



BARGE "CTCo 331"

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

(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"

July 12, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTCo 331"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	4,441.04	0	4,265.32	0	4,084.40	0	3,892.21	0	3,696.92	0	3,372.26	0	3,008.32	0	2,644.13	0	2,279.62	
1/4	1/4	4,438.15	1/4	4,261.67	1/4	4,080.49	1/4	3,888.14	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	4,435.26	1/2	4,258.03	1/2	4,076.59	1/2	3,884.08	1/2	3,688.78	1/2	3,357.14	1/2	2,993.15	1/2	2,628.94	1/2	2,264.43	
3/4	3/4	4,432.37	3/4	4,254.39	3/4	4,072.68	3/4	3,880.01	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	4,429.48	1	4,250.75	1	4,068.78	1	3,875.94	1	3,680.64	1	3,342.01	1	2,977.97	1	2,613.76	1	2,249.24	
1/4	1/4	4,425.64	1/4	4,247.07	1/4	4,064.85	1/4	3,871.87	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	4,421.80	1/2	4,243.39	1/2	4,060.92	1/2	3,867.80	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	4,417.96	3/4	4,239.71	3/4	4,057.00	3/4	3,863.73	3/4	3,668.43	3/4	3,319.27	3/4	2,955.21	3/4	2,590.97	3/4	2,226.46	
2	2	4,414.12	2	4,236.03	2	4,053.07	2	3,859.66	2	3,664.37	2	3,311.69	2	2,947.62	2	2,583.38	2	2,218.86	
1/4	1/4	4,410.09	1/4	4,232.32	1/4	4,049.13	1/4	3,855.59	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	4,406.06	1/2	4,228.62	1/2	4,045.18	1/2	3,851.53	1/2	3,653.59	1/2	3,296.52	1/2	2,932.45	1/2	2,568.19	1/2	2,203.67	
3/4	3/4	4,402.03	3/4	4,224.91	3/4	4,041.24	3/4	3,847.46	3/4	3,648.20	3/4	3,288.94	3/4	2,924.86	3/4	2,560.60	3/4	2,196.08	
3	3	4,398.00	3	4,221.21	3	4,037.29	3	3,843.39	3	3,642.81	3	3,281.36	3	2,917.28	3	2,553.00	3	2,188.49	
1/4	1/4	4,393.97	1/4	4,217.48	1/4	4,033.33	1/4	3,839.32	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	4,389.94	1/2	4,213.75	1/2	4,029.37	1/2	3,835.25	1/2	3,628.55	1/2	3,266.19	1/2	2,902.10	1/2	2,537.82	1/2	2,173.30	
3/4	3/4	4,385.91	3/4	4,210.03	3/4	4,025.40	3/4	3,831.18	3/4	3,621.42	3/4	3,258.60	3/4	2,894.52	3/4	2,530.22	3/4	2,165.70	
4	4	4,381.88	4	4,206.30	4	4,021.44	4	3,827.11	4	3,614.29	4	3,251.02	4	2,886.93	4	2,522.63	4	2,158.11	
1/4	1/4	4,377.85	1/4	4,202.55	1/4	4,017.46	1/4	3,823.04	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	4,373.83	1/2	4,198.81	1/2	4,013.48	1/2	3,818.98	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	4,369.80	3/4	4,195.06	3/4	4,009.50	3/4	3,814.91	3/4	3,591.60	3/4	3,228.27	3/4	2,864.17	3/4	2,499.84	3/4	2,135.33	
5	5	4,365.77	5	4,191.32	5	4,005.52	5	3,810.84	5	3,584.04	5	3,220.68	5	2,856.58	5	2,492.25	5	2,127.73	
1/4	1/4	4,362.12	1/4	4,187.55	1/4	4,001.51	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	4,358.47	1/2	4,183.79	1/2	3,997.51	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	4,354.83	3/4	4,180.02	3/4	3,993.51	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	4,351.18	6	4,176.26	6	3,989.51	6	3,794.56	6	3,553.79	6	3,190.35	6	2,826.24	6	2,461.87	6	2,097.36	
1/4	1/4	4,347.65	1/4	4,172.48	1/4	3,985.48	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	4,344.12	1/2	4,168.70	1/2	3,981.46	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	4,340.59	3/4	4,164.91	3/4	3,977.44	3/4	3,782.36	3/4	3,531.09	3/4	3,167.59	3/4	2,803.48	3/4	2,439.09	3/4	2,076.19	
7	7	4,337.05	7	4,161.13	7	3,973.42	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	4,333.51	1/4	4,157.33	1/4	3,969.38	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	4,329.96	1/2	4,153.53	1/2	3,965.34	1/2	3,770.15	1/2	3,508.40	1/2	3,144.84	1/2	2,780.72	1/2	2,416.31	1/2	2,055.39	
3/4	3/4	4,326.41	3/4	4,149.73	3/4	3,961.30	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	4,322.86	8	4,145.93	8	3,957.26	8	3,762.01	8	3,493.28	8	3,129.67	8	2,765.54	8	2,401.12	8	2,041.64	
1/4	1/4	4,319.29	1/4	4,142.11	1/4	3,953.20	1/4	3,757.95	1/4	3,485.71	1/4	3,122.09	1/4	2,757.95	1/4	2,393.53	1/4	2,034.25	
1/2	1/2	4,315.72	1/2	4,138.30	1/2	3,949.15	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	4,312.16	3/4	4,134.48	3/4	3,945.09	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	4,308.59	9	4,130.66	9	3,941.03	9	3,745.74	9	3,463.02	9	3,099.34	9	2,735.19	9	2,370.75	9	2,012.08	
1/4	1/4	4,305.00	1/4	4,126.83	1/4	3,936.96	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	4,301.41	1/2	4,122.99	1/2	3,932.90	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	4,297.82	3/4	4,119.15	3/4	3,928.83	3/4	3,733.53	3/4	3,440.33	3/4	3,076.59	3/4	2,712.43	3/4	2,347.96	3/4	1,989.40	
10	10	4,294.24	10	4,115.32	10	3,924.76	10	3,729.46	10	3,432.77	10	3,069.00	10	2,704.85	10	2,340.37	10	1,981.84	
1/4	1/4	4,290.63	1/4	4,111.46	1/4	3,920.69	1/4	3,725.40	1/4	3,425.21	1/4	3,061.42	1/4	2,697.26	1/4	2,332.77	1/4	1,974.28	
1/2	1/2	4,287.02	1/2	4,107.61	1/2	3,916.62	1/2	3,721.33	1/2	3,417.64	1/2	3,053.83	1/2	2,689.67	1/2	2,325.18	1/2	1,966.72	
3/4	3/4	4,283.42	3/4	4,103.76	3/4	3,912.56	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	4,279.81	11	4,099.90	11	3,908.49	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	4,276.19	1/4	4,096.03	1/4	3,904.42	1/4	3,709.12	1/4	3,394.95	1/4	3,031.08	1/4	2,666.91	1/4	2,302.40	1/4	1,944.01	
1/2	1/2	4,272.56	1/2	4,092.15	1/2	3,900.35	1/2	3,705.05	1/2	3,387.39	1/2	3,023.49	1/2	2,659.32	1/2	2,294.80	1/2	1,936.43	
3/4	3/4	4,268.94	3/4	4,088.28	3/4	3,896.28	3/4	3,700.98	3/4	3,379.83	3/4	3,015.91	3/4	2,651.72	3/4	2,287.21	3/4	1,928.84	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD

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





BARGE "CTCo 331"

3 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,898.46	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	1,526.28	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	790.07	1/4	425.50	1/4	61.81	1/4		1/4		1/4		1/4	
1/2	1,875.68	1/2	1,511.09	1/2	1,146.52	1/2	782.48	1/2	417.90	1/2	54.93	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	774.88	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	402.71	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	25.52	3/4		3/4		3/4		3/4	
3	1,830.10	3	1,465.52	3	1,100.99	3	736.91	3	372.33	3	20.30	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	1,814.91	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	1,442.73	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	660.95	1/2	296.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.55	3/4	1,381.97	3/4	1,017.60	3/4	653.36	3/4	288.78	3/4		3/4		3/4		3/4		3/4	
6	1,738.96	6	1,374.37	6	1,010.02	6	645.76	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	273.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,723.77	1/2	1,359.18	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	1,678.19	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	1,663.00	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	1,290.82	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	531.83	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	159.66	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	1,594.64	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	1,222.46	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	1,207.27	1/2	843.23	1/2	478.67	1/2	114.11	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: 07/11/2014 CL
 CALCULATED: 07/12/2014 CL
 PRINTED: 07/12/2014 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 07/2014

