



BARGE "DBL 321"

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	- 00-1/8	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
1 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
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	- 00-1/4	00-1/4
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	- 00-1/4	00-1/4
3 PORT	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2
3 STBD	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

December 6, 2022

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "DBL 321"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	4,920.52	0	4,588.65	0	4,242.67	0	3,883.76	0	3,520.79	0	3,157.82	0	2,794.85	0	2,431.81
1/4	1/4	1/4	4,913.75	1/4	4,581.58	1/4	4,235.32	1/4	3,876.20	1/4	3,513.23	1/4	3,150.26	1/4	2,787.29	1/4	2,424.24		
1/2	1/2	1/2	5,220.27	1/2	4,906.99	1/2	4,574.51	1/2	4,227.98	1/2	3,868.64	1/2	3,505.67	1/2	3,142.70	1/2	2,779.72	1/2	2,416.68
3/4	3/4	3/4	5,215.14	3/4	4,900.20	3/4	4,567.42	3/4	4,220.61	3/4	3,861.08	3/4	3,498.10	3/4	3,135.13	3/4	2,772.16	3/4	2,409.11
1		1	5,210.02	1	4,893.41	1	4,560.33	1	4,213.24	1	3,853.51	1	3,490.54	1	3,127.57	1	2,764.60	1	2,401.55
1/4	1/4	1/4	5,204.90	1/4	4,886.63	1/4	4,553.23	1/4	4,205.87	1/4	3,845.95	1/4	3,482.98	1/4	3,120.01	1/4	2,757.04	1/4	2,393.98
1/2	1/2	1/2	5,199.77	1/2	4,879.84	1/2	4,546.14	1/2	4,198.50	1/2	3,838.39	1/2	3,475.42	1/2	3,112.45	1/2	2,749.48	1/2	2,386.42
3/4	3/4	3/4	5,193.43	3/4	4,873.03	3/4	4,539.02	3/4	4,191.11	3/4	3,830.83	3/4	3,467.86	3/4	3,104.89	3/4	2,741.91	3/4	2,378.86
2		2	5,187.09	2	4,866.22	2	4,531.91	2	4,183.72	2	3,823.27	2	3,460.29	2	3,097.32	2	2,734.35	2	2,371.29
1/4	1/4	1/4	5,180.75	1/4	4,859.41	1/4	4,524.79	1/4	4,176.32	1/4	3,815.70	1/4	3,452.73	1/4	3,089.76	1/4	2,726.79	1/4	2,363.73
1/2	1/2	1/2	5,174.41	1/2	4,852.60	1/2	4,517.68	1/2	4,168.93	1/2	3,808.14	1/2	3,445.17	1/2	3,082.20	1/2	2,719.23	1/2	2,356.16
3/4	3/4	3/4	5,167.20	3/4	4,845.76	3/4	4,510.54	3/4	4,161.52	3/4	3,800.58	3/4	3,437.61	3/4	3,074.64	3/4	2,711.67	3/4	2,348.60
3		3	5,160.00	3	4,838.93	3	4,503.40	3	4,154.10	3	3,793.02	3	3,430.05	3	3,067.08	3	2,704.10	3	2,341.03
1/4	1/4	1/4	5,152.79	1/4	4,832.10	1/4	4,496.26	1/4	4,146.69	1/4	3,785.46	1/4	3,422.49	1/4	3,059.51	1/4	2,696.54	1/4	2,333.47
1/2	1/2	1/2	5,145.59	1/2	4,825.26	1/2	4,489.12	1/2	4,139.27	1/2	3,777.89	1/2	3,414.92	1/2	3,051.95	1/2	2,688.98	1/2	2,325.90
3/4	3/4	3/4	5,139.08	3/4	4,818.41	3/4	4,481.96	3/4	4,131.83	3/4	3,770.33	3/4	3,407.36	3/4	3,044.39	3/4	2,681.42	3/4	2,318.34
4		4	5,132.56	4	4,811.55	4	4,474.80	4	4,124.39	4	3,762.77	4	3,399.80	4	3,036.83	4	2,673.86	4	2,310.77
1/4	1/4	1/4	5,126.05	1/4	4,804.69	1/4	4,467.64	1/4	4,116.96	1/4	3,755.21	1/4	3,392.24	1/4	3,029.27	1/4	2,666.30	1/4	2,303.21
1/2	1/2	1/2	5,119.54	1/2	4,797.84	1/2	4,460.47	1/2	4,109.52	1/2	3,747.65	1/2	3,384.68	1/2	3,021.70	1/2	2,658.73	1/2	2,295.64
3/4	3/4	3/4	5,113.01	3/4	4,790.96	3/4	4,453.29	3/4	4,102.06	3/4	3,740.09	3/4	3,377.11	3/4	3,014.14	3/4	2,651.17	3/4	2,288.08
5		5	5,106.47	5	4,784.08	5	4,446.10	5	4,094.60	5	3,732.52	5	3,369.55	5	3,006.58	5	2,643.61	5	2,280.51
1/4	1/4	1/4	5,099.94	1/4	4,777.20	1/4	4,438.92	1/4	4,087.13	1/4	3,724.96	1/4	3,361.99	1/4	2,999.02	1/4	2,636.05	1/4	2,272.95
1/2	1/2	1/2	5,093.41	1/2	4,770.32	1/2	4,431.73	1/2	4,079.67	1/2	3,717.40	1/2	3,354.43	1/2	2,991.46	1/2	2,628.49	1/2	2,265.38
3/4	3/4	3/4	5,086.85	3/4	4,763.41	3/4	4,424.53	3/4	4,072.19	3/4	3,709.84	3/4	3,346.87	3/4	2,983.90	3/4	2,620.93	3/4	2,257.82
6		6	5,080.29	6	4,756.51	6	4,417.32	6	4,064.70	6	3,702.28	6	3,339.30	6	2,976.33	6	2,613.36	6	2,250.26
1/4	1/4	1/4	5,073.74	1/4	4,749.61	1/4	4,410.11	1/4	4,057.22	1/4	3,694.71	1/4	3,331.74	1/4	2,968.77	1/4	2,605.80	1/4	2,242.69
1/2	1/2	1/2	5,067.18	1/2	4,742.71	1/2	4,402.90	1/2	4,049.74	1/2	3,687.15	1/2	3,324.18	1/2	2,961.21	1/2	2,598.23	1/2	2,235.13
3/4	3/4	3/4	5,060.60	3/4	4,735.78	3/4	4,395.67	3/4	4,042.23	3/4	3,679.59	3/4	3,316.62	3/4	2,953.65	3/4	2,590.67	3/4	2,227.56
7		7	5,054.02	7	4,728.85	7	4,388.44	7	4,034.72	7	3,672.03	7	3,309.06	7	2,946.09	7	2,583.10	7	2,220.00
1/4	1/4	1/4	5,047.44	1/4	4,721.92	1/4	4,381.21	1/4	4,027.21	1/4	3,664.47	1/4	3,301.50	1/4	2,938.52	1/4	2,575.54	1/4	2,212.43
1/2	1/2	1/2	5,040.86	1/2	4,714.99	1/2	4,373.98	1/2	4,019.71	1/2	3,656.90	1/2	3,293.93	1/2	2,930.96	1/2	2,567.97	1/2	2,204.87
3/4	3/4	3/4	5,034.25	3/4	4,708.01	3/4	4,366.72	3/4	4,012.18	3/4	3,649.34	3/4	3,286.37	3/4	2,923.40	3/4	2,560.41	3/4	2,197.30
8		8	5,027.65	8	4,701.03	8	4,359.47	8	4,004.65	8	3,641.78	8	3,278.81	8	2,915.84	8	2,552.84	8	2,189.74
1/4	1/4	1/4	5,021.05	1/4	4,694.06	1/4	4,352.22	1/4	3,997.12	1/4	3,634.22	1/4	3,271.25	1/4	2,908.28	1/4	2,545.28	1/4	2,182.17
1/2	1/2	1/2	5,014.45	1/2	4,687.08	1/2	4,344.96	1/2	3,989.59	1/2	3,626.66	1/2	3,263.69	1/2	2,900.71	1/2	2,537.71	1/2	2,174.61
3/4	3/4	3/4	5,007.81	3/4	4,680.08	3/4	4,337.68	3/4	3,982.03	3/4	3,619.09	3/4	3,256.12	3/4	2,893.15	3/4	2,530.15	3/4	2,167.04
9		9	5,001.18	9	4,673.08	9	4,330.41	9	3,974.48	9	3,611.53	9	3,248.56	9	2,885.59	9	2,522.58	9	2,159.48
1/4	1/4	1/4	4,994.54	1/4	4,666.08	1/4	4,323.13	1/4	3,966.93	1/4	3,603.97	1/4	3,241.00	1/4	2,878.03	1/4	2,515.02	1/4	2,151.91
1/2	1/2	1/2	4,987.90	1/2	4,659.07	1/2	4,315.85	1/2	3,959.38	1/2	3,596.41	1/2	3,233.44	1/2	2,870.47	1/2	2,507.46	1/2	2,144.35
3/4	3/4	3/4	4,981.18	3/4	4,652.05	3/4	4,308.55	3/4	3,951.82	3/4	3,588.85	3/4	3,225.88	3/4	2,862.90	3/4	2,499.89	3/4	2,136.78
10		10	4,974.46	10	4,645.03	10	4,301.25	10	3,944.26	10	3,581.29	10	3,218.31	10	2,855.34	10	2,492.33	10	2,129.22
1/4	1/4	1/4	4,967.74	1/4	4,638.00	1/4	4,293.95	1/4	3,936.69	1/4	3,573.72	1/4	3,210.75	1/4	2,847.78	1/4	2,484.76	1/4	2,121.66
1/2	1/2	1/2	4,961.02	1/2	4,630.98	1/2	4,286.65	1/2	3,929.13	1/2	3,566.16	1/2	3,203.19	1/2	2,840.22	1/2	2,477.20	1/2	2,114.09
3/4	3/4	3/4	4,954.28	3/4	4,623.93	3/4	4,279.33	3/4	3,921.57	3/4	3,558.60	3/4	3,195.63	3/4	2,832.66	3/4	2,469.63	3/4	2,106.53
11		11	4,947.53	11	4,616.89	11	4,272.01	11	3,914.01	11	3,551.04	11	3,188.07	11	2,825.10	11	2,462.07	11	2,098.96
1/4	1/4	1/4	4,940.79	1/4	4,609.84	1/4	4,264.68	1/4	3,906.45	1/4	3,543.48	1/4	3,180.50	1/4	2,817.53	1/4	2,454.50	1/4	2,091.40
1/2	1/2	1/2	4,934.05	1/2	4,602.79	1/2	4,257.36	1/2	3,898.89	1/2	3,535.91	1/2	3,172.94	1/2	2,809.97	1/2	2,446.94	1/2	2,083.83
3/4	3/4	3/4	4,927.28	3/4	4,595.72	3/4	4,250.01	3/4	3,891.32	3/4	3,528.35	3/4	3,165.38	3/4	2,802.41	3/4	2,439.37	3/4	2,076.27

