



BARGE "CTCo 317"

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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-03"

September 18, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 317"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	IN	0
1/4		1/4	5,104.17	1/4	4,768.51	1/4	4,427.77	1/4	4,066.43	1/4	3,699.56	1/4	3,332.36	1/4	2,964.90	1/4	2,597.29	1/4	2,229.67		
1/2		1/2	5,098.11	1/2	4,761.66	1/2	4,420.44	1/2	4,058.79	1/2	3,691.92	1/2	3,324.71	1/2	2,957.25	1/2	2,589.63	1/2	2,222.01		
3/4		3/4	5,092.05	3/4	4,754.81	3/4	4,413.12	3/4	4,051.14	3/4	3,684.28	3/4	3,317.06	3/4	2,949.59	3/4	2,581.97	3/4	2,214.35		
1		1	5,084.85	1	4,747.90	1	4,405.75	1	4,043.50	1	3,676.63	1	3,309.40	1	2,941.93	1	2,574.31	1	2,206.69		
1/4		1/4	5,077.65	1/4	4,740.99	1/4	4,398.38	1/4	4,035.86	1/4	3,668.99	1/4	3,301.75	1/4	2,934.27	1/4	2,566.65	1/4	2,199.03		
1/2		1/2	5,070.44	1/2	4,734.09	1/2	4,391.01	1/2	4,028.22	1/2	3,661.35	1/2	3,294.09	1/2	2,926.61	1/2	2,558.99	1/2	2,191.38		
3/4		3/4	5,063.24	3/4	4,727.18	3/4	4,383.64	3/4	4,020.57	3/4	3,653.70	3/4	3,286.44	3/4	2,918.95	3/4	2,551.33	3/4	2,183.72		
2		2	5,055.65	2	4,720.22	2	4,376.24	2	4,012.93	2	3,646.06	2	3,278.78	2	2,911.29	2	2,543.68	2	2,176.06		
1/4		1/4	5,048.07	1/4	4,713.26	1/4	4,368.84	1/4	4,005.29	1/4	3,638.42	1/4	3,271.13	1/4	2,903.64	1/4	2,536.02	1/4	2,168.40		
1/2		1/2	5,040.48	1/2	4,706.30	1/2	4,361.43	1/2	3,997.64	1/2	3,630.77	1/2	3,263.47	1/2	2,895.98	1/2	2,528.36	1/2	2,160.74		
3/4		3/4	5,032.90	3/4	4,699.34	3/4	4,354.03	3/4	3,990.00	3/4	3,623.13	3/4	3,255.82	3/4	2,888.32	3/4	2,520.70	3/4	2,153.08		
3		3	5,025.31	3	4,692.35	3	4,346.59	3	3,982.36	3	3,615.49	3	3,248.16	3	2,880.66	3	2,513.04	3	2,145.42		
1/4		1/4	5,017.73	1/4	4,685.35	1/4	4,339.16	1/4	3,974.71	1/4	3,607.84	1/4	3,240.51	1/4	2,873.00	1/4	2,505.38	1/4	2,137.77		
1/2		1/2	5,010.14	1/2	4,678.35	1/2	4,331.72	1/2	3,967.07	1/2	3,600.20	1/2	3,232.85	1/2	2,865.34	1/2	2,497.72	1/2	2,130.11		
3/4		3/4	5,002.55	3/4	4,671.35	3/4	4,324.28	3/4	3,959.43	3/4	3,592.56	3/4	3,225.20	3/4	2,857.68	3/4	2,490.07	3/4	2,122.45		
4		4	4,994.97	4	4,664.32	4	4,316.81	4	3,951.78	4	3,584.92	4	3,217.54	4	2,850.02	4	2,482.41	4	2,114.79		
1/4		1/4	4,987.38	1/4	4,657.28	1/4	4,309.34	1/4	3,944.14	1/4	3,577.27	1/4	3,209.89	1/4	2,842.37	1/4	2,474.75	1/4	2,107.13		
1/2		1/2	4,979.80	1/2	4,650.25	1/2	4,301.87	1/2	3,936.50	1/2	3,569.63	1/2	3,202.23	1/2	2,834.71	1/2	2,467.09	1/2	2,099.47		
3/4		3/4	4,972.21	3/4	4,643.21	3/4	4,294.40	3/4	3,928.85	3/4	3,561.99	3/4	3,194.58	3/4	2,827.05	3/4	2,459.43	3/4	2,091.81		
5		5	4,965.10	5	4,636.14	5	4,286.89	5	3,921.21	5	3,554.34	5	3,186.93	5	2,819.39	5	2,451.77	5	2,084.15		
1/4		1/4	4,958.00	1/4	4,629.07	1/4	4,279.39	1/4	3,913.57	1/4	3,546.69	1/4	3,179.27	1/4	2,811.73	1/4	2,444.11	1/4	2,076.50		
1/2		1/2	4,950.89	1/2	4,622.00	1/2	4,271.88	1/2	3,905.93	1/2	3,539.04	1/2	3,171.62	1/2	2,804.07	1/2	2,436.45	1/2	2,068.84		
3/4		3/4	4,943.78	3/4	4,614.93	3/4	4,264.37	3/4	3,898.28	3/4	3,531.39	3/4	3,163.96	3/4	2,796.41	3/4	2,428.80	3/4	2,061.18		
6		6	4,937.14	6	4,607.83	6	4,256.82	6	3,890.64	6	3,523.73	6	3,156.31	6	2,788.75	6	2,421.14	6	2,053.52		
1/4		1/4	4,930.49	1/4	4,600.73	1/4	4,249.28	1/4	3,883.00	1/4	3,516.08	1/4	3,148.65	1/4	2,781.10	1/4	2,413.48	1/4	2,045.86		
1/2		1/2	4,923.85	1/2	4,593.62	1/2	4,241.73	1/2	3,875.35	1/2	3,508.42	1/2	3,141.00	1/2	2,773.44	1/2	2,405.82	1/2	2,038.20		
3/4		3/4	4,917.20	3/4	4,586.52	3/4	4,234.18	3/4	3,867.71	3/4	3,500.77	3/4	3,133.34	3/4	2,765.78	3/4	2,398.16	3/4	2,030.54		
7		7	4,910.52	7	4,579.38	7	4,226.60	7	3,860.07	7	3,493.11	7	3,125.69	7	2,758.12	7	2,390.50	7	2,022.88		
1/4		1/4	4,903.85	1/4	4,572.25	1/4	4,219.02	1/4	3,852.42	1/4	3,485.46	1/4	3,118.03	1/4	2,750.46	1/4	2,382.84	1/4	2,015.23		
1/2		1/2	4,897.17	1/2	4,565.11	1/2	4,211.44	1/2	3,844.78	1/2	3,477.80	1/2	3,110.38	1/2	2,742.80	1/2	2,375.18	1/2	2,007.57		
3/4		3/4	4,890.49	3/4	4,557.97	3/4	4,203.86	3/4	3,837.14	3/4	3,470.15	3/4	3,102.72	3/4	2,735.14	3/4	2,367.53	3/4	1,999.91		
8		8	4,883.78	8	4,550.80	8	4,196.25	8	3,829.49	8	3,462.49	8	3,095.07	8	2,727.49	8	2,359.87	8	1,992.25		
1/4		1/4	4,877.06	1/4	4,543.63	1/4	4,188.64	1/4	3,821.85	1/4	3,454.84	1/4	3,087.41	1/4	2,719.83	1/4	2,352.21	1/4	1,984.59		
1/2		1/2	4,870.35	1/2	4,536.46	1/2	4,181.02	1/2	3,814.21	1/2	3,447.19	1/2	3,079.76	1/2	2,712.17	1/2	2,344.55	1/2	1,976.93		
3/4		3/4	4,863.64	3/4	4,529.29	3/4	4,173.41	3/4	3,806.57	3/4	3,439.53	3/4	3,072.10	3/4	2,704.51	3/4	2,336.89	3/4	1,969.27		
9		9	4,856.89	9	4,522.09	9	4,165.77	9	3,798.92	9	3,431.88	9	3,064.45	9	2,696.85	9	2,329.23	9	1,961.62		
1/4		1/4	4,850.13	1/4	4,514.88	1/4	4,158.14	1/4	3,791.28	1/4	3,424.22	1/4	3,056.80	1/4	2,689.19	1/4	2,321.57	1/4	1,953.96		
1/2		1/2	4,843.38	1/2	4,507.68	1/2	4,150.50	1/2	3,783.64	1/2	3,416.57	1/2	3,049.14	1/2	2,681.53	1/2	2,313.92	1/2	1,946.30		
3/4		3/4	4,836.63	3/4	4,500.48	3/4	4,142.86	3/4	3,775.99	3/4	3,408.91	3/4	3,041.49	3/4	2,673.87	3/4	2,306.26	3/4	1,938.64		
10		10	4,829.85	10	4,493.24	10	4,135.22	10	3,768.35	10	3,401.26	10	3,033.83	10	2,666.22	10	2,298.60	10	1,930.98		
1/4		1/4	4,823.06	1/4	4,486.00	1/4	4,127.58	1/4	3,760.71	1/4	3,393.60	1/4	3,026.18	1/4	2,658.56	1/4	2,290.94	1/4	1,923.32		
1/2		1/2	4,816.28	1/2	4,478.76	1/2	4,119.93	1/2	3,753.06	1/2	3,385.95	1/2	3,018.52	1/2	2,650.90	1/2	2,283.28	1/2	1,915.66		
3/4		3/4	4,809.49	3/4	4,471.52	3/4	4,112.29	3/4	3,745.42	3/4	3,378.29	3/4	3,010.87	3/4	2,643.24	3/4	2,275.62	3/4	1,908.00		
11		11	4,802.67	11	4,464.25	11	4,104.65	11	3,737.78	11	3,370.64	11	3,003.21	11	2,635.58	11	2,267.96	11	1,900.35		
1/4		1/4	4,795.85	1/4	4,456.97	1/4	4,097.00	1/4	3,730.13	1/4	3,362.98	1/4	2,995.54	1/4	2,627.92	1/4	2,260.30	1/4	1,892.69		
1/2		1/2	4,789.03	1/2	4,449.69	1/2	4,089.36	1/2	3,722.49	1/2	3,355.33	1/2	2,987.88	1/2	2,620.26	1/2	2,252.65	1/2	1,885.03		
3/4		3/4	4,782.22	3/4	4,442.42	3/4	4,081.72	3/4	3,714.85	3/4	3,347.67	3/4	2,980.22	3/4	2,612.60	3/4	2,244.99	3/4	1,877.37		

