64	4	1,460.84	4	1,130.04	4	799.56	4	468.83	4	138.09	4		4		4	
1/4	2,115.54	1/4	1,784.75	1/4	1,453.95	1/4	1,123.15	1/4	792.68	1/4	461.94	1/4	131.20	1/4		1/4		1/4	
1/2	2,108.65	1/2	1,777.85	1/2	1,447.06	1/2	1,116.26	1/2	785.80	1/2	455.05	1/2	124.31	1/2		1/2		1/2	
3/4	2,101.76	3/4	1,770.96	3/4	1,440.17	3/4	1,109.37	3/4	778.91	3/4	448.16	3/4	117.42	3/4		3/4		3/4	
5	2,094.87	5	1,764.07	5	1,433.27	5	1,102.48	5	772.03	5	441.27	5	110.55	5		5		5	
1/4	2,087.98	1/4	1,757.18	1/4	1,426.38	1/4	1,095.59	1/4	765.15	1/4	434.38	1/4	103.67	1/4		1/4		1/4	
1/2	2,081.08	1/2	1,750.29	1/2	1,419.49	1/2	1,088.69	1/2	758.26	1/2	427.49	1/2	96.80	1/2		1/2		1/2	
3/4	2,074.19	3/4	1,743.40	3/4	1,412.60	3/4	1,081.80	3/4	751.38	3/4	420.59	3/4	89.92	3/4		3/4		3/4	
6	2,067.30	6	1,736.50	6	1,405.71	6	1,074.91	6	744.49	6	413.70	6	83.23	6		6		6	
1/4	2,060.41	1/4	1,729.61	1/4	1,398.82	1/4	1,068.02	1/4	737.59	1/4	406.81	1/4	76.54	1/4		1/4		1/4	
1/2	2,053.52	1/2	1,722.72	1/2	1,391.92	1/2	1,061.13	1/2	730.70	1/2	399.92	1/2	69.85	1/2		1/2		1/2	
3/4	2,046.63	3/4	1,715.83	3/4	1,385.03	3/4	1,054.24	3/4	723.81	3/4	393.03	3/4	63.16	3/4		3/4		3/4	
7	2,039.73	7	1,708.94	7	1,378.14	7	1,047.35	7	716.92	7	386.14	7	57.30	7		7		7	
1/4	2,032.84	1/4	1,702.05	1/4	1,371.25	1/4	1,040.46	1/4	710.03	1/4	379.25	1/4	51.45	1/4		1/4		1/4	
1/2	2,025.95	1/2	1,695.15	1/2	1,364.36	1/2	1,033.57	1/2	703.14	1/2	372.36	1/2	45.59	1/2		1/2		1/2	
3/4	2,019.06	3/4	1,688.26	3/4	1,357.47	3/4	1,026.68	3/4	696.25	3/4	365.47	3/4	39.74	3/4		3/4		3/4	
8	2,012.17	8	1,681.37	8	1,350.57	8	1,019.80	8	689.36	8	358.58	8	35.26	8		8		8	
1/4	2,005.28	1/4	1,674.48	1/4	1,343.68	1/4	1,012.91	1/4	682.46	1/4	351.69	1/4	30.78	1/4		1/4		1/4	
1/2	1,998.38	1/2	1,667.59	1/2	1,336.79	1/2	1,006.03	1/2	675.57	1/2	344.80	1/2	26.30	1/2		1/2		1/2	
3/4	1,991.49	3/4	1,660.70	3/4	1,329.90	3/4	999.15	3/4	668.68	3/4	337.92	3/4	21.82	3/4		3/4		3/4	
9	1,984.60	9	1,653.80	9	1,323.01	9	992.27	9	661.79	9	331.03	9		9		9		9	
1/4	1,977.71	1/4	1,646.91	1/4	1,316.12	1/4	985.38	1/4	654.90	1/4	324.14	1/4		1/4		1/4		1/4	
1/2	1,970.82	1/2	1,640.02	1/2	1,309.22	1/2	978.50	1/2	648.01	1/2	317.25	1/2		1/2		1/2		1/2	
3/4	1,963.93	3/4	1,633.13	3/4	1,302.33	3/4	971.62	3/4	641.12	3/4	310.36	3/4		3/4		3/4		3/4	
10	1,957.04	10	1,626.24	10	1,295.44	10	964.74	10	634.23	10	303.47	10		10		10		10	
1/4	1,950.14	1/4	1,619.35	1/4	1,288.55	1/4	957.86	1/4	627.33	1/4	296.58	1/4		1/4		1/4		1/4	
1/2	1,943.25	1/2	1,612.46	1/2	1,281.66	1/2	950.97	1/2	620.44	1/2	289.69	1/2		1/2		1/2		1/2	
3/4	1,936.36	3/4	1,605.56	3/4	1,274.77	3/4	944.09	3/4	613.55	3/4	282.80	3/4		3/4		3/4		3/4	
11	1,929.47	11	1,598.67	11	1,267.88	11	937.21	11	606.66	11	275.91	11		11		11		11	
1/4	1,922.58	1/4	1,591.78	1/4	1,260.98	1/4	930.33	1/4	599.77	1/4	269.02	1/4		1/4		1/4		1/4	
1/2	1,915.69	1/2	1,584.89	1/2	1,254.09	1/2	923.44	1/2	592.88	1/2	262.12	1/2		1/2		1/2		1/2	
3/4	1,908.79	3/4	1,578.00	3/4	1,247.20	3/4	916.56	3/4	585.99	3/4	255.23	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
CALCULATED: 05/17/2013 CL
PRINTED: 05/18/2013 SW

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013



BARGE "CTCO 252"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,792.67	0	4,463.34	0	4,132.69	0	3,802.04	0	3,471.39	0	3,140.75	0	2,810.10	0	2,479.42
1/4		1/4	5,108.00	1/4	4,785.82	1/4	4,456.45	1/4	4,125.80	1/4	3,795.15	1/4	3,464.51	1/4	3,133.86	1/4	2,803.21	1/4	2,472.52
1/2		1/2	5,102.90	1/2	4,778.97	1/2	4,449.56	1/2	4,118.91	1/2	3,788.27	1/2	3,457.62	1/2	3,126.97	1/2	2,796.32	1/2	2,465.63
3/4		3/4	5,097.80	3/4	4,772.12	3/4	4,442.67	3/4	4,112.03	3/4	3,781.38	3/4	3,450.73	3/4	3,120.08	3/4	2,789.43	3/4	2,458.74
1		1	5,091.51	1	4,765.28	1	4,435.78	1	4,105.14	1	3,774.49	1	3,443.84	1	3,113.19	1	2,782.54	1	2,451.84
1/4		1/4	5,085.23	1/4	4,758.43	1/4	4,428.90	1/4	4,098.25	1/4	3,767.60	1/4	3,436.95	1/4	3,106.30	1/4	2,775.66	1/4	2,444.95
1/2		1/2	5,078.95	1/2	4,751.58	1/2	4,422.01	1/2	4,091.36	1/2	3,760.71	1/2	3,430.06	1/2	3,099.42	1/2	2,768.77	1/2	2,438.06
3/4		3/4	5,072.67	3/4	4,744.73	3/4	4,415.12	3/4	4,084.47	3/4	3,753.82	3/4	3,423.18	3/4	3,092.53	3/4	2,761.88	3/4	2,431.16
2		2	5,065.88	2	4,737.88	2	4,408.23	2	4,077.58	2	3,746.93	2	3,416.29	2	3,085.64	2	2,754.99	2	2,424.27
1/4		1/4	5,059.08	1/4	4,731.03	1/4	4,401.34	1/4	4,070.69	1/4	3,740.05	1/4	3,409.40	1/4	3,078.75	1/4	2,748.10	1/4	2,417.38