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" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "DBL 321"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,068.70	0	1,705.60	0	1,342.49	0	979.81	0	616.79	0	253.70	0		0		0		0	
1/4	2,061.14	1/4	1,698.03	1/4	1,334.93	1/4	972.26	1/4	609.23	1/4	246.13	1/4		1/4		1/4		1/4	
1/2	2,053.57	1/2	1,690.47	1/2	1,327.36	1/2	964.71	1/2	601.66	1/2	238.57	1/2		1/2		1/2		1/2	
3/4	2,046.01	3/4	1,682.90	3/4	1,319.80	3/4	957.15	3/4	594.10	3/4	231.01	3/4		3/4		3/4		3/4	
1	2,038.44	1	1,675.34	1	1,312.23	1	949.60	1	586.53	1	223.44	1		1		1		1	
1/4	2,030.88	1/4	1,667.77	1/4	1,304.67	1/4	942.05	1/4	578.97	1/4	215.88	1/4		1/4		1/4		1/4	
1/2	2,023.31	1/2	1,660.21	1/2	1,297.10	1/2	934.49	1/2	571.40	1/2	208.31	1/2		1/2		1/2		1/2	
3/4	2,015.75	3/4	1,652.64	3/4	1,289.54	3/4	926.93	3/4	563.84	3/4	200.75	3/4		3/4		3/4		3/4	
2	2,008.18	2	1,645.08	2	1,281.97	2	919.37	2	556.27	2	193.18	2		2		2		2	
1/4	2,000.62	1/4	1,637.51	1/4	1,274.41	1/4	911.80	1/4	548.71	1/4	185.62	1/4		1/4		1/4		1/4	
1/2	1,993.06	1/2	1,629.95	1/2	1,266.84	1/2	904.24	1/2	541.15	1/2	178.05	1/2		1/2		1/2		1/2	
3/4	1,985.49	3/4	1,622.39	3/4	1,259.28	3/4	896.67	3/4	533.58	3/4	170.49	3/4		3/4		3/4		3/4	
3	1,977.93	3	1,614.82	3	1,251.72	3	889.11	3	526.02	3	162.93	3		3		3		3	
1/4	1,970.36	1/4	1,607.26	1/4	1,244.16	1/4	881.54	1/4	518.45	1/4	155.36	1/4		1/4		1/4		1/4	
1/2	1,962.80	1/2	1,599.69	1/2	1,236.59	1/2	873.98	1/2	510.89	1/2	147.80	1/2		1/2		1/2		1/2	
3/4	1,955.23	3/4	1,592.13	3/4	1,229.04	3/4	866.41	3/4	503.32	3/4	140.23	3/4		3/4		3/4		3/4	
4	1,947.67	4	1,584.56	4	1,221.49	4	858.85	4	495.76	4	132.67	4		4		4		4	
1/4	1,940.10	1/4	1,577.00	1/4	1,213.94	1/4	851.29	1/4	488.19	1/4	125.10	1/4		1/4		1/4		1/4	
1/2	1,932.54	1/2	1,569.43	1/2	1,206.38	1/2	843.72	1/2	480.63	1/2	117.54	1/2		1/2		1/2		1/2	
3/4	1,924.97	3/4	1,561.87	3/4	1,198.83	3/4	836.16	3/4	473.07	3/4	110.05	3/4		3/4		3/4		3/4	
5	1,917.41	5	1,554.30	5	1,191.28	5	828.59	5	465.50	5	102.57	5		5		5		5	
1/4	1,909.84	1/4	1,546.74	1/4	1,183.73	1/4	821.03	1/4	457.94	1/4	95.08	1/4		1/4		1/4		1/4	
1/2	1,902.28	1/2	1,539.17	1/2	1,176.17	1/2	813.46	1/2	450.37	1/2	87.60	1/2		1/2		1/2		1/2	
3/4	1,894.71	3/4	1,531.61	3/4	1,168.62	3/4	805.90	3/4	442.81	3/4	80.82	3/4		3/4		3/4		3/4	
6	1,887.15	6	1,524.04	6	1,161.07	6	798.34	6	435.24	6	74.04	6		6		6		6	
1/4	1,879.59	1/4	1,516.48	1/4	1,153.52	1/4	790.77	1/4	427.68	1/4	67.27	1/4		1/4		1/4		1/4	
1/2	1,872.02	1/2	1,508.91	1/2	1,145.96	1/2	783.21	1/2	420.12	1/2	60.49	1/2		1/2		1/2		1/2	
3/4	1,864.46	3/4	1,501.35	3/4	1,138.41	3/4	775.64	3/4	412.55	3/4	54.98	3/4		3/4		3/4		3/4	
7	1,856.89	7	1,493.79	7	1,130.86	7	768.08	7	404.99	7	49.46	7		7		7		7	
1/4	1,849.33	1/4	1,486.22	1/4	1,123.31	1/4	760.51	1/4	397.42	1/4	43.95	1/4		1/4		1/4		1/4	
1/2	1,841.76	1/2	1,478.66	1/2	1,115.75	1/2	752.95	1/2	389.86	1/2	38.43	1/2		1/2		1/2		1/2	
3/4	1,834.20	3/4	1,471.09	3/4	1,108.20	3/4	745.38	3/4	382.29	3/4	34.18	3/4		3/4		3/4		3/4	
8	1,826.63	8	1,463.53	8	1,100.65	8	737.82	8	374.73	8	29.93	8		8		8		8	
1/4	1,819.07	1/4	1,455.96	1/4	1,093.10	1/4	730.26	1/4	367.16	1/4	25.67	1/4		1/4		1/4		1/4	
1/2	1,811.50	1/2	1,448.40	1/2	1,085.54	1/2	722.69	1/2	359.60	1/2	21.42	1/2		1/2		1/2		1/2	
3/4	1,803.94	3/4	1,440.83	3/4	1,077.99	3/4	715.13	3/4	352.04	3/4		3/4		3/4		3/4		3/4	
9	1,796.37	9	1,433.27	9	1,070.44	9	707.56	9	344.47	9		9		9		9		9	
1/4	1,788.81	1/4	1,425.70	1/4	1,062.89	1/4	700.00	1/4	336.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,781.24	1/2	1,418.14	1/2	1,055.34	1/2	692.43	1/2	329.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,773.68	3/4	1,410.57	3/4	1,047.78	3/4	684.87	3/4	321.78	3/4		3/4		3/4		3/4		3/4	
10	1,766.11	10	1,403.01	10	1,040.23	10	677.30	10	314.21	10		10		10		10		10	
1/4	1,758.55	1/4	1,395.44	1/4	1,032.68	1/4	669.74	1/4	306.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,750.99	1/2	1,387.88	1/2	1,025.13	1/2	662.18	1/2	299.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.42	3/4	1,380.31	3/4	1,017.57	3/4	654.61	3/4	291.52	3/4		3/4		3/4		3/4		3/4	
11	1,735.86	11	1,372.75	11	1,010.02	11	647.05	11	283.96	11		11		11		11		11	
1/4	1,728.29	1/4	1,365.19	1/4	1,002.47	1/4	639.48	1/4	276.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,720.73	1/2	1,357.62	1/2	994.92	1/2	631.92	1/2	268.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.16	3/4	1,350.06	3/4	987.36	3/4	624.35	3/4	261.26	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2022 JS
CALCULATED: 12/05/2022 CL
PRINTED: 12/06/2022 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2022

