



# BARGE "CTCo 325"

## 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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
3 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-09"

February 6, 2014

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 325"

# 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3"

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	5,088.68	1/4	4,753.93	1/4	4,414.55	1/4	4,054.39	1/4	3,688.42	1/4	3,322.14	1/4	2,955.60	1/4	2,588.87	1/4	2,222.14
1/2		1/2	5,082.25	1/2	4,747.08	1/2	4,407.23	1/2	4,046.77	1/2	3,680.80	1/2	3,314.50	1/2	2,947.96	1/2	2,581.23	1/2	2,214.50
3/4		3/4	5,075.83	3/4	4,740.24	3/4	4,399.91	3/4	4,039.15	3/4	3,673.17	3/4	3,306.86	3/4	2,940.32	3/4	2,573.59	3/4	2,206.86
1		1	5,069.40	1	4,733.40	1	4,392.59	1	4,031.52	1	3,665.55	1	3,299.23	1	2,932.68	1	2,565.95	1	2,199.22
1/4		1/4	5,062.98	1/4	4,726.56	1/4	4,385.27	1/4	4,023.90	1/4	3,657.93	1/4	3,291.59	1/4	2,925.04	1/4	2,558.31	1/4	2,191.58
1/2		1/2	5,055.60	1/2	4,719.65	1/2	4,377.91	1/2	4,016.27	1/2	3,650.30	1/2	3,283.96	1/2	2,917.40	1/2	2,550.67	1/2	2,183.94
3/4		3/4	5,048.22	3/4	4,712.75	3/4	4,370.55	3/4	4,008.65	3/4	3,642.68	3/4	3,276.32	3/4	2,909.76	3/4	2,543.03	3/4	2,176.30
2		2	5,040.84	2	4,705.84	2	4,363.20	2	4,001.02	2	3,635.05	2	3,268.68	2	2,902.12	2	2,535.39	2	2,168.66
1/4		1/4	5,033.47	1/4	4,698.93	1/4	4,355.84	1/4	3,993.40	1/4	3,627.43	1/4	3,261.05	1/4	2,894.48	1/4	2,527.75	1/4	2,161.02
1/2		1/2	5,025.90	1/2	4,691.98	1/2	4,348.44	1/2	3,985.77	1/2	3,619.80	1/2	3,253.41	1/2	2,886.84	1/2	2,520.11	1/2	2,153.38
3/4		3/4	5,018.33	3/4	4,685.03	3/4	4,341.05	3/4	3,978.15	3/4	3,612.18	3/4	3,245.77	3/4	2,879.20	3/4	2,512.47	3/4	2,145.74
3		3	5,010.76	3	4,678.08	3	4,333.66	3	3,970.53	3	3,604.55	3	3,238.14	3	2,871.56	3	2,504.83	3	2,138.10
1/4		1/4	5,003.20	1/4	4,671.13	1/4	4,326.26	1/4	3,962.90	1/4	3,596.93	1/4	3,230.50	1/4	2,863.92	1/4	2,497.19	1/4	2,130.46
1/2		1/2	4,995.63	1/2	4,664.14	1/2	4,318.84	1/2	3,955.28	1/2	3,589.31	1/2	3,222.87	1/2	2,856.28	1/2	2,489.55	1/2	2,122.82
3/4		3/4	4,988.06	3/4	4,657.15	3/4	4,311.41	3/4	3,947.65	3/4	3,581.68	3/4	3,215.23	3/4	2,848.64	3/4	2,481.91	3/4	2,115.18
4		4	4,980.50	4	4,650.16	4	4,303.99	4	3,940.03	4	3,574.06	4	3,207.59	4	2,841.00	4	2,474.27	4	2,107.54
1/4		1/4	4,972.93	1/4	4,643.17	1/4	4,296.56	1/4	3,932.40	1/4	3,566.43	1/4	3,199.96	1/4	2,833.36	1/4	2,466.63	1/4	2,099.90
1/2		1/2	4,965.36	1/2	4,636.15	1/2	4,289.10	1/2	3,924.78	1/2	3,558.81	1/2	3,192.32	1/2	2,825.72	1/2	2,458.99	1/2	2,092.26
3/4		3/4	4,957.80	3/4	4,629.12	3/4	4,281.64	3/4	3,917.15	3/4	3,551.18	3/4	3,184.69	3/4	2,818.08	3/4	2,451.35	3/4	2,084.62
5		5	4,950.23	5	4,622.10	5	4,274.18	5	3,909.53	5	3,543.56	5	3,177.05	5	2,810.43	5	2,443.71	5	2,076.98
1/4		1/4	4,942.66	1/4	4,615.07	1/4	4,266.72	1/4	3,901.91	1/4	3,535.93	1/4	3,169.41	1/4	2,802.79	1/4	2,436.07	1/4	2,069.34
1/2		1/2	4,935.81	1/2	4,608.01	1/2	4,259.22	1/2	3,894.28	1/2	3,528.30	1/2	3,161.78	1/2	2,795.15	1/2	2,428.42	1/2	2,061.70
3/4		3/4	4,928.96	3/4	4,600.95	3/4	4,251.72	3/4	3,886.66	3/4	3,520.67	3/4	3,154.14	3/4	2,787.51	3/4	2,420.78	3/4	2,054.06
6		6	4,922.11	6	4,593.89	6	4,244.22	6	3,879.03	6	3,513.04	6	3,146.51	6	2,779.87	6	2,413.14	6	2,046.42
1/4		1/4	4,915.26	1/4	4,586.83	1/4	4,236.72	1/4	3,871.41	1/4	3,505.40	1/4	3,138.87	1/4	2,772.23	1/4	2,405.50	1/4	2,038.77
1/2		1/2	4,908.63	1/2	4,579.74	1/2	4,229.18	1/2	3,863.78	1/2	3,497.77	1/2	3,131.23	1/2	2,764.59	1/2	2,397.86	1/2	2,031.68
3/4		3/4	4,901.99	3/4	4,572.65	3/4	4,221.64	3/4	3,856.16	3/4	3,490.13	3/4	3,123.60	3/4	2,756.95	3/4	2,390.22	3/4	2,024.58
7		7	4,895.36	7	4,565.56	7	4,214.11	7	3,848.54	7	3,482.49	7	3,115.96	7	2,749.31	7	2,382.58	7	2,017.48
1/4		1/4	4,888.72	1/4	4,558.46	1/4	4,206.57	1/4	3,840.91	1/4	3,474.86	1/4	3,108.33	1/4	2,741.67	1/4	2,374.94	1/4	2,010.38
1/2		1/2	4,882.05	1/2	4,551.34	1/2	4,199.00	1/2	3,833.29	1/2	3,467.22	1/2	3,100.69	1/2	2,734.03	1/2	2,367.30	1/2	2,003.46
3/4		3/4	4,875.39	3/4	4,544.21	3/4	4,191.43	3/4	3,825.66	3/4	3,459.59	3/4	3,093.05	3/4	2,726.39	3/4	2,359.66	3/4	1,996.54
8		8	4,868.72	8	4,537.08	8	4,183.86	8	3,818.04	8	3,451.95	8	3,085.42	8	2,718.75	8	2,352.02	8	1,989.62
1/4		1/4	4,862.05	1/4	4,529.96	1/4	4,176.29	1/4	3,810.41	1/4	3,444.31	1/4	3,077.78	1/4	2,711.11	1/4	2,344.38	1/4	1,982.71
1/2		1/2	4,855.35	1/2	4,522.79	1/2	4,168.69	1/2	3,802.79	1/2	3,436.68	1/2	3,070.14	1/2	2,703.47	1/2	2,336.74	1/2	1,975.27
3/4		3/4	4,848.64	3/4	4,515.63	3/4	4,161.09	3/4	3,795.16	3/4	3,429.04	3/4	3,062.51	3/4	2,695.83	3/4	2,329.10	3/4	1,967.84
9		9	4,841.94	9	4,508.47	9	4,153.48	9	3,787.54	9	3,421.41	9	3,054.87	9	2,688.19	9	2,321.46	9	1,960.40
1/4		1/4	4,835.23	1/4	4,501.31	1/4	4,145.88	1/4	3,779.92	1/4	3,413.77	1/4	3,047.24	1/4	2,680.55	1/4	2,313.82	1/4	1,952.97
1/2		1/2	4,828.49	1/2	4,494.12	1/2	4,138.26	1/2	3,772.29	1/2	3,406.13	1/2	3,039.60	1/2	2,672.91	1/2	2,306.18	1/2	1,945.36
3/4		3/4	4,821.75	3/4	4,486.93	3/4	4,130.63	3/4	3,764.67	3/4	3,398.50	3/4	3,031.96	3/4	2,665.27	3/4	2,298.54	3/4	1,937.76
10		10	4,815.01	10	4,479.73	10	4,123.01	10	3,757.04	10	3,390.86	10	3,024.33	10	2,657.63	10	2,290.90	10	1,930.15
1/4		1/4	4,808.26	1/4	4,472.54	1/4	4,115.39	1/4	3,749.42	1/4	3,383.22	1/4	3,016.69	1/4	2,649.99	1/4	2,283.26	1/4	1,922.55
1/2		1/2	4,801.49	1/2	4,465.31	1/2	4,107.76	1/2	3,741.79	1/2	3,375.59	1/2	3,009.06	1/2	2,642.35	1/2	2,275.62	1/2	1,914.94
3/4		3/4	4,794.71	3/4	4,458.08	3/4	4,100.14	3/4	3,734.17	3/4	3,367.95	3/4	3,001.42	3/4	2,634.71	3/4	2,267.98	3/4	1,907.33
11		11	4,787.94	11	4,450.85	11	4,092.52	11	3,726.54	11	3,360.32	11	2,993.78	11	2,627.07	11	2,260.34	11	1,899.73
1/4		1/4	4,781.16	1/4	4,443.63	1/4	4,084.89	1/4	3,718.92	1/4	3,352.68	1/4	2,986.15	1/4	2,619.43	1/4	2,252.70	1/4	1,892.12
1/2		1/2	4,774.35	1/2	4,436.36	1/2	4,077.27	1/2	3,711.30	1/2	3,345.04	1/2	2,978.51	1/2	2,611.79	1/2	2,245.06	1/2	1,884.49
3/4		3/4	4,767.55	3/4	4,429.09	3/4	4,069.64	3/4	3,703.67	3/4	3,337.41	3/4	2,970.87	3/4	2,604.15	3/4	2,237.42	3/4	1,876.86

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" DIAMETER OPENING ON "HERMETIC" 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 325"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3"