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



BARGE "CTCo 331"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,257.22	0	4,076.80	0	3,884.93	0	3,689.38	0	3,375.44	0	3,012.18	0	2,648.61	0	2,285.96		
1/4	1/4	1/4	4,253.59	1/4	4,072.92	1/4	3,880.86	1/4	3,685.31	1/4	3,367.89	1/4	3,004.60	1/4	2,641.03	1/4	2,278.43		
1/2	1/2	1/2	4,249.96	1/2	4,069.04	1/2	3,876.79	1/2	3,681.23	1/2	3,360.34	1/2	2,997.03	1/2	2,633.45	1/2	2,270.91		
3/4	3/4	3/4	4,422.33	3/4	4,246.33	3/4	4,065.15	3/4	3,872.71	3/4	3,677.16	3/4	3,352.79	3/4	2,989.46	3/4	2,625.87	3/4	2,263.38
1	1	1	4,419.43	1	4,242.68	1	4,061.24	1	3,868.64	1	3,673.09	1	3,345.24	1	2,981.88	1	2,618.29	1	2,255.86
1/4	1/4	1/4	4,416.54	1/4	4,239.04	1/4	4,057.33	1/4	3,864.56	1/4	3,669.01	1/4	3,337.69	1/4	2,974.31	1/4	2,610.71	1/4	2,248.34
1/2	1/2	1/2	4,413.64	1/2	4,235.39	1/2	4,053.42	1/2	3,860.49	1/2	3,664.94	1/2	3,330.14	1/2	2,966.73	1/2	2,603.13	1/2	2,240.82
3/4	3/4	3/4	4,410.74	3/4	4,231.74	3/4	4,049.51	3/4	3,856.42	3/4	3,660.86	3/4	3,322.59	3/4	2,959.16	3/4	2,595.55	3/4	2,233.31
2	2	2	4,406.90	2	4,228.06	2	4,045.58	2	3,852.34	2	3,656.79	2	3,315.02	2	2,951.59	2	2,587.97	2	2,225.79
1/4	1/4	1/4	4,403.05	1/4	4,224.37	1/4	4,041.65	1/4	3,848.27	1/4	3,652.72	1/4	3,307.46	1/4	2,944.01	1/4	2,580.38	1/4	2,218.27
1/2	1/2	1/2	4,399.20	1/2	4,220.68	1/2	4,037.72	1/2	3,844.19	1/2	3,648.64	1/2	3,299.89	1/2	2,936.44	1/2	2,572.80	1/2	2,210.75
3/4	3/4	3/4	4,395.36	3/4	4,217.00	3/4	4,033.78	3/4	3,840.12	3/4	3,644.57	3/4	3,292.32	3/4	2,928.86	3/4	2,565.22	3/4	2,203.23
3	3	3	4,391.32	3	4,213.29	3	4,029.83	3	3,836.05	3	3,639.18	3	3,284.75	3	2,921.29	3	2,557.64	3	2,195.71
1/4	1/4	1/4	4,387.29	1/4	4,209.58	1/4	4,025.88	1/4	3,831.97	1/4	3,633.78	1/4	3,277.18	1/4	2,913.71	1/4	2,550.06	1/4	2,188.19
1/2	1/2	1/2	4,383.25	1/2	4,205.87	1/2	4,021.93	1/2	3,827.90	1/2	3,628.39	1/2	3,269.61	1/2	2,906.14	1/2	2,542.48	1/2	2,180.68
3/4	3/4	3/4	4,379.21	3/4	4,202.16	3/4	4,017.98	3/4	3,823.82	3/4	3,622.99	3/4	3,262.04	3/4	2,898.57	3/4	2,534.90	3/4	2,173.16
4	4	4	4,375.18	4	4,198.42	4	4,014.01	4	3,819.75	4	3,615.86	4	3,254.47	4	2,890.99	4	2,527.34	4	2,165.64
1/4	1/4	1/4	4,371.15	1/4	4,194.69	1/4	4,010.05	1/4	3,815.68	1/4	3,608.73	1/4	3,246.89	1/4	2,883.42	1/4	2,519.79	1/4	2,158.12
1/2	1/2	1/2	4,367.11	1/2	4,190.96	1/2	4,006.08	1/2	3,811.60	1/2	3,601.60	1/2	3,239.32	1/2	2,875.84	1/2	2,512.24	1/2	2,150.60
3/4	3/4	3/4	4,363.08	3/4	4,187.23	3/4	4,002.11	3/4	3,807.53	3/4	3,594.47	3/4	3,231.75	3/4	2,868.27	3/4	2,504.68	3/4	2,143.08
5	5	5	4,359.04	5	4,183.48	5	3,998.12	5	3,803.45	5	3,586.91	5	3,224.18	5	2,860.70	5	2,497.14	5	2,135.56
1/4	1/4	1/4	4,355.01	1/4	4,179.72	1/4	3,994.14	1/4	3,799.38	1/4	3,579.35	1/4	3,216.61	1/4	2,853.12	1/4	2,489.60	1/4	2,128.05
1/2	1/2	1/2	4,350.97	1/2	4,175.97	1/2	3,990.15	1/2	3,795.31	1/2	3,571.79	1/2	3,209.04	1/2	2,845.55	1/2	2,482.06	1/2	2,120.53
3/4	3/4	3/4	4,346.94	3/4	4,172.22	3/4	3,986.16	3/4	3,791.23	3/4	3,564.22	3/4	3,201.47	3/4	2,837.97	3/4	2,474.51	3/4	2,113.01
6	6	6	4,343.28	6	4,168.45	6	3,982.16	6	3,787.16	6	3,556.67	6	3,193.89	6	2,830.40	6	2,466.97	6	2,105.49
1/4	1/4	1/4	4,339.63	1/4	4,164.68	1/4	3,978.15	1/4	3,783.08	1/4	3,549.12	1/4	3,186.32	1/4	2,822.82	1/4	2,459.43	1/4	2,097.97
1/2	1/2	1/2	4,335.98	1/2	4,160.91	1/2	3,974.14	1/2	3,779.01	1/2	3,541.56	1/2	3,178.75	1/2	2,815.25	1/2	2,451.88	1/2	2,090.45
3/4	3/4	3/4	4,332.33	3/4	4,157.14	3/4	3,970.13	3/4	3,774.94	3/4	3,534.01	3/4	3,171.18	3/4	2,807.68	3/4	2,444.34	3/4	2,082.93
7	7	7	4,328.79	7	4,153.36	7	3,966.11	7	3,770.86	7	3,526.46	7	3,163.61	7	2,800.10	7	2,436.80	7	2,075.95
1/4	1/4	1/4	4,325.25	1/4	4,149.57	1/4	3,962.08	1/4	3,766.79	1/4	3,518.91	1/4	3,156.04	1/4	2,792.53	1/4	2,429.25	1/4	2,068.97
1/2	1/2	1/2	4,321.72	1/2	4,145.78	1/2	3,958.05	1/2	3,762.71	1/2	3,511.36	1/2	3,148.47	1/2	2,784.95	1/2	2,421.71	1/2	2,061.99
3/4	3/4	3/4	4,318.18	3/4	4,142.00	3/4	3,954.02	3/4	3,758.64	3/4	3,503.81	3/4	3,140.89	3/4	2,777.38	3/4	2,414.17	3/4	2,055.01
8	8	8	4,314.63	8	4,138.19	8	3,949.98	8	3,754.57	8	3,496.26	8	3,133.32	8	2,769.80	8	2,406.63	8	2,048.21
1/4	1/4	1/4	4,311.07	1/4	4,134.38	1/4	3,945.94	1/4	3,750.49	1/4	3,488.71	1/4	3,125.75	1/4	2,762.23	1/4	2,399.08	1/4	2,041.41
1/2	1/2	1/2	4,307.52	1/2	4,130.58	1/2	3,941.89	1/2	3,746.42	1/2	3,481.16	1/2	3,118.18	1/2	2,754.66	1/2	2,391.54	1/2	2,034.61
3/4	3/4	3/4	4,303.97	3/4	4,126.77	3/4	3,937.85	3/4	3,742.34	3/4	3,473.60	3/4	3,110.61	3/4	2,747.08	3/4	2,384.00	3/4	2,027.81
9	9	9	4,300.39	9	4,122.95	9	3,933.78	9	3,738.27	9	3,466.05	9	3,103.04	9	2,739.51	9	2,376.45	9	2,020.50
1/4	1/4	1/4	4,296.82	1/4	4,119.13	1/4	3,929.72	1/4	3,734.20	1/4	3,458.50	1/4	3,095.46	1/4	2,731.93	1/4	2,368.91	1/4	2,013.19
1/2	1/2	1/2	4,293.24	1/2	4,115.30	1/2	3,925.66	1/2	3,730.12	1/2	3,450.95	1/2	3,087.89	1/2	2,724.36	1/2	2,361.37	1/2	2,005.87
3/4	3/4	3/4	4,289.67	3/4	4,111.48	3/4	3,921.59	3/4	3,726.05	3/4	3,443.40	3/4	3,080.32	3/4	2,716.79	3/4	2,353.82	3/4	1,998.56
10	10	10	4,286.08	10	4,107.64	10	3,917.52	10	3,721.97	10	3,435.85	10	3,072.75	10	2,709.21	10	2,346.28	10	1,991.07
1/4	1/4	1/4	4,282.48	1/4	4,103.80	1/4	3,913.45	1/4	3,717.90	1/4	3,428.30	1/4	3,065.18	1/4	2,701.64	1/4	2,338.74	1/4	1,983.59
1/2	1/2	1/2	4,278.89	1/2	4,099.96	1/2	3,909.38	1/2	3,713.83	1/2	3,420.75	1/2	3,057.61	1/2	2,694.06	1/2	2,331.20	1/2	1,976.11
3/4	3/4	3/4	4,275.29	3/4	4,096.12	3/4	3,905.30	3/4	3,709.75	3/4	3,413.20	3/4	3,050.04	3/4	2,686.49	3/4	2,323.65	3/4	1,968.62
11	11	11	4,271.68	11	4,092.26	11	3,901.23	11	3,705.68	11	3,405.65	11	3,042.46	11	2,678.91	11	2,316.11	11	1,961.14
1/4	1/4	1/4	4,268.07	1/4	4,088.40	1/4	3,897.16	1/4	3,701.60	1/4	3,398.10	1/4	3,034.89	1/4	2,671.34	1/4	2,308.57	1/4	1,953.65
1/2	1/2	1/2	4,264.46	1/2	4,084.54	1/2	3,893.08	1/2	3,697.53	1/2	3,390.55	1/2	3,027.32	1/2	2,663.77	1/2	2,301.02	1/2	1,946.17
3/4	3/4	3/4	4,260.85	3/4	4,080.68	3/4	3,889.01	3/4	3,693.46	3/4	3,383.00	3/4	3,019.75	3/4	2,656.19	3/4	2,293.48	3/4	1,938.68

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD

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





BARGE "CTCo 331"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 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	1,931.12	0	1,567.22	0	1,203.39	0	849.89	0	485.88	0	121.73	0		0		0		0	
1/4	1,923.57	1/4	1,559.63	1/4	1,195.96	1/4	842.36	1/4	478.29	1/4	114.15	1/4		1/4		1/4		1/4	
1/2	1,916.01	1/2	1,552.05	1/2	1,188.54	1/2	834.83	1/2	470.71	1/2	106.57	1/2		1/2		1/2		1/2	
3/4	1,908.45	3/4	1,544.47	3/4	1,181.11	3/4	827.30	3/4	463.12	3/4	98.98	3/4		3/4		3/4		3/4	
1	1,900.87	1	1,536.88	1	1,173.74	1	819.71	1	455.53	1	91.41	1		1		1		1	
1/4	1,893.28	1/4	1,529.30	1/4	1,166.37	1/4	812.13	1/4	447.95	1/4	83.85	1/4		1/4		1/4		1/4	
1/2	1,885.70	1/2	1,521.72	1/2	1,159.00	1/2	804.54	1/2	440.36	1/2	76.28	1/2		1/2		1/2		1/2	
3/4	1,878.12	3/4	1,514.13	3/4	1,151.62	3/4	796.95	3/4	432.78	3/4	68.71	3/4		3/4		3/4		3/4	
2	1,870.54	2	1,506.55	2	1,144.26	2	789.37	2	425.19	2	61.84	2		2		2		2	
1/4	1,862.95	1/4	1,498.97	1/4	1,136.90	1/4	781.78	1/4	417.60	1/4	54.96	1/4		1/4		1/4		1/4	
1/2	1,855.37	1/2	1,491.39	1/2	1,129.53	1/2	774.19	1/2	410.02	1/2	48.08	1/2		1/2		1/2		1/2	
3/4	1,847.79	3/4	1,483.80	3/4	1,122.17	3/4	766.60	3/4	402.43	3/4	41.21	3/4		3/4		3/4		3/4	
3	1,840.20	3	1,476.22	3	1,114.81	3	759.02	3	394.85	3	35.98	3		3		3		3	
1/4	1,832.62	1/4	1,468.64	1/4	1,107.45	1/4	751.43	1/4	387.26	1/4	30.76	1/4		1/4		1/4		1/4	
1/2	1,825.04	1/2	1,461.05	1/2	1,100.09	1/2	743.84	1/2	379.68	1/2	25.54	1/2		1/2		1/2		1/2	
3/4	1,817.45	3/4	1,453.47	3/4	1,092.73	3/4	736.25	3/4	372.09	3/4	20.31	3/4		3/4		3/4		3/4	
4	1,809.87	4	1,445.89	4	1,085.37	4	728.67	4	364.50	4		4		4		4		4	
1/4	1,802.29	1/4	1,438.30	1/4	1,078.02	1/4	721.08	1/4	356.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,794.71	1/2	1,430.72	1/2	1,070.66	1/2	713.49	1/2	349.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,787.12	3/4	1,423.14	3/4	1,063.31	3/4	705.91	3/4	341.75	3/4		3/4		3/4		3/4		3/4	
5	1,779.54	5	1,415.56	5	1,055.95	5	698.32	5	334.16	5		5		5		5		5	
1/4	1,771.96	1/4	1,407.97	1/4	1,048.60	1/4	690.73	1/4	326.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.37	1/2	1,400.39	1/2	1,041.25	1/2	683.14	1/2	318.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,756.79	3/4	1,392.81	3/4	1,033.89	3/4	675.56	3/4	311.40	3/4		3/4		3/4		3/4		3/4	
6	1,749.21	6	1,385.22	6	1,026.54	6	667.97	6	303.82	6		6		6		6		6	
1/4	1,741.62	1/4	1,377.64	1/4	1,019.19	1/4	660.38	1/4	296.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.04	1/2	1,370.06	1/2	1,011.83	1/2	652.80	1/2	288.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,726.46	3/4	1,362.47	3/4	1,004.48	3/4	645.21	3/4	281.06	3/4		3/4		3/4		3/4		3/4	
7	1,718.88	7	1,354.89	7	997.13	7	637.62	7	273.47	7		7		7		7		7	
1/4	1,711.29	1/4	1,347.31	1/4	989.77	1/4	630.03	1/4	265.89	1/4		1/4		1/4		1/4		1/4	
1/2	1,703.71	1/2	1,339.73	1/2	982.42	1/2	622.45	1/2	258.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,696.13	3/4	1,332.14	3/4	975.07	3/4	614.86	3/4	250.72	3/4		3/4		3/4		3/4		3/4	
8	1,688.54	8	1,324.56	8	967.71	8	607.27	8	243.13	8		8		8		8		8	
1/4	1,680.96	1/4	1,316.98	1/4	960.36	1/4	599.69	1/4	235.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,673.38	1/2	1,309.39	1/2	953.01	1/2	592.10	1/2	227.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,665.79	3/4	1,301.81	3/4	945.65	3/4	584.51	3/4	220.37	3/4		3/4		3/4		3/4		3/4	
9	1,658.21	9	1,294.23	9	938.30	9	576.92	9	212.78	9		9		9		9		9	
1/4	1,650.63	1/4	1,286.64	1/4	930.95	1/4	569.34	1/4	205.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,643.05	1/2	1,279.06	1/2	923.59	1/2	561.75	1/2	197.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,635.46	3/4	1,271.48	3/4	916.24	3/4	554.16	3/4	190.02	3/4		3/4		3/4		3/4		3/4	
10	1,627.88	10	1,263.90	10	908.89	10	546.57	10	182.43	10		10		10		10		10	
1/4	1,620.30	1/4	1,256.31	1/4	901.53	1/4	538.99	1/4	174.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,612.71	1/2	1,248.73	1/2	894.18	1/2	531.40	1/2	167.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,605.13	3/4	1,241.15	3/4	886.83	3/4	523.81	3/4	159.67	3/4		3/4		3/4		3/4		3/4	
11	1,597.55	11	1,233.56	11	879.47	11	516.23	11	152.08	11		11		11		11		11	
1/4	1,589.96	1/4	1,225.98	1/4	872.12	1/4	508.64	1/4	144.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,582.38	1/2	1,218.40	1/2	864.77	1/2	501.05	1/2	136.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,574.80	3/4	1,210.81	3/4	857.41	3/4	493.46	3/4	129.32	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 CL
CALCULATED: 07/12/2014 CL
PRINTED: 07/12/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