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



BARGE "DBL 321"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,924.44	0	4,592.92	0	4,247.27	0	3,888.65	0	3,525.75	0	3,162.85	0	2,799.95	0	2,436.97
1/4		1/4		1/4	4,917.68	1/4	4,585.85	1/4	4,239.92	1/4	3,881.09	1/4	3,518.19	1/4	3,155.29	1/4	2,792.39	1/4	2,429.41
1/2		1/2		1/2	4,910.91	1/2	4,578.78	1/2	4,232.58	1/2	3,873.53	1/2	3,510.63	1/2	3,147.73	1/2	2,784.83	1/2	2,421.85
3/4		3/4	5,217.39	3/4	4,904.15	3/4	4,571.71	3/4	4,225.23	3/4	3,865.97	3/4	3,503.07	3/4	3,140.17	3/4	2,777.27	3/4	2,414.28
1		1	5,212.26	1	4,897.36	1	4,564.62	1	4,217.86	1	3,858.41	1	3,495.51	1	3,132.61	1	2,769.71	1	2,406.72
1/4		1/4	5,207.14	1/4	4,890.57	1/4	4,557.53	1/4	4,210.50	1/4	3,850.85	1/4	3,487.95	1/4	3,125.05	1/4	2,762.15	1/4	2,399.16
1/2		1/2	5,202.02	1/2	4,883.79	1/2	4,550.44	1/2	4,203.13	1/2	3,843.29	1/2	3,480.39	1/2	3,117.49	1/2	2,754.59	1/2	2,391.59
3/4		3/4	5,196.90	3/4	4,877.00	3/4	4,543.34	3/4	4,195.76	3/4	3,835.72	3/4	3,472.83	3/4	3,109.93	3/4	2,747.03	3/4	2,384.03
2		2	5,190.56	2	4,870.19	2	4,536.23	2	4,188.37	2	3,828.16	2	3,465.27	2	3,102.37	2	2,739.47	2	2,376.47
1/4		1/4	5,184.22	1/4	4,863.38	1/4	4,529.12	1/4	4,180.98	1/4	3,820.60	1/4	3,457.70	1/4	3,094.81	1/4	2,731.91	1/4	2,368.91
1/2		1/2	5,177.88	1/2	4,856.57	1/2	4,522.00	1/2	4,173.59	1/2	3,813.04	1/2	3,450.14	1/2	3,087.25	1/2	2,724.35	1/2	2,361.34
3/4		3/4	5,171.54	3/4	4,849.76	3/4	4,514.89	3/4	4,166.20	3/4	3,805.48	3/4	3,442.58	3/4	3,079.68	3/4	2,716.79	3/4	2,353.78
3		3	5,164.34	3	4,842.93	3	4,507.75	3	4,158.78	3	3,797.92	3	3,435.02	3	3,072.12	3	2,709.23	3	2,346.22
1/4		1/4	5,157.13	1/4	4,836.10	1/4	4,500.61	1/4	4,151.37	1/4	3,790.36	1/4	3,427.46	1/4	3,064.56	1/4	2,701.66	1/4	2,338.65
1/2		1/2	5,149.93	1/2	4,829.26	1/2	4,493.47	1/2	4,143.96	1/2	3,782.80	1/2	3,419.90	1/2	3,057.00	1/2	2,694.10	1/2	2,331.09
3/4		3/4	5,142.73	3/4	4,822.43	3/4	4,486.33	3/4	4,136.54	3/4	3,775.24	3/4	3,412.34	3/4	3,049.44	3/4	2,686.54	3/4	2,323.53
4		4	5,136.22	4	4,815.57	4	4,479.17	4	4,129.11	4	3,767.68	4	3,404.78	4	3,041.88	4	2,678.98	4	2,315.96
1/4		1/4	5,129.70	1/4	4,808.72	1/4	4,472.01	1/4	4,121.67	1/4	3,760.12	1/4	3,397.22	1/4	3,034.32	1/4	2,671.42	1/4	2,308.40
1/2		1/2	5,123.19	1/2	4,801.86	1/2	4,464.85	1/2	4,114.23	1/2	3,752.56	1/2	3,389.66	1/2	3,026.76	1/2	2,663.86	1/2	2,300.84
3/4		3/4	5,116.68	3/4	4,795.01	3/4	4,457.69	3/4	4,106.80	3/4	3,745.00	3/4	3,382.10	3/4	3,019.20	3/4	2,656.30	3/4	2,293.27
5		5	5,110.15	5	4,788.13	5	4,450.51	5	4,099.34	5	3,737.44	5	3,374.54	5	3,011.64	5	2,648.74	5	2,285.71
1/4		1/4	5,103.62	1/4	4,781.25	1/4	4,443.32	1/4	4,091.88	1/4	3,729.88	1/4	3,366.98	1/4	3,004.08	1/4	2,641.18	1/4	2,278.15
1/2		1/2	5,097.08	1/2	4,774.37	1/2	4,436.14	1/2	4,084.42	1/2	3,722.32	1/2	3,359.42	1/2	2,996.52	1/2	2,633.61	1/2	2,270.59
3/4		3/4	5,090.55	3/4	4,767.49	3/4	4,428.96	3/4	4,076.96	3/4	3,714.76	3/4	3,351.86	3/4	2,988.96	3/4	2,626.05	3/4	2,263.02
6		6	5,083.99	6	4,760.59	6	4,421.75	6	4,069.47	6	3,707.20	6	3,344.30	6	2,981.40	6	2,618.49	6	2,255.46
1/4		1/4	5,077.44	1/4	4,753.69	1/4	4,414.54	1/4	4,061.99	1/4	3,699.64	1/4	3,336.74	1/4	2,973.84	1/4	2,610.92	1/4	2,247.90
1/2		1/2	5,070.88	1/2	4,746.79	1/2	4,407.33	1/2	4,054.51	1/2	3,692.08	1/2	3,329.18	1/2	2,966.28	1/2	2,603.36	1/2	2,240.33
3/4		3/4	5,064.32	3/4	4,739.88	3/4	4,400.13	3/4	4,047.02	3/4	3,684.52	3/4	3,321.62	3/4	2,958.72	3/4	2,595.80	3/4	2,232.77
7		7	5,057.74	7	4,732.96	7	4,392.90	7	4,039.52	7	3,676.96	7	3,314.06	7	2,951.16	7	2,588.24	7	2,225.21
1/4		1/4	5,051.16	1/4	4,726.03	1/4	4,385.67	1/4	4,032.01	1/4	3,669.40	1/4	3,306.50	1/4	2,943.60	1/4	2,580.67	1/4	2,217.64
1/2		1/2	5,044.58	1/2	4,719.10	1/2	4,378.44	1/2	4,024.51	1/2	3,661.84	1/2	3,298.94	1/2	2,936.04	1/2	2,573.11	1/2	2,210.08
3/4		3/4	5,038.00	3/4	4,712.17	3/4	4,371.21	3/4	4,017.00	3/4	3,654.28	3/4	3,291.38	3/4	2,928.48	3/4	2,565.55	3/4	2,202.52
8		8	5,031.40	8	4,705.19	8	4,363.96	8	4,009.47	8	3,646.71	8	3,283.82	8	2,920.92	8	2,557.98	8	2,194.95
1/4		1/4	5,024.80	1/4	4,698.22	1/4	4,356.70	1/4	4,001.94	1/4	3,639.15	1/4	3,276.26	1/4	2,913.36	1/4	2,550.42	1/4	2,187.39
1/2		1/2	5,018.20	1/2	4,691.24	1/2	4,349.45	1/2	3,994.42	1/2	3,631.59	1/2	3,268.69	1/2	2,905.80	1/2	2,542.86	1/2	2,179.83
3/4		3/4	5,011.59	3/4	4,684.26	3/4	4,342.20	3/4	3,986.89	3/4	3,624.03	3/4	3,261.13	3/4	2,898.24	3/4	2,535.29	3/4	2,172.27
9		9	5,004.96	9	4,677.26	9	4,334.92	9	3,979.34	9	3,616.47	9	3,253.57	9	2,890.67	9	2,527.73	9	2,164.70
1/4		1/4	4,998.32	1/4	4,670.26	1/4	4,327.65	1/4	3,971.79	1/4	3,608.91	1/4	3,246.01	1/4	2,883.11	1/4	2,520.17	1/4	2,157.14
1/2		1/2	4,991.69	1/2	4,663.26	1/2	4,320.37	1/2	3,964.24	1/2	3,601.35	1/2	3,238.45	1/2	2,875.55	1/2	2,512.60	1/2	2,149.58
3/4		3/4	4,985.06	3/4	4,656.26	3/4	4,313.09	3/4	3,956.69	3/4	3,593.79	3/4	3,230.89	3/4	2,867.99	3/4	2,505.04	3/4	2,142.01
10		10	4,978.34	10	4,649.24	10	4,305.79	10	3,949.13	10	3,586.23	10	3,223.33	10	2,860.43	10	2,497.48	10	2,134.45
1/4		1/4	4,971.62	1/4	4,642.22	1/4	4,298.50	1/4	3,941.57	1/4	3,578.67	1/4	3,215.77	1/4	2,852.87	1/4	2,489.92	1/4	2,126.89
1/2		1/2	4,964.89	1/2	4,635.19	1/2	4,291.20	1/2	3,934.01	1/2	3,571.11	1/2	3,208.21	1/2	2,845.31	1/2	2,482.35	1/2	2,119.32
3/4		3/4	4,958.17	3/4	4,628.17	3/4	4,283.90	3/4	3,926.45	3/4	3,563.55	3/4	3,200.65	3/4	2,837.75	3/4	2,474.79	3/4	2,111.76
11		11	4,951.43	11	4,621.13	11	4,276.58	11	3,918.89	11	3,555.99	11	3,193.09	11	2,830.19	11	2,467.23	11	2,104.20
1/4		1/4	4,944.69	1/4	4,614.08	1/4	4,269.25	1/4	3,911.33	1/4	3,548.43	1/4	3,185.53	1/4	2,822.63	1/4	2,459.66	1/4	2,096.63
1/2		1/2	4,937.95	1/2	4,607.03	1/2	4,261.93	1/2	3,903.77	1/2	3,540.87	1/2	3,177.97	1/2	2,815.07	1/2	2,452.10	1/2	2,089.07
3/4		3/4	4,931.20	3/4	4,599.99	3/4	4,254.61	3/4	3,896.21	3/4	3,533.31	3/4	3,170.41	3/4	2,807.51	3/4	2,444.54	3/4	2,081.51