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	1,869.22	0	1,502.44	0	1,135.71	0	771.05	0	408.29	0	86.39	0		0		0		0	
1/4	1,861.59	1/4	1,494.80	1/4	1,128.09	1/4	763.42	1/4	401.04	1/4	80.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,853.95	1/2	1,487.15	1/2	1,120.48	1/2	755.78	1/2	393.87	1/2	74.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,846.31	3/4	1,479.51	3/4	1,112.86	3/4	748.14	3/4	386.71	3/4	68.03	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,838.67	1	1,471.87	1	1,105.25	1	740.50	1	379.55	1	61.95	1	1	1	1	1	1	1	1
1/4	1,831.03	1/4	1,464.23	1/4	1,097.64	1/4	732.86	1/4	372.38	1/4	55.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,823.38	1/2	1,456.59	1/2	1,090.04	1/2	725.22	1/2	365.30	1/2	50.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,815.74	3/4	1,448.95	3/4	1,082.44	3/4	717.57	3/4	358.23	3/4	45.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,808.10	2	1,441.30	2	1,074.84	2	709.93	2	351.15	2	39.97	2	2	2	2	2	2	2	2
1/4	1,800.46	1/4	1,433.66	1/4	1,067.23	1/4	702.29	1/4	344.07	1/4	34.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,792.82	1/2	1,426.02	1/2	1,059.64	1/2	694.65	1/2	337.08	1/2	30.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,785.18	3/4	1,418.38	3/4	1,052.04	3/4	687.01	3/4	330.09	3/4	26.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,777.53	3	1,410.74	3	1,044.44	3	679.37	3	323.10	3	23.01	3	3	3	3	3	3	3	3
1/4	1,769.89	1/4	1,403.10	1/4	1,036.84	1/4	671.73	1/4	316.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,762.25	1/2	1,395.45	1/2	1,029.25	1/2	664.08	1/2	309.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,754.61	3/4	1,387.81	3/4	1,021.66	3/4	656.44	3/4	302.30	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,746.97	4	1,380.17	4	1,014.07	4	648.80	4	295.40	4	4	4	4	4	4	4	4	4	4
1/4	1,739.33	1/4	1,372.53	1/4	1,006.47	1/4	641.16	1/4	288.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,731.69	1/2	1,364.89	1/2	998.88	1/2	633.52	1/2	281.67	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,724.04	3/4	1,357.25	3/4	991.29	3/4	625.88	3/4	274.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,716.40	5	1,349.61	5	983.70	5	618.24	5	268.04	5	5	5	5	5	5	5	5	5	5
1/4	1,708.76	1/4	1,341.96	1/4	976.11	1/4	610.59	1/4	261.22	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,701.12	1/2	1,334.32	1/2	968.52	1/2	602.95	1/2	254.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,693.48	3/4	1,326.68	3/4	960.93	3/4	595.31	3/4	247.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,685.84	6	1,319.04	6	953.34	6	587.67	6	241.03	6	6	6	6	6	6	6	6	6	6
1/4	1,678.19	1/4	1,311.40	1/4	945.75	1/4	580.03	1/4	234.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,670.55	1/2	1,303.76	1/2	938.16	1/2	572.40	1/2	227.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,662.91	3/4	1,296.11	3/4	930.57	3/4	564.76	3/4	221.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,655.27	7	1,288.47	7	922.98	7	557.13	7	214.37	7	7	7	7	7	7	7	7	7	7
1/4	1,647.63	1/4	1,280.83	1/4	915.39	1/4	549.50	1/4	207.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,639.99	1/2	1,273.19	1/2	907.80	1/2	541.91	1/2	201.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,632.34	3/4	1,265.55	3/4	900.20	3/4	534.32	3/4	194.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,624.70	8	1,257.91	8	892.61	8	526.73	8	188.05	8	8	8	8	8	8	8	8	8	8
1/4	1,617.06	1/4	1,250.26	1/4	885.02	1/4	519.14	1/4	181.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,609.42	1/2	1,242.62	1/2	877.43	1/2	511.62	1/2	175.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,601.78	3/4	1,234.98	3/4	869.84	3/4	504.11	3/4	168.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,594.14	9	1,227.34	9	862.25	9	496.60	9	162.09	9	9	9	9	9	9	9	9	9	9
1/4	1,586.49	1/4	1,219.70	1/4	854.66	1/4	489.09	1/4	155.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,578.85	1/2	1,212.06	1/2	847.07	1/2	481.67	1/2	149.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,571.21	3/4	1,204.41	3/4	839.48	3/4	474.24	3/4	142.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,563.57	10	1,196.77	10	831.89	10	466.82	10	136.48	10	10	10	10	10	10	10	10	10	10
1/4	1,555.93	1/4	1,189.13	1/4	824.30	1/4	459.39	1/4	130.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,548.29	1/2	1,181.49	1/2	816.71	1/2	452.06	1/2	123.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,540.65	3/4	1,173.85	3/4	809.12	3/4	444.72	3/4	117.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,533.00	11	1,166.21	11	801.53	11	437.38	11	111.24	11	11	11	11	11	11	11	11	11	11
1/4	1,525.36	1/4	1,158.57	1/4	793.94	1/4	430.04	1/4	104.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,517.72	1/2	1,150.95	1/2	786.31	1/2	422.79	1/2	98.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,510.08	3/4	1,143.33	3/4	778.68	3/4	415.54	3/4	92.58	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: 02/06/2014 SW  
CALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

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



# BARGE "CTCo 325"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,766.18	0	4,428.51	0	4,069.77	0	3,704.15	0	3,338.53	0	2,972.90	0	2,607.09	0	2,241.28
1/4		1/4		1/4	4,759.38	1/4	4,421.24	1/4	4,062.15	1/4	3,696.53	1/4	3,330.91	1/4	2,965.28	1/4	2,599.47	1/4	2,233.66
1/2		1/2		1/2	4,752.57	1/2	4,413.98	1/2	4,054.53	1/2	3,688.91	1/2	3,323.29	1/2	2,957.66	1/2	2,591.85	1/2	2,226.04
3/4		3/4	5,080.19	3/4	4,745.77	3/4	4,406.72	3/4	4,046.92	3/4	3,681.30	3/4	3,315.68	3/4	2,950.04	3/4	2,584.23	3/4	2,218.42
1		1	5,073.77	1	4,738.94	1	4,399.41	1	4,039.30	1	3,673.68	1	3,308.06	1	2,942.42	1	2,576.61	1	2,210.80
1/4		1/4	5,067.36	1/4	4,732.10	1/4	4,392.10	1/4	4,031.68	1/4	3,666.06	1/4	3,300.44	1/4	2,934.80	1/4	2,568.99	1/4	2,203.18
1/2		1/2	5,060.94	1/2	4,725.26	1/2	4,384.78	1/2	4,024.07	1/2	3,658.45	1/2	3,292.82	1/2	2,927.18	1/2	2,561.37	1/2	2,195.55
3/4		3/4	5,054.52	3/4	4,718.43	3/4	4,377.47	3/4	4,016.45	3/4	3,650.83	3/4	3,285.21	3/4	2,919.56	3/4	2,553.75	3/4	2,187.93
2		2	5,047.15	2	4,711.53	2	4,370.12	2	4,008.83	2	3,643.21	2	3,277.59	2	2,911.94	2	2,546.12	2	2,180.31
1/4		1/4	5,039.78	1/4	4,704.63	1/4	4,362.77	1/4	4,001.22	1/4	3,635.59	1/4	3,269.97	1/4	2,904.32	1/4	2,538.50	1/4	2,172.69
1/2		1/2	5,032.41	1/2	4,697.73	1/2	4,355.41	1/2	3,993.60	1/2	3,627.98	1/2	3,262.36	1/2	2,896.70	1/2	2,530.88	1/2	2,165.07
3/4		3/4	5,025.04	3/4	4,690.83	3/4	4,348.06	3/4	3,985.98	3/4	3,620.36	3/4	3,254.74	3/4	2,889.07	3/4	2,523.26	3/4	2,157.45
3		3	5,017.48	3	4,683.89	3	4,340.68	3	3,978.36	3	3,612.74	3	3,247.12	3	2,881.45	3	2,515.64	3	2,149.83
1/4		1/4	5,009.92	1/4	4,676.94	1/4	4,333.29	1/4	3,970.75	1/4	3,605.13	1/4	3,239.51	1/4	2,873.83	1/4	2,508.02	1/4	2,142.21
1/2		1/2	5,002.36	1/2	4,670.00	1/2	4,325.90	1/2	3,963.13	1/2	3,597.51	1/2	3,231.89	1/2	2,866.21	1/2	2,500.40	1/2	2,134.59
3/4		3/4	4,994.80	3/4	4,663.06	3/4	4,318.52	3/4	3,955.51	3/4	3,589.89	3/4	3,224.27	3/4	2,858.59	3/4	2,492.78	3/4	2,126.96
4		4	4,987.24	4	4,656.07	4	4,311.10	4	3,947.90	4	3,582.27	4	3,216.65	4	2,850.97	4	2,485.16	4	2,119.34
1/4		1/4	4,979.68	1/4	4,649.09	1/4	4,303.68	1/4	3,940.28	1/4	3,574.66	1/4	3,209.04	1/4	2,843.35	1/4	2,477.53	1/4	2,111.72
1/2		1/2	4,972.12	1/2	4,642.11	1/2	4,296.26	1/2	3,932.66	1/2	3,567.04	1/2	3,201.42	1/2	2,835.73	1/2	2,469.91	1/2	2,104.10
3/4		3/4	4,964.56	3/4	4,635.12	3/4	4,288.84	3/4	3,925.04	3/4	3,559.42	3/4	3,193.80	3/4	2,828.11	3/4	2,462.29	3/4	2,096.48
5		5	4,957.00	5	4,628.11	5	4,281.39	5	3,917.43	5	3,551.81	5	3,186.19	5	2,820.48	5	2,454.67	5	2,088.86
1/4		1/4	4,949.45	1/4	4,621.09	1/4	4,273.94	1/4	3,909.81	1/4	3,544.19	1/4	3,178.57	1/4	2,812.86	1/4	2,447.05	1/4	2,081.24
1/2		1/2	4,941.89	1/2	4,614.07	1/2	4,266.48	1/2	3,902.19	1/2	3,536.57	1/2	3,170.95	1/2	2,805.24	1/2	2,439.43	1/2	2,073.62
3/4		3/4	4,934.33	3/4	4,607.05	3/4	4,259.03	3/4	3,894.58	3/4	3,528.95	3/4	3,163.33	3/4	2,797.62	3/4	2,431.81	3/4	2,066.00
6		6	4,927.48	6	4,600.00	6	4,251.54	6	3,886.96	6	3,521.34	6	3,155.72	6	2,790.00	6	2,424.19	6	2,058.37
1/4		1/4	4,920.64	1/4	4,592.94	1/4	4,244.04	1/4	3,879.34	1/4	3,513.72	1/4	3,148.10	1/4	2,782.38	1/4	2,416.57	1/4	2,050.75
1/2		1/2	4,913.80	1/2	4,585.89	1/2	4,236.55	1/2	3,871.72	1/2	3,506.10	1/2	3,140.48	1/2	2,774.76	1/2	2,408.94	1/2	2,043.13
3/4		3/4	4,906.95	3/4	4,578.84	3/4	4,229.06	3/4	3,864.11	3/4	3,498.49	3/4	3,132.87	3/4	2,767.14	3/4	2,401.32	3/4	2,035.51
7		7	4,900.32	7	4,571.75	7	4,221.53	7	3,856.49	7	3,490.87	7	3,125.25	7	2,759.52	7	2,393.70	7	2,028.43
1/4		1/4	4,893.69	1/4	4,564.67	1/4	4,214.00	1/4	3,848.87	1/4	3,483.25	1/4	3,117.63	1/4	2,751.89	1/4	2,386.08	1/4	2,021.35
1/2		1/2	4,887.06	1/2	4,557.58	1/2	4,206.47	1/2	3,841.26	1/2	3,475.64	1/2	3,110.01	1/2	2,744.27	1/2	2,378.46	1/2	2,014.27
3/4		3/4	4,880.43	3/4	4,550.49	3/4	4,198.94	3/4	3,833.64	3/4	3,468.02	3/4	3,102.40	3/4	2,736.65	3/4	2,370.84	3/4	2,007.19
8		8	4,873.77	8	4,543.37	8	4,191.38	8	3,826.02	8	3,460.40	8	3,094.78	8	2,729.03	8	2,363.22	8	2,000.29
1/4		1/4	4,867.11	1/4	4,536.25	1/4	4,183.82	1/4	3,818.40	1/4	3,452.78	1/4	3,087.16	1/4	2,721.41	1/4	2,355.60	1/4	1,993.39
1/2		1/2	4,860.45	1/2	4,529.13	1/2	4,176.25	1/2	3,810.79	1/2	3,445.17	1/2	3,079.55	1/2	2,713.79	1/2	2,347.98	1/2	1,986.49
3/4		3/4	4,853.79	3/4	4,522.01	3/4	4,168.69	3/4	3,803.17	3/4	3,437.55	3/4	3,071.93	3/4	2,706.17	3/4	2,340.35	3/4	1,979.59
9		9	4,847.09	9	4,514.86	9	4,161.10	9	3,795.55	9	3,429.93	9	3,064.31	9	2,698.55	9	2,332.73	9	1,972.17
1/4		1/4	4,840.40	1/4	4,507.71	1/4	4,153.50	1/4	3,787.94	1/4	3,422.32	1/4	3,056.69	1/4	2,690.93	1/4	2,325.11	1/4	1,964.76
1/2		1/2	4,833.70	1/2	4,500.55	1/2	4,145.90	1/2	3,780.32	1/2	3,414.70	1/2	3,049.08	1/2	2,683.30	1/2	2,317.49	1/2	1,957.34
3/4		3/4	4,827.00	3/4	4,493.40	3/4	4,138.31	3/4	3,772.70	3/4	3,407.08	3/4	3,041.46	3/4	2,675.68	3/4	2,309.87	3/4	1,949.93
10		10	4,820.26	10	4,486.21	10	4,130.69	10	3,765.08	10	3,399.46	10	3,033.84	10	2,668.06	10	2,302.25	10	1,942.34
1/4		1/4	4,813.53	1/4	4,479.03	1/4	4,123.08	1/4	3,757.47	1/4	3,391.85	1/4	3,026.23	1/4	2,660.44	1/4	2,294.63	1/4	1,934.75
1/2		1/2	4,806.79	1/2	4,471.84	1/2	4,115.47	1/2	3,749.85	1/2	3,384.23	1/2	3,018.61	1/2	2,652.82	1/2	2,287.01	1/2	1,927.17
3/4		3/4	4,800.06	3/4	4,464.65	3/4	4,107.85	3/4	3,742.23	3/4	3,376.61	3/4	3,010.99	3/4	2,645.20	3/4	2,279.39	3/4	1,919.58
11		11	4,793.29	11	4,457.43	11	4,100.24	11	3,734.62	11	3,369.00	11	3,003.37	11	2,637.58	11	2,271.76	11	1,911.99
1/4		1/4	4,786.52	1/4	4,450.21	1/4	4,092.62	1/4	3,727.00	1/4	3,361.38	1/4	2,995.76	1/4	2,629.96	1/4	2,264.14	1/4	1,904.41
1/2		1/2	4,779.75	1/2	4,442.99	1/2	4,085.00	1/2	3,719.38	1/2	3,353.76	1/2	2,988.14	1/2	2,622.34	1/2	2,256.52	1/2	1,896.82
3/4		3/4	4,772.98	3/4	4,435.77	3/4	4,077.39	3/4	3,711.77	3/4	3,346.14	3/4	2,980.52	3/4	2,614.71	3/4	2,248.90	3/4	1,889.23