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



BARGE "CTCo 331"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-03 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,538.55	0	4,220.81	0	3,883.31	0	3,539.67	0	3,196.02	0	2,852.37	0	2,508.54	0	2,164.70
1/4	1/4	1/4	1/4	1/4	4,532.16	1/4	4,213.99	1/4	3,876.16	1/4	3,532.51	1/4	3,188.86	1/4	2,845.21	1/4	2,501.38	1/4	2,157.54
1/2	1/2	1/2	1/2	1/2	4,839.93	1/2	4,525.77	1/2	4,207.17	1/2	3,869.00	1/2	3,525.35	1/2	3,181.70	1/2	2,838.05	1/2	2,494.21
3/4	3/4	3/4	3/4	3/4	4,833.90	3/4	4,519.35	3/4	4,200.29	3/4	3,861.84	3/4	3,518.19	3/4	3,174.54	3/4	2,830.89	3/4	2,487.05
1	1	1	1	1	4,827.87	1	4,512.93	1	4,193.42	1	3,854.68	1	3,511.03	1	3,167.38	1	2,823.72	1	2,479.89
1/4	1/4	1/4	1/4	1/4	4,821.85	1/4	4,506.51	1/4	4,186.55	1/4	3,847.52	1/4	3,503.87	1/4	3,160.23	1/4	2,816.56	1/4	2,472.72
1/2	1/2	1/2	1/2	1/2	4,815.82	1/2	4,500.08	1/2	4,179.67	1/2	3,840.36	1/2	3,496.71	1/2	3,153.07	1/2	2,809.40	1/2	2,465.56
3/4	3/4	3/4	3/4	3/4	4,808.89	3/4	4,493.60	3/4	4,172.76	3/4	3,833.20	3/4	3,489.55	3/4	3,145.91	3/4	2,802.23	3/4	2,458.40
2	2	2	2	2	4,801.97	2	4,487.12	2	4,165.85	2	3,826.04	2	3,482.39	2	3,138.75	2	2,795.07	2	2,451.23
1/4	1/4	1/4	1/4	1/4	4,795.05	1/4	4,480.64	1/4	4,158.94	1/4	3,818.88	1/4	3,475.23	1/4	3,131.59	1/4	2,787.91	1/4	2,444.07
1/2	1/2	1/2	1/2	1/2	4,788.12	1/2	4,474.15	1/2	4,152.03	1/2	3,811.72	1/2	3,468.08	1/2	3,124.43	1/2	2,780.74	1/2	2,436.91
3/4	3/4	3/4	3/4	3/4	4,781.02	3/4	4,467.63	3/4	4,145.09	3/4	3,804.56	3/4	3,460.92	3/4	3,117.27	3/4	2,773.58	3/4	2,429.74
3	3	3	3	3	4,773.92	3	4,461.10	3	4,138.15	3	3,797.40	3	3,453.76	3	3,110.11	3	2,766.42	3	2,422.58
1/4	1/4	1/4	1/4	1/4	4,766.82	1/4	4,454.58	1/4	4,131.21	1/4	3,790.24	1/4	3,446.60	1/4	3,102.95	1/4	2,759.25	1/4	2,415.42
1/2	1/2	1/2	1/2	1/2	4,759.71	1/2	4,448.05	1/2	4,124.27	1/2	3,783.08	1/2	3,439.44	1/2	3,095.79	1/2	2,752.09	1/2	2,408.25
3/4	3/4	3/4	3/4	3/4	4,752.61	3/4	4,441.49	3/4	4,117.29	3/4	3,775.92	3/4	3,432.28	3/4	3,088.63	3/4	2,744.93	3/4	2,401.09
4	4	4	4	4	4,745.51	4	4,434.93	4	4,110.32	4	3,768.77	4	3,425.12	4	3,081.47	4	2,737.76	4	2,393.93
1/4	1/4	1/4	1/4	1/4	4,738.41	1/4	4,428.37	1/4	4,103.35	1/4	3,761.61	1/4	3,417.96	1/4	3,074.31	1/4	2,730.60	1/4	2,386.76
1/2	1/2	1/2	1/2	1/2	4,731.31	1/2	4,421.80	1/2	4,096.37	1/2	3,754.45	1/2	3,410.80	1/2	3,067.15	1/2	2,723.44	1/2	2,379.60
3/4	3/4	3/4	3/4	3/4	4,724.21	3/4	4,415.21	3/4	4,089.37	3/4	3,747.29	3/4	3,403.64	3/4	3,059.99	3/4	2,716.27	3/4	2,372.44
5	5	5	5	5	4,717.10	5	4,408.61	5	4,082.36	5	3,740.13	5	3,396.48	5	3,052.84	5	2,709.11	5	2,365.27
1/4	1/4	1/4	1/4	1/4	4,710.00	1/4	4,402.02	1/4	4,075.36	1/4	3,732.97	1/4	3,389.32	1/4	3,045.68	1/4	2,701.95	1/4	2,358.11
1/2	1/2	1/2	1/2	1/2	4,702.90	1/2	4,395.42	1/2	4,068.35	1/2	3,725.81	1/2	3,382.16	1/2	3,038.52	1/2	2,694.78	1/2	2,350.95
3/4	3/4	3/4	3/4	3/4	4,696.47	3/4	4,388.79	3/4	4,061.31	3/4	3,718.65	3/4	3,375.00	3/4	3,031.36	3/4	2,687.62	3/4	2,343.78
6	6	6	6	6	4,690.04	6	4,382.17	6	4,054.27	6	3,711.49	6	3,367.84	6	3,024.20	6	2,680.46	6	2,336.62
1/4	1/4	1/4	1/4	1/4	4,683.61	1/4	4,375.54	1/4	4,047.22	1/4	3,704.33	1/4	3,360.69	1/4	3,017.04	1/4	2,673.29	1/4	2,329.46
1/2	1/2	1/2	1/2	1/2	4,677.19	1/2	4,368.91	1/2	4,040.18	1/2	3,697.17	1/2	3,353.53	1/2	3,009.88	1/2	2,666.13	1/2	2,322.29
3/4	3/4	3/4	3/4	3/4	4,670.96	3/4	4,362.25	3/4	4,033.10	3/4	3,690.01	3/4	3,346.37	3/4	3,002.72	3/4	2,658.97	3/4	2,315.13
7	7	7	7	7	4,664.73	7	4,355.59	7	4,026.03	7	3,682.85	7	3,339.21	7	2,995.56	7	2,651.80	7	2,307.97
1/4	1/4	1/4	1/4	1/4	4,658.50	1/4	4,348.93	1/4	4,018.95	1/4	3,675.69	1/4	3,332.05	1/4	2,988.40	1/4	2,644.64	1/4	2,300.80
1/2	1/2	1/2	1/2	1/2	4,652.27	1/2	4,342.27	1/2	4,011.88	1/2	3,668.54	1/2	3,324.89	1/2	2,981.24	1/2	2,637.48	1/2	2,293.64
3/4	3/4	3/4	3/4	3/4	4,646.02	3/4	4,335.58	3/4	4,004.77	3/4	3,661.38	3/4	3,317.73	3/4	2,974.08	3/4	2,630.31	3/4	2,286.48
8	8	8	8	8	4,639.76	8	4,328.89	8	3,997.66	8	3,654.22	8	3,310.57	8	2,966.92	8	2,623.15	8	2,279.31
1/4	1/4	1/4	1/4	1/4	4,633.50	1/4	4,322.20	1/4	3,990.55	1/4	3,647.06	1/4	3,303.41	1/4	2,959.76	1/4	2,615.99	1/4	2,272.15
1/2	1/2	1/2	1/2	1/2	4,627.25	1/2	4,315.51	1/2	3,983.44	1/2	3,639.90	1/2	3,296.25	1/2	2,952.61	1/2	2,608.83	1/2	2,264.99
3/4	3/4	3/4	3/4	3/4	4,620.95	3/4	4,308.79	3/4	3,976.30	3/4	3,632.74	3/4	3,289.09	3/4	2,945.45	3/4	2,601.66	3/4	2,257.82
9	9	9	9	9	4,614.66	9	4,302.07	9	3,969.16	9	3,625.58	9	3,281.93	9	2,938.29	9	2,594.50	9	2,250.66
1/4	1/4	1/4	1/4	1/4	4,608.37	1/4	4,295.34	1/4	3,962.02	1/4	3,618.42	1/4	3,274.77	1/4	2,931.13	1/4	2,587.34	1/4	2,243.50
1/2	1/2	1/2	1/2	1/2	4,602.07	1/2	4,288.62	1/2	3,954.88	1/2	3,611.26	1/2	3,267.61	1/2	2,923.97	1/2	2,580.17	1/2	2,236.33
3/4	3/4	3/4	3/4	3/4	4,595.75	3/4	4,281.87	3/4	3,947.73	3/4	3,604.10	3/4	3,260.46	3/4	2,916.81	3/4	2,573.01	3/4	2,229.17
10	10	10	10	10	4,589.42	10	4,275.11	10	3,940.58	10	3,596.94	10	3,253.30	10	2,909.65	10	2,565.85	10	2,222.01
1/4	1/4	1/4	1/4	1/4	4,583.09	1/4	4,268.36	1/4	3,933.42	1/4	3,589.78	1/4	3,246.14	1/4	2,902.49	1/4	2,558.68	1/4	2,214.84
1/2	1/2	1/2	1/2	1/2	4,576.77	1/2	4,261.60	1/2	3,926.27	1/2	3,582.62	1/2	3,238.98	1/2	2,895.33	1/2	2,551.52	1/2	2,207.68
3/4	3/4	3/4	3/4	3/4	4,570.41	3/4	4,254.82	3/4	3,919.11	3/4	3,575.46	3/4	3,231.82	3/4	2,888.17	3/4	2,544.36	3/4	2,200.52
11	11	11	11	11	4,564.05	11	4,248.03	11	3,911.95	11	3,568.31	11	3,224.66	11	2,881.01	11	2,537.19	11	2,193.35
1/4	1/4	1/4	1/4	1/4	4,557.69	1/4	4,241.25	1/4	3,904.79	1/4	3,561.15	1/4	3,217.50	1/4	2,873.85	1/4	2,530.03	1/4	2,186.19
1/2	1/2	1/2	1/2	1/2	4,551.33	1/2	4,234.46	1/2	3,897.63	1/2	3,553.99	1/2	3,210.34	1/2	2,866.69	1/2	2,522.87	1/2	2,179.03
3/4	3/4	3/4	3/4	3/4	4,544.94	3/4	4,227.64	3/4	3,890.47	3/4	3,546.83	3/4	3,203.18	3/4	2,859.53	3/4	2,515.70	3/4	2,171.86