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 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "CTCo 317"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,869.71	0	1,502.09	0	1,134.56	0	769.07	0	404.87	0	82.13	0		0		0		0	
1/4	1,862.05	1/4	1,494.43	1/4	1,126.93	1/4	761.41	1/4	397.62	1/4	76.01	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,854.39	1/2	1,486.78	1/2	1,119.31	1/2	753.75	1/2	390.37	1/2	69.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,846.73	3/4	1,479.12	3/4	1,111.68	3/4	746.09	3/4	383.12	3/4	63.76	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,839.08	1	1,471.46	1	1,104.05	1	738.44	1	375.96	1	58.20	1	1	1	1	1	1	1	1
1/4	1,831.42	1/4	1,463.80	1/4	1,096.43	1/4	730.78	1/4	368.80	1/4	52.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,823.76	1/2	1,456.14	1/2	1,088.81	1/2	723.12	1/2	361.64	1/2	47.08	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,816.10	3/4	1,448.48	3/4	1,081.19	3/4	715.46	3/4	354.48	3/4	41.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,808.44	2	1,440.82	2	1,073.57	2	707.80	2	347.42	2	37.03	2	2	2	2	2	2	2	2
1/4	1,800.78	1/4	1,433.16	1/4	1,065.96	1/4	700.14	1/4	340.35	1/4	32.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,793.12	1/2	1,425.51	1/2	1,058.34	1/2	692.48	1/2	333.28	1/2	28.03	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,785.46	3/4	1,417.85	3/4	1,050.73	3/4	684.83	3/4	326.21	3/4	23.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,777.81	3	1,410.19	3	1,043.12	3	677.17	3	319.24	3		3	3	3	3	3	3	3	3
1/4	1,770.15	1/4	1,402.53	1/4	1,035.50	1/4	669.51	1/4	312.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,762.49	1/2	1,394.87	1/2	1,027.89	1/2	661.85	1/2	305.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,754.83	3/4	1,387.21	3/4	1,020.28	3/4	654.19	3/4	298.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,747.17	4	1,379.55	4	1,012.67	4	646.53	4	291.42	4	4	4	4	4	4	4	4	4	4
1/4	1,739.51	1/4	1,371.90	1/4	1,005.06	1/4	638.87	1/4	284.53	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,731.85	1/2	1,364.24	1/2	997.46	1/2	631.22	1/2	277.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,724.20	3/4	1,356.58	3/4	989.85	3/4	623.56	3/4	270.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,716.54	5	1,348.92	5	982.24	5	615.90	5	263.97	5	5	5	5	5	5	5	5	5	5
1/4	1,708.88	1/4	1,341.26	1/4	974.63	1/4	608.24	1/4	257.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,701.22	1/2	1,333.60	1/2	967.03	1/2	600.58	1/2	250.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,693.56	3/4	1,325.94	3/4	959.42	3/4	592.92	3/4	243.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,685.90	6	1,318.28	6	951.81	6	585.27	6	236.88	6	6	6	6	6	6	6	6	6	6
1/4	1,678.24	1/4	1,310.63	1/4	944.20	1/4	577.61	1/4	230.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,670.58	1/2	1,302.97	1/2	936.59	1/2	569.95	1/2	223.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,662.93	3/4	1,295.31	3/4	928.99	3/4	562.29	3/4	216.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,655.27	7	1,287.65	7	921.38	7	554.64	7	210.15	7	7	7	7	7	7	7	7	7	7
1/4	1,647.61	1/4	1,279.99	1/4	913.77	1/4	547.00	1/4	203.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,639.95	1/2	1,272.33	1/2	906.16	1/2	539.35	1/2	196.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,632.29	3/4	1,264.67	3/4	898.56	3/4	531.70	3/4	190.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,624.63	8	1,257.01	8	890.95	8	524.10	8	183.79	8	8	8	8	8	8	8	8	8	8
1/4	1,616.97	1/4	1,249.36	1/4	883.34	1/4	516.50	1/4	177.27	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,609.31	1/2	1,241.70	1/2	875.73	1/2	508.90	1/2	170.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,601.66	3/4	1,234.04	3/4	868.12	3/4	501.29	3/4	164.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,594.00	9	1,226.38	9	860.52	9	493.77	9	157.79	9	9	9	9	9	9	9	9	9	9
1/4	1,586.34	1/4	1,218.72	1/4	852.91	1/4	486.25	1/4	151.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,578.68	1/2	1,211.06	1/2	845.30	1/2	478.73	1/2	144.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,571.02	3/4	1,203.40	3/4	837.69	3/4	471.21	3/4	138.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,563.36	10	1,195.75	10	830.09	10	463.77	10	132.17	10	10	10	10	10	10	10	10	10	10
1/4	1,555.70	1/4	1,188.09	1/4	822.48	1/4	456.34	1/4	125.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,548.05	1/2	1,180.43	1/2	814.87	1/2	448.91	1/2	119.51	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,540.39	3/4	1,172.77	3/4	807.26	3/4	441.48	3/4	113.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,532.73	11	1,165.12	11	799.63	11	434.14	11	106.95	11	11	11	11	11	11	11	11	11	11
1/4	1,525.07	1/4	1,157.48	1/4	791.99	1/4	426.80	1/4	100.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,517.41	1/2	1,149.84	1/2	784.36	1/2	419.46	1/2	94.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,509.75	3/4	1,142.19	3/4	776.73	3/4	412.12	3/4	88.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW
CALCULATED: 09/18/2013 CL
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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



BARGE "CTCo 317"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

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
1/4		1/4		1/4	4,778.57	1/4	4,438.78	1/4	4,078.09	1/4	3,711.22	1/4	3,344.36	1/4	2,977.49	1/4	2,610.43	1/4	2,243.37
1/2		1/2	5,100.51	1/2	4,764.87	1/2	4,424.13	1/2	4,062.80	1/2	3,695.94	1/2	3,329.07	1/2	2,962.19	1/2	2,595.14	1/2	2,228.08
3/4		3/4	5,094.46	3/4	4,758.02	3/4	4,416.81	3/4	4,055.16	3/4	3,688.29	3/4	3,321.43	3/4	2,954.55	3/4	2,587.49	3/4	2,220.43
1	1	1	5,088.40	1	4,751.16	1	4,409.48	1	4,047.51	1	3,680.65	1	3,313.79	1	2,946.90	1	2,579.84	1	2,212.79
1/4		1/4	5,081.20	1/4	4,744.26	1/4	4,402.11	1/4	4,039.87	1/4	3,673.01	1/4	3,306.14	1/4	2,939.25	1/4	2,572.20	1/4	2,205.14
1/2		1/2	5,074.00	1/2	4,737.35	1/2	4,394.74	1/2	4,032.23	1/2	3,665.36	1/2	3,298.50	1/2	2,931.60	1/2	2,564.55	1/2	2,197.49
3/4		3/4	5,066.80	3/4	4,730.45	3/4	4,387.37	3/4	4,024.59	3/4	3,657.72	3/4	3,290.86	3/4	2,923.96	3/4	2,556.90	3/4	2,189.85
2	2	2	5,059.60	2	4,723.54	2	4,380.00	2	4,016.94	2	3,650.08	2	3,283.21	2	2,916.31	2	2,549.25	2	2,182.20
1/4		1/4	5,052.01	1/4	4,716.58	1/4	4,372.60	1/4	4,009.30	1/4	3,642.44	1/4	3,275.57	1/4	2,908.66	1/4	2,541.61	1/4	2,174.55
1/2		1/2	5,044.42	1/2	4,709.62	1/2	4,365.20	1/2	4,001.66	1/2	3,634.79	1/2	3,267.93	1/2	2,901.02	1/2	2,533.96	1/2	2,166.90
3/4		3/4	5,036.84	3/4	4,702.66	3/4	4,357.80	3/4	3,994.01	3/4	3,627.15	3/4	3,260.29	3/4	2,893.37	3/4	2,526.31	3/4	2,159.26
3	3	3	5,029.25	3	4,695.70	3	4,350.39	3	3,986.37	3	3,619.51	3	3,252.64	3	2,885.72	3	2,518.67	3	2,151.61
1/4		1/4	5,021.67	1/4	4,688.70	1/4	4,342.96	1/4	3,978.73	1/4	3,611.86	1/4	3,245.00	1/4	2,878.08	1/4	2,511.02	1/4	2,143.96
1/2		1/2	5,014.08	1/2	4,681.71	1/2	4,335.52	1/2	3,971.08	1/2	3,604.22	1/2	3,237.36	1/2	2,870.43	1/2	2,503.37	1/2	2,136.32
3/4		3/4	5,006.50	3/4	4,674.71	3/4	4,328.08	3/4	3,963.44	3/4	3,596.58	3/4	3,229.71	3/4	2,862.78	3/4	2,495.73	3/4	2,128.67
4	4	4	4,998.91	4	4,667.71	4	4,320.65	4	3,955.80	4	3,588.93	4	3,222.07	4	2,855.13	4	2,488.08	4	2,121.02
1/4		1/4	4,991.33	1/4	4,660.68	1/4	4,313.18	1/4	3,948.16	1/4	3,581.29	1/4	3,214.43	1/4	2,847.49	1/4	2,480.43	1/4	2,113.38
1/2		1/2	4,983.74	1/2	4,653.64	1/2	4,305.71	1/2	3,940.51	1/2	3,573.65	1/2	3,206.78	1/2	2,839.84	1/2	2,472.78	1/2	2,105.73
3/4		3/4	4,976.15	3/4	4,646.60	3/4	4,298.24	3/4	3,932.87	3/4	3,566.01	3/4	3,199.14	3/4	2,832.19	3/4	2,465.14	3/4	2,098.08
5	5	5	4,968.57	5	4,639.57	5	4,290.77	5	3,925.23	5	3,558.36	5	3,191.50	5	2,824.55	5	2,457.49	5	2,090.43
1/4		1/4	4,961.46	1/4	4,632.50	1/4	4,283.26	1/4	3,917.58	1/4	3,550.72	1/4	3,183.86	1/4	2,816.90	1/4	2,449.84	1/4	2,082.79
1/2		1/2	4,954.36	1/2	4,625.43	1/2	4,275.75	1/2	3,909.94	1/2	3,543.08	1/2	3,176.21	1/2	2,809.25	1/2	2,442.20	1/2	2,075.14
3/4		3/4	4,947.25	3/4	4,618.36	3/4	4,268.24	3/4	3,902.30	3/4	3,535.43	3/4	3,168.57	3/4	2,801.61	3/4	2,434.55	3/4	2,067.49
6	6	6	4,940.14	6	4,611.29	6	4,260.73	6	3,894.65	6	3,527.79	6	3,160.93	6	2,793.96	6	2,426.90	6	2,059.85
1/4		1/4	4,933.49	1/4	4,604.19	1/4	4,253.19	1/4	3,887.01	1/4	3,520.15	1/4	3,153.28	1/4	2,786.31	1/4	2,419.26	1/4	2,052.20
1/2		1/2	4,926.85	1/2	4,597.09	1/2	4,245.64	1/2	3,879.37	1/2	3,512.50	1/2	3,145.64	1/2	2,778.66	1/2	2,411.61	1/2	2,044.55
3/4		3/4	4,920.20	3/4	4,589.98	3/4	4,238.09	3/4	3,871.73	3/4	3,504.86	3/4	3,138.00	3/4	2,771.02	3/4	2,403.96	3/4	2,036.91
7	7	7	4,913.56	7	4,582.88	7	4,230.55	7	3,864.08	7	3,497.22	7	3,130.35	7	2,763.37	7	2,396.31	7	2,029.26
1/4		1/4	4,906.88	1/4	4,575.74	1/4	4,222.97	1/4	3,856.44	1/4	3,489.58	1/4	3,122.71	1/4	2,755.72	1/4	2,388.67	1/4	2,021.61
1/2		1/2	4,900.20	1/2	4,568.61	1/2	4,215.39	1/2	3,848.80	1/2	3,481.93	1/2	3,115.07	1/2	2,748.08	1/2	2,381.02	1/2	2,013.96
3/4		3/4	4,893.53	3/4	4,561.47	3/4	4,207.81	3/4	3,841.15	3/4	3,474.29	3/4	3,107.43	3/4	2,740.43	3/4	2,373.37	3/4	2,006.32
8	8	8	4,886.85	8	4,554.33	8	4,200.23	8	3,833.51	8	3,466.65	8	3,099.78	8	2,732.78	8	2,365.73	8	1,998.67
1/4		1/4	4,880.13	1/4	4,547.16	1/4	4,192.61	1/4	3,825.87	1/4	3,459.00	1/4	3,092.14	1/4	2,725.14	1/4	2,358.08	1/4	1,991.02
1/2		1/2	4,873.42	1/2	4,539.99	1/2	4,185.00	1/2	3,818.22	1/2	3,451.36	1/2	3,084.50	1/2	2,717.49	1/2	2,350.43	1/2	1,983.38
3/4		3/4	4,866.71	3/4	4,532.82	3/4	4,177.39	3/4	3,810.58	3/4	3,443.72	3/4	3,076.85	3/4	2,709.84	3/4	2,342.79	3/4	1,975.73
9	9	9	4,859.99	9	4,525.65	9	4,169.77	9	3,802.94	9	3,436.07	9	3,069.21	9	2,702.19	9	2,335.14	9	1,968.08
1/4		1/4	4,853.24	1/4	4,518.45	1/4	4,162.14	1/4	3,795.30	1/4	3,428.43	1/4	3,061.57	1/4	2,694.55	1/4	2,327.49	1/4	1,960.44
1/2		1/2	4,846.49	1/2	4,511.24	1/2	4,154.50	1/2	3,787.65	1/2	3,420.79	1/2	3,053.92	1/2	2,686.90	1/2	2,319.84	1/2	1,952.79
3/4		3/4	4,839.74	3/4	4,504.04	3/4	4,146.87	3/4	3,780.01	3/4	3,413.15	3/4	3,046.28	3/4	2,679.25	3/4	2,312.20	3/4	1,945.14
10	10	10	4,832.99	10	4,496.84	10	4,139.23	10	3,772.37	10	3,405.50	10	3,038.64	10	2,671.61	10	2,304.55	10	1,937.49
1/4		1/4	4,826.20	1/4	4,489.60	1/4	4,131.59	1/4	3,764.72	1/4	3,397.86	1/4	3,031.00	1/4	2,663.96	1/4	2,296.90	1/4	1,929.85
1/2		1/2	4,819.42	1/2	4,482.36	1/2	4,123.94	1/2	3,757.08	1/2	3,390.22	1/2	3,023.35	1/2	2,656.31	1/2	2,289.26	1/2	1,922.20
3/4		3/4	4,812.63	3/4	4,475.12	3/4	4,116.30	3/4	3,749.44	3/4	3,382.57	3/4	3,015.71	3/4	2,648.67	3/4	2,281.61	3/4	1,914.55
11	11	11	4,805.85	11	4,467.88	11	4,108.66	11	3,741.79	11	3,374.93	11	3,008.07	11	2,641.02	11	2,273.96	11	1,906.91
1/4		1/4	4,799.03	1/4	4,460.61	1/4	4,101.02	1/4	3,734.15	1/4	3,367.29	1/4	3,000.42	1/4	2,633.37	1/4	2,266.32	1/4	1,899.26
1/2		1/2	4,792.21	1/2	4,453.33	1/2	4,093.37	1/2	3,726.51	1/2	3,359.64	1/2	2,992.78	1/2	2,625.72	1/2	2,258.67	1/2	1,891.61
3/4		3/4	4,785.39	3/4	4,446.06	3/4	4,085.73	3/4	3,718.87	3/4	3,352.00	3/4	2,985.13	3/4	2,618.08	3/4	2,251.02	3/4	1,883.97