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" DIAMETER OPENING ON "HERMETIC" 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 325"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3 1/2"

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	1,881.62	0	1,515.76	0	1,149.88	0	784.48	0	421.91	0	98.67	0		0		0		0	
1/4	1,874.01	1/4	1,508.14	1/4	1,142.26	1/4	776.86	1/4	414.68	1/4	92.49	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,866.39	1/2	1,500.52	1/2	1,134.63	1/2	769.24	1/2	407.44	1/2	86.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,858.78	3/4	1,492.90	3/4	1,127.01	3/4	761.63	3/4	400.21	3/4	80.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,851.16	1	1,485.27	1	1,119.39	1	754.00	1	393.06	1	74.05	1	1	1	1	1	1	1	1
1/4	1,843.54	1/4	1,477.65	1/4	1,111.77	1/4	746.38	1/4	385.92	1/4	67.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,835.91	1/2	1,470.03	1/2	1,104.14	1/2	738.76	1/2	378.77	1/2	61.90	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,828.29	3/4	1,462.41	3/4	1,096.52	3/4	731.14	3/4	371.63	3/4	55.82	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,820.67	2	1,454.78	2	1,088.90	2	723.51	2	364.57	2	50.53	2	2	2	2	2	2	2	2
1/4	1,813.05	1/4	1,447.16	1/4	1,081.29	1/4	715.89	1/4	357.51	1/4	45.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,805.42	1/2	1,439.54	1/2	1,073.67	1/2	708.27	1/2	350.45	1/2	39.94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,797.80	3/4	1,431.92	3/4	1,066.05	3/4	700.65	3/4	343.39	3/4	34.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,790.18	3	1,424.29	3	1,058.43	3	693.02	3	336.42	3	30.76	3	3	3	3	3	3	3	3
1/4	1,782.56	1/4	1,416.67	1/4	1,050.82	1/4	685.40	1/4	329.44	1/4	26.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,774.93	1/2	1,409.05	1/2	1,043.20	1/2	677.78	1/2	322.47	1/2	22.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.31	3/4	1,401.43	3/4	1,035.59	3/4	670.16	3/4	315.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,759.69	4	1,393.80	4	1,027.98	4	662.54	4	308.61	4		4	4	4	4	4	4	4	4
1/4	1,752.06	1/4	1,386.18	1/4	1,020.37	1/4	654.91	1/4	301.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,744.44	1/2	1,378.56	1/2	1,012.76	1/2	647.29	1/2	294.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,736.82	3/4	1,370.93	3/4	1,005.15	3/4	639.67	3/4	287.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,729.20	5	1,363.31	5	997.54	5	632.05	5	281.16	5		5	5	5	5	5	5	5	5
1/4	1,721.57	1/4	1,355.69	1/4	989.93	1/4	624.42	1/4	274.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,713.95	1/2	1,348.07	1/2	982.32	1/2	616.80	1/2	267.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,706.33	3/4	1,340.44	3/4	974.71	3/4	609.18	3/4	260.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,698.71	6	1,332.82	6	967.10	6	601.56	6	254.05	6		6	6	6	6	6	6	6	6
1/4	1,691.08	1/4	1,325.20	1/4	959.49	1/4	593.94	1/4	247.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,683.46	1/2	1,317.58	1/2	951.88	1/2	586.31	1/2	240.62	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,675.84	3/4	1,309.95	3/4	944.28	3/4	578.69	3/4	233.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,668.22	7	1,302.33	7	936.67	7	571.08	7	227.28	7		7	7	7	7	7	7	7	7
1/4	1,660.59	1/4	1,294.71	1/4	929.06	1/4	563.47	1/4	220.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,652.97	1/2	1,287.09	1/2	921.45	1/2	555.86	1/2	214.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,645.35	3/4	1,279.46	3/4	913.84	3/4	548.26	3/4	207.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,637.73	8	1,271.84	8	906.23	8	540.69	8	200.87	8		8	8	8	8	8	8	8	8
1/4	1,630.10	1/4	1,264.22	1/4	898.62	1/4	533.13	1/4	194.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,622.48	1/2	1,256.60	1/2	891.01	1/2	525.57	1/2	187.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,614.86	3/4	1,248.97	3/4	883.41	3/4	518.00	3/4	181.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,607.24	9	1,241.35	9	875.80	9	510.51	9	174.79	9		9	9	9	9	9	9	9	9
1/4	1,599.61	1/4	1,233.73	1/4	868.19	1/4	503.02	1/4	168.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,591.99	1/2	1,226.11	1/2	860.58	1/2	495.53	1/2	161.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,584.37	3/4	1,218.48	3/4	852.97	3/4	488.04	3/4	155.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,576.75	10	1,210.86	10	845.36	10	480.63	10	149.07	10		10	10	10	10	10	10	10	10
1/4	1,569.12	1/4	1,203.24	1/4	837.75	1/4	473.23	1/4	142.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,561.50	1/2	1,195.62	1/2	830.15	1/2	465.82	1/2	136.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,553.88	3/4	1,187.99	3/4	822.54	3/4	458.42	3/4	129.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,546.25	11	1,180.37	11	814.93	11	451.10	11	123.69	11		11	11	11	11	11	11	11	11
1/4	1,538.63	1/4	1,172.75	1/4	807.32	1/4	443.78	1/4	117.42	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,531.01	1/2	1,165.12	1/2	799.71	1/2	436.46	1/2	111.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,523.39	3/4	1,157.50	3/4	792.10	3/4	429.14	3/4	104.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2014 SW  
CALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