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD

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



BARGE "CTCo 331"

2 STBD

ULLAGE TABLE
HERMETIC

GAUGE HEIGHT 15'-03 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,826.67	0	1,482.78	0	1,138.88	0	795.43	0	451.54	0	107.66	0		0		0		0	
1/4	1,819.52	1/4	1,475.62	1/4	1,131.71	1/4	788.27	1/4	444.37	1/4	100.50	1/4		1/4		1/4		1/4	
1/2	1,812.36	1/2	1,468.45	1/2	1,124.55	1/2	781.10	1/2	437.21	1/2	93.35	1/2		1/2		1/2		1/2	
3/4	1,805.19	3/4	1,461.29	3/4	1,117.38	3/4	773.94	3/4	430.04	3/4	86.21	3/4		3/4		3/4		3/4	
1	1,798.03	1	1,454.12	1	1,110.22	1	766.78	1	422.88	1	79.08	1		1		1		1	
1/4	1,790.87	1/4	1,446.96	1/4	1,103.05	1/4	759.61	1/4	415.71	1/4	71.94	1/4		1/4		1/4		1/4	
1/2	1,783.70	1/2	1,439.80	1/2	1,095.89	1/2	752.45	1/2	408.55	1/2	64.81	1/2		1/2		1/2		1/2	
3/4	1,776.54	3/4	1,432.63	3/4	1,088.73	3/4	745.28	3/4	401.39	3/4	58.32	3/4		3/4		3/4		3/4	
2	1,769.37	2	1,425.47	2	1,081.57	2	738.12	2	394.22	2	51.84	2		2		2		2	
1/4	1,762.21	1/4	1,418.30	1/4	1,074.41	1/4	730.95	1/4	387.06	1/4	45.36	1/4		1/4		1/4		1/4	
1/2	1,755.04	1/2	1,411.14	1/2	1,067.25	1/2	723.79	1/2	379.89	1/2	38.87	1/2		1/2		1/2		1/2	
3/4	1,747.88	3/4	1,403.97	3/4	1,060.09	3/4	716.62	3/4	372.73	3/4	33.95	3/4		3/4		3/4		3/4	
3	1,740.71	3	1,396.81	3	1,052.93	3	709.46	3	365.56	3	29.02	3		3		3		3	
1/4	1,733.55	1/4	1,389.64	1/4	1,045.77	1/4	702.29	1/4	358.40	1/4	24.10	1/4		1/4		1/4		1/4	
1/2	1,726.38	1/2	1,382.48	1/2	1,038.61	1/2	695.13	1/2	351.23	1/2	19.17	1/2		1/2		1/2		1/2	
3/4	1,719.22	3/4	1,375.31	3/4	1,031.46	3/4	687.97	3/4	344.07	3/4		3/4		3/4		3/4		3/4	
4	1,712.05	4	1,368.15	4	1,024.30	4	680.80	4	336.91	4		4		4		4		4	
1/4	1,704.89	1/4	1,360.98	1/4	1,017.15	1/4	673.64	1/4	329.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,697.72	1/2	1,353.82	1/2	1,010.00	1/2	666.47	1/2	322.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,690.56	3/4	1,346.65	3/4	1,002.85	3/4	659.31	3/4	315.41	3/4		3/4		3/4		3/4		3/4	
5	1,683.39	5	1,339.49	5	995.69	5	652.14	5	308.25	5		5		5		5		5	
1/4	1,676.23	1/4	1,332.32	1/4	988.54	1/4	644.98	1/4	301.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,669.07	1/2	1,325.16	1/2	981.39	1/2	637.81	1/2	293.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,661.90	3/4	1,318.00	3/4	974.24	3/4	630.65	3/4	286.75	3/4		3/4		3/4		3/4		3/4	
6	1,654.74	6	1,310.83	6	967.09	6	623.49	6	279.59	6		6		6		6		6	
1/4	1,647.57	1/4	1,303.67	1/4	959.94	1/4	616.32	1/4	272.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,640.41	1/2	1,296.50	1/2	952.78	1/2	609.16	1/2	265.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,633.24	3/4	1,289.34	3/4	945.63	3/4	601.99	3/4	258.10	3/4		3/4		3/4		3/4		3/4	
7	1,626.08	7	1,282.17	7	938.48	7	594.83	7	250.93	7		7		7		7		7	
1/4	1,618.91	1/4	1,275.01	1/4	931.33	1/4	587.66	1/4	243.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,611.75	1/2	1,267.84	1/2	924.18	1/2	580.50	1/2	236.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,604.58	3/4	1,260.68	3/4	917.02	3/4	573.33	3/4	229.44	3/4		3/4		3/4		3/4		3/4	
8	1,597.42	8	1,253.51	8	909.87	8	566.17	8	222.27	8		8		8		8		8	
1/4	1,590.25	1/4	1,246.35	1/4	902.72	1/4	559.00	1/4	215.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,583.09	1/2	1,239.18	1/2	895.57	1/2	551.84	1/2	207.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,575.92	3/4	1,232.02	3/4	888.42	3/4	544.68	3/4	200.78	3/4		3/4		3/4		3/4		3/4	
9	1,568.76	9	1,224.85	9	881.27	9	537.51	9	193.62	9		9		9		9		9	
1/4	1,561.59	1/4	1,217.69	1/4	874.11	1/4	530.35	1/4	186.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,554.43	1/2	1,210.52	1/2	866.96	1/2	523.18	1/2	179.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,547.27	3/4	1,203.36	3/4	859.81	3/4	516.02	3/4	172.12	3/4		3/4		3/4		3/4		3/4	
10	1,540.10	10	1,196.20	10	852.66	10	508.85	10	164.96	10		10		10		10		10	
1/4	1,532.94	1/4	1,189.03	1/4	845.51	1/4	501.69	1/4	157.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,525.77	1/2	1,181.87	1/2	838.35	1/2	494.52	1/2	150.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,518.61	3/4	1,174.70	3/4	831.20	3/4	487.36	3/4	143.46	3/4		3/4		3/4		3/4		3/4	
11	1,511.44	11	1,167.54	11	824.05	11	480.20	11	136.30	11		11		11		11		11	
1/4	1,504.28	1/4	1,160.37	1/4	816.90	1/4	473.03	1/4	129.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,497.11	1/2	1,153.21	1/2	809.75	1/2	465.87	1/2	121.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,489.95	3/4	1,146.04	3/4	802.59	3/4	458.70	3/4	114.82	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 CL
CALCULATED: 07/12/2014 CL
PRINTED: 07/12/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