1/2		1/2	5,052.29	1/2	4,724.18	1/2	4,394.45	1/2	4,063.81	1/2	3,733.16	1/2	3,402.51	1/2	3,071.86	1/2	2,741.21	1/2	2,410.49
3/4		3/4	5,045.49	3/4	4,717.33	3/4	4,387.57	3/4	4,056.92	3/4	3,726.27	3/4	3,395.62	3/4	3,064.97	3/4	2,734.33	3/4	2,403.59
3		3	5,038.69	3	4,710.48	3	4,380.68	3	4,050.03	3	3,719.38	3	3,388.73	3	3,058.08	3	2,727.44	3	2,396.70
1/4		1/4	5,031.90	1/4	4,703.63	1/4	4,373.79	1/4	4,043.14	1/4	3,712.49	1/4	3,381.84	1/4	3,051.20	1/4	2,720.55	1/4	2,389.81
1/2		1/2	5,025.10	1/2	4,696.78	1/2	4,366.90	1/2	4,036.25	1/2	3,705.60	1/2	3,374.96	1/2	3,044.31	1/2	2,713.66	1/2	2,382.91
3/4		3/4	5,018.31	3/4	4,689.93	3/4	4,360.01	3/4	4,029.36	3/4	3,698.72	3/4	3,368.07	3/4	3,037.42	3/4	2,706.77	3/4	2,376.02
4		4	5,011.52	4	4,683.08	4	4,353.12	4	4,022.47	4	3,691.83	4	3,361.18	4	3,030.53	4	2,699.88	4	2,369.13
1/4		1/4	5,004.72	1/4	4,676.24	1/4	4,346.23	1/4	4,015.59	1/4	3,684.94	1/4	3,354.29	1/4	3,023.64	1/4	2,692.99	1/4	2,362.23
1/2		1/2	4,997.93	1/2	4,669.39	1/2	4,339.35	1/2	4,008.70	1/2	3,678.05	1/2	3,347.40	1/2	3,016.75	1/2	2,686.11	1/2	2,355.34
3/4		3/4	4,991.13	3/4	4,662.54	3/4	4,332.46	3/4	4,001.81	3/4	3,671.16	3/4	3,340.51	3/4	3,009.87	3/4	2,679.22	3/4	2,348.45
5		5	4,984.33	5	4,655.69	5	4,325.57	5	3,994.92	5	3,664.27	5	3,333.62	5	3,002.98	5	2,672.33	5	2,341.55
1/4		1/4	4,977.52	1/4	4,648.84	1/4	4,318.68	1/4	3,988.03	1/4	3,657.38	1/4	3,326.74	1/4	2,996.09	1/4	2,665.44	1/4	2,334.66
1/2		1/2	4,970.71	1/2	4,641.99	1/2	4,311.79	1/2	3,981.14	1/2	3,650.50	1/2	3,319.85	1/2	2,989.20	1/2	2,658.55	1/2	2,327.77
3/4		3/4	4,963.90	3/4	4,635.14	3/4	4,304.90	3/4	3,974.26	3/4	3,643.61	3/4	3,312.96	3/4	2,982.31	3/4	2,651.66	3/4	2,320.87
6		6	4,957.05	6	4,628.29	6	4,298.01	6	3,967.37	6	3,636.72	6	3,306.07	6	2,975.42	6	2,644.77	6	2,313.98
1/4		1/4	4,950.20	1/4	4,621.44	1/4	4,291.13	1/4	3,960.48	1/4	3,629.83	1/4	3,299.18	1/4	2,968.53	1/4	2,637.89	1/4	2,307.09
1/2		1/2	4,943.35	1/2	4,614.59	1/2	4,284.24	1/2	3,953.59	1/2	3,622.94	1/2	3,292.29	1/2	2,961.65	1/2	2,631.00	1/2	2,300.19
3/4		3/4	4,936.51	3/4	4,607.74	3/4	4,277.35	3/4	3,946.70	3/4	3,616.05	3/4	3,285.41	3/4	2,954.76	3/4	2,624.11	3/4	2,293.30
7		7	4,929.66	7	4,600.89	7	4,270.46	7	3,939.81	7	3,609.16	7	3,278.52	7	2,947.87	7	2,617.22	7	2,286.41
1/4		1/4	4,922.81	1/4	4,594.05	1/4	4,263.57	1/4	3,932.92	1/4	3,602.28	1/4	3,271.63	1/4	2,940.98	1/4	2,610.33	1/4	2,279.51
1/2		1/2	4,915.96	1/2	4,587.20	1/2	4,256.68	1/2	3,926.04	1/2	3,595.39	1/2	3,264.74	1/2	2,934.09	1/2	2,603.44	1/2	2,272.62
3/4		3/4	4,909.11	3/4	4,580.35	3/4	4,249.80	3/4	3,919.15	3/4	3,588.50	3/4	3,257.85	3/4	2,927.20	3/4	2,596.56	3/4	2,265.73
8		8	4,902.26	8	4,573.48	8	4,242.91	8	3,912.26	8	3,581.61	8	3,250.96	8	2,920.31	8	2,589.67	8	2,258.83
1/4		1/4	4,895.41	1/4	4,566.62	1/4	4,236.02	1/4	3,905.37	1/4	3,574.72	1/4	3,244.07	1/4	2,913.43	1/4	2,582.78	1/4	2,251.94
1/2		1/2	4,888.56	1/2	4,559.75	1/2	4,229.13	1/2	3,898.48	1/2	3,567.83	1/2	3,237.19	1/2	2,906.54	1/2	2,575.89	1/2	2,245.05
3/4		3/4	4,881.71	3/4	4,552.89	3/4	4,222.24	3/4	3,891.59	3/4	3,560.95	3/4	3,230.30	3/4	2,899.65	3/4	2,569.00	3/4	2,238.16
9		9	4,874.86	9	4,546.00	9	4,215.35	9	3,884.70	9	3,554.06	9	3,223.41	9	2,892.76	9	2,562.11	9	2,231.26
1/4		1/4	4,868.01	1/4	4,539.11	1/4	4,208.46	1/4	3,877.82	1/4	3,547.17	1/4	3,216.52	1/4	2,885.87	1/4	2,555.22	1/4	2,224.37
1/2		1/2	4,861.16	1/2	4,532.22	1/2	4,201.58	1/2	3,870.93	1/2	3,540.28	1/2	3,209.63	1/2	2,878.98	1/2	2,548.34	1/2	2,217.48
3/4		3/4	4,854.31	3/4	4,525.34	3/4	4,194.69	3/4	3,864.04	3/4	3,533.39	3/4	3,202.74	3/4	2,872.10	3/4	2,541.45	3/4	2,210.58
10		10	4,847.47	10	4,518.45	10	4,187.80	10	3,857.15	10	3,526.50	10	3,195.85	10	2,865.21	10	2,534.56	10	2,203.69
1/4		1/4	4,840.62	1/4	4,511.56	1/4	4,180.91	1/4	3,850.26	1/4	3,519.61	1/4	3,188.97	1/4	2,858.32	1/4	2,527.67	1/4	2,196.80
1/2		1/2	4,833.77	1/2	4,504.67	1/2	4,174.02	1/2	3,843.37	1/2	3,512.73	1/2	3,182.08	1/2	2,851.43	1/2	2,520.77	1/2	2,189.90
3/4		3/4	4,826.92	3/4	4,497.78	3/4	4,167.13	3/4	3,836.49	3/4	3,505.84	3/4	3,175.19	3/4	2,844.54	3/4	2,513.88	3/4	2,183.01
11		11	4,820.07	11	4,490.89	11	4,160.24	11	3,829.60	11	3,498.95	11	3,168.30	11	2,837.65	11	2,506.99	11	2,176.12
1/4		1/4	4,813.22	1/4	4,484.00	1/4	4,153.36	1/4	3,822.71	1/4	3,492.06	1/4	3,161.41	1/4	2,830.76	1/4	2,500.10	1/4	2,169.22
1/2		1/2	4,806.37	1/2	4,477.12	1/2	4,146.47	1/2	3,815.82	1/2	3,485.17	1/2	3,154.52	1/2	2,823.88	1/2	2,493.20	1/2	2,162.33