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



# BARGE "CTCo 325"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,527.56	0	4,210.52	0	3,873.61	0	3,530.22	0	3,186.84	0	2,843.46	0	2,499.89	0	2,156.31
1/4		1/4		1/4	4,521.17	1/4	4,203.70	1/4	3,866.45	1/4	3,523.07	1/4	3,179.69	1/4	2,836.30	1/4	2,492.73	1/4	2,149.15
1/2		1/2		1/2	4,514.79	1/2	4,196.88	1/2	3,859.30	1/2	3,515.92	1/2	3,172.53	1/2	2,829.15	1/2	2,485.57	1/2	2,141.99
3/4		3/4	4,822.31	3/4	4,508.41	3/4	4,190.06	3/4	3,852.14	3/4	3,508.76	3/4	3,165.38	3/4	2,821.99	3/4	2,478.41	3/4	2,134.84
1		1	4,816.29	1	4,501.99	1	4,183.20	1	3,844.99	1	3,501.61	1	3,158.23	1	2,814.84	1	2,471.26	1	2,127.68
1/4		1/4	4,810.26	1/4	4,495.57	1/4	4,176.33	1/4	3,837.84	1/4	3,494.45	1/4	3,151.07	1/4	2,807.68	1/4	2,464.10	1/4	2,120.52
1/2		1/2	4,804.24	1/2	4,489.16	1/2	4,169.46	1/2	3,830.68	1/2	3,487.30	1/2	3,143.92	1/2	2,800.52	1/2	2,456.94	1/2	2,113.36
3/4		3/4	4,798.21	3/4	4,482.74	3/4	4,162.59	3/4	3,823.53	3/4	3,480.15	3/4	3,136.76	3/4	2,793.36	3/4	2,449.78	3/4	2,106.20
2		2	4,791.29	2	4,476.26	2	4,155.69	2	3,816.38	2	3,472.99	2	3,129.61	2	2,786.20	2	2,442.62	2	2,099.05
1/4		1/4	4,784.38	1/4	4,469.79	1/4	4,148.78	1/4	3,809.22	1/4	3,465.84	1/4	3,122.46	1/4	2,779.05	1/4	2,435.47	1/4	2,091.89
1/2		1/2	4,777.46	1/2	4,463.31	1/2	4,141.88	1/2	3,802.07	1/2	3,458.69	1/2	3,115.30	1/2	2,771.89	1/2	2,428.31	1/2	2,084.73
3/4		3/4	4,770.54	3/4	4,456.83	3/4	4,134.97	3/4	3,794.91	3/4	3,451.53	3/4	3,108.15	3/4	2,764.73	3/4	2,421.15	3/4	2,077.57
3		3	4,763.44	3	4,450.31	3	4,128.04	3	3,787.76	3	3,444.38	3	3,101.00	3	2,757.57	3	2,413.99	3	2,070.41
1/4		1/4	4,756.34	1/4	4,443.79	1/4	4,121.10	1/4	3,780.61	1/4	3,437.22	1/4	3,093.84	1/4	2,750.41	1/4	2,406.84	1/4	2,063.26
1/2		1/2	4,749.25	1/2	4,437.27	1/2	4,114.17	1/2	3,773.45	1/2	3,430.07	1/2	3,086.69	1/2	2,743.26	1/2	2,399.68	1/2	2,056.10
3/4		3/4	4,742.15	3/4	4,430.75	3/4	4,107.23	3/4	3,766.30	3/4	3,422.92	3/4	3,079.53	3/4	2,736.10	3/4	2,392.52	3/4	2,048.94
4		4	4,735.05	4	4,424.20	4	4,100.26	4	3,759.14	4	3,415.76	4	3,072.38	4	2,728.94	4	2,385.36	4	2,041.78
1/4		1/4	4,727.96	1/4	4,417.64	1/4	4,093.29	1/4	3,751.99	1/4	3,408.61	1/4	3,065.23	1/4	2,721.78	1/4	2,378.20	1/4	2,034.62
1/2		1/2	4,720.86	1/2	4,411.08	1/2	4,086.33	1/2	3,744.84	1/2	3,401.45	1/2	3,058.07	1/2	2,714.63	1/2	2,371.05	1/2	2,027.47
3/4		3/4	4,713.76	3/4	4,404.53	3/4	4,079.36	3/4	3,737.68	3/4	3,394.30	3/4	3,050.92	3/4	2,707.47	3/4	2,363.89	3/4	2,020.31
5		5	4,706.67	5	4,397.94	5	4,072.36	5	3,730.53	5	3,387.15	5	3,043.76	5	2,700.31	5	2,356.73	5	2,013.15
1/4		1/4	4,699.57	1/4	4,391.35	1/4	4,065.36	1/4	3,723.38	1/4	3,379.99	1/4	3,036.61	1/4	2,693.15	1/4	2,349.57	1/4	2,005.99
1/2		1/2	4,692.48	1/2	4,384.76	1/2	4,058.36	1/2	3,716.22	1/2	3,372.84	1/2	3,029.46	1/2	2,685.99	1/2	2,342.41	1/2	1,998.84
3/4		3/4	4,685.38	3/4	4,378.16	3/4	4,051.36	3/4	3,709.07	3/4	3,365.69	3/4	3,022.30	3/4	2,678.84	3/4	2,335.26	3/4	1,991.68
6		6	4,678.96	6	4,371.54	6	4,044.32	6	3,701.91	6	3,358.53	6	3,015.15	6	2,671.68	6	2,328.10	6	1,984.52
1/4		1/4	4,672.53	1/4	4,364.92	1/4	4,037.28	1/4	3,694.76	1/4	3,351.38	1/4	3,008.00	1/4	2,664.52	1/4	2,320.94	1/4	1,977.36
1/2		1/2	4,666.11	1/2	4,358.30	1/2	4,030.25	1/2	3,687.61	1/2	3,344.22	1/2	3,000.84	1/2	2,657.36	1/2	2,313.78	1/2	1,970.20
3/4		3/4	4,659.69	3/4	4,351.68	3/4	4,023.21	3/4	3,680.45	3/4	3,337.07	3/4	2,993.69	3/4	2,650.20	3/4	2,306.62	3/4	1,963.05
7		7	4,653.46	7	4,345.02	7	4,016.14	7	3,673.30	7	3,329.92	7	2,986.53	7	2,643.05	7	2,299.47	7	1,956.40
1/4		1/4	4,647.24	1/4	4,338.37	1/4	4,009.07	1/4	3,666.15	1/4	3,322.76	1/4	2,979.38	1/4	2,635.89	1/4	2,292.31	1/4	1,949.75
1/2		1/2	4,641.02	1/2	4,331.72	1/2	4,002.00	1/2	3,658.99	1/2	3,315.61	1/2	2,972.23	1/2	2,628.73	1/2	2,285.15	1/2	1,943.10
3/4		3/4	4,634.80	3/4	4,325.06	3/4	3,994.93	3/4	3,651.84	3/4	3,308.46	3/4	2,965.07	3/4	2,621.57	3/4	2,277.99	3/4	1,936.45
8		8	4,628.55	8	4,318.38	8	3,987.82	8	3,644.68	8	3,301.30	8	2,957.92	8	2,614.41	8	2,270.84	8	1,929.97
1/4		1/4	4,622.29	1/4	4,311.69	1/4	3,980.72	1/4	3,637.53	1/4	3,294.15	1/4	2,950.77	1/4	2,607.26	1/4	2,263.68	1/4	1,923.49
1/2		1/2	4,616.04	1/2	4,305.01	1/2	3,973.62	1/2	3,630.38	1/2	3,286.99	1/2	2,943.61	1/2	2,600.10	1/2	2,256.52	1/2	1,917.01
3/4		3/4	4,609.79	3/4	4,298.32	3/4	3,966.52	3/4	3,623.22	3/4	3,279.84	3/4	2,936.46	3/4	2,592.94	3/4	2,249.36	3/4	1,910.53
9		9	4,603.50	9	4,291.60	9	3,959.38	9	3,616.07	9	3,272.69	9	2,929.30	9	2,585.78	9	2,242.20	9	1,903.56
1/4		1/4	4,597.22	1/4	4,284.89	1/4	3,952.25	1/4	3,608.91	1/4	3,265.53	1/4	2,922.15	1/4	2,578.62	1/4	2,235.05	1/4	1,896.60
1/2		1/2	4,590.93	1/2	4,278.17	1/2	3,945.11	1/2	3,601.76	1/2	3,258.38	1/2	2,915.00	1/2	2,571.47	1/2	2,227.89	1/2	1,889.64
3/4		3/4	4,584.64	3/4	4,271.45	3/4	3,937.98	3/4	3,594.61	3/4	3,251.22	3/4	2,907.84	3/4	2,564.31	3/4	2,220.73	3/4	1,882.67
10		10	4,578.32	10	4,264.70	10	3,930.83	10	3,587.45	10	3,244.07	10	2,900.69	10	2,557.15	10	2,213.57	10	1,875.55
1/4		1/4	4,572.00	1/4	4,257.96	1/4	3,923.68	1/4	3,580.30	1/4	3,236.92	1/4	2,893.53	1/4	2,549.99	1/4	2,206.41	1/4	1,868.43
1/2		1/2	4,565.68	1/2	4,251.21	1/2	3,916.53	1/2	3,573.15	1/2	3,229.76	1/2	2,886.38	1/2	2,542.84	1/2	2,199.26	1/2	1,861.30
3/4		3/4	4,559.36	3/4	4,244.46	3/4	3,909.37	3/4	3,565.99	3/4	3,222.61	3/4	2,879.23	3/4	2,535.68	3/4	2,192.10	3/4	1,854.18
11		11	4,553.00	11	4,237.68	11	3,902.22	11	3,558.84	11	3,215.46	11	2,872.07	11	2,528.52	11	2,184.94	11	1,847.05
1/4		1/4	4,546.65	1/4	4,230.90	1/4	3,895.07	1/4	3,551.68	1/4	3,208.30	1/4	2,864.92	1/4	2,521.36	1/4	2,177.78	1/4	1,839.93
1/2		1/2	4,540.30	1/2	4,224.12	1/2	3,887.91	1/2	3,544.53	1/2	3,201.15	1/2	2,857.77	1/2	2,514.20	1/2	2,170.62	1/2	1,832.81
3/4		3/4	4,533.94	3/4	4,217.34	3/4	3,880.76	3/4	3,537.38	3/4	3,193.99	3/4	2,850.61	3/4	2,507.05	3/4	2,163.47	3/4	1,825.68

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" DIAMETER OPENING ON "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 325"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3 1/2"

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	1,818.53	0	1,474.92	0	1,131.48	0	801.76	0	458.36	0	114.73	0		0		0		0	
1/4	1,811.38	1/4	1,467.76	1/4	1,124.53	1/4	794.68	1/4	451.20	1/4	107.58	1/4		1/4		1/4		1/4	
1/2	1,804.23	1/2	1,460.60	1/2	1,117.59	1/2	787.60	1/2	444.04	1/2	100.43	1/2		1/2		1/2		1/2	
3/4	1,797.08	3/4	1,453.44	3/4	1,110.64	3/4	780.52	3/4	436.88	3/4	93.28	3/4		3/4		3/4		3/4	
1	1,789.92	1	1,446.28	1	1,103.76	1	773.36	1	429.72	1	86.15	1		1		1		1	
1/4	1,782.77	1/4	1,439.12	1/4	1,096.89	1/4	766.20	1/4	422.56	1/4	79.02	1/4		1/4		1/4		1/4	
1/2	1,775.61	1/2	1,431.96	1/2	1,090.01	1/2	759.04	1/2	415.40	1/2	71.89	1/2		1/2		1/2		1/2	
3/4	1,768.45	3/4	1,424.80	3/4	1,083.13	3/4	751.88	3/4	408.24	3/4	64.76	3/4		3/4		3/4		3/4	
2	1,761.29	2	1,417.64	2	1,076.27	2	744.72	2	401.08	2	58.28	2		2		2		2	
1/4	1,754.13	1/4	1,410.48	1/4	1,069.40	1/4	737.56	1/4	393.92	1/4	51.80	1/4		1/4		1/4		1/4	
1/2	1,746.97	1/2	1,403.32	1/2	1,062.53	1/2	730.40	1/2	386.76	1/2	45.32	1/2		1/2		1/2		1/2	
3/4	1,739.81	3/4	1,396.16	3/4	1,055.67	3/4	723.24	3/4	379.61	3/4	38.84	3/4		3/4		3/4		3/4	
3	1,732.65	3	1,389.00	3	1,048.81	3	716.08	3	372.45	3	33.92	3		3		3		3	
1/4	1,725.49	1/4	1,381.84	1/4	1,041.94	1/4	708.92	1/4	365.29	1/4	29.00	1/4		1/4		1/4		1/4	
1/2	1,718.33	1/2	1,374.69	1/2	1,035.08	1/2	701.77	1/2	358.13	1/2	24.08	1/2		1/2		1/2		1/2	
3/4	1,711.17	3/4	1,367.53	3/4	1,028.22	3/4	694.61	3/4	350.97	3/4		3/4		3/4		3/4		3/4	
4	1,704.01	4	1,360.37	4	1,021.36	4	687.45	4	343.81	4		4		4		4		4	
1/4	1,696.85	1/4	1,353.21	1/4	1,014.50	1/4	680.29	1/4	336.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,689.69	1/2	1,346.05	1/2	1,007.65	1/2	673.13	1/2	329.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,682.54	3/4	1,338.89	3/4	1,000.79	3/4	665.97	3/4	322.33	3/4		3/4		3/4		3/4		3/4	
5	1,675.38	5	1,331.73	5	993.93	5	658.81	5	315.17	5		5		5		5		5	
1/4	1,668.22	1/4	1,324.57	1/4	987.08	1/4	651.65	1/4	308.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,661.06	1/2	1,317.41	1/2	980.22	1/2	644.49	1/2	300.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,653.90	3/4	1,310.25	3/4	973.37	3/4	637.33	3/4	293.70	3/4		3/4		3/4		3/4		3/4	
6	1,646.74	6	1,303.09	6	966.51	6	630.17	6	286.54	6		6		6		6		6	
1/4	1,639.58	1/4	1,295.93	1/4	959.66	1/4	623.01	1/4	279.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,632.42	1/2	1,288.77	1/2	952.80	1/2	615.86	1/2	272.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,625.26	3/4	1,281.61	3/4	945.95	3/4	608.70	3/4	265.06	3/4		3/4		3/4		3/4		3/4	
7	1,618.10	7	1,274.46	7	939.09	7	601.54	7	257.90	7		7		7		7		7	
1/4	1,610.94	1/4	1,267.30	1/4	932.24	1/4	594.38	1/4	250.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,603.78	1/2	1,260.14	1/2	925.38	1/2	587.22	1/2	243.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,596.62	3/4	1,252.98	3/4	918.53	3/4	580.06	3/4	236.42	3/4		3/4		3/4		3/4		3/4	
8	1,589.46	8	1,245.82	8	911.67	8	572.90	8	229.26	8		8		8		8		8	
1/4	1,582.30	1/4	1,238.66	1/4	904.82	1/4	565.74	1/4	222.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,575.15	1/2	1,231.50	1/2	897.96	1/2	558.58	1/2	214.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,567.99	3/4	1,224.34	3/4	891.11	3/4	551.42	3/4	207.79	3/4		3/4		3/4		3/4		3/4	
9	1,560.83	9	1,217.18	9	884.25	9	544.26	9	200.63	9		9		9		9		9	
1/4	1,553.67	1/4	1,210.02	1/4	877.40	1/4	537.11	1/4	193.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,546.51	1/2	1,202.86	1/2	870.54	1/2	529.95	1/2	186.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,539.35	3/4	1,195.70	3/4	863.68	3/4	522.79	3/4	179.15	3/4		3/4		3/4		3/4		3/4	
10	1,532.19	10	1,188.54	10	856.83	10	515.63	10	171.99	10		10		10		10		10	
1/4	1,525.03	1/4	1,181.38	1/4	849.97	1/4	508.47	1/4	164.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,517.87	1/2	1,174.22	1/2	843.12	1/2	501.31	1/2	157.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,510.71	3/4	1,167.07	3/4	836.26	3/4	494.15	3/4	150.51	3/4		3/4		3/4		3/4		3/4	
11	1,503.55	11	1,159.91	11	829.41	11	486.99	11	143.36	11		11		11		11		11	
1/4	1,496.39	1/4	1,152.75	1/4	822.55	1/4	479.83	1/4	136.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,489.23	1/2	1,145.59	1/2	815.70	1/2	472.67	1/2	129.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,482.07	3/4	1,138.43	3/4	808.84	3/4	465.51	3/4	121.88	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2014 SW  
CALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