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 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-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 317"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,876.32	0	1,509.26	0	1,142.21	0	775.65	0	411.66	0	88.25	0		0		0		0	
1/4	1,868.67	1/4	1,501.62	1/4	1,134.56	1/4	768.00	1/4	404.42	1/4	82.13	1/4		1/4		1/4		1/4	
1/2	1,861.02	1/2	1,493.97	1/2	1,126.91	1/2	760.35	1/2	397.18	1/2	76.01	1/2		1/2		1/2		1/2	
3/4	1,853.38	3/4	1,486.32	3/4	1,119.27	3/4	752.71	3/4	389.95	3/4	69.88	3/4		3/4		3/4		3/4	
1	1,845.73	1	1,478.67	1	1,111.62	1	745.06	1	382.71	1	63.76	1		1		1		1	
1/4	1,838.08	1/4	1,471.03	1/4	1,103.97	1/4	737.41	1/4	375.56	1/4	58.20	1/4		1/4		1/4		1/4	
1/2	1,830.44	1/2	1,463.38	1/2	1,096.33	1/2	729.77	1/2	368.41	1/2	52.64	1/2		1/2		1/2		1/2	
3/4	1,822.79	3/4	1,455.73	3/4	1,088.69	3/4	722.12	3/4	361.27	3/4	47.08	3/4		3/4		3/4		3/4	
2	1,815.14	2	1,448.09	2	1,081.04	2	714.47	2	354.12	2	41.52	2		2		2		2	
1/4	1,807.50	1/4	1,440.44	1/4	1,073.40	1/4	706.83	1/4	347.06	1/4	37.03	1/4		1/4		1/4		1/4	
1/2	1,799.85	1/2	1,432.79	1/2	1,065.76	1/2	699.18	1/2	340.01	1/2	32.53	1/2		1/2		1/2		1/2	
3/4	1,792.20	3/4	1,425.15	3/4	1,058.12	3/4	691.53	3/4	332.95	3/4	28.03	3/4		3/4		3/4		3/4	
3	1,784.55	3	1,417.50	3	1,050.48	3	683.89	3	325.89	3	23.54	3		3		3		3	
1/4	1,776.91	1/4	1,409.85	1/4	1,042.84	1/4	676.24	1/4	318.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,769.26	1/2	1,402.20	1/2	1,035.21	1/2	668.59	1/2	311.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,761.61	3/4	1,394.56	3/4	1,027.57	3/4	660.95	3/4	305.00	3/4		3/4		3/4		3/4		3/4	
4	1,753.97	4	1,386.91	4	1,019.93	4	653.30	4	298.03	4		4		4		4		4	
1/4	1,746.32	1/4	1,379.26	1/4	1,012.30	1/4	645.65	1/4	291.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,738.67	1/2	1,371.62	1/2	1,004.67	1/2	638.01	1/2	284.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,731.03	3/4	1,363.97	3/4	997.03	3/4	630.36	3/4	277.41	3/4		3/4		3/4		3/4		3/4	
5	1,723.38	5	1,356.32	5	989.40	5	622.71	5	270.53	5		5		5		5		5	
1/4	1,715.73	1/4	1,348.68	1/4	981.77	1/4	615.06	1/4	263.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,708.08	1/2	1,341.03	1/2	974.13	1/2	607.42	1/2	256.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,700.44	3/4	1,333.38	3/4	966.50	3/4	599.77	3/4	250.18	3/4		3/4		3/4		3/4		3/4	
6	1,692.79	6	1,325.73	6	958.87	6	592.12	6	243.40	6		6		6		6		6	
1/4	1,685.14	1/4	1,318.09	1/4	951.24	1/4	584.48	1/4	236.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,677.50	1/2	1,310.44	1/2	943.60	1/2	576.84	1/2	230.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,669.85	3/4	1,302.79	3/4	935.97	3/4	569.20	3/4	223.32	3/4		3/4		3/4		3/4		3/4	
7	1,662.20	7	1,295.15	7	928.34	7	561.55	7	216.63	7		7		7		7		7	
1/4	1,654.56	1/4	1,287.50	1/4	920.70	1/4	553.92	1/4	210.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,646.91	1/2	1,279.85	1/2	913.07	1/2	546.30	1/2	203.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,639.26	3/4	1,272.21	3/4	905.44	3/4	538.67	3/4	196.82	3/4		3/4		3/4		3/4		3/4	
8	1,631.61	8	1,264.56	8	897.80	8	531.04	8	190.22	8		8		8		8		8	
1/4	1,623.97	1/4	1,256.91	1/4	890.17	1/4	523.45	1/4	183.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,616.32	1/2	1,249.26	1/2	882.54	1/2	515.87	1/2	177.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,608.67	3/4	1,241.62	3/4	874.90	3/4	508.28	3/4	170.69	3/4		3/4		3/4		3/4		3/4	
9	1,601.03	9	1,233.97	9	867.27	9	500.70	9	164.18	9		9		9		9		9	
1/4	1,593.38	1/4	1,226.32	1/4	859.64	1/4	493.19	1/4	157.76	1/4		1/4		1/4		1/4		1/4	
1/2	1,585.73	1/2	1,218.68	1/2	852.01	1/2	485.67	1/2	151.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,578.09	3/4	1,211.03	3/4	844.37	3/4	478.16	3/4	144.92	3/4		3/4		3/4		3/4		3/4	
10	1,570.44	10	1,203.38	10	836.74	10	470.65	10	138.50	10		10		10		10		10	
1/4	1,562.79	1/4	1,195.74	1/4	829.11	1/4	463.23	1/4	132.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,555.14	1/2	1,188.09	1/2	821.47	1/2	455.81	1/2	125.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,547.50	3/4	1,180.44	3/4	813.84	3/4	448.39	3/4	119.51	3/4		3/4		3/4		3/4		3/4	
11	1,539.85	11	1,172.79	11	806.21	11	440.97	11	113.18	11		11		11		11		11	
1/4	1,532.20	1/4	1,165.15	1/4	798.57	1/4	433.65	1/4	106.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,524.56	1/2	1,157.50	1/2	790.93	1/2	426.32	1/2	100.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,516.91	3/4	1,149.85	3/4	783.29	3/4	418.99	3/4	94.49	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW
CALCULATED: 09/18/2013 CL
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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