3/4		3/4	4,799.52	3/4	4,470.23	3/4	4,139.58	3/4	3,808.93	3/4	3,478.28	3/4	3,147.64	3/4	2,816.99	3/4	2,486.31	3/4	2,155.44

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 252"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,141.65	1/4	1,810.78	1/4	1,479.90	1/4	1,149.03	1/4	827.05	1/4	542.55	1/4	234.52	1/4		1/4		1/4			
1/2	2,134.76	1/2	1,803.88	1/2	1,473.01	1/2	1,142.14	1/2	820.76	1/2	536.29	1/2	227.93	1/2		1/2		1/2			
3/4	2,127.86	3/4	1,796.99	3/4	1,466.12	3/4	1,135.24	3/4	814.48	3/4	530.04	3/4	221.35	3/4		3/4		3/4			
1	2,120.97	1	1,790.10	1	1,459.22	1	1,128.35	1	808.89	1	523.76	1	214.74	1		1		1			
1/4	2,114.08	1/4	1,783.20	1/4	1,452.33	1/4	1,121.46	1/4	803.31	1/4	517.48	1/4	208.13	1/4		1/4		1/4			
1/2	2,107.18	1/2	1,776.31	1/2	1,445.44	1/2	1,114.56	1/2	797.73	1/2	511.20	1/2	201.52	1/2		1/2		1/2			
3/4	2,100.29	3/4	1,769.42	3/4	1,438.54	3/4	1,107.67	3/4	792.15	3/4	504.92	3/4	194.91	3/4		3/4		3/4			
2	2,093.40	2	1,762.52	2	1,431.65	2	1,100.78	2	786.54	2	498.61	2	188.27	2		2		2			
1/4	2,086.50	1/4	1,755.63	1/4	1,424.76	1/4	1,093.88	1/4	780.93	1/4	492.30	1/4	181.63	1/4		1/4		1/4			
1/2	2,079.61	1/2	1,748.74	1/2	1,417.86	1/2	1,086.99	1/2	775.32	1/2	486.00	1/2	174.99	1/2		1/2		1/2			
3/4	2,072.72	3/4	1,741.84	3/4	1,410.97	3/4	1,080.10	3/4	769.71	3/4	479.69	3/4	168.35	3/4		3/4		3/4			
3	2,065.83	3	1,734.95	3	1,404.08	3	1,073.20	3	764.07	3	473.35	3	161.69	3		3		3			
1/4	2,058.93	1/4	1,728.06	1/4	1,397.18	1/4	1,066.31	1/4	758.43	1/4	467.02	1/4	155.02	1/4		1/4		1/4			
1/2	2,052.04	1/2	1,721.17	1/2	1,390.29	1/2	1,059.42	1/2	752.79	1/2	460.68	1/2	148.36	1/2		1/2		1/2			
3/4	2,045.15	3/4	1,714.27	3/4	1,383.40	3/4	1,052.52	3/4	747.15	3/4	454.35	3/4	141.69	3/4		3/4		3/4			
4	2,038.25	4	1,707.38	4	1,376.51	4	1,045.63	4	741.49	4	447.98	4	135.00	4		4		4			
1/4	2,031.36	1/4	1,700.49	1/4	1,369.61	1/4	1,038.74	1/4	735.82	1/4	441.62	1/4	128.31	1/4		1/4		1/4			
1/2	2,024.47	1/2	1,693.59	1/2	1,362.72	1/2	1,031.85	1/2	730.16	1/2	435.26	1/2	121.62	1/2		1/2		1/2			
3/4	2,017.57	3/4	1,686.70	3/4	1,355.83	3/4	1,024.95	3/4	724.49	3/4	428.90	3/4	114.93	3/4		3/4		3/4			
5	2,010.68	5	1,679.81	5	1,348.93	5	1,018.06	5	718.80	5	422.51	5	108.23	5		5		5			
1/4	2,003.79	1/4	1,672.91	1/4	1,342.04	1/4	1,011.17	1/4	713.11	1/4	416.12	1/4	101.53	1/4		1/4		1/4			
1/2	1,996.89	1/2	1,666.02	1/2	1,335.15	1/2	1,004.27	1/2	707.41	1/2	409.73	1/2	94.82	1/2		1/2		1/2			
3/4	1,990.00	3/4	1,659.13	3/4	1,328.25	3/4	997.38	3/4	701.72	3/4	403.34	3/4	88.12	3/4		3/4		3/4			
6	1,983.11	6	1,652.23	6	1,321.36	6	990.58	6	695.90	6	396.92	6	81.57	6		6		6			
1/4	1,976.21	1/4	1,645.34	1/4	1,314.47	1/4	983.77	1/4	690.08	1/4	390.50	1/4	75.02	1/4		1/4		1/4			
1/2	1,969.32	1/2	1,638.45	1/2	1,307.57	1/2	976.97	1/2	684.27	1/2	384.08	1/2	68.47	1/2		1/2		1/2			
3/4	1,962.43	3/4	1,631.55	3/4	1,300.68	3/4	970.17	3/4	678.45	3/4	377.66	3/4	61.92	3/4		3/4		3/4			
7	1,955.53	7	1,624.66	7	1,293.79	7	963.64	7	672.33	7	371.22	7	56.18	7		7		7			
1/4	1,948.64	1/4	1,617.77	1/4	1,286.89	1/4	957.11	1/4	666.22	1/4	364.78	1/4	50.44	1/4		1/4		1/4			
1/2	1,941.75	1/2	1,610.87	1/2	1,280.00	1/2	950.57	1/2	660.10	1/2	358.33	1/2	44.70	1/2		1/2		1/2			
3/4	1,934.85	3/4	1,603.98	3/4	1,273.11	3/4	944.04	3/4	653.99	3/4	351.89	3/4	38.96	3/4		3/4		3/4			
8	1,927.96	8	1,597.09	8	1,266.21	8	937.52	8	647.85	8	345.42	8	34.57	8		8		8			
1/4	1,921.07	1/4	1,590.19	1/4	1,259.32	1/4	930.99	1/4	641.71	1/4	338.95	1/4	30.18	1/4		1/4		1/4			
1/2	1,914.17	1/2	1,583.30	1/2	1,252.43	1/2	924.47	1/2	635.56	1/2	332.48	1/2	25.79	1/2		1/2		1/2			
3/4	1,907.28	3/4	1,576.41	3/4	1,245.53	3/4	917.94	3/4	629.42	3/4	326.01	3/4	21.40	3/4		3/4		3/4			
9	1,900.39	9	1,569.51	9	1,238.64	9	911.41	9	623.25	9	319.51	9		9		9		9			
1/4	1,893.50	1/4	1,562.62	1/4	1,231.75	1/4	904.89	1/4	617.08	1/4	313.01	1/4		1/4		1/4		1/4			
1/2	1,886.60	1/2	1,555.73	1/2	1,224.85	1/2	898.36	1/2	610.91	1/2	306.51	1/2		1/2		1/2		1/2			
3/4	1,879.71	3/4	1,548.84	3/4	1,217.96	3/4	891.84	3/4	604.74	3/4	300.02	3/4		3/4		3/4		3/4			
10	1,872.82	10	1,541.94	10	1,211.07	10	885.31	10	598.54	10	293.49	10		10		10		10			
1/4	1,865.92	1/4	1,535.05	1/4	1,204.18	1/4	878.79	1/4	592.35	1/4	286.96	1/4		1/4		1/4		1/4			
1/2	1,859.03	1/2	1,528.16	1/2	1,197.28	1/2	872.26	1/2	586.15	1/2	280.43	1/2		1/2		1/2		1/2			
3/4	1,852.14	3/4	1,521.26	3/4	1,190.39	3/4	865.73	3/4	579.95	3/4	273.90	3/4		3/4		3/4		3/4			