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



# BARGE "CTCo 325"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3"

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
			4,841.14		4,526.91		4,208.22		3,869.97		3,526.23		3,182.50		2,838.76		2,494.84		2,150.91
1/4		1/4	4,835.11	1/4	4,520.48	1/4	4,201.35	1/4	3,862.80	1/4	3,519.07	1/4	3,175.34	1/4	2,831.60	1/4	2,487.67	1/4	2,143.75
1/2		1/2	4,829.08	1/2	4,514.06	1/2	4,194.47	1/2	3,855.64	1/2	3,511.91	1/2	3,168.18	1/2	2,824.43	1/2	2,480.51	1/2	2,136.58
3/4		3/4	4,823.05	3/4	4,507.64	3/4	4,187.60	3/4	3,848.48	3/4	3,504.75	3/4	3,161.02	3/4	2,817.27	3/4	2,473.34	3/4	2,129.42
1		1	4,817.03	1	4,501.21	1	4,180.72	1	3,841.32	1	3,497.59	1	3,153.86	1	2,810.10	1	2,466.18	1	2,122.25
1/4		1/4	4,810.10	1/4	4,494.73	1/4	4,173.81	1/4	3,834.16	1/4	3,490.43	1/4	3,146.69	1/4	2,802.94	1/4	2,459.01	1/4	2,115.09
1/2		1/2	4,803.18	1/2	4,488.24	1/2	4,166.90	1/2	3,827.00	1/2	3,483.27	1/2	3,139.53	1/2	2,795.77	1/2	2,451.85	1/2	2,107.92
3/4		3/4	4,796.25	3/4	4,481.76	3/4	4,159.99	3/4	3,819.84	3/4	3,476.11	3/4	3,132.37	3/4	2,788.61	3/4	2,444.68	3/4	2,100.76
1		1	4,789.32	1	4,475.27	1	4,153.07	1	3,812.68	1	3,468.94	1	3,125.21	1	2,781.44	1	2,437.52	1	2,093.59
1/4		1/4	4,782.22	1/4	4,468.75	1/4	4,146.13	1/4	3,805.52	1/4	3,461.78	1/4	3,118.05	1/4	2,774.28	1/4	2,430.35	1/4	2,086.43
1/2		1/2	4,775.12	1/2	4,462.22	1/2	4,139.19	1/2	3,798.35	1/2	3,454.62	1/2	3,110.89	1/2	2,767.11	1/2	2,423.19	1/2	2,079.26
3/4		3/4	4,768.01	3/4	4,455.70	3/4	4,132.24	3/4	3,791.19	3/4	3,447.46	3/4	3,103.73	3/4	2,759.95	3/4	2,416.02	3/4	2,072.10
1		1	4,760.91	1	4,449.17	1	4,125.30	1	3,784.03	1	3,440.30	1	3,096.57	1	2,752.78	1	2,408.86	1	2,064.93
1/4		1/4	4,753.80	1/4	4,442.61	1/4	4,118.32	1/4	3,776.87	1/4	3,433.14	1/4	3,089.41	1/4	2,745.61	1/4	2,401.69	1/4	2,057.77
1/2		1/2	4,746.70	1/2	4,436.04	1/2	4,111.35	1/2	3,769.71	1/2	3,425.98	1/2	3,082.24	1/2	2,738.45	1/2	2,394.53	1/2	2,050.60
3/4		3/4	4,739.60	3/4	4,429.48	3/4	4,104.37	3/4	3,762.55	3/4	3,418.82	3/4	3,075.08	3/4	2,731.28	3/4	2,387.36	3/4	2,043.44
1		1	4,732.49	1	4,422.91	1	4,097.40	1	3,755.39	1	3,411.66	1	3,067.92	1	2,724.12	1	2,380.19	1	2,036.27
1/4		1/4	4,725.39	1/4	4,416.32	1/4	4,090.39	1/4	3,748.23	1/4	3,404.49	1/4	3,060.76	1/4	2,716.95	1/4	2,373.03	1/4	2,029.10
1/2		1/2	4,718.29	1/2	4,409.72	1/2	4,083.39	1/2	3,741.07	1/2	3,397.33	1/2	3,053.60	1/2	2,709.79	1/2	2,365.86	1/2	2,021.94
3/4		3/4	4,711.18	3/4	4,403.12	3/4	4,076.38	3/4	3,734.90	3/4	3,390.17	3/4	3,046.44	3/4	2,702.62	3/4	2,358.70	3/4	2,014.77
1		1	4,704.08	1	4,396.52	1	4,069.37	1	3,726.74	1	3,383.01	1	3,039.28	1	2,695.46	1	2,351.53	1	2,007.61
1/4		1/4	4,697.65	1/4	4,389.89	1/4	4,062.33	1/4	3,719.58	1/4	3,375.85	1/4	3,032.12	1/4	2,688.29	1/4	2,344.37	1/4	2,000.44
1/2		1/2	4,691.22	1/2	4,383.26	1/2	4,055.28	1/2	3,712.42	1/2	3,368.69	1/2	3,024.96	1/2	2,681.13	1/2	2,337.20	1/2	1,993.28
3/4		3/4	4,684.79	3/4	4,376.64	3/4	4,048.24	3/4	3,705.26	3/4	3,361.53	3/4	3,017.79	3/4	2,673.96	3/4	2,330.04	3/4	1,986.11
1		1	4,678.36	1	4,370.01	1	4,041.19	1	3,698.10	1	3,354.37	1	3,010.63	1	2,666.80	1	2,322.87	1	1,978.95
1/4		1/4	4,672.13	1/4	4,363.35	1/4	4,034.12	1/4	3,690.94	1/4	3,347.21	1/4	3,003.47	1/4	2,659.63	1/4	2,315.71	1/4	1,972.29
1/2		1/2	4,665.90	1/2	4,356.68	1/2	4,027.04	1/2	3,683.78	1/2	3,340.04	1/2	2,996.31	1/2	2,652.47	1/2	2,308.54	1/2	1,965.64
3/4		3/4	4,659.67	3/4	4,350.02	3/4	4,019.96	3/4	3,676.62	3/4	3,332.88	3/4	2,989.15	3/4	2,645.30	3/4	2,301.38	3/4	1,958.98
1		1	4,653.44	1	4,343.36	1	4,012.88	1	3,669.45	1	3,325.72	1	2,981.99	1	2,638.14	1	2,294.21	1	1,952.32
1/4		1/4	4,647.18	1/4	4,336.67	1/4	4,005.77	1/4	3,662.29	1/4	3,318.56	1/4	2,974.83	1/4	2,630.97	1/4	2,287.05	1/4	1,945.83
1/2		1/2	4,640.92	1/2	4,329.98	1/2	3,998.66	1/2	3,655.13	1/2	3,311.40	1/2	2,967.67	1/2	2,623.81	1/2	2,279.88	1/2	1,939.35
3/4		3/4	4,634.67	3/4	4,323.28	3/4	3,991.55	3/4	3,647.97	3/4	3,304.24	3/4	2,960.51	3/4	2,616.64	3/4	2,272.72	3/4	1,932.86
1		1	4,628.41	1	4,316.59	1	3,984.44	1	3,640.81	1	3,297.08	1	2,953.34	1	2,609.48	1	2,265.55	1	1,926.37
1/4		1/4	4,622.11	1/4	4,309.87	1/4	3,977.30	1/4	3,633.65	1/4	3,289.92	1/4	2,946.18	1/4	2,602.31	1/4	2,258.39	1/4	1,919.40
1/2		1/2	4,615.82	1/2	4,303.14	1/2	3,970.16	1/2	3,626.49	1/2	3,282.76	1/2	2,939.02	1/2	2,595.15	1/2	2,251.22	1/2	1,912.43
3/4		3/4	4,609.52	3/4	4,296.42	3/4	3,963.02	3/4	3,619.33	3/4	3,275.59	3/4	2,931.86	3/4	2,587.98	3/4	2,244.06	3/4	1,905.46
1		1	4,603.23	1	4,289.70	1	3,955.88	1	3,612.17	1	3,268.43	1	2,924.70	1	2,580.82	1	2,236.89	1	1,898.49
1/4		1/4	4,596.90	1/4	4,282.94	1/4	3,948.72	1/4	3,605.00	1/4	3,261.27	1/4	2,917.54	1/4	2,573.65	1/4	2,229.73	1/4	1,891.36
1/2		1/2	4,590.57	1/2	4,276.18	1/2	3,941.57	1/2	3,597.84	1/2	3,254.11	1/2	2,910.38	1/2	2,566.49	1/2	2,222.56	1/2	1,884.23
3/4		3/4	4,584.24	3/4	4,269.43	3/4	3,934.41	3/4	3,590.68	3/4	3,246.95	3/4	2,903.22	3/4	2,559.32	3/4	2,215.40	3/4	1,877.10
1		1	4,577.91	1	4,262.67	1	3,927.25	1	3,583.52	1	3,239.79	1	2,896.06	1	2,552.16	1	2,208.23	1	1,869.97
1/4		1/4	4,571.55	1/4	4,255.89	1/4	3,920.09	1/4	3,576.36	1/4	3,232.63	1/4	2,888.89	1/4	2,544.99	1/4	2,201.07	1/4	1,862.84
1/2		1/2	4,565.19	1/2	4,249.10	1/2	3,912.93	1/2	3,569.20	1/2	3,225.47	1/2	2,881.73	1/2	2,537.83	1/2	2,193.90	1/2	1,855.71
3/4		3/4	4,558.83	3/4	4,242.31	3/4	3,905.77	3/4	3,562.04	3/4	3,218.31	3/4	2,874.57	3/4	2,530.66	3/4	2,186.74	3/4	1,848.57
1		1	4,552.47	1	4,235.52	1	3,898.61	1	3,554.88	1	3,211.14	1	2,867.41	1	2,523.50	1	2,179.57	1	1,841.44
1/4		1/4	4,546.08	1/4	4,228.70	1/4	3,891.45	1/4	3,547.72	1/4	3,203.98	1/4	2,860.25	1/4	2,516.33	1/4	2,172.41	1/4	1,834.29
1/2		1/2	4,539.69	1/2	4,221.87	1/2	3,884.29	1/2	3,540.56	1/2	3,196.82	1/2	2,853.09	1/2	2,509.17	1/2	2,165.24	1/2	1,827.13
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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" DIAMETER OPENING ON "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "CTCo 325"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-3"