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-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 "DBL 321"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,073.94	0	1,710.92	0	1,347.89	0	986.75	0	624.22	0	261.21	0		0		0		0	
1/4	2,066.38	1/4	1,703.35	1/4	1,340.32	1/4	979.24	1/4	616.66	1/4	253.65	1/4		1/4		1/4		1/4	
1/2	2,058.82	1/2	1,695.79	1/2	1,332.76	1/2	971.73	1/2	609.10	1/2	246.08	1/2		1/2		1/2		1/2	
3/4	2,051.26	3/4	1,688.23	3/4	1,325.20	3/4	964.22	3/4	601.53	3/4	238.52	3/4		3/4		3/4		3/4	
1	2,043.69	1	1,680.66	1	1,317.63	1	956.70	1	593.97	1	230.96	1		1		1		1	
1/4	2,036.13	1/4	1,673.10	1/4	1,310.07	1/4	949.19	1/4	586.41	1/4	223.39	1/4		1/4		1/4		1/4	
1/2	2,028.57	1/2	1,665.54	1/2	1,302.51	1/2	941.68	1/2	578.85	1/2	215.83	1/2		1/2		1/2		1/2	
3/4	2,021.00	3/4	1,657.97	3/4	1,294.95	3/4	934.16	3/4	571.28	3/4	208.27	3/4		3/4		3/4		3/4	
2	2,013.44	2	1,650.41	2	1,287.39	2	926.64	2	563.72	2	200.71	2		2		2		2	
1/4	2,005.88	1/4	1,642.85	1/4	1,279.83	1/4	919.11	1/4	556.16	1/4	193.14	1/4		1/4		1/4		1/4	
1/2	1,998.31	1/2	1,635.28	1/2	1,272.27	1/2	911.58	1/2	548.59	1/2	185.58	1/2		1/2		1/2		1/2	
3/4	1,990.75	3/4	1,627.72	3/4	1,264.71	3/4	904.05	3/4	541.03	3/4	178.02	3/4		3/4		3/4		3/4	
3	1,983.19	3	1,620.16	3	1,257.19	3	896.48	3	533.47	3	170.45	3		3		3		3	
1/4	1,975.62	1/4	1,612.60	1/4	1,249.67	1/4	888.92	1/4	525.91	1/4	162.89	1/4		1/4		1/4		1/4	
1/2	1,968.06	1/2	1,605.03	1/2	1,242.15	1/2	881.36	1/2	518.34	1/2	155.33	1/2		1/2		1/2		1/2	
3/4	1,960.50	3/4	1,597.47	3/4	1,234.63	3/4	873.80	3/4	510.78	3/4	147.77	3/4		3/4		3/4		3/4	
4	1,952.94	4	1,589.91	4	1,227.11	4	866.23	4	503.22	4	140.20	4		4		4		4	
1/4	1,945.37	1/4	1,582.34	1/4	1,219.60	1/4	858.67	1/4	495.66	1/4	132.64	1/4		1/4		1/4		1/4	
1/2	1,937.81	1/2	1,574.78	1/2	1,212.09	1/2	851.11	1/2	488.09	1/2	125.08	1/2		1/2		1/2		1/2	
3/4	1,930.25	3/4	1,567.22	3/4	1,204.58	3/4	843.54	3/4	480.53	3/4	117.52	3/4		3/4		3/4		3/4	
5	1,922.68	5	1,559.65	5	1,197.07	5	835.98	5	472.97	5	110.03	5		5		5		5	
1/4	1,915.12	1/4	1,552.09	1/4	1,189.56	1/4	828.42	1/4	465.40	1/4	102.55	1/4		1/4		1/4		1/4	
1/2	1,907.56	1/2	1,544.53	1/2	1,182.05	1/2	820.86	1/2	457.84	1/2	95.06	1/2		1/2		1/2		1/2	
3/4	1,899.99	3/4	1,536.96	3/4	1,174.53	3/4	813.29	3/4	450.28	3/4	87.58	3/4		3/4		3/4		3/4	
6	1,892.43	6	1,529.40	6	1,167.02	6	805.73	6	442.72	6	80.80	6		6		6		6	
1/4	1,884.87	1/4	1,521.84	1/4	1,159.51	1/4	798.17	1/4	435.15	1/4	74.03	1/4		1/4		1/4		1/4	
1/2	1,877.30	1/2	1,514.28	1/2	1,152.00	1/2	790.60	1/2	427.59	1/2	67.25	1/2		1/2		1/2		1/2	
3/4	1,869.74	3/4	1,506.71	3/4	1,144.49	3/4	783.04	3/4	420.03	3/4	60.48	3/4		3/4		3/4		3/4	
7	1,862.18	7	1,499.15	7	1,136.98	7	775.48	7	412.46	7	54.97	7		7		7		7	
1/4	1,854.61	1/4	1,491.59	1/4	1,129.47	1/4	767.92	1/4	404.90	1/4	49.45	1/4		1/4		1/4		1/4	
1/2	1,847.05	1/2	1,484.02	1/2	1,121.95	1/2	760.35	1/2	397.34	1/2	43.94	1/2		1/2		1/2		1/2	
3/4	1,839.49	3/4	1,476.46	3/4	1,114.44	3/4	752.79	3/4	389.78	3/4	38.42	3/4		3/4		3/4		3/4	
8	1,831.93	8	1,468.90	8	1,106.93	8	745.23	8	382.21	8	34.17	8		8		8		8	
1/4	1,824.36	1/4	1,461.33	1/4	1,099.42	1/4	737.66	1/4	374.65	1/4	29.92	1/4		1/4		1/4		1/4	
1/2	1,816.80	1/2	1,453.77	1/2	1,091.91	1/2	730.10	1/2	367.09	1/2	25.67	1/2		1/2		1/2		1/2	
3/4	1,809.24	3/4	1,446.21	3/4	1,084.40	3/4	722.54	3/4	359.52	3/4	21.41	3/4		3/4		3/4		3/4	
9	1,801.67	9	1,438.64	9	1,076.89	9	714.98	9	351.96	9		9		9		9		9	
1/4	1,794.11	1/4	1,431.08	1/4	1,069.38	1/4	707.41	1/4	344.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,786.55	1/2	1,423.52	1/2	1,061.86	1/2	699.85	1/2	336.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,778.98	3/4	1,415.96	3/4	1,054.35	3/4	692.29	3/4	329.27	3/4		3/4		3/4		3/4		3/4	
10	1,771.42	10	1,408.39	10	1,046.84	10	684.73	10	321.71	10		10		10		10		10	
1/4	1,763.86	1/4	1,400.83	1/4	1,039.33	1/4	677.16	1/4	314.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,756.29	1/2	1,393.27	1/2	1,031.82	1/2	669.60	1/2	306.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,748.73	3/4	1,385.70	3/4	1,024.31	3/4	662.04	3/4	299.02	3/4		3/4		3/4		3/4		3/4	
11	1,741.17	11	1,378.14	11	1,016.80	11	654.47	11	291.46	11		11		11		11		11	
1/4	1,733.61	1/4	1,370.58	1/4	1,009.28	1/4	646.91	1/4	283.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,726.04	1/2	1,363.01	1/2	1,001.77	1/2	639.35	1/2	276.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,718.48	3/4	1,355.45	3/4	994.26	3/4	631.79	3/4	268.77	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2022 JS
CALCULATED: 12/05/2022 CL
PRINTED: 12/06/2022 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2022