11	1,845.24	11	1,514.37	11	1,183.50	11	859.21	11	573.73	11	267.35	11		11		11		11			
1/4	1,838.35	1/4	1,507.48	1/4	1,176.60	1/4	852.68	1/4	567.50	1/4	260.79	1/4		1/4		1/4		1/4			
1/2	1,831.46	1/2	1,500.58	1/2	1,169.71	1/2	846.16	1/2	561.28	1/2	254.24	1/2		1/2		1/2		1/2			
3/4	1,824.56	3/4	1,493.69	3/4	1,162.82	3/4	839.63	3/4	555.05	3/4	247.68	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
CALCULATED: 05/17/2013 CL
PRINTED: 05/18/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CTCO 252"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

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	4,346.24	0	4,161.86	0	3,965.20	0	3,763.30	0	3,548.13	0	3,218.83	0	2,889.53	0	2,560.21
1/4		1/4		1/4	4,342.52	1/4	4,157.87	1/4	3,960.99	1/4	3,759.09	1/4	3,541.27	1/4	3,211.97	1/4	2,882.67	1/4	2,553.34
1/2		1/2	4,506.63	1/2	4,338.79	1/2	4,153.88	1/2	3,956.79	1/2	3,754.89	1/2	3,534.40	1/2	3,205.11	1/2	2,875.81	1/2	2,546.48
3/4		3/4	4,504.37	3/4	4,335.06	3/4	4,149.88	3/4	3,952.58	3/4	3,750.68	3/4	3,527.54	3/4	3,198.25	3/4	2,868.95	3/4	2,539.61
1		1	4,502.10	1	4,331.34	1	4,145.89	1	3,948.38	1	3,746.47	1	3,520.68	1	3,191.38	1	2,862.09	1	2,532.75
1/4		1/4	4,499.16	1/4	4,327.59	1/4	4,141.88	1/4	3,944.17	1/4	3,742.27	1/4	3,513.82	1/4	3,184.52	1/4	2,855.23	1/4	2,525.88
1/2		1/2	4,496.21	1/2	4,323.85	1/2	4,137.87	1/2	3,939.96	1/2	3,738.06	1/2	3,506.96	1/2	3,177.66	1/2	2,848.36	1/2	2,519.02
3/4		3/4	4,493.26	3/4	4,320.10	3/4	4,133.85	3/4	3,935.76	3/4	3,733.85	3/4	3,500.10	3/4	3,170.80	3/4	2,841.50	3/4	2,512.15
2		2	4,490.31	2	4,316.36	2	4,129.84	2	3,931.55	2	3,729.65	2	3,493.24	2	3,163.94	2	2,834.64	2	2,505.29
1/4		1/4	4,486.83	1/4	4,312.59	1/4	4,125.81	1/4	3,927.34	1/4	3,725.44	1/4	3,486.38	1/4	3,157.08	1/4	2,827.78	1/4	2,498.42
1/2		1/2	4,483.34	1/2	4,308.83	1/2	4,121.78	1/2	3,923.14	1/2	3,721.24	1/2	3,479.52	1/2	3,150.22	1/2	2,820.92	1/2	2,491.56
3/4		3/4	4,479.86	3/4	4,305.06	3/4	4,117.75	3/4	3,918.93	3/4	3,717.03	3/4	3,472.66	3/4	3,143.36	3/4	2,814.06	3/4	2,484.69
3		3	4,476.38	3	4,301.30	3	4,113.72	3	3,914.73	3	3,712.82	3	3,465.80	3	3,136.50	3	2,807.20	3	2,477.83
1/4		1/4	4,472.87	1/4	4,297.52	1/4	4,109.67	1/4	3,910.52	1/4	3,708.62	1/4	3,458.94	1/4	3,129.64	1/4	2,800.34	1/4	2,470.96
1/2		1/2	4,469.37	1/2	4,293.73	1/2	4,105.62	1/2	3,906.31	1/2	3,704.41	1/2	3,452.08	1/2	3,122.78	1/2	2,793.48	1/2	2,464.10
3/4		3/4	4,465.87	3/4	4,289.95	3/4	4,101.57	3/4	3,902.11	3/4	3,700.20	3/4	3,445.22	3/4	3,115.92	3/4	2,786.62	3/4	2,457.23
4		4	4,462.37	4	4,286.17	4	4,097.52	4	3,897.90	4	3,696.00	4	3,438.36	4	3,109.06	4	2,779.76	4	2,450.37
1/4		1/4	4,458.85	1/4	4,282.36	1/4	4,093.45	1/4	3,893.69	1/4	3,691.79	1/4	3,431.50	1/4	3,102.20	1/4	2,772.90	1/4	2,443.50
1/2		1/2	4,455.33	1/2	4,278.56	1/2	4,089.38	1/2	3,889.49	1/2	3,687.59	1/2	3,424.64	1/2	3,095.34	1/2	2,766.04	1/2	2,436.64
3/4		3/4	4,451.81	3/4	4,274.76	3/4	4,085.31	3/4	3,885.28	3/4	3,683.38	3/4	3,417.78	3/4	3,088.48	3/4	2,759.18	3/4	2,429.77
5		5	4,448.29	5	4,270.96	5	4,081.24	5	3,881.08	5	3,679.17	5	3,410.92	5	3,081.62	5	2,752.32	5	2,422.91
1/4		1/4	4,444.74	1/4	4,267.14	1/4	4,077.16	1/4	3,876.87	1/4	3,674.97	1/4	3,404.06	1/4	3,074.76	1/4	2,745.46	1/4	2,416.04
1/2		1/2	4,441.19	1/2	4,263.32	1/2	4,073.07	1/2	3,872.66	1/2	3,670.76	1/2	3,397.20	1/2	3,067.90	1/2	2,738.60	1/2	2,409.18
3/4		3/4	4,437.64	3/4	4,259.49	3/4	4,068.98	3/4	3,868.46	3/4	3,666.55	3/4	3,390.34	3/4	3,061.04	3/4	2,731.74	3/4	2,402.31
6		6	4,434.08	6	4,255.67	6	4,064.89	6	3,864.25	6	3,662.35	6	3,383.48	6	3,054.18	6	2,724.88	6	2,395.45
1/4		1/4	4,430.47	1/4	4,251.83	1/4	4,060.79	1/4	3,860.04	1/4	3,658.14	1/4	3,376.62	1/4	3,047.32	1/4	2,718.02	1/4	2,388.58
1/2		1/2	4,426.86	1/2	4,247.99	1/2	4,056.68	1/2	3,855.84	1/2	3,653.93	1/2	3,369.76	1/2	3,040.46	1/2	2,711.16	1/2	2,381.72
3/4		3/4	4,423.25	3/4	4,244.15	3/4	4,052.57	3/4	3,851.63	3/4	3,649.73	3/4	3,362.89	3/4	3,033.60	3/4	2,704.30	3/4	2,374.85
7		7	4,419.63	7	4,240.31	7	4,048.46	7	3,847.42	7	3,645.52	7	3,356.03	7	3,026.74	7	2,697.44	7	2,367.99
1/4		1/4	4,416.00	1/4	4,236.45	1/4	4,044.34	1/4	3,843.22	1/4	3,641.32	1/4	3,349.17	1/4	3,019.87	1/4	2,690.58	1/4	2,361.12
1/2		1/2	4,412.37	1/2	4,232.60	1/2	4,040.21	1/2	3,839.01	1/2	3,637.11	1/2	3,342.31	1/2	3,013.01	1/2	2,683.72	1/2	2,354.25
3/4		3/4	4,408.74	3/4	4,228.74	3/4	4,036.09	3/4	3,834.81	3/4	3,632.90	3/4	3,335.45	3/4	3,006.15	3/4	2,676.85	3/4	2,347.39