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	1,819.97	0	1,475.99	0	1,131.99	0	788.45	0	444.48	0	100.53	0		0		0		0	
1/4	1,812.81	1/4	1,468.82	1/4	1,124.83	1/4	781.29	1/4	437.31	1/4	93.37	1/4		1/4		1/4		1/4	
1/2	1,805.65	1/2	1,461.65	1/2	1,117.66	1/2	774.12	1/2	430.15	1/2	86.23	1/2		1/2		1/2		1/2	
3/4	1,798.48	3/4	1,454.49	3/4	1,110.50	3/4	766.96	3/4	422.98	3/4	79.09	3/4		3/4		3/4		3/4	
1	1,791.31	1	1,447.32	1	1,103.33	1	759.79	1	415.81	1	71.96	1		1		1		1	
1/4	1,784.15	1/4	1,440.15	1/4	1,096.16	1/4	752.62	1/4	408.65	1/4	64.82	1/4		1/4		1/4		1/4	
1/2	1,776.98	1/2	1,432.99	1/2	1,089.00	1/2	745.46	1/2	401.48	1/2	58.33	1/2		1/2		1/2		1/2	
3/4	1,769.81	3/4	1,425.82	3/4	1,081.84	3/4	738.29	3/4	394.31	3/4	51.85	3/4		3/4		3/4		3/4	
2	1,762.65	2	1,418.65	2	1,074.68	2	731.13	2	387.15	2	45.36	2		2		2		2	
1/4	1,755.48	1/4	1,411.49	1/4	1,067.51	1/4	723.96	1/4	379.98	1/4	38.88	1/4		1/4		1/4		1/4	
1/2	1,748.31	1/2	1,404.32	1/2	1,060.35	1/2	716.79	1/2	372.82	1/2	33.95	1/2		1/2		1/2		1/2	
3/4	1,741.15	3/4	1,397.16	3/4	1,053.19	3/4	709.63	3/4	365.65	3/4	29.03	3/4		3/4		3/4		3/4	
3	1,733.98	3	1,389.99	3	1,046.03	3	702.46	3	358.48	3	24.10	3		3		3		3	
1/4	1,726.81	1/4	1,382.82	1/4	1,038.87	1/4	695.30	1/4	351.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,719.65	1/2	1,375.66	1/2	1,031.71	1/2	688.13	1/2	344.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,712.48	3/4	1,368.49	3/4	1,024.56	3/4	680.96	3/4	336.99	3/4		3/4		3/4		3/4		3/4	
4	1,705.31	4	1,361.32	4	1,017.40	4	673.80	4	329.82	4		4		4		4		4	
1/4	1,698.15	1/4	1,354.16	1/4	1,010.25	1/4	666.63	1/4	322.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,690.98	1/2	1,346.99	1/2	1,003.10	1/2	659.46	1/2	315.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,683.82	3/4	1,339.82	3/4	995.94	3/4	652.30	3/4	308.32	3/4		3/4		3/4		3/4		3/4	
5	1,676.65	5	1,332.66	5	988.79	5	645.13	5	301.15	5		5		5		5		5	
1/4	1,669.48	1/4	1,325.49	1/4	981.64	1/4	637.97	1/4	293.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,662.32	1/2	1,318.32	1/2	974.48	1/2	630.80	1/2	286.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,655.15	3/4	1,311.16	3/4	967.33	3/4	623.63	3/4	279.66	3/4		3/4		3/4		3/4		3/4	
6	1,647.98	6	1,303.99	6	960.17	6	616.47	6	272.49	6		6		6		6		6	
1/4	1,640.82	1/4	1,296.82	1/4	953.02	1/4	609.30	1/4	265.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,633.65	1/2	1,289.66	1/2	945.87	1/2	602.13	1/2	258.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,626.48	3/4	1,282.49	3/4	938.71	3/4	594.97	3/4	250.99	3/4		3/4		3/4		3/4		3/4	
7	1,619.32	7	1,275.32	7	931.56	7	587.80	7	243.82	7		7		7		7		7	
1/4	1,612.15	1/4	1,268.16	1/4	924.41	1/4	580.64	1/4	236.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,604.98	1/2	1,260.99	1/2	917.25	1/2	573.47	1/2	229.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,597.82	3/4	1,253.83	3/4	910.10	3/4	566.30	3/4	222.33	3/4		3/4		3/4		3/4		3/4	
8	1,590.65	8	1,246.66	8	902.95	8	559.14	8	215.16	8		8		8		8		8	
1/4	1,583.48	1/4	1,239.49	1/4	895.79	1/4	551.97	1/4	207.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,576.32	1/2	1,232.33	1/2	888.64	1/2	544.80	1/2	200.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,569.15	3/4	1,225.16	3/4	881.48	3/4	537.64	3/4	193.66	3/4		3/4		3/4		3/4		3/4	
9	1,561.98	9	1,217.99	9	874.33	9	530.47	9	186.49	9		9		9		9		9	
1/4	1,554.82	1/4	1,210.83	1/4	867.18	1/4	523.31	1/4	179.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,547.65	1/2	1,203.66	1/2	860.02	1/2	516.14	1/2	172.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,540.49	3/4	1,196.49	3/4	852.87	3/4	508.97	3/4	165.00	3/4		3/4		3/4		3/4		3/4	
10	1,533.32	10	1,189.33	10	845.72	10	501.81	10	157.83	10		10		10		10		10	
1/4	1,526.15	1/4	1,182.16	1/4	838.56	1/4	494.64	1/4	150.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,518.99	1/2	1,174.99	1/2	831.41	1/2	487.48	1/2	143.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,511.82	3/4	1,167.83	3/4	824.26	3/4	480.31	3/4	136.33	3/4		3/4		3/4		3/4		3/4	
11	1,504.65	11	1,160.66	11	817.10	11	473.14	11	129.17	11		11		11		11		11	
1/4	1,497.49	1/4	1,153.49	1/4	809.95	1/4	465.98	1/4	122.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,490.32	1/2	1,146.33	1/2	802.78	1/2	458.81	1/2	114.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,483.15	3/4	1,139.16	3/4	795.62	3/4	451.64	3/4	107.69	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2014 SW  
CALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

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



# BARGE "CTCo 325"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-2 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
0	0	4,382.68	0	4,214.61	0	4,042.34	0	3,859.02	0	3,667.26	0	3,336.09	0	2,972.89	0	2,609.46	0	2,247.27		
1/4	1/4	4,379.98	1/4	4,211.16	1/4	4,038.63	1/4	3,855.14	1/4	3,663.19	1/4	3,328.55	1/4	2,965.31	1/4	2,601.88	1/4	2,239.75		
1/2	1/2	4,377.28	1/2	4,207.71	1/2	4,034.92	1/2	3,851.26	1/2	3,659.11	1/2	3,321.00	1/2	2,957.74	1/2	2,594.30	1/2	2,232.24		
3/4	3/4	4,373.63	3/4	4,204.22	3/4	4,031.18	3/4	3,847.39	3/4	3,655.04	3/4	3,313.44	3/4	2,950.17	3/4	2,586.73	3/4	2,224.72		
1	1	4,369.98	1	4,200.73	1	4,027.44	1	3,843.51	1	3,650.97	1	3,305.87	1	2,942.60	1	2,579.15	1	2,217.21		
1/4	1/4	4,366.33	1/4	4,197.24	1/4	4,023.71	1/4	3,839.63	1/4	3,646.90	1/4	3,298.31	1/4	2,935.03	1/4	2,571.57	1/4	2,209.69		
1/2	1/2	4,362.68	1/2	4,193.75	1/2	4,019.97	1/2	3,835.75	1/2	3,642.83	1/2	3,290.75	1/2	2,927.46	1/2	2,563.99	1/2	2,202.18		
3/4	3/4	4,358.84	3/4	4,190.24	3/4	4,016.22	3/4	3,831.88	3/4	3,637.43	3/4	3,283.18	3/4	2,919.89	3/4	2,556.42	3/4	2,194.66		
2	2	4,355.00	2	4,186.73	2	4,012.47	2	3,828.00	2	3,632.04	2	3,275.61	2	2,912.32	2	2,548.84	2	2,187.15		
1/4	1/4	4,351.16	1/4	4,183.21	1/4	4,008.71	1/4	3,824.12	1/4	3,626.65	1/4	3,268.05	1/4	2,904.75	1/4	2,541.26	1/4	2,179.63		
1/2	1/2	4,347.32	1/2	4,179.70	1/2	4,004.96	1/2	3,820.24	1/2	3,621.26	1/2	3,260.48	1/2	2,897.18	1/2	2,533.68	1/2	2,172.12		
3/4	3/4	4,343.49	3/4	4,176.16	3/4	4,001.19	3/4	3,816.37	3/4	3,614.14	3/4	3,252.91	3/4	2,889.61	3/4	2,526.13	3/4	2,164.60		
3	3	4,339.65	3	4,172.63	3	3,997.42	3	3,812.49	3	3,607.01	3	3,245.34	3	2,882.04	3	2,518.58	3	2,157.09		
1/4	1/4	4,335.81	1/4	4,169.09	1/4	3,993.64	1/4	3,808.61	1/4	3,599.88	1/4	3,237.77	1/4	2,874.47	1/4	2,511.03	1/4	2,149.57		
1/2	1/2	4,331.97	1/2	4,165.55	1/2	3,989.87	1/2	3,804.74	1/2	3,592.76	1/2	3,230.21	1/2	2,866.90	1/2	2,503.48	1/2	2,142.06		
3/4	3/4	4,328.13	3/4	4,162.00	3/4	3,986.08	3/4	3,800.86	3/4	3,585.20	3/4	3,222.64	3/4	2,859.33	3/4	2,495.95	3/4	2,134.54		
4	4	4,324.29	4	4,158.44	4	3,982.29	4	3,796.98	4	3,577.64	4	3,215.07	4	2,851.76	4	2,488.41	4	2,127.03		
1/4	1/4	4,320.46	1/4	4,154.89	1/4	3,978.50	1/4	3,793.10	1/4	3,570.08	1/4	3,207.50	1/4	2,844.19	1/4	2,480.87	1/4	2,119.51		
1/2	1/2	4,316.62	1/2	4,151.34	1/2	3,974.71	1/2	3,789.23	1/2	3,562.52	1/2	3,199.93	1/2	2,836.61	1/2	2,473.33	1/2	2,112.00		
3/4	3/4	4,313.16	3/4	4,147.76	3/4	3,970.90	3/4	3,785.35	3/4	3,554.97	3/4	3,192.37	3/4	2,829.04	3/4	2,465.79	3/4	2,104.48		
5	5	4,309.71	5	4,144.19	5	3,967.09	5	3,781.28	5	3,547.42	5	3,184.80	5	2,821.47	5	2,458.25	5	2,096.97		
1/4	1/4	4,306.25	1/4	4,140.62	1/4	3,963.28	1/4	3,777.20	1/4	3,539.87	1/4	3,177.23	1/4	2,813.90	1/4	2,450.71	1/4	2,089.45		
1/2	1/2	4,302.80	1/2	4,137.04	1/2	3,959.47	1/2	3,773.13	1/2	3,532.32	1/2	3,169.66	1/2	2,806.33	1/2	2,443.17	1/2	2,081.94		
3/4	3/4	4,299.46	3/4	4,133.45	3/4	3,955.64	3/4	3,769.06	3/4	3,524.77	3/4	3,162.09	3/4	2,798.76	3/4	2,435.63	3/4	2,074.96		
6	6	4,296.12	6	4,129.86	6	3,951.81	6	3,764.99	6	3,517.23	6	3,154.53	6	2,791.19	6	2,428.09	6	2,067.98		
1/4	1/4	4,292.77	1/4	4,126.27	1/4	3,947.98	1/4	3,760.92	1/4	3,509.68	1/4	3,146.96	1/4	2,783.62	1/4	2,420.55	1/4	2,061.01		
1/2	1/2	4,289.43	1/2	4,122.68	1/2	3,944.15	1/2	3,756.84	1/2	3,502.13	1/2	3,139.39	1/2	2,776.05	1/2	2,413.01	1/2	2,054.03		
3/4	3/4	4,286.08	3/4	4,119.07	3/4	3,940.30	3/4	3,752.77	3/4	3,494.58	3/4	3,131.82	3/4	2,768.48	3/4	2,405.47	3/4	2,047.23		
7	7	4,282.72	7	4,115.46	7	3,936.45	7	3,748.70	7	3,487.04	7	3,124.26	7	2,760.91	7	2,397.93	7	2,040.44		
1/4	1/4	4,279.36	1/4	4,111.86	1/4	3,932.60	1/4	3,744.63	1/4	3,479.49	1/4	3,116.69	1/4	2,753.34	1/4	2,390.39	1/4	2,033.64		
1/2	1/2	4,276.01	1/2	4,108.25	1/2	3,928.76	1/2	3,740.56	1/2	3,471.94	1/2	3,109.12	1/2	2,745.77	1/2	2,382.85	1/2	2,026.84		
3/4	3/4	4,272.63	3/4	4,104.62	3/4	3,924.89	3/4	3,736.48	3/4	3,464.40	3/4	3,101.55	3/4	2,738.20	3/4	2,375.31	3/4	2,019.53		
8	8	4,269.25	8	4,100.99	8	3,921.02	8	3,732.41	8	3,456.85	8	3,093.98	8	2,730.63	8	2,367.78	8	2,012.22		
1/4	1/4	4,265.87	1/4	4,097.37	1/4	3,917.16	1/4	3,728.34	1/4	3,449.30	1/4	3,086.42	1/4	2,723.06	1/4	2,360.24	1/4	2,004.91		
1/2	1/2	4,262.49	1/2	4,093.74	1/2	3,913.29	1/2	3,724.27	1/2	3,441.75	1/2	3,078.85	1/2	2,715.48	1/2	2,352.70	1/2	1,997.60		
3/4	3/4	4,259.10	3/4	4,090.09	3/4	3,909.42	3/4	3,720.20	3/4	3,434.21	3/4	3,071.28	3/4	2,707.91	3/4	2,345.16	3/4	1,990.12		
9	9	4,255.70	9	4,086.45	9	3,905.54	9	3,716.12	9	3,426.66	9	3,063.71	9	2,700.34	9	2,337.62	9	1,982.64		
1/4	1/4	4,252.30	1/4	4,082.81	1/4	3,901.67	1/4	3,712.05	1/4	3,419.11	1/4	3,056.14	1/4	2,692.77	1/4	2,330.08	1/4	1,975.16		
1/2	1/2	4,248.91	1/2	4,079.16	1/2	3,897.79	1/2	3,707.98	1/2	3,411.57	1/2	3,048.58	1/2	2,685.20	1/2	2,322.54	1/2	1,967.68		
3/4	3/4	4,245.49	3/4	4,075.50	3/4	3,893.91	3/4	3,703.91	3/4	3,404.02	3/4	3,041.01	3/4	2,677.63	3/4	2,315.00	3/4	1,960.20		
10	10	4,242.08	10	4,071.84	10	3,890.04	10	3,699.83	10	3,396.47	10	3,033.44	10	2,670.06	10	2,307.46	10	1,952.71		
1/4	1/4	4,238.66	1/4	4,068.17	1/4	3,886.16	1/4	3,695.76	1/4	3,388.92	1/4	3,025.87	1/4	2,662.49	1/4	2,299.92	1/4	1,945.23		
1/2	1/2	4,235.25	1/2	4,064.51	1/2	3,882.28	1/2	3,691.69	1/2	3,381.38	1/2	3,018.30	1/2	2,654.92	1/2	2,292.38	1/2	1,937.75		
3/4	3/4	4,231.81	3/4	4,060.83	3/4	3,878.40	3/4	3,687.62	3/4	3,373.83	3/4	3,010.73	3/4	2,647.34	3/4	2,284.86	3/4	1,930.20		
11	11	4,228.38	11	4,057.14	11	3,874.53	11	3,683.55	11	3,366.28	11	3,003.17	11	2,639.77	11	2,277.34	11	1,922.64		
1/4	1/4	4,224.95	1/4	4,053.46	1/4	3,870.65	1/4	3,679.47	1/4	3,358.74	1/4	2,995.60	1/4	2,632.19	1/4	2,269.82	1/4	1,915.09		
1/2	1/2	4,388.08	1/2	4,221.51	1/2	4,049.77	1/2	3,866.77	1/2	3,675.40	1/2	3,351.19	1/2	2,988.03	1/2	2,624.62	1/2	2,262.30	1/2	1,907.54
3/4	3/4	4,385.38	3/4	4,218.06	3/4	4,046.06	3/4	3,862.89	3/4	3,671.33	3/4	3,343.64	3/4	2,980.46	3/4	2,617.04	3/4	2,254.78	3/4	1,899.96