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



BARGE "DBL 321"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	5,203.01	0	4,890.83	0	4,559.50	0	4,214.14	0	3,855.97	0	3,494.19	0	3,132.41	0	2,770.63	0	2,408.76
1/4		1/4	5,197.91	1/4	4,884.07	1/4	4,552.44	1/4	4,206.79	1/4	3,848.43	1/4	3,486.65	1/4	3,124.87	1/4	2,763.09	1/4	2,401.22
1/2		1/2	5,192.80	1/2	4,877.30	1/2	4,545.37	1/2	4,199.45	1/2	3,840.90	1/2	3,479.12	1/2	3,117.34	1/2	2,755.55	1/2	2,393.68
3/4		3/4	5,187.69	3/4	4,870.54	3/4	4,538.30	3/4	4,192.10	3/4	3,833.36	3/4	3,471.58	3/4	3,109.80	3/4	2,748.02	3/4	2,386.14
1		1	5,182.58	1	4,863.78	1	4,531.23	1	4,184.76	1	3,825.82	1	3,464.04	1	3,102.26	1	2,740.48	1	2,378.60
1/4		1/4	5,176.26	1/4	4,856.99	1/4	4,524.14	1/4	4,177.39	1/4	3,818.29	1/4	3,456.50	1/4	3,094.72	1/4	2,732.94	1/4	2,371.06
1/2		1/2	5,169.95	1/2	4,850.20	1/2	4,517.05	1/2	4,170.02	1/2	3,810.75	1/2	3,448.97	1/2	3,087.19	1/2	2,725.41	1/2	2,363.52
3/4		3/4	5,163.63	3/4	4,843.42	3/4	4,509.95	3/4	4,162.65	3/4	3,803.21	3/4	3,441.43	3/4	3,079.65	3/4	2,717.87	3/4	2,355.98
2		2	5,157.31	2	4,836.63	2	4,502.86	2	4,155.29	2	3,795.67	2	3,433.89	2	3,072.11	2	2,710.33	2	2,348.44
1/4		1/4	5,150.13	1/4	4,829.82	1/4	4,495.75	1/4	4,147.90	1/4	3,788.14	1/4	3,426.36	1/4	3,064.58	1/4	2,702.79	1/4	2,340.90
1/2		1/2	5,142.94	1/2	4,823.01	1/2	4,488.63	1/2	4,140.51	1/2	3,780.60	1/2	3,418.82	1/2	3,057.04	1/2	2,695.26	1/2	2,333.37
3/4		3/4	5,135.76	3/4	4,816.20	3/4	4,481.52	3/4	4,133.11	3/4	3,773.06	3/4	3,411.28	3/4	3,049.50	3/4	2,687.72	3/4	2,325.83
3		3	5,128.58	3	4,809.39	3	4,474.40	3	4,125.72	3	3,765.53	3	3,403.75	3	3,041.96	3	2,680.18	3	2,318.29
1/4		1/4	5,122.09	1/4	4,802.56	1/4	4,467.27	1/4	4,118.31	1/4	3,757.99	1/4	3,396.21	1/4	3,034.43	1/4	2,672.65	1/4	2,310.75
1/2		1/2	5,115.60	1/2	4,795.72	1/2	4,460.13	1/2	4,110.90	1/2	3,750.45	1/2	3,388.67	1/2	3,026.89	1/2	2,665.11	1/2	2,303.21
3/4		3/4	5,109.12	3/4	4,788.89	3/4	4,452.99	3/4	4,103.48	3/4	3,742.91	3/4	3,381.13	3/4	3,019.35	3/4	2,657.57	3/4	2,295.67
4		4	5,102.63	4	4,782.06	4	4,445.85	4	4,096.07	4	3,735.38	4	3,373.60	4	3,011.82	4	2,650.04	4	2,288.13
1/4		1/4	5,096.12	1/4	4,775.20	1/4	4,438.69	1/4	4,088.63	1/4	3,727.84	1/4	3,366.06	1/4	3,004.28	1/4	2,642.50	1/4	2,280.59
1/2		1/2	5,089.61	1/2	4,768.35	1/2	4,431.53	1/2	4,081.20	1/2	3,720.30	1/2	3,358.52	1/2	2,996.74	1/2	2,634.96	1/2	2,273.05
3/4		3/4	5,083.10	3/4	4,761.49	3/4	4,424.37	3/4	4,073.76	3/4	3,712.77	3/4	3,350.99	3/4	2,989.20	3/4	2,627.42	3/4	2,265.51
5		5	5,076.59	5	4,754.64	5	4,417.21	5	4,066.32	5	3,705.23	5	3,343.45	5	2,981.67	5	2,619.88	5	2,257.97
1/4		1/4	5,070.05	1/4	4,747.76	1/4	4,410.03	1/4	4,058.86	1/4	3,697.69	1/4	3,335.91	1/4	2,974.13	1/4	2,612.34	1/4	2,250.43
1/2		1/2	5,063.52	1/2	4,740.88	1/2	4,402.84	1/2	4,051.40	1/2	3,690.16	1/2	3,328.37	1/2	2,966.59	1/2	2,604.80	1/2	2,242.89
3/4		3/4	5,056.99	3/4	4,734.00	3/4	4,395.66	3/4	4,043.94	3/4	3,682.62	3/4	3,320.84	3/4	2,959.06	3/4	2,597.26	3/4	2,235.35
6		6	5,050.45	6	4,727.12	6	4,388.47	6	4,036.48	6	3,675.08	6	3,313.30	6	2,951.52	6	2,589.72	6	2,227.81
1/4		1/4	5,043.90	1/4	4,720.22	1/4	4,381.27	1/4	4,029.00	1/4	3,667.54	1/4	3,305.76	1/4	2,943.98	1/4	2,582.18	1/4	2,220.27
1/2		1/2	5,037.34	1/2	4,713.31	1/2	4,374.06	1/2	4,021.52	1/2	3,660.01	1/2	3,298.23	1/2	2,936.45	1/2	2,574.64	1/2	2,212.73
3/4		3/4	5,030.78	3/4	4,706.41	3/4	4,366.85	3/4	4,014.04	3/4	3,652.47	3/4	3,290.69	3/4	2,928.91	3/4	2,567.10	3/4	2,205.19
7		7	5,024.23	7	4,699.50	7	4,359.65	7	4,006.55	7	3,644.93	7	3,283.15	7	2,921.37	7	2,559.56	7	2,197.65
1/4		1/4	5,017.65	1/4	4,692.55	1/4	4,352.42	1/4	3,999.05	1/4	3,637.40	1/4	3,275.61	1/4	2,913.83	1/4	2,552.02	1/4	2,190.11
1/2		1/2	5,011.07	1/2	4,685.59	1/2	4,345.19	1/2	3,991.54	1/2	3,629.86	1/2	3,268.08	1/2	2,906.30	1/2	2,544.48	1/2	2,182.57
3/4		3/4	5,004.49	3/4	4,678.64	3/4	4,337.96	3/4	3,984.04	3/4	3,622.32	3/4	3,260.54	3/4	2,898.76	3/4	2,536.94	3/4	2,175.03
8		8	4,997.91	8	4,671.68	8	4,330.73	8	3,976.53	8	3,614.78	8	3,253.00	8	2,891.22	8	2,529.40	8	2,167.49
1/4		1/4	4,991.30	1/4	4,664.71	1/4	4,323.48	1/4	3,969.00	1/4	3,607.25	1/4	3,245.47	1/4	2,883.69	1/4	2,521.86	1/4	2,159.95
1/2		1/2	4,984.68	1/2	4,657.73	1/2	4,316.22	1/2	3,961.47	1/2	3,599.71	1/2	3,237.93	1/2	2,876.15	1/2	2,514.32	1/2	2,152.41
3/4		3/4	4,978.07	3/4	4,650.75	3/4	4,308.97	3/4	3,953.95	3/4	3,592.17	3/4	3,230.39	3/4	2,868.61	3/4	2,506.78	3/4	2,144.87
9		9	4,971.46	9	4,643.78	9	4,301.72	9	3,946.42	9	3,584.64	9	3,222.85	9	2,861.07	9	2,499.24	9	2,137.33
1/4		1/4	4,964.76	1/4	4,636.78	1/4	4,294.44	1/4	3,938.88	1/4	3,577.10	1/4	3,215.32	1/4	2,853.54	1/4	2,491.70	1/4	2,129.79
1/2		1/2	4,958.07	1/2	4,629.78	1/2	4,287.17	1/2	3,931.34	1/2	3,569.56	1/2	3,207.78	1/2	2,846.00	1/2	2,484.16	1/2	2,122.25
3/4		3/4	4,951.37	3/4	4,622.78	3/4	4,279.89	3/4	3,923.81	3/4	3,562.02	3/4	3,200.24	3/4	2,838.46	3/4	2,476.62	3/4	2,114.71
10		10	4,944.67	10	4,615.78	10	4,272.62	10	3,916.27	10	3,554.49	10	3,192.71	10	2,830.93	10	2,469.08	10	2,107.17
1/4		1/4	4,937.95	1/4	4,608.76	1/4	4,265.32	1/4	3,908.73	1/4	3,546.95	1/4	3,185.17	1/4	2,823.39	1/4	2,461.54	1/4	2,099.63
1/2		1/2	4,931.23	1/2	4,601.73	1/2	4,258.02	1/2	3,901.19	1/2	3,539.41	1/2	3,177.63	1/2	2,815.85	1/2	2,454.00	1/2	2,092.09
3/4		3/4	4,924.51	3/4	4,594.71	3/4	4,250.72	3/4	3,893.66	3/4	3,531.88	3/4	3,170.10	3/4	2,808.31	3/4	2,446.46	3/4	2,084.55
11		11	4,917.79	11	4,587.69	11	4,243.42	11	3,886.12	11	3,524.34	11	3,162.56	11	2,800.78	11	2,438.92	11	2,077.01
1/4		1/4	4,911.05	1/4	4,580.64	1/4	4,236.10	1/4	3,878.58	1/4	3,516.80	1/4	3,155.02	1/4	2,793.24	1/4	2,431.38	1/4	2,069.47
1/2		1/2	4,904.31	1/2	4,573.60	1/2	4,228.78	1/2	3,871.05	1/2	3,509.26	1/2	3,147.48	1/2	2,785.70	1/2	2,423.84	1/2	2,061.93
3/4		3/4	4,897.57	3/4	4,566.55	3/4	4,221.46	3/4	3,863.51	3/4	3,501.73	3/4	3,139.95	3/4	2,778.17	3/4	2,416.30	3/4	2,054.39