8		8	4,405.11	8	4,224.88	8	4,031.96	8	3,830.60	8	3,628.70	8	3,328.59	8	2,999.29	8	2,669.99	8	2,340.52
1/4		1/4	4,401.46	1/4	4,220.99	1/4	4,027.82	1/4	3,826.39	1/4	3,624.49	1/4	3,321.73	1/4	2,992.43	1/4	2,663.13	1/4	2,333.66
1/2		1/2	4,397.81	1/2	4,217.10	1/2	4,023.67	1/2	3,822.19	1/2	3,620.28	1/2	3,314.87	1/2	2,985.57	1/2	2,656.27	1/2	2,326.79
3/4		3/4	4,394.15	3/4	4,213.21	3/4	4,019.53	3/4	3,817.98	3/4	3,616.08	3/4	3,308.01	3/4	2,978.71	3/4	2,649.41	3/4	2,319.93
9		9	4,390.50	9	4,209.33	9	4,015.38	9	3,813.77	9	3,611.87	9	3,301.15	9	2,971.85	9	2,642.55	9	2,313.06
1/4		1/4	4,386.83	1/4	4,205.39	1/4	4,011.22	1/4	3,809.57	1/4	3,607.67	1/4	3,294.29	1/4	2,964.99	1/4	2,635.69	1/4	2,306.20
1/2		1/2	4,383.17	1/2	4,201.45	1/2	4,007.06	1/2	3,805.36	1/2	3,603.46	1/2	3,287.43	1/2	2,958.13	1/2	2,628.83	1/2	2,299.33
3/4		3/4	4,379.50	3/4	4,197.52	3/4	4,002.89	3/4	3,801.16	3/4	3,599.25	3/4	3,280.57	3/4	2,951.27	3/4	2,621.97	3/4	2,292.47
10		10	4,375.83	10	4,193.58	10	3,998.73	10	3,796.95	10	3,595.05	10	3,273.71	10	2,944.41	10	2,615.11	10	2,285.60
1/4		1/4	4,372.14	1/4	4,189.63	1/4	3,994.55	1/4	3,792.74	1/4	3,590.31	1/4	3,266.85	1/4	2,937.55	1/4	2,608.25	1/4	2,278.74
1/2		1/2	4,368.45	1/2	4,185.67	1/2	3,990.36	1/2	3,788.54	1/2	3,585.57	1/2	3,259.99	1/2	2,930.69	1/2	2,601.39	1/2	2,271.87
3/4		3/4	4,364.76	3/4	4,181.72	3/4	3,986.18	3/4	3,784.33	3/4	3,580.84	3/4	3,253.13	3/4	2,923.83	3/4	2,594.53	3/4	2,265.01
11		11	4,361.07	11	4,177.76	11	3,982.00	11	3,780.12	11	3,575.57	11	3,246.27	11	2,916.97	11	2,587.67	11	2,258.14
1/4		1/4	4,357.36	1/4	4,173.79	1/4	3,977.80	1/4	3,775.92	1/4	3,568.71	1/4	3,239.41	1/4	2,910.11	1/4	2,580.80	1/4	2,251.28
1/2		1/2	4,353.66	1/2	4,169.81	1/2	3,973.60	1/2	3,771.71	1/2	3,561.85	1/2	3,232.55	1/2	2,903.25	1/2	2,573.94	1/2	2,244.41
3/4		3/4	4,349.95	3/4	4,165.84	3/4	3,969.40	3/4	3,767.50	3/4	3,554.99	3/4	3,225.69	3/4	2,896.39	3/4	2,567.07	3/4	2,237.55

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.

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



BARGE "CTCO 252"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,230.68	0	1,901.27	0	1,571.75	0	1,242.23	0	912.92	0	583.67	0	254.20	0		0		0	
1/4	2,223.82	1/4	1,894.40	1/4	1,564.89	1/4	1,235.37	1/4	906.06	1/4	576.81	1/4	247.33	1/4	1/4	1/4		1/4	
1/2	2,216.95	1/2	1,887.54	1/2	1,558.02	1/2	1,228.50	1/2	899.21	1/2	569.95	1/2	240.47	1/2	1/2	1/2		1/2	
3/4	2,210.09	3/4	1,880.68	3/4	1,551.16	3/4	1,221.64	3/4	892.36	3/4	563.08	3/4	233.60	3/4	3/4	3/4		3/4	
1	2,203.22	1	1,873.81	1	1,544.29	1	1,214.77	1	885.50	1	556.22	1	226.74	1	1	1		1	
1/4	2,196.36	1/4	1,866.95	1/4	1,537.43	1/4	1,207.91	1/4	878.65	1/4	549.35	1/4	219.87	1/4	1/4	1/4		1/4	
1/2	2,189.49	1/2	1,860.08	1/2	1,530.56	1/2	1,201.04	1/2	871.80	1/2	542.49	1/2	213.01	1/2	1/2	1/2		1/2	
3/4	2,182.63	3/4	1,853.22	3/4	1,523.70	3/4	1,194.18	3/4	864.94	3/4	535.62	3/4	206.14	3/4	3/4	3/4		3/4	
2	2,175.76	2	1,846.35	2	1,516.83	2	1,187.31	2	858.09	2	528.76	2	199.28	2	2	2		2	
1/4	2,168.90	1/4	1,839.49	1/4	1,509.97	1/4	1,180.45	1/4	851.24	1/4	521.89	1/4	192.41	1/4	1/4	1/4		1/4	
1/2	2,162.03	1/2	1,832.62	1/2	1,503.10	1/2	1,173.58	1/2	844.38	1/2	515.03	1/2	185.55	1/2	1/2	1/2		1/2	
3/4	2,155.17	3/4	1,825.76	3/4	1,496.24	3/4	1,166.72	3/4	837.53	3/4	508.16	3/4	178.68	3/4	3/4	3/4		3/4	
3	2,148.30	3	1,818.89	3	1,489.37	3	1,159.85	3	830.68	3	501.30	3	171.82	3	3	3		3	
1/4	2,141.44	1/4	1,812.03	1/4	1,482.51	1/4	1,152.99	1/4	823.83	1/4	494.43	1/4	164.95	1/4	1/4	1/4		1/4	
1/2	2,134.57	1/2	1,805.16	1/2	1,475.64	1/2	1,146.12	1/2	816.97	1/2	487.57	1/2	158.09	1/2	1/2	1/2		1/2	
3/4	2,127.71	3/4	1,798.30	3/4	1,468.78	3/4	1,139.26	3/4	810.12	3/4	480.70	3/4	151.23	3/4	3/4	3/4		3/4	
4	2,120.84	4	1,791.43	4	1,461.91	4	1,132.39	4	803.27	4	473.84	4	144.36	4	4	4		4	
1/4	2,113.98	1/4	1,784.57	1/4	1,455.05	1/4	1,125.53	1/4	796.41	1/4	466.97	1/4	137.50	1/4	1/4	1/4		1/4	
1/2	2,107.11	1/2	1,777.70	1/2	1,448.18	1/2	1,118.66	1/2	789.56	1/2	460.11	1/2	130.64	1/2	1/2	1/2		1/2	
3/4	2,100.25	3/4	1,770.84	3/4	1,441.32	3/4	1,111.80	3/4	782.71	3/4	453.25	3/4	123.78	3/4	3/4	3/4		3/4	
5	2,093.38	5	1,763.97	5	1,434.45	5	1,104.93	5	775.85	5	446.38	5	116.92	5	5	5		5	
1/4	2,086.52	1/4	1,757.11	1/4	1,427.59	1/4	1,098.07	1/4	769.00	1/4	439.52	1/4	110.07	1/4	1/4	1/4		1/4	
1/2	2,079.66	1/2	1,750.24	1/2	1,420.72	1/2	1,091.20	1/2	762.14	1/2	432.65	1/2	103.22	1/2	1/2	1/2		1/2	