BARGE "CTCo 317"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	4,526.33	0	4,207.04	0	3,868.21	0	3,523.88	0	3,179.56	0	2,835.24	0	2,490.72	0	2,146.20
1/4		1/4	4,834.76	1/4	4,519.90	1/4	4,200.17	1/4	3,861.03	1/4	3,516.71	1/4	3,172.39	1/4	2,828.06	1/4	2,483.54	1/4	2,139.02
1/2		1/2	4,829.08	1/2	4,513.47	1/2	4,193.29	1/2	3,853.86	1/2	3,509.54	1/2	3,165.21	1/2	2,820.88	1/2	2,476.36	1/2	2,131.84
3/4		3/4	4,823.39	3/4	4,507.04	3/4	4,186.42	3/4	3,846.69	3/4	3,502.36	3/4	3,158.04	3/4	2,813.70	3/4	2,469.18	3/4	2,124.66
1		1	4,816.64	1	4,500.56	1	4,179.50	1	3,839.51	1	3,495.19	1	3,150.87	1	2,806.53	1	2,462.01	1	2,117.49
1/4		1/4	4,809.88	1/4	4,494.09	1/4	4,172.59	1/4	3,832.34	1/4	3,488.02	1/4	3,143.69	1/4	2,799.35	1/4	2,454.83	1/4	2,110.31
1/2		1/2	4,803.12	1/2	4,487.61	1/2	4,165.67	1/2	3,825.17	1/2	3,480.84	1/2	3,136.52	1/2	2,792.17	1/2	2,447.65	1/2	2,103.13
3/4		3/4	4,796.36	3/4	4,481.13	3/4	4,158.76	3/4	3,817.99	3/4	3,473.67	3/4	3,129.35	3/4	2,784.99	3/4	2,440.47	3/4	2,095.95
2		2	4,789.25	2	4,474.60	2	4,151.81	2	3,810.82	2	3,466.50	2	3,122.17	2	2,777.82	2	2,433.30	2	2,088.78
1/4		1/4	4,782.13	1/4	4,468.07	1/4	4,144.86	1/4	3,803.64	1/4	3,459.32	1/4	3,115.00	1/4	2,770.64	1/4	2,426.12	1/4	2,081.60
1/2		1/2	4,775.02	1/2	4,461.54	1/2	4,137.91	1/2	3,796.47	1/2	3,452.15	1/2	3,107.83	1/2	2,763.46	1/2	2,418.94	1/2	2,074.42
3/4		3/4	4,767.90	3/4	4,455.00	3/4	4,130.96	3/4	3,789.30	3/4	3,444.97	3/4	3,100.65	3/4	2,756.28	3/4	2,411.76	3/4	2,067.24
3		3	4,760.78	3	4,448.44	3	4,123.98	3	3,782.12	3	3,437.80	3	3,093.48	3	2,749.11	3	2,404.59	3	2,060.07
1/4		1/4	4,753.67	1/4	4,441.87	1/4	4,117.00	1/4	3,774.95	1/4	3,430.63	1/4	3,086.30	1/4	2,741.93	1/4	2,397.41	1/4	2,052.89
1/2		1/2	4,746.55	1/2	4,435.31	1/2	4,110.02	1/2	3,767.78	1/2	3,423.45	1/2	3,079.13	1/2	2,734.75	1/2	2,390.23	1/2	2,045.71
3/4		3/4	4,739.44	3/4	4,428.74	3/4	4,103.04	3/4	3,760.60	3/4	3,416.28	3/4	3,071.96	3/4	2,727.57	3/4	2,383.05	3/4	2,038.53
4		4	4,732.32	4	4,422.14	4	4,096.03	4	3,753.43	4	3,409.11	4	3,064.78	4	2,720.40	4	2,375.88	4	2,031.36
1/4		1/4	4,725.20	1/4	4,415.54	1/4	4,089.02	1/4	3,746.26	1/4	3,401.93	1/4	3,057.61	1/4	2,713.22	1/4	2,368.70	1/4	2,024.18
1/2		1/2	4,718.09	1/2	4,408.93	1/2	4,082.01	1/2	3,739.08	1/2	3,394.76	1/2	3,050.44	1/2	2,706.04	1/2	2,361.52	1/2	2,017.00
3/4		3/4	4,710.97	3/4	4,402.33	3/4	4,075.00	3/4	3,731.91	3/4	3,387.59	3/4	3,043.26	3/4	2,698.86	3/4	2,354.34	3/4	2,009.82
5		5	4,704.30	5	4,395.70	5	4,067.95	5	3,724.74	5	3,380.41	5	3,036.09	5	2,691.69	5	2,347.17	5	2,002.65
1/4		1/4	4,697.64	1/4	4,389.06	1/4	4,060.91	1/4	3,717.56	1/4	3,373.24	1/4	3,028.92	1/4	2,684.51	1/4	2,339.99	1/4	1,995.47
1/2		1/2	4,690.97	1/2	4,382.43	1/2	4,053.86	1/2	3,710.39	1/2	3,366.07	1/2	3,021.74	1/2	2,677.33	1/2	2,332.81	1/2	1,988.29
3/4		3/4	4,684.30	3/4	4,375.80	3/4	4,046.81	3/4	3,703.22	3/4	3,358.89	3/4	3,014.57	3/4	2,670.15	3/4	2,325.63	3/4	1,981.11
6		6	4,678.07	6	4,369.13	6	4,039.73	6	3,696.04	6	3,351.72	6	3,007.40	6	2,662.98	6	2,318.46	6	1,973.94
1/4		1/4	4,671.84	1/4	4,362.47	1/4	4,032.65	1/4	3,688.87	1/4	3,344.55	1/4	3,000.22	1/4	2,655.80	1/4	2,311.28	1/4	1,966.76
1/2		1/2	4,665.60	1/2	4,355.80	1/2	4,025.56	1/2	3,681.70	1/2	3,337.37	1/2	2,993.05	1/2	2,648.62	1/2	2,304.10	1/2	1,959.58
3/4		3/4	4,659.37	3/4	4,349.14	3/4	4,018.48	3/4	3,674.52	3/4	3,330.20	3/4	2,985.88	3/4	2,641.44	3/4	2,296.92	3/4	1,952.40
7		7	4,653.11	7	4,342.44	7	4,011.37	7	3,667.35	7	3,323.03	7	2,978.70	7	2,634.27	7	2,289.75	7	1,945.23
1/4		1/4	4,646.84	1/4	4,335.74	1/4	4,004.25	1/4	3,660.18	1/4	3,315.85	1/4	2,971.53	1/4	2,627.09	1/4	2,282.57	1/4	1,938.05
1/2		1/2	4,640.58	1/2	4,329.05	1/2	3,997.14	1/2	3,653.00	1/2	3,308.68	1/2	2,964.36	1/2	2,619.91	1/2	2,275.39	1/2	1,930.87
3/4		3/4	4,634.31	3/4	4,322.35	3/4	3,990.02	3/4	3,645.83	3/4	3,301.51	3/4	2,957.18	3/4	2,612.73	3/4	2,268.21	3/4	1,923.69
8		8	4,628.02	8	4,315.62	8	3,982.88	8	3,638.66	8	3,294.33	8	2,950.01	8	2,605.56	8	2,261.04	8	1,916.52
1/4		1/4	4,621.72	1/4	4,308.89	1/4	3,975.73	1/4	3,631.48	1/4	3,287.16	1/4	2,942.84	1/4	2,598.38	1/4	2,253.86	1/4	1,909.34
1/2		1/2	4,615.42	1/2	4,302.16	1/2	3,968.59	1/2	3,624.31	1/2	3,279.99	1/2	2,935.66	1/2	2,591.20	1/2	2,246.68	1/2	1,902.16
3/4		3/4	4,609.13	3/4	4,295.44	3/4	3,961.44	3/4	3,617.14	3/4	3,272.81	3/4	2,928.49	3/4	2,584.02	3/4	2,239.50	3/4	1,894.98
9		9	4,602.79	9	4,288.68	9	3,954.27	9	3,609.96	9	3,265.64	9	2,921.32	9	2,576.85	9	2,232.33	9	1,887.81
1/4		1/4	4,596.46	1/4	4,281.92	1/4	3,947.10	1/4	3,602.79	1/4	3,258.47	1/4	2,914.14	1/4	2,569.67	1/4	2,225.15	1/4	1,880.63
1/2		1/2	4,590.13	1/2	4,275.16	1/2	3,939.93	1/2	3,595.62	1/2	3,251.29	1/2	2,906.97	1/2	2,562.49	1/2	2,217.97	1/2	1,873.45
3/4		3/4	4,583.80	3/4	4,268.39	3/4	3,932.77	3/4	3,588.44	3/4	3,244.12	3/4	2,899.80	3/4	2,555.31	3/4	2,210.79	3/4	1,866.27
10		10	4,577.43	10	4,261.60	10	3,925.59	10	3,581.27	10	3,236.95	10	2,892.62	10	2,548.14	10	2,203.62	10	1,859.10
1/4		1/4	4,571.07	1/4	4,254.81	1/4	3,918.42	1/4	3,574.10	1/4	3,229.77	1/4	2,885.45	1/4	2,540.96	1/4	2,196.44	1/4	1,851.92
1/2		1/2	4,564.70	1/2	4,248.02	1/2	3,911.25	1/2	3,566.92	1/2	3,222.60	1/2	2,878.28	1/2	2,533.78	1/2	2,189.26	1/2	1,844.74
3/4		3/4	4,558.34	3/4	4,241.23	3/4	3,904.07	3/4	3,559.75	3/4	3,215.43	3/4	2,871.10	3/4	2,526.60	3/4	2,182.08	3/4	1,837.56
11		11	4,551.94	11	4,234.40	11	3,896.90	11	3,552.58	11	3,208.25	11	2,863.93	11	2,519.43	11	2,174.91	11	1,830.39
1/4		1/4	4,545.55	1/4	4,227.57	1/4	3,889.73	1/4	3,545.40	1/4	3,201.08	1/4	2,856.76	1/4	2,512.25	1/4	2,167.73	1/4	1,823.21
1/2		1/2	4,539.15	1/2	4,220.74	1/2	3,882.55	1/2	3,538.23	1/2	3,193.91	1/2	2,849.59	1/2	2,505.07	1/2	2,160.55	1/2	1,816.03
3/4		3/4	4,532.75	3/4	4,213.92	3/4	3,875.38	3/4	3,531.06	3/4	3,186.73	3/4	2,842.41	3/4	2,497.89	3/4	2,153.37	3/4	1,808.85

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 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 317"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

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	1,801.68	0	1,457.16	0	1,113.48	0	782.49	0	437.98	0	93.53	0		0		0		0	
1/4	1,794.50	1/4	1,449.98	1/4	1,106.59	1/4	775.31	1/4	430.81	1/4	86.37	1/4		1/4		1/4		1/4	
1/2	1,787.32	1/2	1,442.80	1/2	1,099.70	1/2	768.14	1/2	423.63	1/2	79.22	1/2		1/2		1/2		1/2	
3/4	1,780.14	3/4	1,435.62	3/4	1,092.80	3/4	760.96	3/4	416.45	3/4	72.06	3/4		3/4		3/4		3/4	
1	1,772.97	1	1,428.45	1	1,085.91	1	753.78	1	409.28	1	65.35	1		1		1		1	
1/4	1,765.79	1/4	1,421.27	1/4	1,079.03	1/4	746.60	1/4	402.10	1/4	58.64	1/4		1/4		1/4		1/4	
1/2	1,758.61	1/2	1,414.09	1/2	1,072.14	1/2	739.43	1/2	394.92	1/2	51.93	1/2		1/2		1/2		1/2	
3/4	1,751.43	3/4	1,406.91	3/4	1,065.25	3/4	732.25	3/4	387.74	3/4	45.22	3/4		3/4		3/4		3/4	
2	1,744.26	2	1,399.74	2	1,058.37	2	725.07	2	380.57	2	39.84	2		2		2		2	
1/4	1,737.08	1/4	1,392.56	1/4	1,051.49	1/4	717.90	1/4	373.39	1/4	34.46	1/4		1/4		1/4		1/4	
1/2	1,729.90	1/2	1,385.38	1/2	1,044.61	1/2	710.72	1/2	366.21	1/2	29.07	1/2		1/2		1/2		1/2	
3/4	1,722.72	3/4	1,378.20	3/4	1,037.73	3/4	703.54	3/4	359.04	3/4	23.69	3/4		3/4		3/4		3/4	
3	1,715.55	3	1,371.03	3	1,030.85	3	696.36	3	351.86	3		3		3		3		3	
1/4	1,708.37	1/4	1,363.85	1/4	1,023.98	1/4	689.19	1/4	344.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,701.19	1/2	1,356.67	1/2	1,017.10	1/2	682.01	1/2	337.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,694.01	3/4	1,349.49	3/4	1,010.22	3/4	674.83	3/4	330.33	3/4		3/4		3/4		3/4		3/4	
4	1,686.84	4	1,342.32	4	1,003.35	4	667.66	4	323.15	4		4		4		4		4	
1/4	1,679.66	1/4	1,335.14	1/4	996.48	1/4	660.48	1/4	315.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,672.48	1/2	1,327.96	1/2	989.60	1/2	653.30	1/2	308.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,665.30	3/4	1,320.78	3/4	982.73	3/4	646.12	3/4	301.62	3/4		3/4		3/4		3/4		3/4	
5	1,658.13	5	1,313.61	5	975.86	5	638.95	5	294.44	5		5		5		5		5	
1/4	1,650.95	1/4	1,306.43	1/4	968.98	1/4	631.77	1/4	287.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,643.77	1/2	1,299.25	1/2	962.11	1/2	624.59	1/2	280.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,636.59	3/4	1,292.07	3/4	955.24	3/4	617.41	3/4	272.91	3/4		3/4		3/4		3/4		3/4	
6	1,629.42	6	1,284.90	6	948.36	6	610.24	6	265.73	6		6		6		6		6	
1/4	1,622.24	1/4	1,277.72	1/4	941.49	1/4	603.06	1/4	258.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,615.06	1/2	1,270.54	1/2	934.62	1/2	595.88	1/2	251.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,607.88	3/4	1,263.36	3/4	927.74	3/4	588.71	3/4	244.20	3/4		3/4		3/4		3/4		3/4	
7	1,600.71	7	1,256.19	7	920.87	7	581.53	7	237.02	7		7		7		7		7	
1/4	1,593.53	1/4	1,249.01	1/4	914.00	1/4	574.35	1/4	229.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,586.35	1/2	1,241.83	1/2	907.12	1/2	567.17	1/2	222.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,579.17	3/4	1,234.65	3/4	900.25	3/4	560.00	3/4	215.49	3/4		3/4		3/4		3/4		3/4	
8	1,572.00	8	1,227.48	8	893.38	8	552.82	8	208.31	8		8		8		8		8	
1/4	1,564.82	1/4	1,220.30	1/4	886.50	1/4	545.64	1/4	201.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,557.64	1/2	1,213.12	1/2	879.63	1/2	538.47	1/2	193.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,550.46	3/4	1,205.94	3/4	872.76	3/4	531.29	3/4	186.78	3/4		3/4		3/4		3/4		3/4	
9	1,543.29	9	1,198.77	9	865.88	9	524.11	9	179.61	9		9		9		9		9	
1/4	1,536.11	1/4	1,191.59	1/4	859.01	1/4	516.93	1/4	172.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,528.93	1/2	1,184.41	1/2	852.14	1/2	509.76	1/2	165.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,521.75	3/4	1,177.23	3/4	845.26	3/4	502.58	3/4	158.07	3/4		3/4		3/4		3/4		3/4	
10	1,514.58	10	1,170.06	10	838.39	10	495.40	10	150.90	10		10		10		10		10	
1/4	1,507.40	1/4	1,162.88	1/4	831.52	1/4	488.23	1/4	143.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,500.22	1/2	1,155.70	1/2	824.64	1/2	481.05	1/2	136.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,493.04	3/4	1,148.52	3/4	817.77	3/4	473.87	3/4	129.37	3/4		3/4		3/4		3/4		3/4	
11	1,485.87	11	1,141.49	11	810.74	11	466.69	11	122.20	11		11		11		11		11	
1/4	1,478.69	1/4	1,134.45	1/4	803.72	1/4	459.52	1/4	115.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,471.51	1/2	1,127.42	1/2	796.69	1/2	452.34	1/2	107.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,464.33	3/4	1,120.38	3/4	789.67	3/4	445.16	3/4	100.68	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW
CALCULATED: 09/18/2013 CL
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CTCo 317"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/4"