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" DIAMETER OPENING ON "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 325"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-2 1/4"

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	1,892.38	0	1,528.57	0	1,165.81	0	811.74	0	447.73	0	83.80	0		0		0		0	
1/4	1,884.80	1/4	1,520.99	1/4	1,158.44	1/4	804.15	1/4	440.15	1/4	76.24	1/4		1/4		1/4		1/4	
1/2	1,877.22	1/2	1,513.41	1/2	1,151.07	1/2	796.57	1/2	432.57	1/2	68.68	1/2		1/2		1/2		1/2	
3/4	1,869.64	3/4	1,505.83	3/4	1,143.71	3/4	788.98	3/4	424.98	3/4	61.80	3/4		3/4		3/4		3/4	
1	1,862.06	1	1,498.25	1	1,136.35	1	781.40	1	417.40	1	54.93	1		1		1		1	
1/4	1,854.48	1/4	1,490.67	1/4	1,128.99	1/4	773.82	1/4	409.82	1/4	48.06	1/4		1/4		1/4		1/4	
1/2	1,846.90	1/2	1,483.09	1/2	1,121.63	1/2	766.23	1/2	402.24	1/2	41.18	1/2		1/2		1/2		1/2	
3/4	1,839.32	3/4	1,475.51	3/4	1,114.27	3/4	758.65	3/4	394.65	3/4	35.96	3/4		3/4		3/4		3/4	
2	1,831.74	2	1,467.93	2	1,106.91	2	751.07	2	387.07	2	30.74	2		2		2		2	
1/4	1,824.16	1/4	1,460.35	1/4	1,099.56	1/4	743.48	1/4	379.49	1/4	25.52	1/4		1/4		1/4		1/4	
1/2	1,816.58	1/2	1,452.77	1/2	1,092.20	1/2	735.90	1/2	371.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,809.00	3/4	1,445.19	3/4	1,084.85	3/4	728.32	3/4	364.33	3/4		3/4		3/4		3/4		3/4	
3	1,801.43	3	1,437.61	3	1,077.50	3	720.73	3	356.74	3		3		3		3		3	
1/4	1,793.85	1/4	1,430.03	1/4	1,070.15	1/4	713.15	1/4	349.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,786.27	1/2	1,422.46	1/2	1,062.79	1/2	705.57	1/2	341.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,778.69	3/4	1,414.88	3/4	1,055.44	3/4	697.98	3/4	334.00	3/4		3/4		3/4		3/4		3/4	
4	1,771.11	4	1,407.30	4	1,048.09	4	690.40	4	326.41	4		4		4		4		4	
1/4	1,763.53	1/4	1,399.72	1/4	1,040.74	1/4	682.81	1/4	318.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,755.95	1/2	1,392.14	1/2	1,033.40	1/2	675.23	1/2	311.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,748.37	3/4	1,384.56	3/4	1,026.05	3/4	667.65	3/4	303.67	3/4		3/4		3/4		3/4		3/4	
5	1,740.79	5	1,376.98	5	1,018.70	5	660.06	5	296.09	5		5		5		5		5	
1/4	1,733.21	1/4	1,369.40	1/4	1,011.35	1/4	652.48	1/4	288.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,725.63	1/2	1,361.82	1/2	1,004.00	1/2	644.90	1/2	280.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,718.05	3/4	1,354.24	3/4	996.65	3/4	637.31	3/4	273.34	3/4		3/4		3/4		3/4		3/4	
6	1,710.47	6	1,346.66	6	989.30	6	629.73	6	265.76	6		6		6		6		6	
1/4	1,702.89	1/4	1,339.08	1/4	981.95	1/4	622.15	1/4	258.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,695.31	1/2	1,331.50	1/2	974.60	1/2	614.56	1/2	250.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,687.73	3/4	1,323.92	3/4	967.25	3/4	606.98	3/4	243.01	3/4		3/4		3/4		3/4		3/4	
7	1,680.15	7	1,316.34	7	959.90	7	599.39	7	235.43	7		7		7		7		7	
1/4	1,672.58	1/4	1,308.76	1/4	952.55	1/4	591.81	1/4	227.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,665.00	1/2	1,301.18	1/2	945.20	1/2	584.23	1/2	220.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,657.42	3/4	1,293.61	3/4	937.85	3/4	576.64	3/4	212.68	3/4		3/4		3/4		3/4		3/4	
8	1,649.84	8	1,286.03	8	930.50	8	569.06	8	205.09	8		8		8		8		8	
1/4	1,642.26	1/4	1,278.45	1/4	923.15	1/4	561.48	1/4	197.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,634.68	1/2	1,270.87	1/2	915.80	1/2	553.89	1/2	189.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,627.10	3/4	1,263.29	3/4	908.45	3/4	546.31	3/4	182.34	3/4		3/4		3/4		3/4		3/4	
9	1,619.52	9	1,255.71	9	901.10	9	538.73	9	174.76	9		9		9		9		9	
1/4	1,611.94	1/4	1,248.13	1/4	893.75	1/4	531.14	1/4	167.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,604.36	1/2	1,240.55	1/2	886.40	1/2	523.56	1/2	159.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,596.78	3/4	1,232.97	3/4	879.05	3/4	515.98	3/4	152.00	3/4		3/4		3/4		3/4		3/4	
10	1,589.20	10	1,225.39	10	871.70	10	508.39	10	144.42	10		10		10		10		10	
1/4	1,581.62	1/4	1,217.81	1/4	864.35	1/4	500.81	1/4	136.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,574.04	1/2	1,210.23	1/2	857.00	1/2	493.22	1/2	129.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,566.46	3/4	1,202.81	3/4	849.48	3/4	485.64	3/4	121.67	3/4		3/4		3/4		3/4		3/4	
11	1,558.88	11	1,195.39	11	841.95	11	478.06	11	114.09	11		11		11		11		11	
1/4	1,551.30	1/4	1,187.97	1/4	834.43	1/4	470.48	1/4	106.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,543.73	1/2	1,180.55	1/2	826.90	1/2	462.89	1/2	98.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,536.15	3/4	1,173.18	3/4	819.32	3/4	455.31	3/4	91.37	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2014 SW  
CALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