3/4	2,072.80	3/4	1,743.38	3/4	1,413.86	3/4	1,084.34	3/4	755.28	3/4	425.79	3/4	96.37	3/4	3/4	3/4		3/4	
6	2,065.94	6	1,736.51	6	1,406.99	6	1,077.47	6	748.43	6	418.92	6	89.52	6	6	6		6	
1/4	2,059.08	1/4	1,729.65	1/4	1,400.13	1/4	1,070.61	1/4	741.56	1/4	412.06	1/4	82.86	1/4	1/4	1/4		1/4	
1/2	2,052.22	1/2	1,722.78	1/2	1,393.26	1/2	1,063.74	1/2	734.70	1/2	405.19	1/2	76.19	1/2	1/2	1/2		1/2	
3/4	2,045.36	3/4	1,715.92	3/4	1,386.40	3/4	1,056.88	3/4	727.83	3/4	398.33	3/4	69.53	3/4	3/4	3/4		3/4	
7	2,038.49	7	1,709.05	7	1,379.53	7	1,050.01	7	720.97	7	391.46	7	62.86	7	7	7		7	
1/4	2,031.63	1/4	1,702.19	1/4	1,372.67	1/4	1,043.15	1/4	714.10	1/4	384.60	1/4	57.03	1/4	1/4	1/4		1/4	
1/2	2,024.77	1/2	1,695.32	1/2	1,365.80	1/2	1,036.29	1/2	707.24	1/2	377.74	1/2	51.19	1/2	1/2	1/2		1/2	
3/4	2,017.91	3/4	1,688.46	3/4	1,358.94	3/4	1,029.43	3/4	700.37	3/4	370.87	3/4	45.36	3/4	3/4	3/4		3/4	
8	2,011.05	8	1,681.59	8	1,352.07	8	1,022.57	8	693.51	8	364.01	8	39.53	8	8	8		8	
1/4	2,004.19	1/4	1,674.73	1/4	1,345.21	1/4	1,015.71	1/4	686.65	1/4	357.15	1/4	35.07	1/4	1/4	1/4		1/4	
1/2	1,997.33	1/2	1,667.86	1/2	1,338.34	1/2	1,008.86	1/2	679.78	1/2	350.28	1/2	30.60	1/2	1/2	1/2		1/2	
3/4	1,990.46	3/4	1,661.00	3/4	1,331.48	3/4	1,002.01	3/4	672.92	3/4	343.42	3/4	26.14	3/4	3/4	3/4		3/4	
9	1,983.60	9	1,654.13	9	1,324.61	9	995.15	9	666.05	9	336.56	9	21.74	9	9	9		9	
1/4	1,976.74	1/4	1,647.27	1/4	1,317.75	1/4	988.30	1/4	659.19	1/4	329.70	1/4		1/4	1/4	1/4		1/4	
1/2	1,969.88	1/2	1,640.40	1/2	1,310.88	1/2	981.45	1/2	652.32	1/2	322.84	1/2		1/2	1/2	1/2		1/2	
3/4	1,963.02	3/4	1,633.54	3/4	1,304.02	3/4	974.59	3/4	645.46	3/4	315.98	3/4		3/4	3/4	3/4		3/4	
10	1,956.16	10	1,626.67	10	1,297.15	10	967.74	10	638.59	10	309.11	10		10	10	10		10	
1/4	1,949.30	1/4	1,619.81	1/4	1,290.29	1/4	960.89	1/4	631.73	1/4	302.25	1/4		1/4	1/4	1/4		1/4	
1/2	1,942.44	1/2	1,612.94	1/2	1,283.42	1/2	954.03	1/2	624.86	1/2	295.38	1/2		1/2	1/2	1/2		1/2	
3/4	1,935.57	3/4	1,606.08	3/4	1,276.56	3/4	947.18	3/4	618.00	3/4	288.52	3/4		3/4	3/4	3/4		3/4	
11	1,928.71	11	1,599.21	11	1,269.69	11	940.33	11	611.13	11	281.66	11		11	11	11		11	
1/4	1,921.85	1/4	1,592.35	1/4	1,262.83	1/4	933.48	1/4	604.27	1/4	274.79	1/4		1/4	1/4	1/4		1/4	
1/2	1,914.99	1/2	1,585.48	1/2	1,255.96	1/2	926.62	1/2	597.40	1/2	267.93	1/2		1/2	1/2	1/2		1/2	
3/4	1,908.13	3/4	1,578.62	3/4	1,249.10	3/4	919.77	3/4	590.54	3/4	261.06	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
CALCULATED: 05/17/2013 CL
PRINTED: 05/18/2013 SW

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013



BARGE "CTCO 252"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	4,481.83	0	4,313.99	0	4,129.08	0	3,931.99	0	3,730.09	0	3,509.60	0	3,180.98	0	2,853.30	0	2,524.71
1/4		1/4	4,479.57	1/4	4,310.26	1/4	4,125.08	1/4	3,927.78	1/4	3,725.88	1/4	3,502.74	1/4	3,174.13	1/4	2,846.45	1/4	2,517.86
1/2		1/2	4,477.30	1/2	4,306.54	1/2	4,121.09	1/2	3,923.58	1/2	3,721.67	1/2	3,495.88	1/2	3,167.29	1/2	2,839.61	1/2	2,511.01
3/4		3/4	4,474.36	3/4	4,302.79	3/4	4,117.08	3/4	3,919.37	3/4	3,717.47	3/4	3,489.03	3/4	3,160.44	3/4	2,832.76	3/4	2,504.16
1		1	4,471.41	1	4,299.05	1	4,113.07	1	3,915.16	1	3,713.26	1	3,482.17	1	3,153.60	1	2,825.92	1	2,497.31
1/4		1/4	4,468.46	1/4	4,295.30	1/4	4,109.05	1/4	3,910.96	1/4	3,709.05	1/4	3,475.32	1/4	3,146.75	1/4	2,819.07	1/4	2,490.46
1/2		1/2	4,465.51	1/2	4,291.56	1/2	4,105.04	1/2	3,906.75	1/2	3,704.85	1/2	3,468.46	1/2	3,139.91	1/2	2,812.23	1/2	2,483.62
3/4		3/4	4,462.03	3/4	4,287.79	3/4	4,101.01	3/4	3,902.54	3/4	3,700.64	3/4	3,461.61	3/4	3,133.07	3/4	2,805.38	3/4	2,476.77
2		2	4,458.54	2	4,284.03	2	4,096.98	2	3,898.34	2	3,696.44	2	3,454.77	2	3,126.24	2	2,798.54	2	2,469.92
1/4		1/4	4,455.06	1/4	4,280.26	1/4	4,092.95	1/4	3,894.13	1/4	3,692.23	1/4	3,447.92	1/4	3,119.40	1/4	2,791.69	1/4	2,463.07
1/2		1/2	4,451.58	1/2	4,276.50	1/2	4,088.92	1/2	3,889.93	1/2	3,688.02	1/2	3,441.08	1/2	3,112.56	1/2	2,784.85	1/2	2,456.22
3/4		3/4	4,448.07	3/4	4,272.72	3/4	4,084.87	3/4	3,885.72	3/4	3,683.82	3/4	3,434.24	3/4	3,105.76	3/4	2,778.00	3/4	2,449.37
3		3	4,444.57	3	4,268.93	3	4,080.82	3	3,881.51	3	3,679.61	3	3,427.39	3	3,098.95	3	2,771.16	3	2,442.52
1/4		1/4	4,441.07	1/4	4,265.15	1/4	4,076.77	1/4	3,877.31	1/4	3,675.40	1/4	3,420.55	1/4	3,092.14	1/4	2,764.31	1/4	2,435.67
1/2		1/2	4,437.57	1/2	4,261.37	1/2	4,072.72	1/2	3,873.10	1/2	3,671.20	1/2	3,413.70	1/2	3,085.33	1/2	2,757.47	1/2	2,428.82