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



BARGE "CTCo 331"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,524.60	0	4,206.89	0	3,869.38	0	3,525.74	0	3,182.10	0	2,838.45	0	2,494.62	0	2,150.78
1/4	1/4	1/4	1/4	1/4	4,518.21	1/4	4,200.06	1/4	3,862.22	1/4	3,518.58	1/4	3,177.94	1/4	2,831.29	1/4	2,487.45	1/4	2,143.62
1/2	1/2	1/2	1/2	1/2	4,825.96	1/2	4,511.82	1/2	4,193.24	1/2	3,855.06	1/2	3,511.42	1/2	3,167.78	1/2	2,824.13	1/2	2,480.29
3/4	3/4	3/4	3/4	3/4	4,819.94	3/4	4,505.40	3/4	4,186.37	3/4	3,847.90	3/4	3,504.26	3/4	3,160.62	3/4	2,816.97	3/4	2,473.13
1	1	1	1	1	4,813.91	1	4,498.98	1	4,179.49	1	3,840.74	1	3,497.10	1	3,153.46	1	2,809.80	1	2,465.96
1/4	1/4	1/4	1/4	1/4	4,807.88	1/4	4,492.56	1/4	4,172.62	1/4	3,833.58	1/4	3,489.94	1/4	3,146.30	1/4	2,802.64	1/4	2,458.80
1/2	1/2	1/2	1/2	1/2	4,801.85	1/2	4,486.14	1/2	4,165.75	1/2	3,826.42	1/2	3,482.78	1/2	3,139.14	1/2	2,795.48	1/2	2,451.64
3/4	3/4	3/4	3/4	3/4	4,794.93	3/4	4,479.66	3/4	4,158.84	3/4	3,819.26	3/4	3,475.62	3/4	3,131.98	3/4	2,788.31	3/4	2,444.47
2	2	2	2	2	4,788.00	2	4,473.17	2	4,151.93	2	3,812.11	2	3,468.46	2	3,124.82	2	2,781.15	2	2,437.31
1/4	1/4	1/4	1/4	1/4	4,781.08	1/4	4,466.69	1/4	4,145.02	1/4	3,804.95	1/4	3,461.30	1/4	3,117.66	1/4	2,773.99	1/4	2,430.15
1/2	1/2	1/2	1/2	1/2	4,774.15	1/2	4,460.21	1/2	4,138.11	1/2	3,797.79	1/2	3,454.15	1/2	3,110.50	1/2	2,766.82	1/2	2,422.98
3/4	3/4	3/4	3/4	3/4	4,767.05	3/4	4,453.68	3/4	4,131.17	3/4	3,790.63	3/4	3,446.99	3/4	3,103.34	3/4	2,759.66	3/4	2,415.82
3	3	3	3	3	4,759.95	3	4,447.16	3	4,124.22	3	3,783.47	3	3,439.83	3	3,096.19	3	2,752.50	3	2,408.66
1/4	1/4	1/4	1/4	1/4	4,752.85	1/4	4,440.64	1/4	4,117.28	1/4	3,776.31	1/4	3,432.67	1/4	3,089.03	1/4	2,745.33	1/4	2,401.49
1/2	1/2	1/2	1/2	1/2	4,745.74	1/2	4,434.11	1/2	4,110.34	1/2	3,769.15	1/2	3,425.51	1/2	3,081.87	1/2	2,738.17	1/2	2,394.33
3/4	3/4	3/4	3/4	3/4	4,738.64	3/4	4,427.55	3/4	4,103.37	3/4	3,761.99	3/4	3,418.35	3/4	3,074.71	3/4	2,731.01	3/4	2,387.17
4	4	4	4	4	4,731.54	4	4,420.99	4	4,096.40	4	3,754.83	4	3,411.19	4	3,067.55	4	2,723.84	4	2,380.00
1/4	1/4	1/4	1/4	1/4	4,724.44	1/4	4,414.43	1/4	4,089.42	1/4	3,747.67	1/4	3,404.03	1/4	3,060.39	1/4	2,716.68	1/4	2,372.84
1/2	1/2	1/2	1/2	1/2	4,717.34	1/2	4,407.86	1/2	4,082.45	1/2	3,740.51	1/2	3,396.87	1/2	3,053.23	1/2	2,709.52	1/2	2,365.68
3/4	3/4	3/4	3/4	3/4	4,710.24	3/4	4,401.27	3/4	4,075.44	3/4	3,733.35	3/4	3,389.71	3/4	3,046.07	3/4	2,702.35	3/4	2,358.51
5	5	5	5	5	4,703.13	5	4,394.67	5	4,068.44	5	3,726.19	5	3,382.55	5	3,038.91	5	2,695.19	5	2,351.35
1/4	1/4	1/4	1/4	1/4	4,696.03	1/4	4,388.08	1/4	4,061.43	1/4	3,719.04	1/4	3,375.39	1/4	3,031.75	1/4	2,688.03	1/4	2,344.19
1/2	1/2	1/2	1/2	1/2	4,688.93	1/2	4,381.48	1/2	4,054.43	1/2	3,711.88	1/2	3,368.23	1/2	3,024.59	1/2	2,680.86	1/2	2,337.02
3/4	3/4	3/4	3/4	3/4	4,682.50	3/4	4,374.86	3/4	4,047.39	3/4	3,704.72	3/4	3,361.08	3/4	3,017.43	3/4	2,673.70	3/4	2,329.86
6	6	6	6	6	4,676.07	6	4,368.23	6	4,040.34	6	3,697.56	6	3,353.92	6	3,010.27	6	2,666.54	6	2,322.70
1/4	1/4	1/4	1/4	1/4	4,669.65	1/4	4,361.60	1/4	4,033.30	1/4	3,690.40	1/4	3,346.76	1/4	3,003.12	1/4	2,659.37	1/4	2,315.53
1/2	1/2	1/2	1/2	1/2	4,663.22	1/2	4,354.97	1/2	4,026.26	1/2	3,683.24	1/2	3,339.60	1/2	2,995.96	1/2	2,652.21	1/2	2,308.37
3/4	3/4	3/4	3/4	3/4	4,656.99	3/4	4,348.32	3/4	4,019.18	3/4	3,676.08	3/4	3,332.44	3/4	2,988.80	3/4	2,645.05	3/4	2,301.21
7	7	7	7	7	4,650.76	7	4,341.66	7	4,012.11	7	3,668.92	7	3,325.28	7	2,981.64	7	2,637.88	7	2,294.05
1/4	1/4	1/4	1/4	1/4	4,644.54	1/4	4,335.00	1/4	4,005.03	1/4	3,661.76	1/4	3,318.12	1/4	2,974.48	1/4	2,630.72	1/4	2,286.88
1/2	1/2	1/2	1/2	1/2	4,638.31	1/2	4,328.34	1/2	3,997.95	1/2	3,654.60	1/2	3,310.96	1/2	2,967.32	1/2	2,623.56	1/2	2,279.72
3/4	3/4	3/4	3/4	3/4	4,632.05	3/4	4,321.65	3/4	3,990.85	3/4	3,647.44	3/4	3,303.80	3/4	2,960.16	3/4	2,616.39	3/4	2,272.56
8	8	8	8	8	4,625.80	8	4,314.96	8	3,983.74	8	3,640.28	8	3,296.64	8	2,953.00	8	2,609.23	8	2,265.39
1/4	1/4	1/4	1/4	1/4	4,619.54	1/4	4,308.27	1/4	3,976.63	1/4	3,633.13	1/4	3,289.48	1/4	2,945.84	1/4	2,602.07	1/4	2,258.23
1/2	1/2	1/2	1/2	1/2	4,613.29	1/2	4,301.58	1/2	3,969.52	1/2	3,625.97	1/2	3,282.32	1/2	2,938.68	1/2	2,594.90	1/2	2,251.07
3/4	3/4	3/4	3/4	3/4	4,606.99	3/4	4,294.86	3/4	3,962.38	3/4	3,618.81	3/4	3,275.17	3/4	2,931.52	3/4	2,587.74	3/4	2,243.90
9	9	9	9	9	4,600.70	9	4,288.13	9	3,955.24	9	3,611.65	9	3,268.01	9	2,924.36	9	2,580.58	9	2,236.74
1/4	1/4	1/4	1/4	1/4	4,594.41	1/4	4,281.41	1/4	3,948.10	1/4	3,604.49	1/4	3,260.85	1/4	2,917.21	1/4	2,573.41	1/4	2,229.58
1/2	1/2	1/2	1/2	1/2	4,588.12	1/2	4,274.69	1/2	3,940.96	1/2	3,597.33	1/2	3,253.69	1/2	2,910.05	1/2	2,566.25	1/2	2,222.41
3/4	3/4	3/4	3/4	3/4	4,581.79	3/4	4,267.94	3/4	3,933.81	3/4	3,590.17	3/4	3,246.53	3/4	2,902.89	3/4	2,559.09	3/4	2,215.25
10	10	10	10	10	4,575.46	10	4,261.18	10	3,926.65	10	3,583.01	10	3,239.37	10	2,895.73	10	2,551.92	10	2,208.09
1/4	1/4	1/4	1/4	1/4	4,569.14	1/4	4,254.43	1/4	3,919.49	1/4	3,575.85	1/4	3,232.21	1/4	2,888.57	1/4	2,544.76	1/4	2,200.92
1/2	1/2	1/2	1/2	1/2	4,562.81	1/2	4,247.68	1/2	3,912.33	1/2	3,568.69	1/2	3,225.05	1/2	2,881.41	1/2	2,537.60	1/2	2,193.76
3/4	3/4	3/4	3/4	3/4	4,556.45	3/4	4,240.89	3/4	3,905.17	3/4	3,561.53	3/4	3,217.89	3/4	2,874.25	3/4	2,530.43	3/4	2,186.60
11	11	11	11	11	4,550.10	11	4,234.10	11	3,898.02	11	3,554.37	11	3,210.73	11	2,867.09	11	2,523.27	11	2,179.43
1/4	1/4	1/4	1/4	1/4	4,543.74	1/4	4,227.32	1/4	3,890.86	1/4	3,547.21	1/4	3,203.57	1/4	2,859.93	1/4	2,516.11	1/4	2,172.27
1/2	1/2	1/2	1/2	1/2	4,537.38	1/2	4,220.53	1/2	3,883.70	1/2	3,540.06	1/2	3,196.41	1/2	2,852.77	1/2	2,508.94	1/2	2,165.11
3/4	3/4	3/4	3/4	3/4	4,530.99	3/4	4,213.71	3/4	3,876.54	3/4	3,532.90	3/4	3,189.25	3/4	2,845.61	3/4	2,501.78	3/4	2,157.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD

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





BARGE "CTCo 331"

2 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 15'-03 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,812.76	0	1,468.87	0	1,125.39	0	795.28	0	451.54	0	107.66	0		0		0		0	
1/4	1,805.60	1/4	1,461.70	1/4	1,118.43	1/4	788.19	1/4	444.37	1/4	100.51	1/4		1/4		1/4		1/4	
1/2	1,798.44	1/2	1,454.54	1/2	1,111.48	1/2	781.10	1/2	437.21	1/2	93.35	1/2		1/2		1/2		1/2	
3/4	1,791.28	3/4	1,447.37	3/4	1,104.60	3/4	773.94	3/4	430.04	3/4	86.21	3/4		3/4		3/4		3/4	
1	1,784.11	1	1,440.21	1	1,097.72	1	766.78	1	422.88	1	79.08	1		1		1		1	
1/4	1,776.95	1/4	1,433.04	1/4	1,090.84	1/4	759.61	1/4	415.72	1/4	71.94	1/4		1/4		1/4		1/4	
1/2	1,769.78	1/2	1,425.88	1/2	1,083.95	1/2	752.45	1/2	408.55	1/2	64.81	1/2		1/2		1/2		1/2	
3/4	1,762.62	3/4	1,418.71	3/4	1,077.08	3/4	745.28	3/4	401.39	3/4	58.32	3/4		3/4		3/4		3/4	
2	1,755.46	2	1,411.55	2	1,070.21	2	738.12	2	394.22	2	51.84	2		2		2		2	
1/4	1,748.29	1/4	1,404.39	1/4	1,063.34	1/4	730.95	1/4	387.06	1/4	45.36	1/4		1/4		1/4		1/4	
1/2	1,741.13	1/2	1,397.22	1/2	1,056.47	1/2	723.79	1/2	379.89	1/2	38.87	1/2		1/2		1/2		1/2	
3/4	1,733.96	3/4	1,390.06	3/4	1,049.60	3/4	716.62	3/4	372.73	3/4	33.95	3/4		3/4		3/4		3/4	
3	1,726.80	3	1,382.89	3	1,042.73	3	709.46	3	365.56	3	29.02	3		3		3		3	
1/4	1,719.63	1/4	1,375.73	1/4	1,035.87	1/4	702.30	1/4	358.40	1/4	24.10	1/4		1/4		1/4		1/4	
1/2	1,712.47	1/2	1,368.56	1/2	1,029.00	1/2	695.13	1/2	351.23	1/2	19.17	1/2		1/2		1/2		1/2	
3/4	1,705.30	3/4	1,361.40	3/4	1,022.14	3/4	687.97	3/4	344.07	3/4		3/4		3/4		3/4		3/4	
4	1,698.14	4	1,354.23	4	1,015.27	4	680.80	4	336.91	4		4		4		4		4	
1/4	1,690.97	1/4	1,347.07	1/4	1,008.41	1/4	673.64	1/4	329.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,683.81	1/2	1,339.90	1/2	1,001.55	1/2	666.47	1/2	322.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,676.64	3/4	1,332.74	3/4	994.69	3/4	659.31	3/4	315.41	3/4		3/4		3/4		3/4		3/4	
5	1,669.48	5	1,325.57	5	987.83	5	652.14	5	308.25	5		5		5		5		5	
1/4	1,662.31	1/4	1,318.41	1/4	980.97	1/4	644.98	1/4	301.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,655.15	1/2	1,311.24	1/2	974.11	1/2	637.81	1/2	293.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,647.98	3/4	1,304.08	3/4	967.25	3/4	630.65	3/4	286.75	3/4		3/4		3/4		3/4		3/4	
6	1,640.82	6	1,296.91	6	960.39	6	623.49	6	279.59	6		6		6		6		6	
1/4	1,633.66	1/4	1,289.75	1/4	953.52	1/4	616.32	1/4	272.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,626.49	1/2	1,282.59	1/2	946.66	1/2	609.16	1/2	265.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,619.33	3/4	1,275.42	3/4	939.80	3/4	601.99	3/4	258.10	3/4		3/4		3/4		3/4		3/4	
7	1,612.16	7	1,268.26	7	932.94	7	594.83	7	250.93	7		7		7		7		7	
1/4	1,605.00	1/4	1,261.09	1/4	926.08	1/4	587.66	1/4	243.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,597.83	1/2	1,253.93	1/2	919.22	1/2	580.50	1/2	236.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,590.67	3/4	1,246.76	3/4	912.36	3/4	573.33	3/4	229.44	3/4		3/4		3/4		3/4		3/4	
8	1,583.50	8	1,239.60	8	905.50	8	566.17	8	222.27	8		8		8		8		8	
1/4	1,576.34	1/4	1,232.43	1/4	898.64	1/4	559.01	1/4	215.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,569.17	1/2	1,225.27	1/2	891.78	1/2	551.84	1/2	207.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,562.01	3/4	1,218.10	3/4	884.92	3/4	544.68	3/4	200.78	3/4		3/4		3/4		3/4		3/4	
9	1,554.84	9	1,210.94	9	878.06	9	537.51	9	193.62	9		9		9		9		9	
1/4	1,547.68	1/4	1,203.77	1/4	871.20	1/4	530.35	1/4	186.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,540.51	1/2	1,196.61	1/2	864.34	1/2	523.18	1/2	179.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,533.35	3/4	1,189.44	3/4	857.48	3/4	516.02	3/4	172.12	3/4		3/4		3/4		3/4		3/4	
10	1,526.19	10	1,182.28	10	850.62	10	508.85	10	164.96	10		10		10		10		10	
1/4	1,519.02	1/4	1,175.11	1/4	843.76	1/4	501.69	1/4	157.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,511.86	1/2	1,167.95	1/2	836.90	1/2	494.52	1/2	150.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,504.69	3/4	1,160.79	3/4	830.04	3/4	487.36	3/4	143.47	3/4		3/4		3/4		3/4		3/4	
11	1,497.53	11	1,153.62	11	823.18	11	480.20	11	136.30	11		11		11		11		11	
1/4	1,490.36	1/4	1,146.46	1/4	816.32	1/4	473.03	1/4	129.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,483.20	1/2	1,139.29	1/2	809.46	1/2	465.87	1/2	121.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,476.03	3/4	1,132.34	3/4	802.37	3/4	458.70	3/4	114.82	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 CL
CALCULATED: 07/12/2014 CL
PRINTED: 07/12/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