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" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "DBL 321"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-08"

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	2,046.85	0	1,684.93	0	1,323.02	0	961.55	0	599.69	0	237.79	0		0		0		0	
1/4	2,039.31	1/4	1,677.39	1/4	1,315.48	1/4	954.02	1/4	592.15	1/4	230.25	1/4		1/4		1/4		1/4	
1/2	2,031.77	1/2	1,669.85	1/2	1,307.94	1/2	946.49	1/2	584.61	1/2	222.71	1/2		1/2		1/2		1/2	
3/4	2,024.23	3/4	1,662.31	3/4	1,300.40	3/4	938.96	3/4	577.07	3/4	215.17	3/4		3/4		3/4		3/4	
1	2,016.69	1	1,654.77	1	1,292.86	1	931.43	1	569.53	1	207.63	1		1		1		1	
1/4	2,009.15	1/4	1,647.23	1/4	1,285.32	1/4	923.89	1/4	561.99	1/4	200.09	1/4		1/4		1/4		1/4	
1/2	2,001.61	1/2	1,639.69	1/2	1,277.78	1/2	916.35	1/2	554.45	1/2	192.55	1/2		1/2		1/2		1/2	
3/4	1,994.07	3/4	1,632.15	3/4	1,270.24	3/4	908.81	3/4	546.91	3/4	185.01	3/4		3/4		3/4		3/4	
2	1,986.53	2	1,624.61	2	1,262.70	2	901.27	2	539.37	2	177.47	2		2		2		2	
1/4	1,978.99	1/4	1,617.07	1/4	1,255.16	1/4	893.73	1/4	531.83	1/4	169.93	1/4		1/4		1/4		1/4	
1/2	1,971.45	1/2	1,609.53	1/2	1,247.62	1/2	886.19	1/2	524.29	1/2	162.39	1/2		1/2		1/2		1/2	
3/4	1,963.91	3/4	1,601.99	3/4	1,240.08	3/4	878.65	3/4	516.75	3/4	154.85	3/4		3/4		3/4		3/4	
3	1,956.37	3	1,594.45	3	1,232.54	3	871.11	3	509.21	3	147.31	3		3		3		3	
1/4	1,948.83	1/4	1,586.91	1/4	1,225.02	1/4	863.58	1/4	501.67	1/4	139.77	1/4		1/4		1/4		1/4	
1/2	1,941.29	1/2	1,579.38	1/2	1,217.49	1/2	856.04	1/2	494.13	1/2	132.23	1/2		1/2		1/2		1/2	
3/4	1,933.75	3/4	1,571.84	3/4	1,209.96	3/4	848.50	3/4	486.60	3/4	124.69	3/4		3/4		3/4		3/4	
4	1,926.21	4	1,564.30	4	1,202.43	4	840.96	4	479.06	4	117.15	4		4		4		4	
1/4	1,918.67	1/4	1,556.76	1/4	1,194.91	1/4	833.42	1/4	471.52	1/4	109.69	1/4		1/4		1/4		1/4	
1/2	1,911.13	1/2	1,549.22	1/2	1,187.38	1/2	825.88	1/2	463.98	1/2	102.23	1/2		1/2		1/2		1/2	
3/4	1,903.59	3/4	1,541.68	3/4	1,179.85	3/4	818.34	3/4	456.44	3/4	94.77	3/4		3/4		3/4		3/4	
5	1,896.05	5	1,534.14	5	1,172.32	5	810.80	5	448.90	5	87.31	5		5		5		5	
1/4	1,888.51	1/4	1,526.60	1/4	1,164.80	1/4	803.26	1/4	441.36	1/4	80.56	1/4		1/4		1/4		1/4	
1/2	1,880.97	1/2	1,519.06	1/2	1,157.27	1/2	795.72	1/2	433.82	1/2	73.80	1/2		1/2		1/2		1/2	
3/4	1,873.43	3/4	1,511.52	3/4	1,149.74	3/4	788.18	3/4	426.28	3/4	67.05	3/4		3/4		3/4		3/4	
6	1,865.89	6	1,503.98	6	1,142.21	6	780.64	6	418.74	6	60.29	6		6		6		6	
1/4	1,858.35	1/4	1,496.44	1/4	1,134.69	1/4	773.10	1/4	411.20	1/4	54.80	1/4		1/4		1/4		1/4	
1/2	1,850.81	1/2	1,488.90	1/2	1,127.16	1/2	765.56	1/2	403.66	1/2	49.30	1/2		1/2		1/2		1/2	
3/4	1,843.27	3/4	1,481.36	3/4	1,119.63	3/4	758.02	3/4	396.12	3/4	43.80	3/4		3/4		3/4		3/4	
7	1,835.73	7	1,473.82	7	1,112.10	7	750.48	7	388.58	7	38.31	7		7		7		7	
1/4	1,828.19	1/4	1,466.28	1/4	1,104.58	1/4	742.94	1/4	381.04	1/4	34.07	1/4		1/4		1/4		1/4	
1/2	1,820.65	1/2	1,458.74	1/2	1,097.05	1/2	735.40	1/2	373.50	1/2	29.83	1/2		1/2		1/2		1/2	
3/4	1,813.11	3/4	1,451.20	3/4	1,089.52	3/4	727.86	3/4	365.96	3/4	25.59	3/4		3/4		3/4		3/4	
8	1,805.57	8	1,443.66	8	1,081.99	8	720.32	8	358.42	8	21.35	8		8		8		8	
1/4	1,798.03	1/4	1,436.12	1/4	1,074.47	1/4	712.78	1/4	350.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,790.49	1/2	1,428.58	1/2	1,066.94	1/2	705.24	1/2	343.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,782.95	3/4	1,421.04	3/4	1,059.41	3/4	697.70	3/4	335.80	3/4		3/4		3/4		3/4		3/4	
9	1,775.41	9	1,413.50	9	1,051.88	9	690.16	9	328.26	9		9		9		9		9	
1/4	1,767.87	1/4	1,405.96	1/4	1,044.35	1/4	682.62	1/4	320.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,760.33	1/2	1,398.42	1/2	1,036.83	1/2	675.09	1/2	313.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,752.79	3/4	1,390.88	3/4	1,029.30	3/4	667.55	3/4	305.64	3/4		3/4		3/4		3/4		3/4	
10	1,745.25	10	1,383.34	10	1,021.77	10	660.01	10	298.11	10		10		10		10		10	
1/4	1,737.71	1/4	1,375.80	1/4	1,014.24	1/4	652.47	1/4	290.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,730.17	1/2	1,368.26	1/2	1,006.72	1/2	644.93	1/2	283.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,722.63	3/4	1,360.72	3/4	999.19	3/4	637.39	3/4	275.49	3/4		3/4		3/4		3/4		3/4	
11	1,715.09	11	1,353.18	11	991.66	11	629.85	11	267.95	11		11		11		11		11	
1/4	1,707.55	1/4	1,345.64	1/4	984.13	1/4	622.31	1/4	260.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.01	1/2	1,338.10	1/2	976.61	1/2	614.77	1/2	252.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,692.47	3/4	1,330.56	3/4	969.08	3/4	607.23	3/4	245.33	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2022 JS
CALCULATED: 12/05/2022 CL
PRINTED: 12/06/2022 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2022