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	4,553.06	0	4,234.66	0	3,896.47	0	3,552.14	0	3,207.82	0	2,863.50	0	2,518.99	0	2,174.47		
1/4	1/4	1/4	1/4	1/4	4,546.67	1/4	4,227.83	1/4	3,889.29	1/4	3,544.97	1/4	3,200.65	1/4	2,856.33	1/4	2,511.81	1/4	2,167.29		
1/2	1/2	1/2	1/2	1/2	4,540.24	1/2	4,220.96	1/2	3,882.12	1/2	3,537.80	1/2	3,193.47	1/2	2,849.15	1/2	2,504.63	1/2	2,160.11		
3/4	3/4	3/4	3/4	3/4	4,848.67	3/4	4,533.81	3/4	4,214.08	3/4	3,874.95	3/4	3,530.62	3/4	3,186.30	3/4	2,841.97	3/4	2,497.45	3/4	2,152.93
1		1		1	4,842.99	1	4,527.39	1	4,207.21	1	3,867.77	1	3,523.45	1	3,179.13	1	2,834.80	1	2,490.28	1	2,145.76
1/4	1/4	1/4	1/4	1/4	4,837.31	1/4	4,520.96	1/4	4,200.33	1/4	3,860.60	1/4	3,516.28	1/4	3,171.95	1/4	2,827.62	1/4	2,483.10	1/4	2,138.58
1/2	1/2	1/2	1/2	1/2	4,830.55	1/2	4,514.48	1/2	4,193.42	1/2	3,853.43	1/2	3,509.10	1/2	3,164.78	1/2	2,820.44	1/2	2,475.92	1/2	2,131.40
3/4	3/4	3/4	3/4	3/4	4,823.79	3/4	4,508.00	3/4	4,186.50	3/4	3,846.25	3/4	3,501.93	3/4	3,157.61	3/4	2,813.26	3/4	2,468.74	3/4	2,124.22
2		2		2	4,817.04	2	4,501.52	2	4,179.59	2	3,839.08	2	3,494.76	2	3,150.43	2	2,806.09	2	2,461.57	2	2,117.05
1/4	1/4	1/4	1/4	1/4	4,810.28	1/4	4,495.04	1/4	4,172.67	1/4	3,831.91	1/4	3,487.58	1/4	3,143.26	1/4	2,798.91	1/4	2,454.39	1/4	2,109.87
1/2	1/2	1/2	1/2	1/2	4,803.16	1/2	4,488.51	1/2	4,165.72	1/2	3,824.73	1/2	3,480.41	1/2	3,136.09	1/2	2,791.73	1/2	2,447.21	1/2	2,102.69
3/4	3/4	3/4	3/4	3/4	4,796.05	3/4	4,481.98	3/4	4,158.77	3/4	3,817.56	3/4	3,473.24	3/4	3,128.91	3/4	2,784.55	3/4	2,440.03	3/4	2,095.51
3		3		3	4,788.93	3	4,475.45	3	4,151.83	3	3,810.39	3	3,466.06	3	3,121.74	3	2,777.38	3	2,432.86	3	2,088.34
1/4	1/4	1/4	1/4	1/4	4,781.81	1/4	4,468.92	1/4	4,144.88	1/4	3,803.21	1/4	3,458.89	1/4	3,114.57	1/4	2,770.20	1/4	2,425.68	1/4	2,081.16
1/2	1/2	1/2	1/2	1/2	4,774.70	1/2	4,462.35	1/2	4,137.90	1/2	3,796.04	1/2	3,451.72	1/2	3,107.39	1/2	2,763.02	1/2	2,418.50	1/2	2,073.98
3/4	3/4	3/4	3/4	3/4	4,767.58	3/4	4,455.79	3/4	4,130.92	3/4	3,788.87	3/4	3,444.54	3/4	3,100.22	3/4	2,755.84	3/4	2,411.32	3/4	2,066.80
4		4		4	4,760.47	4	4,449.22	4	4,123.94	4	3,781.69	4	3,437.37	4	3,093.05	4	2,748.67	4	2,404.15	4	2,059.63
1/4	1/4	1/4	1/4	1/4	4,753.35	1/4	4,442.65	1/4	4,116.96	1/4	3,774.52	1/4	3,430.20	1/4	3,085.87	1/4	2,741.49	1/4	2,396.97	1/4	2,052.45
1/2	1/2	1/2	1/2	1/2	4,746.23	1/2	4,436.05	1/2	4,109.95	1/2	3,767.35	1/2	3,423.02	1/2	3,078.70	1/2	2,734.31	1/2	2,389.79	1/2	2,045.27
3/4	3/4	3/4	3/4	3/4	4,739.12	3/4	4,429.45	3/4	4,102.94	3/4	3,760.17	3/4	3,415.85	3/4	3,071.53	3/4	2,727.13	3/4	2,382.61	3/4	2,038.09
5		5		5	4,732.00	5	4,422.85	5	4,095.92	5	3,753.00	5	3,408.68	5	3,064.35	5	2,719.96	5	2,375.44	5	2,030.92
1/4	1/4	1/4	1/4	1/4	4,724.89	1/4	4,416.25	1/4	4,088.91	1/4	3,745.83	1/4	3,401.50	1/4	3,057.18	1/4	2,712.78	1/4	2,368.26	1/4	2,023.74
1/2	1/2	1/2	1/2	1/2	4,718.22	1/2	4,409.61	1/2	4,081.87	1/2	3,738.65	1/2	3,394.33	1/2	3,050.01	1/2	2,705.60	1/2	2,361.08	1/2	2,016.56
3/4	3/4	3/4	3/4	3/4	4,711.55	3/4	4,402.98	3/4	4,074.82	3/4	3,731.48	3/4	3,387.16	3/4	3,042.83	3/4	2,698.42	3/4	2,353.90	3/4	2,009.38
6		6		6	4,704.88	6	4,396.34	6	4,067.77	6	3,724.31	6	3,379.98	6	3,035.66	6	2,691.25	6	2,346.73	6	2,002.21
1/4	1/4	1/4	1/4	1/4	4,698.22	1/4	4,389.71	1/4	4,060.73	1/4	3,717.13	1/4	3,372.81	1/4	3,028.49	1/4	2,684.07	1/4	2,339.55	1/4	1,995.03
1/2	1/2	1/2	1/2	1/2	4,691.98	1/2	4,383.05	1/2	4,053.64	1/2	3,709.96	1/2	3,365.64	1/2	3,021.31	1/2	2,676.89	1/2	2,332.37	1/2	1,987.85
3/4	3/4	3/4	3/4	3/4	4,685.75	3/4	4,376.38	3/4	4,046.56	3/4	3,702.78	3/4	3,358.46	3/4	3,014.14	3/4	2,669.71	3/4	2,325.19	3/4	1,980.67
7		7		7	4,679.52	7	4,369.72	7	4,039.48	7	3,695.61	7	3,351.29	7	3,006.97	7	2,662.54	7	2,318.02	7	1,973.50
1/4	1/4	1/4	1/4	1/4	4,673.28	1/4	4,363.05	1/4	4,032.39	1/4	3,688.44	1/4	3,344.11	1/4	2,999.79	1/4	2,655.36	1/4	2,310.84	1/4	1,966.32
1/2	1/2	1/2	1/2	1/2	4,667.02	1/2	4,356.35	1/2	4,025.28	1/2	3,681.26	1/2	3,336.94	1/2	2,992.62	1/2	2,648.18	1/2	2,303.66	1/2	1,959.14
3/4	3/4	3/4	3/4	3/4	4,660.76	3/4	4,349.66	3/4	4,018.17	3/4	3,674.09	3/4	3,329.77	3/4	2,985.44	3/4	2,641.00	3/4	2,296.48	3/4	1,951.96
8		8		8	4,654.49	8	4,342.96	8	4,011.05	8	3,666.92	8	3,322.59	8	2,978.27	8	2,633.83	8	2,289.31	8	1,944.79
1/4	1/4	1/4	1/4	1/4	4,648.23	1/4	4,336.26	1/4	4,003.94	1/4	3,659.74	1/4	3,315.42	1/4	2,971.10	1/4	2,626.65	1/4	2,282.13	1/4	1,937.61
1/2	1/2	1/2	1/2	1/2	4,641.93	1/2	4,329.53	1/2	3,996.79	1/2	3,652.57	1/2	3,308.25	1/2	2,963.92	1/2	2,619.47	1/2	2,274.95	1/2	1,930.43
3/4	3/4	3/4	3/4	3/4	4,635.63	3/4	4,322.81	3/4	3,989.65	3/4	3,645.40	3/4	3,301.07	3/4	2,956.75	3/4	2,612.29	3/4	2,267.77	3/4	1,923.25
9		9		9	4,629.34	9	4,316.08	9	3,982.50	9	3,638.22	9	3,293.90	9	2,949.58	9	2,605.12	9	2,260.60	9	1,916.08
1/4	1/4	1/4	1/4	1/4	4,623.04	1/4	4,309.35	1/4	3,975.35	1/4	3,631.05	1/4	3,286.73	1/4	2,942.40	1/4	2,597.94	1/4	2,253.42	1/4	1,908.90
1/2	1/2	1/2	1/2	1/2	4,616.71	1/2	4,302.59	1/2	3,968.19	1/2	3,623.88	1/2	3,279.55	1/2	2,935.23	1/2	2,590.76	1/2	2,246.24	1/2	1,901.72
3/4	3/4	3/4	3/4	3/4	4,610.38	3/4	4,295.83	3/4	3,961.02	3/4	3,616.70	3/4	3,272.38	3/4	2,928.06	3/4	2,583.58	3/4	2,239.06	3/4	1,894.54
10		10		10	4,604.04	10	4,289.07	10	3,953.85	10	3,609.53	10	3,265.21	10	2,920.88	10	2,576.41	10	2,231.89	10	1,887.37
1/4	1/4	1/4	1/4	1/4	4,597.71	1/4	4,282.31	1/4	3,946.68	1/4	3,602.36	1/4	3,258.03	1/4	2,913.71	1/4	2,569.23	1/4	2,224.71	1/4	1,880.19
1/2	1/2	1/2	1/2	1/2	4,591.35	1/2	4,275.52	1/2	3,939.51	1/2	3,595.18	1/2	3,250.86	1/2	2,906.54	1/2	2,562.05	1/2	2,217.53	1/2	1,873.01
3/4	3/4	3/4	3/4	3/4	4,584.98	3/4	4,268.73	3/4	3,932.33	3/4	3,588.01	3/4	3,243.69	3/4	2,899.36	3/4	2,554.87	3/4	2,210.35	3/4	1,865.83
11		11		11	4,578.62	11	4,261.93	11	3,925.16	11	3,580.84	11	3,236.51	11	2,892.19	11	2,547.70	11	2,203.18	11	1,858.66
1/4	1/4	1/4	1/4	1/4	4,572.25	1/4	4,255.14	1/4	3,917.99	1/4	3,573.66	1/4	3,229.34	1/4	2,885.02	1/4	2,540.52	1/4	2,196.00	1/4	1,851.48
1/2	1/2	1/2	1/2	1/2	4,565.86	1/2	4,248.31	1/2	3,910.81	1/2	3,566.49	1/2	3,222.17	1/2	2,877.84	1/2	2,533.34	1/2	2,188.82	1/2	1,844.30
3/4	3/4	3/4	3/4	3/4	4,559.46	3/4	4,241.49	3/4	3,903.64	3/4	3,559.32	3/4	3,214.99	3/4	2,870.67	3/4	2,526.16	3/4	2,181.64	3/4	1,837.12