3/4		3/4	4,434.05	3/4	4,257.56	3/4	4,068.65	3/4	3,868.89	3/4	3,666.99	3/4	3,406.86	3/4	3,078.52	3/4	2,750.62	3/4	2,421.97
4		4	4,430.53	4	4,253.76	4	4,064.58	4	3,864.69	4	3,662.79	4	3,400.01	4	3,071.71	4	2,743.78	4	2,415.12
1/4		1/4	4,427.01	1/4	4,249.96	1/4	4,060.51	1/4	3,860.48	1/4	3,658.58	1/4	3,393.17	1/4	3,064.90	1/4	2,736.93	1/4	2,408.27
1/2		1/2	4,423.49	1/2	4,246.16	1/2	4,056.44	1/2	3,856.27	1/2	3,654.37	1/2	3,386.32	1/2	3,058.10	1/2	2,730.09	1/2	2,401.42
3/4		3/4	4,419.94	3/4	4,242.34	3/4	4,052.36	3/4	3,852.07	3/4	3,650.17	3/4	3,379.48	3/4	3,051.29	3/4	2,723.24	3/4	2,394.57
5		5	4,416.39	5	4,238.52	5	4,048.27	5	3,847.86	5	3,645.96	5	3,372.63	5	3,044.48	5	2,716.40	5	2,387.72
1/4		1/4	4,412.84	1/4	4,234.69	1/4	4,044.18	1/4	3,843.66	1/4	3,641.75	1/4	3,365.79	1/4	3,037.67	1/4	2,709.56	1/4	2,380.87
1/2		1/2	4,409.28	1/2	4,230.87	1/2	4,040.09	1/2	3,839.45	1/2	3,637.55	1/2	3,358.94	1/2	3,030.86	1/2	2,702.71	1/2	2,374.02
3/4		3/4	4,405.67	3/4	4,227.03	3/4	4,035.99	3/4	3,835.24	3/4	3,633.34	3/4	3,352.10	3/4	3,024.05	3/4	2,695.87	3/4	2,367.18
6		6	4,402.06	6	4,223.19	6	4,031.88	6	3,831.04	6	3,629.13	6	3,345.25	6	3,017.24	6	2,689.02	6	2,360.33
1/4		1/4	4,398.45	1/4	4,219.35	1/4	4,027.77	1/4	3,826.83	1/4	3,624.93	1/4	3,338.41	1/4	3,010.44	1/4	2,682.18	1/4	2,353.48
1/2		1/2	4,394.83	1/2	4,215.51	1/2	4,023.66	1/2	3,822.62	1/2	3,620.72	1/2	3,331.56	1/2	3,003.63	1/2	2,675.33	1/2	2,346.63
3/4		3/4	4,391.20	3/4	4,211.65	3/4	4,019.54	3/4	3,818.42	3/4	3,616.52	3/4	3,324.72	3/4	2,996.82	3/4	2,668.49	3/4	2,339.78
7		7	4,387.57	7	4,207.80	7	4,015.41	7	3,814.21	7	3,612.31	7	3,317.87	7	2,990.01	7	2,661.64	7	2,332.93
1/4		1/4	4,383.94	1/4	4,203.94	1/4	4,011.29	1/4	3,810.01	1/4	3,608.10	1/4	3,311.03	1/4	2,983.20	1/4	2,654.80	1/4	2,326.08
1/2		1/2	4,380.31	1/2	4,200.08	1/2	4,007.16	1/2	3,805.80	1/2	3,603.90	1/2	3,304.18	1/2	2,976.39	1/2	2,647.95	1/2	2,319.23
3/4		3/4	4,376.66	3/4	4,196.19	3/4	4,003.02	3/4	3,801.59	3/4	3,599.69	3/4	3,297.34	3/4	2,969.58	3/4	2,641.11	3/4	2,312.38
8		8	4,373.01	8	4,192.30	8	3,998.87	8	3,797.39	8	3,595.48	8	3,290.49	8	2,962.76	8	2,634.26	8	2,305.53
1/4		1/4	4,369.35	1/4	4,188.41	1/4	3,994.73	1/4	3,793.18	1/4	3,591.28	1/4	3,283.65	1/4	2,955.94	1/4	2,627.42	1/4	2,298.68
1/2		1/2	4,365.70	1/2	4,184.53	1/2	3,990.58	1/2	3,788.97	1/2	3,587.07	1/2	3,276.80	1/2	2,949.12	1/2	2,620.57	1/2	2,291.83
3/4		3/4	4,362.03	3/4	4,180.59	3/4	3,986.42	3/4	3,784.77	3/4	3,582.87	3/4	3,269.96	3/4	2,942.28	3/4	2,613.73	3/4	2,284.98
9		9	4,358.37	9	4,176.65	9	3,982.26	9	3,780.56	9	3,578.66	9	3,263.12	9	2,935.43	9	2,606.88	9	2,278.13
1/4		1/4	4,354.70	1/4	4,172.72	1/4	3,978.09	1/4	3,776.36	1/4	3,574.45	1/4	3,256.27	1/4	2,928.59	1/4	2,600.04	1/4	2,271.28
1/2		1/2	4,351.03	1/2	4,168.78	1/2	3,973.93	1/2	3,772.15	1/2	3,570.25	1/2	3,249.43	1/2	2,921.74	1/2	2,593.19	1/2	2,264.43
3/4		3/4	4,347.34	3/4	4,164.83	3/4	3,969.75	3/4	3,767.94	3/4	3,565.51	3/4	3,242.58	3/4	2,914.90	3/4	2,586.35	3/4	2,257.59
10		10	4,343.65	10	4,160.87	10	3,965.56	10	3,763.74	10	3,560.77	10	3,235.74	10	2,908.05	10	2,579.50	10	2,250.74
1/4		1/4	4,339.96	1/4	4,156.92	1/4	3,961.38	1/4	3,759.53	1/4	3,556.04	1/4	3,228.89	1/4	2,901.21	1/4	2,572.65	1/4	2,243.89
1/2		1/2	4,336.27	1/2	4,152.96	1/2	3,957.20	1/2	3,755.32	1/2	3,550.77	1/2	3,222.05	1/2	2,894.36	1/2	2,565.81	1/2	2,237.04
3/4		3/4	4,332.57	3/4	4,148.99	3/4	3,953.00	3/4	3,751.12	3/4	3,543.91	3/4	3,215.20	3/4	2,887.52	3/4	2,558.96	3/4	2,230.19
11		11	4,328.86	11	4,145.01	11	3,948.80	11	3,746.91	11	3,537.05	11	3,208.36	11	2,880.68	11	2,552.11	11	2,223.34
1/4		1/4	4,325.15	1/4	4,141.04	1/4	3,944.60	1/4	3,742.70	1/4	3,530.19	1/4	3,201.51	1/4	2,873.83	1/4	2,545.26	1/4	2,216.49
1/2		1/2	4,321.44	1/2	4,137.06	1/2	3,940.40	1/2	3,738.50	1/2	3,523.33	1/2	3,194.67	1/2	2,866.99	1/2	2,538.41	1/2	2,209.64
3/4		3/4	4,317.72	3/4	4,133.07	3/4	3,936.19	3/4	3,734.29	3/4	3,516.47	3/4	3,187.82	3/4	2,860.14	3/4	2,531.56	3/4	2,202.79

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCO 252"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,189.09	1/4	1,860.45	1/4	1,531.91	1/4	1,203.37	1/4	883.49	1/4	562.96	1/4	233.68	1/4		1/4		1/4	
1/2	2,182.24	1/2	1,853.61	1/2	1,525.07	1/2	1,196.53	1/2	876.98	1/2	556.10	1/2	226.82	1/2		1/2		1/2	
3/4	2,175.39	3/4	1,846.77	3/4	1,518.22	3/4	1,189.68	3/4	870.47	3/4	549.25	3/4	219.95	3/4		3/4		3/4	