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



BARGE "DBL 321"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,876.89	0	4,546.21	0	4,201.45	0	3,843.86	0	3,482.43	0	3,121.00	0	2,759.57	0	2,398.05
1/4		1/4	5,182.03	1/4	4,870.16	1/4	4,539.17	1/4	4,194.14	1/4	3,836.33	1/4	3,474.90	1/4	3,113.47	1/4	2,752.04	1/4	2,390.51
1/2		1/2	5,176.93	1/2	4,863.40	1/2	4,532.11	1/2	4,186.80	1/2	3,828.80	1/2	3,467.37	1/2	3,105.94	1/2	2,744.51	1/2	2,382.98
3/4		3/4	5,171.83	3/4	4,856.65	3/4	4,525.04	3/4	4,179.46	3/4	3,821.27	3/4	3,459.84	3/4	3,098.41	3/4	2,736.98	3/4	2,375.45
1		1	5,166.73	1	4,849.89	1	4,517.98	1	4,172.13	1	3,813.74	1	3,452.31	1	3,090.88	1	2,729.45	1	2,367.92
1/4		1/4	5,161.62	1/4	4,843.13	1/4	4,510.92	1/4	4,164.79	1/4	3,806.21	1/4	3,444.78	1/4	3,083.35	1/4	2,721.92	1/4	2,360.38
1/2		1/2	5,155.31	1/2	4,836.35	1/2	4,503.84	1/2	4,157.43	1/2	3,798.68	1/2	3,437.25	1/2	3,075.82	1/2	2,714.39	1/2	2,352.85
3/4		3/4	5,149.00	3/4	4,829.57	3/4	4,496.75	3/4	4,150.07	3/4	3,791.15	3/4	3,429.72	3/4	3,068.29	3/4	2,706.86	3/4	2,345.32
2		2	5,142.68	2	4,822.79	2	4,489.67	2	4,142.71	2	3,783.62	2	3,422.19	2	3,060.76	2	2,699.33	2	2,337.79
1/4		1/4	5,136.37	1/4	4,816.01	1/4	4,482.58	1/4	4,135.35	1/4	3,776.09	1/4	3,414.66	1/4	3,053.23	1/4	2,691.80	1/4	2,330.25
1/2		1/2	5,129.19	1/2	4,809.21	1/2	4,475.47	1/2	4,127.97	1/2	3,768.56	1/2	3,407.13	1/2	3,045.70	1/2	2,684.27	1/2	2,322.72
3/4		3/4	5,122.02	3/4	4,802.41	3/4	4,468.37	3/4	4,120.58	3/4	3,761.03	3/4	3,399.60	3/4	3,038.17	3/4	2,676.74	3/4	2,315.19
3		3	5,114.84	3	4,795.60	3	4,461.26	3	4,113.20	3	3,753.50	3	3,392.07	3	3,030.64	3	2,669.21	3	2,307.66
1/4		1/4	5,107.67	1/4	4,788.80	1/4	4,454.15	1/4	4,105.82	1/4	3,745.97	1/4	3,384.54	1/4	3,023.11	1/4	2,661.68	1/4	2,300.12
1/2		1/2	5,101.19	1/2	4,781.98	1/2	4,447.02	1/2	4,098.41	1/2	3,738.44	1/2	3,377.01	1/2	3,015.58	1/2	2,654.15	1/2	2,292.59
3/4		3/4	5,094.70	3/4	4,775.15	3/4	4,439.89	3/4	4,091.00	3/4	3,730.91	3/4	3,369.48	3/4	3,008.05	3/4	2,646.62	3/4	2,285.06
4		4	5,088.22	4	4,768.32	4	4,432.76	4	4,083.60	4	3,723.38	4	3,361.95	4	3,000.52	4	2,639.09	4	2,277.53
1/4		1/4	5,081.74	1/4	4,761.50	1/4	4,425.63	1/4	4,076.19	1/4	3,715.85	1/4	3,354.42	1/4	2,992.99	1/4	2,631.56	1/4	2,269.99
1/2		1/2	5,075.24	1/2	4,754.65	1/2	4,418.47	1/2	4,068.76	1/2	3,708.32	1/2	3,346.89	1/2	2,985.46	1/2	2,624.03	1/2	2,262.46
3/4		3/4	5,068.73	3/4	4,747.80	3/4	4,411.32	3/4	4,061.33	3/4	3,700.79	3/4	3,339.36	3/4	2,977.93	3/4	2,616.49	3/4	2,254.93
5		5	5,062.23	5	4,740.95	5	4,404.17	5	4,053.90	5	3,693.26	5	3,331.83	5	2,970.40	5	2,608.96	5	2,247.40
1/4		1/4	5,055.73	1/4	4,734.10	1/4	4,397.01	1/4	4,046.47	1/4	3,685.73	1/4	3,324.30	1/4	2,962.87	1/4	2,601.42	1/4	2,239.86
1/2		1/2	5,049.20	1/2	4,727.23	1/2	4,389.84	1/2	4,039.02	1/2	3,678.20	1/2	3,316.77	1/2	2,955.34	1/2	2,593.89	1/2	2,232.33
3/4		3/4	5,042.67	3/4	4,720.36	3/4	4,382.66	3/4	4,031.57	3/4	3,670.67	3/4	3,309.24	3/4	2,947.81	3/4	2,586.36	3/4	2,224.80
6		6	5,036.15	6	4,713.49	6	4,375.48	6	4,024.12	6	3,663.14	6	3,301.71	6	2,940.28	6	2,578.83	6	2,217.27
1/4		1/4	5,029.62	1/4	4,706.62	1/4	4,368.31	1/4	4,016.66	1/4	3,655.61	1/4	3,294.18	1/4	2,932.75	1/4	2,571.29	1/4	2,209.73
1/2		1/2	5,023.07	1/2	4,699.72	1/2	4,361.11	1/2	4,009.19	1/2	3,648.08	1/2	3,286.65	1/2	2,925.22	1/2	2,563.76	1/2	2,202.20
3/4		3/4	5,016.52	3/4	4,692.82	3/4	4,353.91	3/4	4,001.71	3/4	3,640.55	3/4	3,279.12	3/4	2,917.69	3/4	2,556.23	3/4	2,194.67
7		7	5,009.97	7	4,685.92	7	4,346.71	7	3,994.24	7	3,633.02	7	3,271.59	7	2,910.16	7	2,548.70	7	2,187.14
1/4		1/4	5,003.42	1/4	4,679.02	1/4	4,339.51	1/4	3,986.76	1/4	3,625.49	1/4	3,264.06	1/4	2,902.63	1/4	2,541.16	1/4	2,179.60
1/2		1/2	4,996.85	1/2	4,672.08	1/2	4,332.29	1/2	3,979.26	1/2	3,617.96	1/2	3,256.53	1/2	2,895.10	1/2	2,533.63	1/2	2,172.07
3/4		3/4	4,990.27	3/4	4,665.13	3/4	4,325.06	3/4	3,971.77	3/4	3,610.43	3/4	3,249.00	3/4	2,887.57	3/4	2,526.10	3/4	2,164.54
8		8	4,983.70	8	4,658.18	8	4,317.84	8	3,964.27	8	3,602.90	8	3,241.47	8	2,880.04	8	2,518.57	8	2,157.01
1/4		1/4	4,977.13	1/4	4,651.24	1/4	4,310.62	1/4	3,956.77	1/4	3,595.38	1/4	3,233.94	1/4	2,872.51	1/4	2,511.03	1/4	2,149.47
1/2		1/2	4,970.52	1/2	4,644.27	1/2	4,303.37	1/2	3,949.25	1/2	3,587.85	1/2	3,226.41	1/2	2,864.98	1/2	2,503.50	1/2	2,141.94
3/4		3/4	4,963.92	3/4	4,637.30	3/4	4,296.13	3/4	3,941.73	3/4	3,580.32	3/4	3,218.89	3/4	2,857.45	3/4	2,495.97	3/4	2,134.41
9		9	4,957.31	9	4,630.33	9	4,288.88	9	3,934.21	9	3,572.79	9	3,211.36	9	2,849.92	9	2,488.44	9	2,126.88
1/4		1/4	4,950.71	1/4	4,623.36	1/4	4,281.64	1/4	3,926.69	1/4	3,565.26	1/4	3,203.83	1/4	2,842.40	1/4	2,480.90	1/4	2,119.34
1/2		1/2	4,944.02	1/2	4,616.36	1/2	4,274.37	1/2	3,919.16	1/2	3,557.73	1/2	3,196.30	1/2	2,834.87	1/2	2,473.37	1/2	2,111.81
3/4		3/4	4,937.33	3/4	4,609.37	3/4	4,267.10	3/4	3,911.63	3/4	3,550.20	3/4	3,188.77	3/4	2,827.34	3/4	2,465.84	3/4	2,104.28
10		10	4,930.64	10	4,602.38	10	4,259.83	10	3,904.10	10	3,542.67	10	3,181.24	10	2,819.81	10	2,458.31	10	2,096.75
1/4		1/4	4,923.95	1/4	4,595.39	1/4	4,252.56	1/4	3,896.57	1/4	3,535.14	1/4	3,173.71	1/4	2,812.28	1/4	2,450.77	1/4	2,089.21
1/2		1/2	4,917.24	1/2	4,588.37	1/2	4,245.27	1/2	3,889.04	1/2	3,527.61	1/2	3,166.18	1/2	2,804.75	1/2	2,443.24	1/2	2,081.68
3/4		3/4	4,910.52	3/4	4,581.35	3/4	4,237.98	3/4	3,881.51	3/4	3,520.08	3/4	3,158.65	3/4	2,797.22	3/4	2,435.71	3/4	2,074.15
11		11	4,903.81	11	4,574.34	11	4,230.69	11	3,873.98	11	3,512.55	11	3,151.12	11	2,789.69	11	2,428.18	11	2,066.62
1/4		1/4	4,897.10	1/4	4,567.32	1/4	4,223.40	1/4	3,866.45	1/4	3,505.02	1/4	3,143.59	1/4	2,782.16	1/4	2,420.64	1/4	2,059.08
1/2		1/2	4,890.36	1/2	4,560.28	1/2	4,216.08	1/2	3,858.92	1/2	3,497.49	1/2	3,136.06	1/2	2,774.63	1/2	2,413.11	1/2	2,051.55
3/4		3/4	4,883.63	3/4	4,553.24	3/4	4,208.77	3/4	3,851.39	3/4	3,489.96	3/4	3,128.53	3/4	2,767.10	3/4	2,405.58	3/4	2,044.02