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 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "CTCo 317"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,829.95	0	1,485.43	0	1,140.91	0	796.84	0	452.34	0	107.85	0		0		0		0	
1/4	1,822.77	1/4	1,478.25	1/4	1,133.73	1/4	789.67	1/4	445.16	1/4	100.68	1/4		1/4		1/4		1/4	
1/2	1,815.59	1/2	1,471.07	1/2	1,126.55	1/2	782.49	1/2	437.98	1/2	93.53	1/2		1/2		1/2		1/2	
3/4	1,808.41	3/4	1,463.89	3/4	1,119.37	3/4	775.31	3/4	430.81	3/4	86.37	3/4		3/4		3/4		3/4	
1	1,801.24	1	1,456.72	1	1,112.20	1	768.14	1	423.63	1	79.22	1		1		1		1	
1/4	1,794.06	1/4	1,449.54	1/4	1,105.02	1/4	760.96	1/4	416.45	1/4	72.06	1/4		1/4		1/4		1/4	
1/2	1,786.88	1/2	1,442.36	1/2	1,097.84	1/2	753.78	1/2	409.28	1/2	65.35	1/2		1/2		1/2		1/2	
3/4	1,779.70	3/4	1,435.18	3/4	1,090.67	3/4	746.60	3/4	402.10	3/4	58.64	3/4		3/4		3/4		3/4	
2	1,772.53	2	1,428.01	2	1,083.49	2	739.43	2	394.92	2	51.93	2		2		2		2	
1/4	1,765.35	1/4	1,420.83	1/4	1,076.32	1/4	732.25	1/4	387.74	1/4	45.22	1/4		1/4		1/4		1/4	
1/2	1,758.17	1/2	1,413.65	1/2	1,069.15	1/2	725.07	1/2	380.57	1/2	39.84	1/2		1/2		1/2		1/2	
3/4	1,750.99	3/4	1,406.47	3/4	1,061.98	3/4	717.90	3/4	373.39	3/4	34.46	3/4		3/4		3/4		3/4	
3	1,743.82	3	1,399.30	3	1,054.80	3	710.72	3	366.21	3	29.07	3		3		3		3	
1/4	1,736.64	1/4	1,392.12	1/4	1,047.63	1/4	703.54	1/4	359.04	1/4	23.69	1/4		1/4		1/4		1/4	
1/2	1,729.46	1/2	1,384.94	1/2	1,040.46	1/2	696.36	1/2	351.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,722.28	3/4	1,377.76	3/4	1,033.30	3/4	689.19	3/4	344.68	3/4		3/4		3/4		3/4		3/4	
4	1,715.11	4	1,370.59	4	1,026.13	4	682.01	4	337.50	4		4		4		4		4	
1/4	1,707.93	1/4	1,363.41	1/4	1,018.96	1/4	674.83	1/4	330.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.75	1/2	1,356.23	1/2	1,011.79	1/2	667.66	1/2	323.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,693.57	3/4	1,349.05	3/4	1,004.63	3/4	660.48	3/4	315.97	3/4		3/4		3/4		3/4		3/4	
5	1,686.40	5	1,341.88	5	997.47	5	653.30	5	308.80	5		5		5		5		5	
1/4	1,679.22	1/4	1,334.70	1/4	990.30	1/4	646.12	1/4	301.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,672.04	1/2	1,327.52	1/2	983.14	1/2	638.95	1/2	294.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,664.86	3/4	1,320.34	3/4	975.97	3/4	631.77	3/4	287.26	3/4		3/4		3/4		3/4		3/4	
6	1,657.69	6	1,313.17	6	968.81	6	624.59	6	280.09	6		6		6		6		6	
1/4	1,650.51	1/4	1,305.99	1/4	961.64	1/4	617.41	1/4	272.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,643.33	1/2	1,298.81	1/2	954.48	1/2	610.24	1/2	265.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,636.15	3/4	1,291.63	3/4	947.31	3/4	603.06	3/4	258.55	3/4		3/4		3/4		3/4		3/4	
7	1,628.98	7	1,284.46	7	940.15	7	595.88	7	251.38	7		7		7		7		7	
1/4	1,621.80	1/4	1,277.28	1/4	932.99	1/4	588.71	1/4	244.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,614.62	1/2	1,270.10	1/2	925.82	1/2	581.53	1/2	237.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,607.44	3/4	1,262.92	3/4	918.66	3/4	574.35	3/4	229.85	3/4		3/4		3/4		3/4		3/4	
8	1,600.27	8	1,255.75	8	911.49	8	567.17	8	222.67	8		8		8		8		8	
1/4	1,593.09	1/4	1,248.57	1/4	904.33	1/4	560.00	1/4	215.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,585.91	1/2	1,241.39	1/2	897.16	1/2	552.82	1/2	208.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,578.73	3/4	1,234.21	3/4	890.00	3/4	545.64	3/4	201.14	3/4		3/4		3/4		3/4		3/4	
9	1,571.56	9	1,227.04	9	882.83	9	538.47	9	193.96	9		9		9		9		9	
1/4	1,564.38	1/4	1,219.86	1/4	875.67	1/4	531.29	1/4	186.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,557.20	1/2	1,212.68	1/2	868.50	1/2	524.11	1/2	179.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,550.02	3/4	1,205.50	3/4	861.34	3/4	516.93	3/4	172.43	3/4		3/4		3/4		3/4		3/4	
10	1,542.85	10	1,198.33	10	854.18	10	509.76	10	165.25	10		10		10		10		10	
1/4	1,535.67	1/4	1,191.15	1/4	847.01	1/4	502.58	1/4	158.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,528.49	1/2	1,183.97	1/2	839.85	1/2	495.40	1/2	150.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,521.31	3/4	1,176.79	3/4	832.68	3/4	488.23	3/4	143.72	3/4		3/4		3/4		3/4		3/4	
11	1,514.14	11	1,169.62	11	825.52	11	481.05	11	136.54	11		11		11		11		11	
1/4	1,506.96	1/4	1,162.44	1/4	818.35	1/4	473.87	1/4	129.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,499.78	1/2	1,155.26	1/2	811.18	1/2	466.69	1/2	122.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,492.60	3/4	1,148.08	3/4	804.01	3/4	459.52	3/4	115.02	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW
CALCULATED: 09/18/2013 CL
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

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



BARGE "CTCo 317"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	IN	0
			4,656.84		4,427.69		4,193.63		3,945.45		3,693.46		3,353.64		2,990.00		2,626.12		2,263.41		
1/4	1/4	1/2	4,653.15	1/2	4,422.99	1/2	4,188.60	1/2	3,940.20	1/2	3,688.21	1/2	3,346.08	1/2	2,982.42	1/2	2,618.53	1/2	2,255.89		
3/4	3/4	1	4,649.46	3/4	4,418.28	3/4	4,183.57	3/4	3,934.95	3/4	3,682.96	3/4	3,338.52	3/4	2,974.84	3/4	2,610.95	3/4	2,248.36		
1	1	1	4,644.63	1	4,413.54	1	4,178.51	1	3,929.70	1	3,677.71	1	3,330.96	1	2,967.26	1	2,603.36	1	2,240.84		
1/4	1/4	1/2	4,639.80	1/2	4,408.79	1/2	4,173.45	1/2	3,924.45	1/2	3,672.46	1/2	3,323.39	1/2	2,959.68	1/2	2,595.77	1/2	2,233.31		
1/2	1/2	3/4	4,634.97	3/4	4,404.05	3/4	4,168.39	3/4	3,919.20	3/4	3,667.21	3/4	3,315.82	3/4	2,952.10	3/4	2,588.19	3/4	2,225.79		
3/4	3/4	1	4,630.14	1	4,399.30	1	4,163.32	1	3,913.95	1	3,661.96	1	3,308.26	1	2,944.52	1	2,580.60	1	2,218.26		
2	2	2	4,624.93	2	4,394.52	2	4,158.24	2	3,908.70	2	3,656.13	2	3,300.68	2	2,936.94	2	2,573.01	2	2,210.74		
1/4	1/4	1/2	4,619.72	1/2	4,389.74	1/2	4,153.16	1/2	3,903.45	1/2	3,650.29	1/2	3,293.10	1/2	2,929.35	1/2	2,565.42	1/2	2,203.21		
1/2	1/2	3/4	4,614.51	3/4	4,384.96	3/4	4,148.07	3/4	3,898.20	3/4	3,644.45	3/4	3,285.52	3/4	2,921.77	3/4	2,557.84	3/4	2,195.69		
3/4	3/4	1	4,609.30	1	4,380.18	1	4,142.99	1	3,892.95	1	3,638.62	1	3,277.95	1	2,914.19	1	2,550.25	1	2,188.17		
3	3	3	4,604.09	3	4,375.37	3	4,137.88	3	3,887.70	3	3,631.62	3	3,270.37	3	2,906.61	3	2,542.68	3	2,180.64		
1/4	1/4	1/2	4,598.88	1/2	4,370.57	1/2	4,132.77	1/2	3,882.45	1/2	3,624.63	1/2	3,262.79	1/2	2,899.03	1/2	2,535.11	1/2	2,173.12		
1/2	1/2	3/4	4,593.67	3/4	4,365.76	3/4	4,127.66	3/4	3,877.20	3/4	3,617.63	3/4	3,255.21	3/4	2,891.45	3/4	2,527.54	3/4	2,165.59		
3/4	3/4	1	4,588.46	1	4,360.95	1	4,122.55	1	3,871.95	1	3,610.63	1	3,247.64	1	2,883.87	1	2,519.98	1	2,158.07		
4	4	4	4,583.25	4	4,356.12	4	4,117.42	4	3,866.70	4	3,603.06	4	3,240.06	4	2,876.29	4	2,512.43	4	2,150.54		
1/4	1/4	1/2	4,578.04	1/2	4,351.29	1/2	4,112.29	1/2	3,861.45	1/2	3,595.50	1/2	3,232.48	1/2	2,868.71	1/2	2,504.88	1/2	2,143.02		
1/2	1/2	3/4	4,572.83	3/4	4,346.46	3/4	4,107.16	3/4	3,856.20	3/4	3,587.93	3/4	3,224.90	3/4	2,861.13	3/4	2,497.33	3/4	2,135.49		
3/4	3/4	1	4,567.62	1	4,341.62	1	4,102.03	1	3,850.95	1	3,580.36	1	3,217.33	1	2,853.55	1	2,489.78	1	2,127.97		
5	5	5	4,562.73	5	4,336.77	5	4,096.87	5	3,845.70	5	3,572.80	5	3,209.75	5	2,845.97	5	2,482.23	5	2,120.44		
1/4	1/4	1/2	4,557.85	1/2	4,331.91	1/2	4,091.72	1/2	3,840.45	1/2	3,565.24	1/2	3,202.17	1/2	2,838.39	1/2	2,474.68	1/2	2,112.92		
1/2	1/2	3/4	4,552.97	3/4	4,327.05	3/4	4,086.56	3/4	3,835.20	3/4	3,557.67	3/4	3,194.59	3/4	2,830.81	3/4	2,467.13	3/4	2,105.40		
3/4	3/4	1	4,548.09	1	4,322.20	1	4,081.40	1	3,829.95	1	3,550.11	1	3,187.02	1	2,823.23	1	2,459.58	1	2,097.87		
6	6	6	4,543.52	6	4,317.32	6	4,076.22	6	3,824.71	6	3,542.55	6	3,179.44	6	2,815.65	6	2,452.04	6	2,090.35		
1/4	1/4	1/2	4,538.96	1/2	4,312.44	1/2	4,071.03	1/2	3,819.46	1/2	3,535.00	1/2	3,171.86	1/2	2,808.07	1/2	2,444.49	1/2	2,082.82		
1/2	1/2	3/4	4,534.39	3/4	4,307.56	3/4	4,065.85	3/4	3,814.21	3/4	3,527.44	3/4	3,164.29	3/4	2,800.49	3/4	2,436.94	3/4	2,075.30		
3/4	3/4	1	4,529.83	1	4,302.68	1	4,060.67	1	3,808.96	1	3,519.88	1	3,156.71	1	2,792.91	1	2,429.39	1	2,067.77		
7	7	7	4,525.24	7	4,297.78	7	4,055.46	7	3,803.71	7	3,512.33	7	3,149.13	7	2,785.33	7	2,421.84	7	2,060.25		
1/4	1/4	1/2	4,520.66	1/2	4,292.88	1/2	4,050.26	1/2	3,798.46	1/2	3,504.77	1/2	3,141.55	1/2	2,777.75	1/2	2,414.29	1/2	2,052.72		
1/2	1/2	3/4	4,516.07	3/4	4,287.97	3/4	4,045.05	3/4	3,793.21	3/4	3,497.21	3/4	3,133.98	3/4	2,770.17	3/4	2,406.74	3/4	2,045.20		
3/4	3/4	1	4,511.48	1	4,283.07	1	4,039.84	1	3,787.96	1	3,489.66	1	3,126.40	1	2,762.59	1	2,399.19	1	2,037.68		
8	8	8	4,506.87	8	4,278.15	8	4,034.61	8	3,782.71	8	3,482.10	8	3,118.82	8	2,755.01	8	2,391.64	8	2,030.15		
1/4	1/4	1/2	4,502.26	1/2	4,273.22	1/2	4,029.38	1/2	3,777.46	1/2	3,474.54	1/2	3,111.24	1/2	2,747.43	1/2	2,384.10	1/2	2,022.63		
1/2	1/2	3/4	4,497.65	3/4	4,268.30	3/4	4,024.15	3/4	3,772.21	3/4	3,466.99	3/4	3,103.67	3/4	2,739.85	3/4	2,376.55	3/4	2,015.10		
3/4	3/4	1	4,493.04	1	4,263.37	1	4,018.93	1	3,766.96	1	3,459.43	1	3,096.09	1	2,732.27	1	2,369.00	1	2,007.58		
9	9	9	4,488.40	9	4,258.42	9	4,013.68	9	3,761.71	9	3,451.87	9	3,088.51	9	2,724.69	9	2,361.45	9	2,000.05		
1/4	1/4	1/2	4,483.76	1/2	4,253.47	1/2	4,008.44	1/2	3,756.46	1/2	3,444.32	1/2	3,080.93	1/2	2,717.11	1/2	2,353.90	1/2	1,992.53		
1/2	1/2	3/4	4,479.12	3/4	4,248.52	3/4	4,003.19	3/4	3,751.21	3/4	3,436.76	3/4	3,073.36	3/4	2,709.53	3/4	2,346.35	3/4	1,985.00		
3/4	3/4	1	4,474.49	1	4,243.58	1	3,997.95	1	3,745.96	1	3,429.20	1	3,065.78	1	2,701.95	1	2,338.80	1	1,977.48		
10	10	10	4,469.83	10	4,238.60	10	3,992.70	10	3,740.71	10	3,421.65	10	3,058.20	10	2,694.37	10	2,331.25	10	1,969.95		
1/4	1/4	1/2	4,465.16	1/2	4,233.63	1/2	3,987.45	1/2	3,735.46	1/2	3,414.09	1/2	3,050.62	1/2	2,686.79	1/2	2,323.70	1/2	1,962.43		
1/2	1/2	3/4	4,460.50	3/4	4,228.66	3/4	3,982.20	3/4	3,730.21	3/4	3,406.53	3/4	3,043.05	3/4	2,679.21	3/4	2,316.16	3/4	1,954.91		
3/4	3/4	1	4,455.84	1	4,223.69	1	3,976.95	1	3,724.96	1	3,398.98	1	3,035.47	1	2,671.63	1	2,308.61	1	1,947.38		
11	11	11	4,451.16	11	4,218.69	11	3,971.70	11	3,719.71	11	3,391.42	11	3,027.89	11	2,664.05	11	2,301.07	11	1,939.82		
1/4	1/4	1/2	4,446.48	1/2	4,213.69	1/2	3,966.45	1/2	3,714.46	1/2	3,383.86	1/2	3,020.31	1/2	2,656.46	1/2	2,293.53	1/2	1,932.27		
1/2	1/2	3/4	4,441.79	3/4	4,208.69	3/4	3,961.20	3/4	3,709.21	3/4	3,376.31	3/4	3,012.73	3/4	2,648.88	3/4	2,286.00	3/4	1,924.71		
3/4	3/4	1	4,437.11	1	4,203.70	1	3,955.95	1	3,703.96	1	3,368.75	1	3,005.16	1	2,641.30	1	2,278.46	1	1,917.15		