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



# BARGE "CTCo 325"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-2 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	4,408.88	0	4,242.51	0	4,070.95	0	3,888.12	0	3,696.92	0	3,372.27	0	3,008.32	0	2,644.13	0	2,279.62
1/4		1/4	4,406.18	1/4	4,239.06	1/4	4,067.24	1/4	3,884.25	1/4	3,692.85	1/4	3,364.70	1/4	3,000.73	1/4	2,636.54	1/4	2,272.02
1/2		1/2	4,403.49	1/2	4,235.61	1/2	4,063.53	1/2	3,880.37	1/2	3,688.78	1/2	3,357.14	1/2	2,993.15	1/2	2,628.95	1/2	2,264.43
3/4		3/4	4,400.79	3/4	4,232.17	3/4	4,059.82	3/4	3,876.50	3/4	3,684.71	3/4	3,349.57	3/4	2,985.56	3/4	2,621.35	3/4	2,256.83
1		1	4,398.10	1	4,228.72	1	4,056.11	1	3,872.62	1	3,680.64	1	3,342.01	1	2,977.97	1	2,613.76	1	2,249.24
1/4		1/4	4,394.45	1/4	4,225.24	1/4	4,052.38	1/4	3,868.75	1/4	3,676.57	1/4	3,334.43	1/4	2,970.39	1/4	2,606.16	1/4	2,241.65
1/2		1/2	4,390.81	1/2	4,221.75	1/2	4,048.64	1/2	3,864.88	1/2	3,672.50	1/2	3,326.85	1/2	2,962.80	1/2	2,598.57	1/2	2,234.05
3/4		3/4	4,387.16	3/4	4,218.26	3/4	4,044.91	3/4	3,861.00	3/4	3,668.44	3/4	3,319.27	3/4	2,955.21	3/4	2,590.98	3/4	2,226.46
2		2	4,383.52	2	4,214.78	2	4,041.18	2	3,857.13	2	3,664.37	2	3,311.69	2	2,947.63	2	2,583.38	2	2,218.86
1/4		1/4	4,379.68	1/4	4,211.27	1/4	4,037.43	1/4	3,853.26	1/4	3,658.98	1/4	3,304.11	1/4	2,940.04	1/4	2,575.79	1/4	2,211.27
1/2		1/2	4,375.85	1/2	4,207.76	1/2	4,033.68	1/2	3,849.38	1/2	3,653.59	1/2	3,296.53	1/2	2,932.45	1/2	2,568.19	1/2	2,203.68
3/4		3/4	4,372.01	3/4	4,204.25	3/4	4,029.93	3/4	3,845.51	3/4	3,648.20	3/4	3,288.94	3/4	2,924.87	3/4	2,560.60	3/4	2,196.08
3		3	4,368.18	3	4,200.74	3	4,026.18	3	3,841.63	3	3,642.81	3	3,281.36	3	2,917.28	3	2,553.00	3	2,188.49
1/4		1/4	4,364.34	1/4	4,197.21	1/4	4,022.41	1/4	3,837.76	1/4	3,635.68	1/4	3,273.77	1/4	2,909.69	1/4	2,545.41	1/4	2,180.89
1/2		1/2	4,360.51	1/2	4,193.67	1/2	4,018.64	1/2	3,833.89	1/2	3,628.55	1/2	3,266.19	1/2	2,902.11	1/2	2,537.82	1/2	2,173.30
3/4		3/4	4,356.67	3/4	4,190.14	3/4	4,014.88	3/4	3,830.01	3/4	3,621.42	3/4	3,258.61	3/4	2,894.52	3/4	2,530.22	3/4	2,165.71
4		4	4,352.84	4	4,186.61	4	4,011.11	4	3,826.14	4	3,614.29	4	3,251.02	4	2,886.93	4	2,522.63	4	2,158.11
1/4		1/4	4,349.00	1/4	4,183.06	1/4	4,007.32	1/4	3,822.27	1/4	3,606.73	1/4	3,243.44	1/4	2,879.34	1/4	2,515.03	1/4	2,150.52
1/2		1/2	4,345.17	1/2	4,179.51	1/2	4,003.54	1/2	3,818.39	1/2	3,599.17	1/2	3,235.85	1/2	2,871.76	1/2	2,507.44	1/2	2,142.92
3/4		3/4	4,341.34	3/4	4,175.96	3/4	3,999.75	3/4	3,814.52	3/4	3,591.60	3/4	3,228.27	3/4	2,864.17	3/4	2,499.85	3/4	2,135.33
5		5	4,337.50	5	4,172.41	5	3,995.96	5	3,810.65	5	3,584.04	5	3,220.68	5	2,856.58	5	2,492.25	5	2,127.74
1/4		1/4	4,334.05	1/4	4,168.84	1/4	3,992.16	1/4	3,806.77	1/4	3,576.48	1/4	3,213.10	1/4	2,849.00	1/4	2,484.66	1/4	2,120.14
1/2		1/2	4,330.60	1/2	4,165.27	1/2	3,988.35	1/2	3,802.70	1/2	3,568.91	1/2	3,205.52	1/2	2,841.41	1/2	2,477.06	1/2	2,112.55
3/4		3/4	4,327.15	3/4	4,161.70	3/4	3,984.54	3/4	3,798.63	3/4	3,561.35	3/4	3,197.93	3/4	2,833.82	3/4	2,469.47	3/4	2,104.95
6		6	4,323.70	6	4,158.13	6	3,980.73	6	3,794.57	6	3,553.79	6	3,190.35	6	2,826.24	6	2,461.88	6	2,097.36
1/4		1/4	4,320.36	1/4	4,154.54	1/4	3,976.91	1/4	3,790.50	1/4	3,546.22	1/4	3,182.76	1/4	2,818.65	1/4	2,454.28	1/4	2,090.30
1/2		1/2	4,317.02	1/2	4,150.96	1/2	3,973.08	1/2	3,786.43	1/2	3,538.66	1/2	3,175.18	1/2	2,811.06	1/2	2,446.69	1/2	2,083.25
3/4		3/4	4,313.68	3/4	4,147.37	3/4	3,969.26	3/4	3,782.36	3/4	3,531.10	3/4	3,167.60	3/4	2,803.48	3/4	2,439.09	3/4	2,076.19
7		7	4,310.35	7	4,143.78	7	3,965.43	7	3,778.29	7	3,523.53	7	3,160.01	7	2,795.89	7	2,431.50	7	2,069.14
1/4		1/4	4,306.99	1/4	4,140.18	1/4	3,961.58	1/4	3,774.22	1/4	3,515.97	1/4	3,152.43	1/4	2,788.30	1/4	2,423.90	1/4	2,062.26
1/2		1/2	4,303.64	1/2	4,136.57	1/2	3,957.74	1/2	3,770.15	1/2	3,508.41	1/2	3,144.84	1/2	2,780.72	1/2	2,416.31	1/2	2,055.39
3/4		3/4	4,300.29	3/4	4,132.97	3/4	3,953.89	3/4	3,766.08	3/4	3,500.84	3/4	3,137.26	3/4	2,773.13	3/4	2,408.72	3/4	2,048.51
8		8	4,296.94	8	4,129.36	8	3,950.05	8	3,762.02	8	3,493.28	8	3,129.68	8	2,765.54	8	2,401.12	8	2,041.64
1/4		1/4	4,293.56	1/4	4,125.74	1/4	3,946.19	1/4	3,757.95	1/4	3,485.72	1/4	3,122.09	1/4	2,757.96	1/4	2,393.53	1/4	2,034.25
1/2		1/2	4,290.19	1/2	4,122.12	1/2	3,942.32	1/2	3,753.88	1/2	3,478.15	1/2	3,114.51	1/2	2,750.37	1/2	2,385.93	1/2	2,026.86
3/4		3/4	4,286.81	3/4	4,118.49	3/4	3,938.46	3/4	3,749.81	3/4	3,470.59	3/4	3,106.92	3/4	2,742.78	3/4	2,378.34	3/4	2,019.47
9		9	4,283.44	9	4,114.87	9	3,934.60	9	3,745.74	9	3,463.03	9	3,099.34	9	2,735.20	9	2,370.75	9	2,012.08
1/4		1/4	4,280.05	1/4	4,111.23	1/4	3,930.73	1/4	3,741.67	1/4	3,455.46	1/4	3,091.75	1/4	2,727.61	1/4	2,363.15	1/4	2,004.52
1/2		1/2	4,276.65	1/2	4,107.59	1/2	3,926.85	1/2	3,737.60	1/2	3,447.90	1/2	3,084.17	1/2	2,720.02	1/2	2,355.56	1/2	1,996.96
3/4		3/4	4,273.26	3/4	4,103.95	3/4	3,922.98	3/4	3,733.53	3/4	3,440.34	3/4	3,076.59	3/4	2,712.44	3/4	2,347.96	3/4	1,989.40
10		10	4,269.87	10	4,100.31	10	3,919.11	10	3,729.47	10	3,432.77	10	3,069.00	10	2,704.85	10	2,340.37	10	1,981.84
1/4		1/4	4,266.46	1/4	4,096.65	1/4	3,915.24	1/4	3,725.40	1/4	3,425.21	1/4	3,061.42	1/4	2,697.26	1/4	2,332.78	1/4	1,974.28
1/2		1/2	4,263.05	1/2	4,092.99	1/2	3,911.36	1/2	3,721.33	1/2	3,417.65	1/2	3,053.83	1/2	2,689.67	1/2	2,325.18	1/2	1,966.72
3/4		3/4	4,259.64	3/4	4,089.33	3/4	3,907.49	3/4	3,717.26	3/4	3,410.08	3/4	3,046.25	3/4	2,682.09	3/4	2,317.59	3/4	1,959.16
11		11	4,256.22	11	4,085.67	11	3,903.61	11	3,713.19	11	3,402.52	11	3,038.67	11	2,674.50	11	2,309.99	11	1,951.60
1/4		1/4	4,252.80	1/4	4,081.99	1/4	3,899.74	1/4	3,709.12	1/4	3,394.96	1/4	3,031.08	1/4	2,666.91	1/4	2,302.40	1/4	1,944.01
1/2		1/2	4,249.37	1/2	4,078.31	1/2	3,895.87	1/2	3,705.05	1/2	3,387.39	1/2	3,023.49	1/2	2,659.32	1/2	2,294.81	1/2	1,936.43
3/4		3/4	4,245.94	3/4	4,074.63	3/4	3,891.99	3/4	3,700.99	3/4	3,379.83	3/4	3,015.91	3/4	2,651.73	3/4	2,287.21	3/4	1,928.84

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" DIAMETER OPENING ON "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 325"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-2 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,921.25	0	1,556.67	0	1,192.08	0	828.05	0	463.48	0	98.94	0		0		0		0	
1/4	1,913.66	1/4	1,549.07	1/4	1,184.49	1/4	820.46	1/4	455.88	1/4	91.38	1/4		1/4		1/4		1/4	
1/2	1,906.06	1/2	1,541.48	1/2	1,176.89	1/2	812.86	1/2	448.29	1/2	83.81	1/2		1/2		1/2		1/2	
3/4	1,898.47	3/4	1,533.88	3/4	1,169.30	3/4	805.27	3/4	440.69	3/4	76.25	3/4		3/4		3/4		3/4	
1	1,890.87	1	1,526.29	1	1,161.70	1	797.67	1	433.10	1	68.68	1		1		1		1	
1/4	1,883.27	1/4	1,518.69	1/4	1,154.11	1/4	790.08	1/4	425.50	1/4	61.81	1/4		1/4		1/4		1/4	
1/2	1,875.68	1/2	1,511.10	1/2	1,146.52	1/2	782.48	1/2	417.91	1/2	54.94	1/2		1/2		1/2		1/2	
3/4	1,868.08	3/4	1,503.50	3/4	1,138.93	3/4	774.89	3/4	410.31	3/4	48.06	3/4		3/4		3/4		3/4	
2	1,860.49	2	1,495.90	2	1,131.34	2	767.29	2	402.72	2	41.19	2		2		2		2	
1/4	1,852.89	1/4	1,488.31	1/4	1,123.76	1/4	759.69	1/4	395.12	1/4	35.97	1/4		1/4		1/4		1/4	
1/2	1,845.30	1/2	1,480.71	1/2	1,116.17	1/2	752.10	1/2	387.52	1/2	30.75	1/2		1/2		1/2		1/2	
3/4	1,837.70	3/4	1,473.12	3/4	1,108.58	3/4	744.50	3/4	379.93	3/4	25.53	3/4		3/4		3/4		3/4	
3	1,830.11	3	1,465.52	3	1,100.99	3	736.91	3	372.33	3		3		3		3		3	
1/4	1,822.51	1/4	1,457.93	1/4	1,093.41	1/4	729.31	1/4	364.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,814.92	1/2	1,450.33	1/2	1,085.83	1/2	721.72	1/2	357.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,807.32	3/4	1,442.74	3/4	1,078.25	3/4	714.12	3/4	349.55	3/4		3/4		3/4		3/4		3/4	
4	1,799.72	4	1,435.14	4	1,070.66	4	706.53	4	341.95	4		4		4		4		4	
1/4	1,792.13	1/4	1,427.54	1/4	1,063.08	1/4	698.93	1/4	334.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,784.53	1/2	1,419.95	1/2	1,055.50	1/2	691.34	1/2	326.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,776.94	3/4	1,412.35	3/4	1,047.92	3/4	683.74	3/4	319.17	3/4		3/4		3/4		3/4		3/4	
5	1,769.34	5	1,404.76	5	1,040.34	5	676.15	5	311.57	5		5		5		5		5	
1/4	1,761.75	1/4	1,397.16	1/4	1,032.76	1/4	668.55	1/4	303.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.15	1/2	1,389.57	1/2	1,025.18	1/2	660.96	1/2	296.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.56	3/4	1,381.97	3/4	1,017.60	3/4	653.36	3/4	288.79	3/4		3/4		3/4		3/4		3/4	
6	1,738.96	6	1,374.38	6	1,010.02	6	645.77	6	281.19	6		6		6		6		6	
1/4	1,731.36	1/4	1,366.78	1/4	1,002.44	1/4	638.17	1/4	273.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,723.77	1/2	1,359.19	1/2	994.86	1/2	630.57	1/2	266.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,716.17	3/4	1,351.59	3/4	987.28	3/4	622.98	3/4	258.40	3/4		3/4		3/4		3/4		3/4	
7	1,708.58	7	1,343.99	7	979.70	7	615.38	7	250.81	7		7		7		7		7	
1/4	1,700.98	1/4	1,336.40	1/4	972.12	1/4	607.79	1/4	243.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,693.39	1/2	1,328.80	1/2	964.54	1/2	600.19	1/2	235.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,685.79	3/4	1,321.21	3/4	956.96	3/4	592.60	3/4	228.02	3/4		3/4		3/4		3/4		3/4	
8	1,678.20	8	1,313.61	8	949.38	8	585.00	8	220.43	8		8		8		8		8	
1/4	1,670.60	1/4	1,306.02	1/4	941.80	1/4	577.41	1/4	212.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,663.01	1/2	1,298.42	1/2	934.22	1/2	569.81	1/2	205.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,655.41	3/4	1,290.83	3/4	926.64	3/4	562.22	3/4	197.64	3/4		3/4		3/4		3/4		3/4	
9	1,647.81	9	1,283.23	9	919.06	9	554.62	9	190.05	9		9		9		9		9	
1/4	1,640.22	1/4	1,275.63	1/4	911.48	1/4	547.03	1/4	182.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,632.62	1/2	1,268.04	1/2	903.90	1/2	539.43	1/2	174.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,625.03	3/4	1,260.44	3/4	896.32	3/4	531.84	3/4	167.26	3/4		3/4		3/4		3/4		3/4	
10	1,617.43	10	1,252.85	10	888.74	10	524.24	10	159.67	10		10		10		10		10	
1/4	1,609.84	1/4	1,245.25	1/4	881.16	1/4	516.64	1/4	152.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,602.24	1/2	1,237.66	1/2	873.58	1/2	509.05	1/2	144.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,594.65	3/4	1,230.06	3/4	866.00	3/4	501.45	3/4	136.88	3/4		3/4		3/4		3/4		3/4	
11	1,587.05	11	1,222.47	11	858.42	11	493.86	11	129.29	11		11		11		11		11	
1/4	1,579.45	1/4	1,214.87	1/4	850.83	1/4	486.26	1/4	121.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,571.86	1/2	1,207.28	1/2	843.24	1/2	478.67	1/2	114.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,564.26	3/4	1,199.68	3/4	835.64	3/4	471.07	3/4	106.53	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2014 SW  
CALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
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