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



BARGE "CTCo 331"

1 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-03 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,755.96	0	4,417.12	0	4,057.42	0	3,691.54	0	3,325.66	0	2,959.76	0	2,593.69	0	2,227.62		
1/4	1/4	5,083.80	1/4	4,749.15	1/4	4,409.86	1/4	4,049.79	1/4	3,683.91	1/4	3,318.03	1/4	2,952.14	1/4	2,586.07	1/4	2,219.99	
1/2	1/2	5,077.38	1/2	4,742.31	1/2	4,402.54	1/2	4,042.17	1/2	3,676.29	1/2	3,310.41	1/2	2,944.51	1/2	2,578.44	1/2	2,212.37	
3/4	3/4	5,070.96	3/4	4,735.47	3/4	4,395.22	3/4	4,034.55	3/4	3,668.67	3/4	3,302.79	3/4	2,936.89	3/4	2,570.81	3/4	2,204.74	
1	1	5,064.54	1	4,728.63	1	4,387.90	1	4,026.93	1	3,661.05	1	3,295.17	1	2,929.26	1	2,563.19	1	2,197.12	
1/4	1/4	5,058.12	1/4	4,721.78	1/4	4,380.58	1/4	4,019.30	1/4	3,653.42	1/4	3,287.54	1/4	2,921.63	1/4	2,555.56	1/4	2,189.49	
1/2	1/2	5,050.74	1/2	4,714.88	1/2	4,373.23	1/2	4,011.68	1/2	3,645.80	1/2	3,279.92	1/2	2,914.01	1/2	2,547.93	1/2	2,181.86	
3/4	3/4	5,043.37	3/4	4,707.98	3/4	4,365.87	3/4	4,004.06	3/4	3,638.18	3/4	3,272.30	3/4	2,906.38	3/4	2,540.31	3/4	2,174.24	
2	2	5,035.99	2	4,701.07	2	4,358.51	2	3,996.44	2	3,630.56	2	3,264.68	2	2,898.75	2	2,532.68	2	2,166.61	
1/4	1/4	5,028.62	1/4	4,694.17	1/4	4,351.16	1/4	3,988.81	1/4	3,622.93	1/4	3,257.05	1/4	2,891.13	1/4	2,525.05	1/4	2,158.98	
1/2	1/2	5,021.05	1/2	4,687.22	1/2	4,343.76	1/2	3,981.19	1/2	3,615.31	1/2	3,249.43	1/2	2,883.50	1/2	2,517.43	1/2	2,151.36	
3/4	3/4	5,013.49	3/4	4,680.27	3/4	4,336.37	3/4	3,973.57	3/4	3,607.69	3/4	3,241.81	3/4	2,875.87	3/4	2,509.80	3/4	2,143.73	
3	3	5,005.92	3	4,673.32	3	4,328.98	3	3,965.95	3	3,600.07	3	3,234.19	3	2,868.25	3	2,502.18	3	2,136.10	
1/4	1/4	4,998.36	1/4	4,666.38	1/4	4,321.59	1/4	3,958.32	1/4	3,592.44	1/4	3,226.56	1/4	2,860.62	1/4	2,494.55	1/4	2,128.48	
1/2	1/2	4,990.79	1/2	4,659.39	1/2	4,314.17	1/2	3,950.70	1/2	3,584.82	1/2	3,218.94	1/2	2,852.99	1/2	2,486.92	1/2	2,120.85	
3/4	3/4	4,983.23	3/4	4,652.40	3/4	4,306.74	3/4	3,943.08	3/4	3,577.20	3/4	3,211.32	3/4	2,845.37	3/4	2,479.30	3/4	2,113.22	
4	4	4,975.66	4	4,645.41	4	4,299.32	4	3,935.46	4	3,569.58	4	3,203.70	4	2,837.74	4	2,471.67	4	2,105.60	
1/4	1/4	4,968.10	1/4	4,638.42	1/4	4,291.89	1/4	3,927.83	1/4	3,561.95	1/4	3,196.07	1/4	2,830.11	1/4	2,464.04	1/4	2,097.97	
1/2	1/2	4,960.53	1/2	4,631.40	1/2	4,284.43	1/2	3,920.21	1/2	3,554.33	1/2	3,188.45	1/2	2,822.49	1/2	2,456.42	1/2	2,090.34	
3/4	3/4	4,952.97	3/4	4,624.37	3/4	4,276.98	3/4	3,912.59	3/4	3,546.71	3/4	3,180.83	3/4	2,814.86	3/4	2,448.79	3/4	2,082.72	
5	5	4,945.40	5	4,617.35	5	4,269.52	5	3,904.97	5	3,539.09	5	3,173.21	5	2,807.24	5	2,441.16	5	2,075.09	
1/4	1/4	4,937.84	1/4	4,610.33	1/4	4,262.06	1/4	3,897.34	1/4	3,531.46	1/4	3,165.58	1/4	2,799.61	1/4	2,433.54	1/4	2,067.46	
1/2	1/2	4,930.99	1/2	4,603.27	1/2	4,254.56	1/2	3,889.72	1/2	3,523.84	1/2	3,157.96	1/2	2,791.98	1/2	2,425.91	1/2	2,059.84	
3/4	3/4	4,924.14	3/4	4,596.21	3/4	4,247.06	3/4	3,882.10	3/4	3,516.22	3/4	3,150.34	3/4	2,784.36	3/4	2,418.28	3/4	2,052.21	
6	6	4,917.29	6	4,589.15	6	4,239.56	6	3,874.48	6	3,508.60	6	3,142.72	6	2,776.73	6	2,410.66	6	2,044.59	
1/4	1/4	4,910.44	1/4	4,582.10	1/4	4,232.07	1/4	3,866.85	1/4	3,500.97	1/4	3,135.09	1/4	2,769.10	1/4	2,403.03	1/4	2,036.96	
1/2	1/2	4,903.81	1/2	4,575.00	1/2	4,224.53	1/2	3,859.23	1/2	3,493.35	1/2	3,127.47	1/2	2,761.48	1/2	2,395.40	1/2	2,029.87	
3/4	3/4	4,897.18	3/4	4,567.91	3/4	4,217.00	3/4	3,851.61	3/4	3,485.73	3/4	3,119.85	3/4	2,753.85	3/4	2,387.78	3/4	2,022.79	
7	7	4,890.54	7	4,560.82	7	4,209.46	7	3,843.99	7	3,478.11	7	3,112.23	7	2,746.22	7	2,380.15	7	2,015.70	
1/4	1/4	4,883.91	1/4	4,553.73	1/4	4,201.93	1/4	3,836.36	1/4	3,470.48	1/4	3,104.60	1/4	2,738.60	1/4	2,372.52	1/4	2,008.62	
1/2	1/2	4,877.24	1/2	4,546.61	1/2	4,194.36	1/2	3,828.74	1/2	3,462.86	1/2	3,096.98	1/2	2,730.97	1/2	2,364.90	1/2	2,001.71	
3/4	3/4	4,870.58	3/4	4,539.48	3/4	4,186.79	3/4	3,821.12	3/4	3,455.24	3/4	3,089.36	3/4	2,723.34	3/4	2,357.27	3/4	1,994.81	
8	8	4,863.91	8	4,532.36	8	4,179.23	8	3,813.50	8	3,447.62	8	3,081.74	8	2,715.72	8	2,349.65	8	1,987.90	
1/4	1/4	4,857.25	1/4	4,525.23	1/4	4,171.66	1/4	3,805.87	1/4	3,439.99	1/4	3,074.11	1/4	2,708.09	1/4	2,342.02	1/4	1,981.00	
1/2	1/2	4,850.54	1/2	4,518.07	1/2	4,164.06	1/2	3,798.25	1/2	3,432.37	1/2	3,066.49	1/2	2,700.46	1/2	2,334.39	1/2	1,973.58	
3/4	3/4	4,843.84	3/4	4,510.91	3/4	4,156.45	3/4	3,790.63	3/4	3,424.75	3/4	3,058.87	3/4	2,692.84	3/4	2,326.77	3/4	1,966.16	
9	9	4,837.14	9	4,503.76	9	4,148.85	9	3,783.01	9	3,417.13	9	3,051.25	9	2,685.21	9	2,319.14	9	1,958.73	
1/4	1/4	4,830.43	1/4	4,496.60	1/4	4,141.25	1/4	3,775.38	1/4	3,409.50	1/4	3,043.62	1/4	2,677.58	1/4	2,311.51	1/4	1,951.31	
1/2	1/2	4,823.69	1/2	4,489.40	1/2	4,133.63	1/2	3,767.76	1/2	3,401.88	1/2	3,036.00	1/2	2,669.96	1/2	2,303.89	1/2	1,943.72	
3/4	3/4	4,816.95	3/4	4,482.21	3/4	4,126.01	3/4	3,760.14	3/4	3,394.26	3/4	3,028.38	3/4	2,662.33	3/4	2,296.26	3/4	1,936.13	
10	10	4,810.21	10	4,475.02	10	4,118.39	10	3,752.52	10	3,386.64	10	3,020.76	10	2,654.71	10	2,288.63	10	1,928.54	
1/4	1/4	4,803.47	1/4	4,467.83	1/4	4,110.77	1/4	3,744.89	1/4	3,379.01	1/4	3,013.13	1/4	2,647.08	1/4	2,281.01	1/4	1,920.94	
1/2	1/2	4,796.70	1/2	4,460.60	1/2	4,103.15	1/2	3,737.27	1/2	3,371.39	1/2	3,005.51	1/2	2,639.45	1/2	2,273.38	1/2	1,913.35	
3/4	3/4	4,789.92	3/4	4,453.38	3/4	4,095.53	3/4	3,729.65	3/4	3,363.77	3/4	2,997.89	3/4	2,631.83	3/4	2,265.75	3/4	1,905.76	
11	11	4,783.15	11	4,446.15	11	4,087.91	11	3,722.03	11	3,356.15	11	2,990.27	11	2,624.20	11	2,258.13	11	1,898.17	
1/4	1/4	4,776.38	1/4	4,438.92	1/4	4,080.28	1/4	3,714.40	1/4	3,348.52	1/4	2,982.64	1/4	2,616.57	1/4	2,250.50	1/4	1,890.57	
1/2	1/2	4,769.57	1/2	4,431.66	1/2	4,072.66	1/2	3,706.78	1/2	3,340.90	1/2	2,975.02	1/2	2,608.95	1/2	2,242.87	1/2	1,882.96	
3/4	3/4	4,762.76	3/4	4,424.39	3/4	4,065.04	3/4	3,699.16	3/4	3,333.28	3/4	2,967.39	3/4	2,601.32	3/4	2,235.25	3/4	1,875.34	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD