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 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 317"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

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	1,909.57	0	1,545.37	0	1,181.81	0	827.78	0	463.39	0	99.05	0		0		0		0	
1/4	1,901.98	1/4	1,537.78	1/4	1,174.43	1/4	820.19	1/4	455.80	1/4	91.47	1/4		1/4		1/4		1/4	
1/2	1,894.39	1/2	1,530.20	1/2	1,167.05	1/2	812.60	1/2	448.21	1/2	83.90	1/2		1/2		1/2		1/2	
3/4	1,886.81	3/4	1,522.61	3/4	1,159.68	3/4	805.01	3/4	440.62	3/4	76.32	3/4		3/4		3/4		3/4	
1	1,879.22	1	1,515.02	1	1,152.31	1	797.42	1	433.03	1	69.21	1		1		1		1	
1/4	1,871.63	1/4	1,507.44	1/4	1,144.93	1/4	789.83	1/4	425.44	1/4	62.10	1/4		1/4		1/4		1/4	
1/2	1,864.04	1/2	1,499.85	1/2	1,137.56	1/2	782.23	1/2	417.85	1/2	54.99	1/2		1/2		1/2		1/2	
3/4	1,856.46	3/4	1,492.26	3/4	1,130.19	3/4	774.64	3/4	410.26	3/4	47.88	3/4		3/4		3/4		3/4	
2	1,848.87	2	1,484.67	2	1,122.83	2	767.05	2	402.67	2	42.18	2		2		2		2	
1/4	1,841.28	1/4	1,477.09	1/4	1,115.46	1/4	759.46	1/4	395.08	1/4	36.48	1/4		1/4		1/4		1/4	
1/2	1,833.69	1/2	1,469.50	1/2	1,108.10	1/2	751.87	1/2	387.49	1/2	30.78	1/2		1/2		1/2		1/2	
3/4	1,826.11	3/4	1,461.91	3/4	1,100.73	3/4	744.28	3/4	379.90	3/4	25.08	3/4		3/4		3/4		3/4	
3	1,818.52	3	1,454.32	3	1,093.37	3	736.69	3	372.31	3		3		3		3		3	
1/4	1,810.93	1/4	1,446.74	1/4	1,086.01	1/4	729.09	1/4	364.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,803.34	1/2	1,439.15	1/2	1,078.65	1/2	721.50	1/2	357.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,795.76	3/4	1,431.56	3/4	1,071.29	3/4	713.91	3/4	349.54	3/4		3/4		3/4		3/4		3/4	
4	1,788.17	4	1,423.97	4	1,063.93	4	706.32	4	341.95	4		4		4		4		4	
1/4	1,780.58	1/4	1,416.39	1/4	1,056.57	1/4	698.73	1/4	334.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,772.99	1/2	1,408.80	1/2	1,049.21	1/2	691.14	1/2	326.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,765.41	3/4	1,401.21	3/4	1,041.86	3/4	683.54	3/4	319.18	3/4		3/4		3/4		3/4		3/4	
5	1,757.82	5	1,393.62	5	1,034.50	5	675.95	5	311.59	5		5		5		5		5	
1/4	1,750.23	1/4	1,386.04	1/4	1,027.14	1/4	668.36	1/4	304.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,742.64	1/2	1,378.45	1/2	1,019.78	1/2	660.77	1/2	296.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,735.06	3/4	1,370.86	3/4	1,012.43	3/4	653.18	3/4	288.82	3/4		3/4		3/4		3/4		3/4	
6	1,727.47	6	1,363.27	6	1,005.07	6	645.59	6	281.22	6		6		6		6		6	
1/4	1,719.88	1/4	1,355.69	1/4	997.71	1/4	637.99	1/4	273.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,712.29	1/2	1,348.10	1/2	990.35	1/2	630.40	1/2	266.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.71	3/4	1,340.51	3/4	983.00	3/4	622.81	3/4	258.45	3/4		3/4		3/4		3/4		3/4	
7	1,697.12	7	1,332.92	7	975.64	7	615.22	7	250.86	7		7		7		7		7	
1/4	1,689.53	1/4	1,325.34	1/4	968.28	1/4	607.63	1/4	243.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,681.95	1/2	1,317.75	1/2	960.92	1/2	600.04	1/2	235.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,674.36	3/4	1,310.16	3/4	953.57	3/4	592.44	3/4	228.09	3/4		3/4		3/4		3/4		3/4	
8	1,666.77	8	1,302.58	8	946.21	8	584.85	8	220.50	8		8		8		8		8	
1/4	1,659.18	1/4	1,294.99	1/4	938.85	1/4	577.26	1/4	212.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,651.60	1/2	1,287.40	1/2	931.49	1/2	569.67	1/2	205.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,644.01	3/4	1,279.81	3/4	924.14	3/4	562.08	3/4	197.72	3/4		3/4		3/4		3/4		3/4	
9	1,636.42	9	1,272.23	9	916.78	9	554.49	9	190.13	9		9		9		9		9	
1/4	1,628.83	1/4	1,264.64	1/4	909.42	1/4	546.90	1/4	182.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,621.25	1/2	1,257.05	1/2	902.06	1/2	539.30	1/2	174.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,613.66	3/4	1,249.46	3/4	894.70	3/4	531.71	3/4	167.36	3/4		3/4		3/4		3/4		3/4	
10	1,606.07	10	1,241.88	10	887.35	10	524.12	10	159.76	10		10		10		10		10	
1/4	1,598.48	1/4	1,234.29	1/4	879.99	1/4	516.53	1/4	152.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,590.90	1/2	1,226.70	1/2	872.63	1/2	508.94	1/2	144.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,583.31	3/4	1,219.11	3/4	865.27	3/4	501.35	3/4	136.99	3/4		3/4		3/4		3/4		3/4	
11	1,575.72	11	1,211.63	11	857.80	11	493.75	11	129.40	11		11		11		11		11	
1/4	1,568.13	1/4	1,204.15	1/4	850.33	1/4	486.16	1/4	121.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,560.55	1/2	1,196.67	1/2	842.85	1/2	478.57	1/2	114.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,552.96	3/4	1,189.18	3/4	835.38	3/4	470.98	3/4	106.63	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW
CALCULATED: 09/18/2013 CL
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "CTCo 317"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