1	2,168.54	1	1,839.92	1	1,511.38	1	1,182.84	1	863.96	1	542.40	1	213.09	1		1		1	
1/4	2,161.69	1/4	1,833.08	1/4	1,504.54	1/4	1,175.99	1/4	857.45	1/4	535.54	1/4	206.22	1/4		1/4		1/4	
1/2	2,154.84	1/2	1,826.23	1/2	1,497.69	1/2	1,169.15	1/2	850.94	1/2	528.69	1/2	199.35	1/2		1/2		1/2	
3/4	2,147.99	3/4	1,819.39	3/4	1,490.85	3/4	1,162.31	3/4	844.43	3/4	521.84	3/4	192.49	3/4		3/4		3/4	
2	2,141.15	2	1,812.54	2	1,484.00	2	1,155.47	2	837.92	2	514.98	2	185.62	2		2		2	
1/4	2,134.30	1/4	1,805.70	1/4	1,477.16	1/4	1,148.63	1/4	831.41	1/4	508.13	1/4	178.76	1/4		1/4		1/4	
1/2	2,127.45	1/2	1,798.85	1/2	1,470.31	1/2	1,141.79	1/2	824.90	1/2	501.28	1/2	171.89	1/2		1/2		1/2	
3/4	2,120.60	3/4	1,792.01	3/4	1,463.47	3/4	1,134.95	3/4	818.39	3/4	494.42	3/4	165.03	3/4		3/4		3/4	
3	2,113.75	3	1,785.16	3	1,456.62	3	1,128.12	3	811.88	3	487.57	3	158.17	3		3		3	
1/4	2,106.90	1/4	1,778.32	1/4	1,449.78	1/4	1,121.29	1/4	805.37	1/4	480.72	1/4	151.30	1/4		1/4		1/4	
1/2	2,100.05	1/2	1,771.47	1/2	1,442.93	1/2	1,114.46	1/2	798.86	1/2	473.86	1/2	144.44	1/2		1/2		1/2	
3/4	2,093.20	3/4	1,764.63	3/4	1,436.09	3/4	1,107.63	3/4	792.35	3/4	467.01	3/4	137.57	3/4		3/4		3/4	
4	2,086.35	4	1,757.79	4	1,429.24	4	1,100.80	4	785.84	4	460.15	4	130.71	4		4		4	
1/4	2,079.50	1/4	1,750.94	1/4	1,422.40	1/4	1,093.97	1/4	779.33	1/4	453.30	1/4	123.85	1/4		1/4		1/4	
1/2	2,072.65	1/2	1,744.10	1/2	1,415.56	1/2	1,087.14	1/2	772.82	1/2	446.44	1/2	116.99	1/2		1/2		1/2	
3/4	2,065.80	3/4	1,737.25	3/4	1,408.71	3/4	1,080.32	3/4	766.31	3/4	439.58	3/4	110.14	3/4		3/4		3/4	
5	2,058.95	5	1,730.41	5	1,401.87	5	1,073.50	5	759.80	5	432.72	5	103.29	5		5		5	
1/4	2,052.11	1/4	1,723.56	1/4	1,395.02	1/4	1,066.68	1/4	753.29	1/4	425.86	1/4	96.44	1/4		1/4		1/4	
1/2	2,045.26	1/2	1,716.72	1/2	1,388.18	1/2	1,059.86	1/2	746.78	1/2	419.00	1/2	89.60	1/2		1/2		1/2	
3/4	2,038.41	3/4	1,709.87	3/4	1,381.33	3/4	1,053.14	3/4	740.20	3/4	412.14	3/4	82.93	3/4		3/4		3/4	
6	2,031.57	6	1,703.03	6	1,374.49	6	1,046.43	6	733.61	6	405.27	6	76.26	6		6		6	
1/4	2,024.72	1/4	1,696.18	1/4	1,367.64	1/4	1,039.71	1/4	727.03	1/4	398.41	1/4	69.60	1/4		1/4		1/4	
1/2	2,017.88	1/2	1,689.34	1/2	1,360.80	1/2	1,033.00	1/2	720.44	1/2	391.54	1/2	62.93	1/2		1/2		1/2	
3/4	2,011.04	3/4	1,682.49	3/4	1,353.95	3/4	1,026.50	3/4	713.62	3/4	384.68	3/4	57.10	3/4		3/4		3/4	
7	2,004.19	7	1,675.65	7	1,347.11	7	1,020.01	7	706.81	7	377.81	7	51.26	7		7		7	
1/4	1,997.35	1/4	1,668.81	1/4	1,340.26	1/4	1,013.51	1/4	699.99	1/4	370.95	1/4	45.43	1/4		1/4		1/4	
1/2	1,990.50	1/2	1,661.96	1/2	1,333.42	1/2	1,007.01	1/2	693.17	1/2	364.09	1/2	39.60	1/2		1/2		1/2	
3/4	1,983.66	3/4	1,655.12	3/4	1,326.58	3/4	1,000.52	3/4	686.32	3/4	357.23	3/4	35.14	3/4		3/4		3/4	
8	1,976.81	8	1,648.27	8	1,319.73	8	994.02	8	679.46	8	350.36	8	30.67	8		8		8	
1/4	1,969.97	1/4	1,641.43	1/4	1,312.89	1/4	987.53	1/4	672.61	1/4	343.50	1/4	26.21	1/4		1/4		1/4	
1/2	1,963.12	1/2	1,634.58	1/2	1,306.04	1/2	981.03	1/2	665.76	1/2	336.64	1/2	21.75	1/2		1/2		1/2	
3/4	1,956.28	3/4	1,627.74	3/4	1,299.20	3/4	974.54	3/4	658.90	3/4	329.78	3/4		3/4		3/4		3/4	
9	1,949.43	9	1,620.89	9	1,292.35	9	968.04	9	652.05	9	322.92	9		9		9		9	
1/4	1,942.59	1/4	1,614.05	1/4	1,285.51	1/4	961.55	1/4	645.20	1/4	316.06	1/4		1/4		1/4		1/4	
1/2	1,935.74	1/2	1,607.20	1/2	1,278.66	1/2	955.05	1/2	638.34	1/2	309.19	1/2		1/2		1/2		1/2	
3/4	1,928.90	3/4	1,600.36	3/4	1,271.82	3/4	948.55	3/4	631.49	3/4	302.33	3/4		3/4		3/4		3/4	
10	1,922.06	10	1,593.51	10	1,264.97	10	942.05	10	624.64	10	295.46	10		10		10		10	
1/4	1,915.21	1/4	1,586.67	1/4	1,258.13	1/4	935.56	1/4	617.78	1/4	288.60	1/4		1/4		1/4		1/4	
1/2	1,908.37	1/2	1,579.83	1/2	1,251.28	1/2	929.06	1/2	610.93	1/2	281.74	1/2		1/2		1/2		1/2	
3/4	1,901.52	3/4	1,572.98	3/4	1,244.44	3/4	922.55	3/4	604.08	3/4	274.87	3/4		3/4		3/4		3/4	
11	1,894.68	11	1,566.14	11	1,237.60	11	916.04	11	597.22	11	268.01	11		11		11		11	
1/4	1,887.83	1/4	1,559.29	1/4	1,230.75	1/4	909.53	1/4	590.37	1/4	261.14	1/4		1/4		1/4		1/4	
1/2	1,880.99	1/2	1,552.45	1/2	1,223.91	1/2	903.02	1/2	583.52	1/2	254.28	1/2		1/2		1/2		1/2	
3/4	1,874.14	3/4	1,545.60	3/4	1,217.06	3/4	896.51	3/4	576.66	3/4	247.41	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
CALCULATED: 05/17/2013 CL
PRINTED: 05/18/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013

PRECISION MEASUREMENT
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