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





BARGE "CTCo 331"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/4"

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	1,867.72	0	1,501.58	0	1,135.44	0	769.79	0	407.73	0	86.37	0		0		0		0	
1/4	1,860.10	1/4	1,493.96	1/4	1,127.81	1/4	762.17	1/4	400.49	1/4	80.18	1/4		1/4		1/4		1/4	
1/2	1,852.47	1/2	1,486.33	1/2	1,120.18	1/2	754.54	1/2	393.34	1/2	74.10	1/2		1/2		1/2		1/2	
3/4	1,844.84	3/4	1,478.70	3/4	1,112.56	3/4	746.91	3/4	386.19	3/4	68.02	3/4		3/4		3/4		3/4	
1	1,837.22	1	1,471.07	1	1,104.93	1	739.28	1	379.04	1	61.94	1		1		1		1	
1/4	1,829.59	1/4	1,463.44	1/4	1,097.30	1/4	731.66	1/4	371.89	1/4	55.86	1/4		1/4		1/4		1/4	
1/2	1,821.96	1/2	1,455.82	1/2	1,089.68	1/2	724.03	1/2	364.83	1/2	50.56	1/2		1/2		1/2		1/2	
3/4	1,814.33	3/4	1,448.19	3/4	1,082.05	3/4	716.40	3/4	357.76	3/4	45.26	3/4		3/4		3/4		3/4	
2	1,806.70	2	1,440.56	2	1,074.43	2	708.77	2	350.70	2	39.96	2		2		2		2	
1/4	1,799.08	1/4	1,432.93	1/4	1,066.81	1/4	701.14	1/4	343.63	1/4	34.67	1/4		1/4		1/4		1/4	
1/2	1,791.45	1/2	1,425.30	1/2	1,059.19	1/2	693.52	1/2	336.66	1/2	30.78	1/2		1/2		1/2		1/2	
3/4	1,783.82	3/4	1,417.68	3/4	1,051.57	3/4	685.89	3/4	329.68	3/4	26.89	3/4		3/4		3/4		3/4	
3	1,776.19	3	1,410.05	3	1,043.94	3	678.26	3	322.70	3	23.01	3		3		3		3	
1/4	1,768.56	1/4	1,402.42	1/4	1,036.32	1/4	670.63	1/4	315.72	1/4	19.12	1/4		1/4		1/4		1/4	
1/2	1,760.94	1/2	1,394.79	1/2	1,028.71	1/2	663.01	1/2	308.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,753.31	3/4	1,387.16	3/4	1,021.09	3/4	655.38	3/4	301.94	3/4		3/4		3/4		3/4		3/4	
4	1,745.68	4	1,379.54	4	1,013.48	4	647.75	4	295.05	4		4		4		4		4	
1/4	1,738.05	1/4	1,371.91	1/4	1,005.86	1/4	640.12	1/4	288.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,730.42	1/2	1,364.28	1/2	998.25	1/2	632.50	1/2	281.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,722.80	3/4	1,356.65	3/4	990.63	3/4	624.87	3/4	274.55	3/4		3/4		3/4		3/4		3/4	
5	1,715.17	5	1,349.02	5	983.02	5	617.24	5	267.75	5		5		5		5		5	
1/4	1,707.54	1/4	1,341.40	1/4	975.40	1/4	609.61	1/4	260.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,699.91	1/2	1,333.77	1/2	967.79	1/2	601.98	1/2	254.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,692.28	3/4	1,326.14	3/4	960.17	3/4	594.36	3/4	247.51	3/4		3/4		3/4		3/4		3/4	
6	1,684.66	6	1,318.51	6	952.56	6	586.73	6	240.79	6		6		6		6		6	
1/4	1,677.03	1/4	1,310.88	1/4	944.95	1/4	579.10	1/4	234.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,669.40	1/2	1,303.26	1/2	937.33	1/2	571.49	1/2	227.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,661.77	3/4	1,295.63	3/4	929.72	3/4	563.87	3/4	220.81	3/4		3/4		3/4		3/4		3/4	
7	1,654.14	7	1,288.00	7	922.10	7	556.26	7	214.18	7		7		7		7		7	
1/4	1,646.52	1/4	1,280.37	1/4	914.49	1/4	548.65	1/4	207.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,638.89	1/2	1,272.74	1/2	906.88	1/2	541.08	1/2	201.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,631.26	3/4	1,265.12	3/4	899.26	3/4	533.51	3/4	194.46	3/4		3/4		3/4		3/4		3/4	
8	1,623.63	8	1,257.49	8	891.65	8	525.94	8	187.92	8		8		8		8		8	
1/4	1,616.00	1/4	1,249.86	1/4	884.03	1/4	518.37	1/4	181.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,608.38	1/2	1,242.23	1/2	876.42	1/2	510.87	1/2	174.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,600.75	3/4	1,234.60	3/4	868.81	3/4	503.38	3/4	168.46	3/4		3/4		3/4		3/4		3/4	
9	1,593.12	9	1,226.98	9	861.19	9	495.88	9	162.00	9		9		9		9		9	
1/4	1,585.49	1/4	1,219.35	1/4	853.58	1/4	488.39	1/4	155.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,577.86	1/2	1,211.72	1/2	845.96	1/2	480.98	1/2	149.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,570.24	3/4	1,204.09	3/4	838.35	3/4	473.56	3/4	142.81	3/4		3/4		3/4		3/4		3/4	
10	1,562.61	10	1,196.46	10	830.74	10	466.15	10	136.43	10		10		10		10		10	
1/4	1,554.98	1/4	1,188.84	1/4	823.12	1/4	458.74	1/4	130.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,547.35	1/2	1,181.21	1/2	815.51	1/2	451.42	1/2	123.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,539.72	3/4	1,173.58	3/4	807.89	3/4	444.09	3/4	117.50	3/4		3/4		3/4		3/4		3/4	
11	1,532.10	11	1,165.95	11	800.28	11	436.77	11	111.22	11		11		11		11		11	
1/4	1,524.47	1/4	1,158.32	1/4	792.66	1/4	429.44	1/4	104.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,516.84	1/2	1,150.70	1/2	785.04	1/2	422.21	1/2	98.74	1/2		1/2		1/2		1/2		1/2	
3/4	1,509.21	3/4	1,143.07	3/4	777.42	3/4	414.97	3/4	92.56	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 CL
CALCULATED: 07/12/2014 CL
PRINTED: 07/12/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

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



BARGE "CTCo 331"