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
			4,678.36		4,449.22		4,215.17		3,967.00		3,715.03		3,374.72		3,010.29		2,645.64		2,280.67		
1/4	1/4	1/4	4,674.67	1/4	4,444.51	1/4	4,210.14	1/4	3,961.75	1/4	3,709.78	1/4	3,367.14	1/4	3,002.69	1/4	2,638.04	1/4	2,273.06		
1/2	1/2	1/2	4,670.98	1/2	4,439.81	1/2	4,205.11	1/2	3,956.50	1/2	3,704.53	1/2	3,359.57	1/2	2,995.10	1/2	2,630.43	1/2	2,265.46		
3/4	3/4	3/4	4,666.15	3/4	4,435.06	3/4	4,200.05	3/4	3,951.26	3/4	3,699.28	3/4	3,351.99	3/4	2,987.50	3/4	2,622.83	3/4	2,257.86		
1	1	1	4,661.32	1	4,430.32	1	4,194.99	1	3,946.01	1	3,694.03	1	3,344.40	1	2,979.90	1	2,615.22	1	2,250.25		
1/4	1/4	1/4	4,656.49	1/4	4,425.57	1/4	4,189.93	1/4	3,940.76	1/4	3,688.79	1/4	3,336.82	1/4	2,972.31	1/4	2,607.62	1/4	2,242.65		
1/2	1/2	1/2	4,651.65	1/2	4,420.83	1/2	4,184.87	1/2	3,935.51	1/2	3,683.54	1/2	3,329.23	1/2	2,964.71	1/2	2,600.02	1/2	2,235.04		
3/4	3/4	3/4	4,646.44	3/4	4,416.05	3/4	4,179.78	3/4	3,930.26	3/4	3,677.70	3/4	3,321.64	3/4	2,957.12	3/4	2,592.41	3/4	2,227.44		
2	2	2	4,641.23	2	4,411.27	2	4,174.70	2	3,925.01	2	3,671.86	2	3,314.05	2	2,949.52	2	2,584.81	2	2,219.84		
1/4	1/4	1/4	4,636.02	1/4	4,406.49	1/4	4,169.61	1/4	3,919.76	1/4	3,666.03	1/4	3,306.45	1/4	2,941.92	1/4	2,577.21	1/4	2,212.23		
1/2	1/2	1/2	4,630.81	1/2	4,401.71	1/2	4,164.53	1/2	3,914.51	1/2	3,660.19	1/2	3,298.86	1/2	2,934.33	1/2	2,569.60	1/2	2,204.63		
3/4	3/4	3/4	4,625.60	3/4	4,396.90	3/4	4,159.42	3/4	3,909.26	3/4	3,653.19	3/4	3,291.27	3/4	2,926.73	3/4	2,562.00	3/4	2,197.03		
3	3	3	4,620.39	3	4,392.10	3	4,154.31	3	3,904.01	3	3,646.19	3	3,283.67	3	2,919.13	3	2,554.40	3	2,189.42		
1/4	1/4	1/4	4,615.18	1/4	4,387.29	1/4	4,149.21	1/4	3,898.76	1/4	3,639.19	1/4	3,276.08	1/4	2,911.54	1/4	2,546.79	1/4	2,181.82		
1/2	1/2	1/2	4,609.97	1/2	4,382.48	1/2	4,144.10	1/2	3,893.51	1/2	3,632.19	1/2	3,268.49	1/2	2,903.94	1/2	2,539.19	1/2	2,174.22		
3/4	3/4	3/4	4,604.76	3/4	4,377.65	3/4	4,138.97	3/4	3,888.26	3/4	3,624.62	3/4	3,260.89	3/4	2,896.35	3/4	2,531.58	3/4	2,166.61		
4	4	4	4,599.55	4	4,372.82	4	4,133.84	4	3,883.01	4	3,617.05	4	3,253.30	4	2,888.75	4	2,523.98	4	2,159.01		
1/4	1/4	1/4	4,594.34	1/4	4,367.99	1/4	4,128.71	1/4	3,877.76	1/4	3,609.48	1/4	3,245.71	1/4	2,881.15	1/4	2,516.38	1/4	2,151.40		
1/2	1/2	1/2	4,589.13	1/2	4,363.15	1/2	4,123.58	1/2	3,872.51	1/2	3,601.90	1/2	3,238.11	1/2	2,873.56	1/2	2,508.77	1/2	2,143.80		
3/4	3/4	3/4	4,584.25	3/4	4,358.30	3/4	4,118.42	3/4	3,867.26	3/4	3,594.33	3/4	3,230.52	3/4	2,865.96	3/4	2,501.17	3/4	2,136.20		
5	5	5	4,579.37	5	4,353.44	5	4,113.26	5	3,862.02	5	3,586.76	5	3,222.92	5	2,858.36	5	2,493.57	5	2,128.59		
1/4	1/4	1/4	4,574.49	1/4	4,348.59	1/4	4,108.11	1/4	3,856.77	1/4	3,579.18	1/4	3,215.33	1/4	2,850.77	1/4	2,485.96	1/4	2,120.99		
1/2	1/2	1/2	4,569.60	1/2	4,343.73	1/2	4,102.95	1/2	3,851.52	1/2	3,571.61	1/2	3,207.74	1/2	2,843.17	1/2	2,478.36	1/2	2,113.39		
3/4	3/4	3/4	4,565.04	3/4	4,338.85	3/4	4,097.77	3/4	3,846.27	3/4	3,564.04	3/4	3,200.14	3/4	2,835.58	3/4	2,470.76	3/4	2,105.78		
6	6	6	4,560.48	6	4,333.97	6	4,092.58	6	3,841.02	6	3,556.47	6	3,192.55	6	2,827.98	6	2,463.15	6	2,098.18		
1/4	1/4	1/4	4,555.91	1/4	4,329.09	1/4	4,087.40	1/4	3,835.77	1/4	3,548.89	1/4	3,184.96	1/4	2,820.38	1/4	2,455.55	1/4	2,090.58		
1/2	1/2	1/2	4,551.35	1/2	4,324.22	1/2	4,082.22	1/2	3,830.52	1/2	3,541.32	1/2	3,177.36	1/2	2,812.79	1/2	2,447.95	1/2	2,082.97		
3/4	3/4	3/4	4,546.76	3/4	4,319.31	3/4	4,077.01	3/4	3,825.27	3/4	3,533.75	3/4	3,169.77	3/4	2,805.19	3/4	2,440.34	3/4	2,075.37		
7	7	7	4,542.17	7	4,314.41	7	4,071.81	7	3,820.02	7	3,526.17	7	3,162.18	7	2,797.59	7	2,432.74	7	2,067.77		
1/4	1/4	1/4	4,537.59	1/4	4,309.51	1/4	4,066.60	1/4	3,814.77	1/4	3,518.60	1/4	3,154.58	1/4	2,790.00	1/4	2,425.13	1/4	2,060.16		
1/2	1/2	1/2	4,533.00	1/2	4,304.61	1/2	4,061.39	1/2	3,809.52	1/2	3,511.03	1/2	3,146.99	1/2	2,782.40	1/2	2,417.53	1/2	2,052.56		
3/4	3/4	3/4	4,528.39	3/4	4,299.68	3/4	4,056.16	3/4	3,804.27	3/4	3,503.46	3/4	3,139.39	3/4	2,774.80	3/4	2,409.93	3/4	2,044.95		
8	8	8	4,523.78	8	4,294.76	8	4,050.93	8	3,799.02	8	3,495.88	8	3,131.80	8	2,767.21	8	2,402.32	8	2,037.35		
1/4	1/4	1/4	4,519.17	1/4	4,289.83	1/4	4,045.71	1/4	3,793.77	1/4	3,488.31	1/4	3,124.21	1/4	2,759.61	1/4	2,394.72	1/4	2,029.75		
1/2	1/2	1/2	4,514.56	1/2	4,284.91	1/2	4,040.48	1/2	3,788.52	1/2	3,480.74	1/2	3,116.61	1/2	2,752.02	1/2	2,387.12	1/2	2,022.14		
3/4	3/4	3/4	4,509.92	3/4	4,279.96	3/4	4,035.23	3/4	3,783.27	3/4	3,473.16	3/4	3,109.02	3/4	2,744.42	3/4	2,379.51	3/4	2,014.54		
9	9	9	4,505.28	9	4,275.01	9	4,029.99	9	3,778.02	9	3,465.59	9	3,101.43	9	2,736.82	9	2,371.91	9	2,006.94		
1/4	1/4	1/4	4,500.64	1/4	4,270.06	1/4	4,024.74	1/4	3,772.78	1/4	3,458.02	1/4	3,093.83	1/4	2,729.23	1/4	2,364.31	1/4	1,999.33		
1/2	1/2	1/2	4,496.01	1/2	4,265.11	1/2	4,019.50	1/2	3,767.53	1/2	3,450.45	1/2	3,086.24	1/2	2,721.63	1/2	2,356.70	1/2	1,991.73		
3/4	3/4	3/4	4,491.35	3/4	4,260.14	3/4	4,014.25	3/4	3,762.28	3/4	3,442.87	3/4	3,078.65	3/4	2,714.03	3/4	2,349.10	3/4	1,984.13		
10	10	10	4,486.69	10	4,255.17	10	4,009.00	10	3,757.03	10	3,435.30	10	3,071.05	10	2,706.44	10	2,341.49	10	1,976.52		
1/4	1/4	1/4	4,482.03	1/4	4,250.20	1/4	4,003.75	1/4	3,751.78	1/4	3,427.73	1/4	3,063.46	1/4	2,698.84	1/4	2,333.89	1/4	1,968.92		
1/2	1/2	1/2	4,477.37	1/2	4,245.23	1/2	3,998.50	1/2	3,746.53	1/2	3,420.15	1/2	3,055.87	1/2	2,691.25	1/2	2,326.29	1/2	1,961.31		
3/4	3/4	3/4	4,472.68	3/4	4,240.23	3/4	3,993.25	3/4	3,741.28	3/4	3,412.58	3/4	3,048.27	3/4	2,683.65	3/4	2,318.68	3/4	1,953.71		
11	11	11	4,468.00	11	4,235.23	11	3,988.00	11	3,736.03	11	3,405.01	11	3,040.67	11	2,676.05	11	2,311.08	11	1,946.11		
1/4	1/4	1/4	4,463.32	1/4	4,230.23	1/4	3,982.75	1/4	3,730.78	1/4	3,397.43	1/4	3,033.08	1/4	2,668.45	1/4	2,303.48	1/4	1,938.50		
1/2	1/2	1/2	4,458.63	1/2	4,225.24	1/2	3,977.50	1/2	3,725.53	1/2	3,389.86	1/2	3,025.48	1/2	2,660.85	1/2	2,295.87	1/2	1,930.90		
3/4	3/4	3/4	4,453.93	3/4	4,220.21	3/4	3,972.25	3/4	3,720.28	3/4	3,382.29	3/4	3,017.89	3/4	2,653.24	3/4	2,288.27	3/4	1,923.30		

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 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 317"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,915.69	0	1,550.72	0	1,185.75	0	821.32	0	456.36	0	91.48	0		0		0		0	
1/4	1,908.09	1/4	1,543.12	1/4	1,178.14	1/4	813.72	1/4	448.76	1/4	83.90	1/4		1/4		1/4		1/4	
1/2	1,900.49	1/2	1,535.51	1/2	1,170.54	1/2	806.12	1/2	441.16	1/2	76.32	1/2		1/2		1/2		1/2	
3/4	1,892.88	3/4	1,527.91	3/4	1,162.94	3/4	798.51	3/4	433.55	3/4	69.21	3/4		3/4		3/4		3/4	
1	1,885.28	1	1,520.31	1	1,155.34	1	790.91	1	425.95	1	62.10	1		1		1		1	
1/4	1,877.68	1/4	1,512.70	1/4	1,147.74	1/4	783.31	1/4	418.35	1/4	54.99	1/4		1/4		1/4		1/4	
1/2	1,870.07	1/2	1,505.10	1/2	1,140.14	1/2	775.70	1/2	410.74	1/2	47.88	1/2		1/2		1/2		1/2	
3/4	1,862.47	3/4	1,497.50	3/4	1,132.55	3/4	768.10	3/4	403.14	3/4	42.18	3/4		3/4		3/4		3/4	
2	1,854.86	2	1,489.89	2	1,124.95	2	760.50	2	395.54	2	36.48	2		2		2		2	
1/4	1,847.26	1/4	1,482.29	1/4	1,117.36	1/4	752.89	1/4	387.93	1/4	30.78	1/4		1/4		1/4		1/4	
1/2	1,839.66	1/2	1,474.68	1/2	1,109.76	1/2	745.29	1/2	380.33	1/2	25.08	1/2		1/2		1/2		1/2	
3/4	1,832.05	3/4	1,467.08	3/4	1,102.17	3/4	737.69	3/4	372.73	3/4		3/4		3/4		3/4		3/4	
3	1,824.45	3	1,459.48	3	1,094.58	3	730.08	3	365.12	3		3		3		3		3	
1/4	1,816.85	1/4	1,451.87	1/4	1,086.98	1/4	722.48	1/4	357.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,809.24	1/2	1,444.27	1/2	1,079.39	1/2	714.88	1/2	349.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,801.64	3/4	1,436.67	3/4	1,071.80	3/4	707.27	3/4	342.31	3/4		3/4		3/4		3/4		3/4	
4	1,794.04	4	1,429.06	4	1,064.21	4	699.67	4	334.71	4		4		4		4		4	
1/4	1,786.43	1/4	1,421.46	1/4	1,056.63	1/4	692.07	1/4	327.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,778.83	1/2	1,413.86	1/2	1,049.04	1/2	684.46	1/2	319.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,771.22	3/4	1,406.25	3/4	1,041.45	3/4	676.86	3/4	311.90	3/4		3/4		3/4		3/4		3/4	
5	1,763.62	5	1,398.65	5	1,033.86	5	669.26	5	304.30	5		5		5		5		5	
1/4	1,756.02	1/4	1,391.04	1/4	1,026.27	1/4	661.65	1/4	296.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,748.41	1/2	1,383.44	1/2	1,018.68	1/2	654.05	1/2	289.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,740.81	3/4	1,375.84	3/4	1,011.10	3/4	646.45	3/4	281.49	3/4		3/4		3/4		3/4		3/4	
6	1,733.21	6	1,368.23	6	1,003.51	6	638.84	6	273.88	6		6		6		6		6	
1/4	1,725.60	1/4	1,360.63	1/4	995.92	1/4	631.24	1/4	266.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,718.00	1/2	1,353.03	1/2	988.33	1/2	623.64	1/2	258.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,710.40	3/4	1,345.42	3/4	980.74	3/4	616.03	3/4	251.07	3/4		3/4		3/4		3/4		3/4	
7	1,702.79	7	1,337.82	7	973.15	7	608.43	7	243.47	7		7		7		7		7	
1/4	1,695.19	1/4	1,330.22	1/4	965.57	1/4	600.83	1/4	235.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,687.59	1/2	1,322.61	1/2	957.98	1/2	593.22	1/2	228.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,679.98	3/4	1,315.01	3/4	950.39	3/4	585.62	3/4	220.66	3/4		3/4		3/4		3/4		3/4	
8	1,672.38	8	1,307.41	8	942.80	8	578.02	8	213.06	8		8		8		8		8	
1/4	1,664.77	1/4	1,299.80	1/4	935.21	1/4	570.41	1/4	205.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,657.17	1/2	1,292.20	1/2	927.62	1/2	562.81	1/2	197.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,649.57	3/4	1,284.59	3/4	920.04	3/4	555.21	3/4	190.25	3/4		3/4		3/4		3/4		3/4	
9	1,641.96	9	1,276.99	9	912.45	9	547.60	9	182.64	9		9		9		9		9	
1/4	1,634.36	1/4	1,269.39	1/4	904.86	1/4	540.00	1/4	175.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,626.76	1/2	1,261.78	1/2	897.27	1/2	532.40	1/2	167.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,619.15	3/4	1,254.18	3/4	889.68	3/4	524.79	3/4	159.84	3/4		3/4		3/4		3/4		3/4	
10	1,611.55	10	1,246.58	10	882.09	10	517.19	10	152.23	10		10		10		10		10	
1/4	1,603.95	1/4	1,238.97	1/4	874.51	1/4	509.59	1/4	144.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,596.34	1/2	1,231.37	1/2	866.92	1/2	501.98	1/2	137.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,588.74	3/4	1,223.77	3/4	859.32	3/4	494.38	3/4	129.43	3/4		3/4		3/4		3/4		3/4	
11	1,581.13	11	1,216.16	11	851.72	11	486.78	11	121.83	11		11		11		11		11	
1/4	1,573.53	1/4	1,208.56	1/4	844.13	1/4	479.17	1/4	114.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,565.93	1/2	1,200.95	1/2	836.53	1/2	471.57	1/2	106.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,558.32	3/4	1,193.35	3/4	828.93	3/4	463.97	3/4	99.06	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW
CALCULATED: 09/18/2013 CL
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT
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