1 PORT

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	5,085.04	0	4,750.53	0	4,411.40	0	4,051.50	0	3,685.79	0	3,319.76	0	2,953.48	0	2,587.02	0	2,220.55	
1/4	1/4	5,078.62	1/4	4,743.69	1/4	4,404.08	1/4	4,043.88	1/4	3,678.17	1/4	3,312.13	1/4	2,945.85	1/4	2,579.38	1/4	2,212.92	
1/2	1/2	5,072.20	1/2	4,736.86	1/2	4,396.77	1/2	4,036.26	1/2	3,670.55	1/2	3,304.50	1/2	2,938.21	1/2	2,571.75	1/2	2,205.28	
3/4	3/4	5,065.78	3/4	4,730.02	3/4	4,389.45	3/4	4,028.64	3/4	3,662.93	3/4	3,296.87	3/4	2,930.58	3/4	2,564.11	3/4	2,197.65	
1	1	5,059.36	1	4,723.18	1	4,382.14	1	4,021.02	1	3,655.31	1	3,289.24	1	2,922.94	1	2,556.48	1	2,190.01	
1/4	1/4	5,051.99	1/4	4,716.28	1/4	4,374.79	1/4	4,013.41	1/4	3,647.69	1/4	3,281.61	1/4	2,915.31	1/4	2,548.84	1/4	2,182.38	
1/2	1/2	5,044.62	1/2	4,709.38	1/2	4,367.43	1/2	4,005.79	1/2	3,640.07	1/2	3,273.98	1/2	2,907.67	1/2	2,541.21	1/2	2,174.74	
3/4	3/4	5,037.24	3/4	4,702.48	3/4	4,360.08	3/4	3,998.17	3/4	3,632.46	3/4	3,266.35	3/4	2,900.04	3/4	2,533.57	3/4	2,167.11	
2	2	5,029.87	2	4,695.58	2	4,352.72	2	3,990.55	2	3,624.84	2	3,258.72	2	2,892.40	2	2,525.94	2	2,159.47	
1/4	1/4	5,022.31	1/4	4,688.63	1/4	4,345.34	1/4	3,982.93	1/4	3,617.22	1/4	3,251.08	1/4	2,884.77	1/4	2,518.30	1/4	2,151.84	
1/2	1/2	5,014.75	1/2	4,681.69	1/2	4,337.95	1/2	3,975.31	1/2	3,609.60	1/2	3,243.45	1/2	2,877.13	1/2	2,510.67	1/2	2,144.20	
3/4	3/4	5,007.18	3/4	4,674.74	3/4	4,330.56	3/4	3,967.69	3/4	3,601.98	3/4	3,235.82	3/4	2,869.50	3/4	2,503.03	3/4	2,136.57	
3	3	4,999.62	3	4,667.80	3	4,323.17	3	3,960.07	3	3,594.36	3	3,228.19	3	2,861.87	3	2,495.40	3	2,128.93	
1/4	1/4	4,992.06	1/4	4,660.81	1/4	4,315.75	1/4	3,952.45	1/4	3,586.74	1/4	3,220.56	1/4	2,854.23	1/4	2,487.77	1/4	2,121.30	
1/2	1/2	4,984.50	1/2	4,653.83	1/2	4,308.33	1/2	3,944.83	1/2	3,579.12	1/2	3,212.93	1/2	2,846.60	1/2	2,480.13	1/2	2,113.66	
3/4	3/4	4,976.94	3/4	4,646.84	3/4	4,300.91	3/4	3,937.22	3/4	3,571.50	3/4	3,205.30	3/4	2,838.96	3/4	2,472.50	3/4	2,106.03	
4	4	4,969.38	4	4,639.86	4	4,293.49	4	3,929.60	4	3,563.88	4	3,197.67	4	2,831.33	4	2,464.86	4	2,098.40	
1/4	1/4	4,961.82	1/4	4,632.84	1/4	4,286.03	1/4	3,921.98	1/4	3,556.27	1/4	3,190.04	1/4	2,823.69	1/4	2,457.23	1/4	2,090.76	
1/2	1/2	4,954.25	1/2	4,625.82	1/2	4,278.58	1/2	3,914.36	1/2	3,548.65	1/2	3,182.41	1/2	2,816.06	1/2	2,449.59	1/2	2,083.13	
3/4	3/4	4,946.69	3/4	4,618.80	3/4	4,271.12	3/4	3,906.74	3/4	3,541.03	3/4	3,174.78	3/4	2,808.42	3/4	2,441.96	3/4	2,075.49	
5	5	4,939.13	5	4,611.78	5	4,263.67	5	3,899.12	5	3,533.41	5	3,167.15	5	2,800.79	5	2,434.32	5	2,067.86	
1/4	1/4	4,932.29	1/4	4,604.72	1/4	4,256.17	1/4	3,891.50	1/4	3,525.78	1/4	3,159.52	1/4	2,793.15	1/4	2,426.69	1/4	2,060.22	
1/2	1/2	4,925.44	1/2	4,597.67	1/2	4,248.68	1/2	3,883.88	1/2	3,518.15	1/2	3,151.89	1/2	2,785.52	1/2	2,419.05	1/2	2,052.59	
3/4	3/4	4,918.60	3/4	4,590.61	3/4	4,241.18	3/4	3,876.26	3/4	3,510.52	3/4	3,144.26	3/4	2,777.88	3/4	2,411.42	3/4	2,044.95	
6	6	4,911.75	6	4,583.56	6	4,233.69	6	3,868.64	6	3,502.89	6	3,136.63	6	2,770.25	6	2,403.78	6	2,037.32	
1/4	1/4	4,905.12	1/4	4,576.47	1/4	4,226.16	1/4	3,861.03	1/4	3,495.26	1/4	3,129.00	1/4	2,762.61	1/4	2,396.15	1/4	2,030.22	
1/2	1/2	4,898.49	1/2	4,569.38	1/2	4,218.63	1/2	3,853.41	1/2	3,487.63	1/2	3,121.36	1/2	2,754.98	1/2	2,388.51	1/2	2,023.13	
3/4	3/4	4,891.86	3/4	4,562.29	3/4	4,211.10	3/4	3,845.79	3/4	3,480.00	3/4	3,113.73	3/4	2,747.34	3/4	2,380.88	3/4	2,016.04	
7	7	4,885.23	7	4,555.21	7	4,203.57	7	3,838.17	7	3,472.37	7	3,106.10	7	2,739.71	7	2,373.24	7	2,008.94	
1/4	1/4	4,878.56	1/4	4,548.08	1/4	4,196.00	1/4	3,830.55	1/4	3,464.74	1/4	3,098.47	1/4	2,732.08	1/4	2,365.61	1/4	2,002.03	
1/2	1/2	4,871.90	1/2	4,540.96	1/2	4,188.44	1/2	3,822.93	1/2	3,457.11	1/2	3,090.84	1/2	2,724.44	1/2	2,357.98	1/2	1,995.12	
3/4	3/4	4,865.24	3/4	4,533.84	3/4	4,180.87	3/4	3,815.31	3/4	3,449.48	3/4	3,083.21	3/4	2,716.81	3/4	2,350.34	3/4	1,988.20	
8	8	4,858.58	8	4,526.72	8	4,173.31	8	3,807.69	8	3,441.85	8	3,075.58	8	2,709.17	8	2,342.71	8	1,981.29	
1/4	1/4	4,851.88	1/4	4,519.56	1/4	4,165.71	1/4	3,800.07	1/4	3,434.22	1/4	3,067.95	1/4	2,701.54	1/4	2,335.07	1/4	1,973.86	
1/2	1/2	4,845.18	1/2	4,512.41	1/2	4,158.11	1/2	3,792.45	1/2	3,426.59	1/2	3,060.32	1/2	2,693.90	1/2	2,327.44	1/2	1,966.43	
3/4	3/4	4,838.48	3/4	4,505.25	3/4	4,150.51	3/4	3,784.84	3/4	3,418.96	3/4	3,052.69	3/4	2,686.27	3/4	2,319.80	3/4	1,959.00	
9	9	4,831.78	9	4,498.10	9	4,142.92	9	3,777.22	9	3,411.33	9	3,045.06	9	2,678.63	9	2,312.17	9	1,951.57	
1/4	1/4	4,825.04	1/4	4,490.91	1/4	4,135.30	1/4	3,769.60	1/4	3,403.70	1/4	3,037.43	1/4	2,671.00	1/4	2,304.53	1/4	1,943.97	
1/2	1/2	4,818.30	1/2	4,483.72	1/2	4,127.68	1/2	3,761.98	1/2	3,396.07	1/2	3,029.80	1/2	2,663.36	1/2	2,296.90	1/2	1,936.37	
3/4	3/4	4,811.57	3/4	4,476.53	3/4	4,120.07	3/4	3,754.36	3/4	3,388.44	3/4	3,022.17	3/4	2,655.73	3/4	2,289.26	3/4	1,928.77	
10	10	4,804.83	10	4,469.34	10	4,112.45	10	3,746.74	10	3,380.80	10	3,014.54	10	2,648.09	10	2,281.63	10	1,921.17	
1/4	1/4	4,798.06	1/4	4,462.12	1/4	4,104.83	1/4	3,739.12	1/4	3,373.17	1/4	3,006.91	1/4	2,640.46	1/4	2,273.99	1/4	1,913.57	
1/2	1/2	4,791.29	1/2	4,454.90	1/2	4,097.21	1/2	3,731.50	1/2	3,365.54	1/2	2,999.27	1/2	2,632.82	1/2	2,266.36	1/2	1,905.97	
3/4	3/4	4,784.52	3/4	4,447.67	3/4	4,089.60	3/4	3,723.88	3/4	3,357.91	3/4	2,991.64	3/4	2,625.19	3/4	2,258.72	3/4	1,898.37	
11	11	4,777.75	11	4,440.45	11	4,081.98	11	3,716.26	11	3,350.28	11	2,984.01	11	2,617.55	11	2,251.09	11	1,890.77	
1/4	1/4	4,770.94	1/4	4,433.19	1/4	4,074.36	1/4	3,708.65	1/4	3,342.65	1/4	2,976.38	1/4	2,609.92	1/4	2,243.45	1/4	1,883.14	
1/2	1/2	4,764.14	1/2	4,425.92	1/2	4,066.74	1/2	3,701.03	1/2	3,335.02	1/2	2,968.75	1/2	2,602.29	1/2	2,235.82	1/2	1,875.51	
3/4	3/4	4,757.34	3/4	4,418.66	3/4	4,059.12	3/4	3,693.41	3/4	3,327.39	3/4	2,961.11	3/4	2,594.65	3/4	2,228.19	3/4	1,867.89	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "CTCo 331"

**1 PORT
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-03"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	1,860.26	0	1,493.72	0	1,127.28	0	762.87	0	400.75	0	80.14	0		0		0		0	
1/4	1,852.62	1/4	1,486.09	1/4	1,119.67	1/4	755.24	1/4	393.59	1/4	74.06	1/4		1/4		1/4		1/4	
1/2	1,844.99	1/2	1,478.45	1/2	1,112.07	1/2	747.60	1/2	386.43	1/2	67.98	1/2		1/2		1/2		1/2	
3/4	1,837.35	3/4	1,470.82	3/4	1,104.46	3/4	739.97	3/4	379.27	3/4	61.91	3/4		3/4		3/4		3/4	
1	1,829.71	1	1,463.18	1	1,096.85	1	732.33	1	372.11	1	55.83	1		1		1		1	
1/4	1,822.08	1/4	1,455.54	1/4	1,089.26	1/4	724.70	1/4	365.04	1/4	50.54	1/4		1/4		1/4		1/4	
1/2	1,814.44	1/2	1,447.91	1/2	1,081.66	1/2	717.06	1/2	357.97	1/2	45.24	1/2		1/2		1/2		1/2	
3/4	1,806.81	3/4	1,440.27	3/4	1,074.07	3/4	709.42	3/4	350.90	3/4	39.94	3/4		3/4		3/4		3/4	
2	1,799.17	2	1,432.64	2	1,066.47	2	701.79	2	343.82	2	34.65	2		2		2		2	
1/4	1,791.53	1/4	1,425.00	1/4	1,058.88	1/4	694.15	1/4	336.84	1/4	30.76	1/4		1/4		1/4		1/4	
1/2	1,783.90	1/2	1,417.36	1/2	1,051.29	1/2	686.52	1/2	329.85	1/2	26.88	1/2		1/2		1/2		1/2	
3/4	1,776.26	3/4	1,409.73	3/4	1,043.69	3/4	678.88	3/4	322.87	3/4	23.00	3/4		3/4		3/4		3/4	
3	1,768.62	3	1,402.09	3	1,036.10	3	671.24	3	315.88	3	19.11	3		3		3		3	
1/4	1,760.99	1/4	1,394.46	1/4	1,028.51	1/4	663.61	1/4	308.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,753.35	1/2	1,386.82	1/2	1,020.93	1/2	655.97	1/2	302.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,745.72	3/4	1,379.18	3/4	1,013.34	3/4	648.34	3/4	295.18	3/4		3/4		3/4		3/4		3/4	
4	1,738.08	4	1,371.55	4	1,005.75	4	640.70	4	288.28	4		4		4		4		4	
1/4	1,730.44	1/4	1,363.91	1/4	998.17	1/4	633.06	1/4	281.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,722.81	1/2	1,356.28	1/2	990.58	1/2	625.43	1/2	274.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,715.17	3/4	1,348.64	3/4	983.00	3/4	617.79	3/4	267.85	3/4		3/4		3/4		3/4		3/4	
5	1,707.54	5	1,341.00	5	975.41	5	610.16	5	261.03	5		5		5		5		5	
1/4	1,699.90	1/4	1,333.37	1/4	967.83	1/4	602.52	1/4	254.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,692.26	1/2	1,325.73	1/2	960.24	1/2	594.88	1/2	247.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.63	3/4	1,318.09	3/4	952.66	3/4	587.25	3/4	240.86	3/4		3/4		3/4		3/4		3/4	
6	1,676.99	6	1,310.46	6	945.07	6	579.61	6	234.13	6		6		6		6		6	
1/4	1,669.36	1/4	1,302.82	1/4	937.49	1/4	571.99	1/4	227.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,661.72	1/2	1,295.19	1/2	929.90	1/2	564.36	1/2	220.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,654.08	3/4	1,287.55	3/4	922.32	3/4	556.73	3/4	214.21	3/4		3/4		3/4		3/4		3/4	
7	1,646.45	7	1,279.91	7	914.73	7	549.10	7	207.58	7		7		7		7		7	
1/4	1,638.81	1/4	1,272.28	1/4	907.15	1/4	541.52	1/4	201.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,631.17	1/2	1,264.64	1/2	899.56	1/2	533.93	1/2	194.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,623.54	3/4	1,257.01	3/4	891.98	3/4	526.35	3/4	187.92	3/4		3/4		3/4		3/4		3/4	
8	1,615.90	8	1,249.37	8	884.39	8	518.76	8	181.37	8		8		8		8		8	
1/4	1,608.27	1/4	1,241.73	1/4	876.80	1/4	511.26	1/4	174.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,600.63	1/2	1,234.10	1/2	869.22	1/2	503.75	1/2	168.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,592.99	3/4	1,226.46	3/4	861.63	3/4	496.25	3/4	161.97	3/4		3/4		3/4		3/4		3/4	
9	1,585.36	9	1,218.83	9	854.05	9	488.74	9	155.50	9		9		9		9		9	
1/4	1,577.72	1/4	1,211.19	1/4	846.46	1/4	481.32	1/4	149.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,570.09	1/2	1,203.55	1/2	838.88	1/2	473.90	1/2	142.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,562.45	3/4	1,195.92	3/4	831.29	3/4	466.48	3/4	136.38	3/4		3/4		3/4		3/4		3/4	
10	1,554.81	10	1,188.28	10	823.71	10	459.06	10	130.00	10		10		10		10		10	
1/4	1,547.18	1/4	1,180.64	1/4	816.12	1/4	451.73	1/4	123.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,539.54	1/2	1,173.01	1/2	808.54	1/2	444.40	1/2	117.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,531.91	3/4	1,165.37	3/4	800.95	3/4	437.07	3/4	111.16	3/4		3/4		3/4		3/4		3/4	
11	1,524.27	11	1,157.74	11	793.37	11	429.73	11	104.88	11		11		11		11		11	
1/4	1,516.63	1/4	1,150.12	1/4	785.74	1/4	422.49	1/4	98.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,509.00	1/2	1,142.51	1/2	778.12	1/2	415.24	1/2	92.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,501.36	3/4	1,134.89	3/4	770.50	3/4	408.00	3/4	86.32	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/11/2014 CL
CALCULATED: 07/12/2014 CL
PRINTED: 07/12/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2014

PRECISION MEASUREMENT
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