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" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-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 "DBL 321"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,036.49	0	1,674.93	0	1,313.37	0	965.32	0	606.64	0	245.09	0		0		0		0	
1/4	2,028.95	1/4	1,667.39	1/4	1,305.83	1/4	958.13	1/4	599.11	1/4	237.56	1/4		1/4		1/4		1/4	
1/2	2,021.42	1/2	1,659.86	1/2	1,298.30	1/2	950.94	1/2	591.58	1/2	230.03	1/2		1/2		1/2		1/2	
3/4	2,013.89	3/4	1,652.33	3/4	1,290.77	3/4	943.75	3/4	584.04	3/4	222.49	3/4		3/4		3/4		3/4	
1	2,006.36	1	1,644.80	1	1,283.24	1	936.56	1	576.51	1	214.96	1		1		1		1	
1/4	1,998.82	1/4	1,637.26	1/4	1,275.70	1/4	929.37	1/4	568.98	1/4	207.43	1/4		1/4		1/4		1/4	
1/2	1,991.29	1/2	1,629.73	1/2	1,268.21	1/2	922.13	1/2	561.45	1/2	199.90	1/2		1/2		1/2		1/2	
3/4	1,983.76	3/4	1,622.20	3/4	1,260.72	3/4	914.89	3/4	553.91	3/4	192.36	3/4		3/4		3/4		3/4	
2	1,976.23	2	1,614.67	2	1,253.23	2	907.64	2	546.38	2	184.83	2		2		2		2	
1/4	1,968.69	1/4	1,607.13	1/4	1,245.74	1/4	900.40	1/4	538.85	1/4	177.30	1/4		1/4		1/4		1/4	
1/2	1,961.16	1/2	1,599.60	1/2	1,238.54	1/2	892.87	1/2	531.32	1/2	169.77	1/2		1/2		1/2		1/2	
3/4	1,953.63	3/4	1,592.07	3/4	1,231.34	3/4	885.34	3/4	523.79	3/4	162.24	3/4		3/4		3/4		3/4	
3	1,946.10	3	1,584.54	3	1,224.14	3	877.80	3	516.25	3	154.70	3		3		3		3	
1/4	1,938.56	1/4	1,577.00	1/4	1,216.94	1/4	870.27	1/4	508.72	1/4	147.17	1/4		1/4		1/4		1/4	
1/2	1,931.03	1/2	1,569.47	1/2	1,209.75	1/2	862.74	1/2	501.19	1/2	139.64	1/2		1/2		1/2		1/2	
3/4	1,923.50	3/4	1,561.94	3/4	1,202.56	3/4	855.21	3/4	493.66	3/4	132.11	3/4		3/4		3/4		3/4	
4	1,915.97	4	1,554.41	4	1,195.37	4	847.67	4	486.12	4	124.57	4		4		4		4	
1/4	1,908.43	1/4	1,546.87	1/4	1,188.18	1/4	840.14	1/4	478.59	1/4	117.04	1/4		1/4		1/4		1/4	
1/2	1,900.90	1/2	1,539.34	1/2	1,180.99	1/2	832.61	1/2	471.06	1/2	109.59	1/2		1/2		1/2		1/2	
3/4	1,893.37	3/4	1,531.81	3/4	1,173.81	3/4	825.08	3/4	463.53	3/4	102.13	3/4		3/4		3/4		3/4	
5	1,885.84	5	1,524.28	5	1,166.62	5	817.55	5	456.00	5	94.68	5		5		5		5	
1/4	1,878.30	1/4	1,516.74	1/4	1,159.43	1/4	810.01	1/4	448.46	1/4	87.23	1/4		1/4		1/4		1/4	
1/2	1,870.77	1/2	1,509.21	1/2	1,152.24	1/2	802.48	1/2	440.93	1/2	80.48	1/2		1/2		1/2		1/2	
3/4	1,863.24	3/4	1,501.68	3/4	1,145.05	3/4	794.95	3/4	433.40	3/4	73.73	3/4		3/4		3/4		3/4	
6	1,855.71	6	1,494.15	6	1,137.86	6	787.42	6	425.87	6	66.98	6		6		6		6	
1/4	1,848.17	1/4	1,486.61	1/4	1,130.67	1/4	779.88	1/4	418.33	1/4	60.24	1/4		1/4		1/4		1/4	
1/2	1,840.64	1/2	1,479.08	1/2	1,123.48	1/2	772.35	1/2	410.80	1/2	54.75	1/2		1/2		1/2		1/2	
3/4	1,833.11	3/4	1,471.55	3/4	1,116.29	3/4	764.82	3/4	403.27	3/4	49.25	3/4		3/4		3/4		3/4	
7	1,825.58	7	1,464.02	7	1,109.10	7	757.29	7	395.74	7	43.76	7		7		7		7	
1/4	1,818.04	1/4	1,456.48	1/4	1,101.91	1/4	749.75	1/4	388.20	1/4	38.27	1/4		1/4		1/4		1/4	
1/2	1,810.51	1/2	1,448.95	1/2	1,094.73	1/2	742.22	1/2	380.67	1/2	34.03	1/2		1/2		1/2		1/2	
3/4	1,802.98	3/4	1,441.42	3/4	1,087.54	3/4	734.69	3/4	373.14	3/4	29.80	3/4		3/4		3/4		3/4	
8	1,795.45	8	1,433.89	8	1,080.35	8	727.16	8	365.61	8	25.56	8		8		8		8	
1/4	1,787.91	1/4	1,426.35	1/4	1,073.16	1/4	719.63	1/4	358.08	1/4	21.33	1/4		1/4		1/4		1/4	
1/2	1,780.38	1/2	1,418.82	1/2	1,065.97	1/2	712.09	1/2	350.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,772.85	3/4	1,411.29	3/4	1,058.78	3/4	704.56	3/4	343.01	3/4		3/4		3/4		3/4		3/4	
9	1,765.32	9	1,403.76	9	1,051.59	9	697.03	9	335.48	9		9		9		9		9	
1/4	1,757.78	1/4	1,396.22	1/4	1,044.40	1/4	689.50	1/4	327.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,750.25	1/2	1,388.69	1/2	1,037.21	1/2	681.96	1/2	320.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,742.72	3/4	1,381.16	3/4	1,030.02	3/4	674.43	3/4	312.88	3/4		3/4		3/4		3/4		3/4	
10	1,735.19	10	1,373.63	10	1,022.83	10	666.90	10	305.35	10		10		10		10		10	
1/4	1,727.65	1/4	1,366.09	1/4	1,015.65	1/4	659.37	1/4	297.82	1/4		1/4		1/4		1/4		1/4	
1/2	1,720.12	1/2	1,358.56	1/2	1,008.46	1/2	651.83	1/2	290.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,712.59	3/4	1,351.03	3/4	1,001.27	3/4	644.30	3/4	282.75	3/4		3/4		3/4		3/4		3/4	
11	1,705.06	11	1,343.50	11	994.08	11	636.77	11	275.22	11		11		11		11		11	
1/4	1,697.52	1/4	1,335.96	1/4	986.89	1/4	629.24	1/4	267.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,689.99	1/2	1,328.43	1/2	979.70	1/2	621.71	1/2	260.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,682.46	3/4	1,320.90	3/4	972.51	3/4	614.17	3/4	252.62	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2022 JS
CALCULATED: 12/05/2022 CL
PRINTED: 12/06/2022 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2022

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



BARGE "DBL 321"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	4,246.27	0	4,069.05	0	3,884.31	0	3,692.66	0	3,490.25	0	3,132.03	0	2,772.55	0	2,412.45
1/4	1/4	1/4	1/4	1/4	4,242.66	1/4	4,065.28	1/4	3,880.39	1/4	3,688.62	1/4	3,482.78	1/4	3,124.54	1/4	2,765.05	1/4	2,404.95
1/2	1/2	1/2	1/2	1/2	4,239.05	1/2	4,061.50	1/2	3,876.46	1/2	3,684.58	1/2	3,475.31	1/2	3,117.05	1/2	2,757.54	1/2	2,397.45
3/4	3/4	3/4	3/4	3/4	4,235.42	3/4	4,057.71	3/4	3,872.53	3/4	3,680.54	3/4	3,467.84	3/4	3,109.57	3/4	2,750.04	3/4	2,389.95
1	1	1	1	1	4,231.80	1	4,053.93	1	3,868.59	1	3,676.51	1	3,460.37	1	3,102.08	1	2,742.54	1	2,382.44
1/4	1/4	1/4	1/4	1/4	4,228.17	1/4	4,050.14	1/4	3,864.66	1/4	3,672.47	1/4	3,452.90	1/4	3,094.59	1/4	2,735.04	1/4	2,374.94
1/2	1/2	1/2	1/2	1/2	4,224.55	1/2	4,046.35	1/2	3,860.73	1/2	3,668.43	1/2	3,445.44	1/2	3,087.10	1/2	2,727.54	1/2	2,367.44
3/4	3/4	3/4	3/4	3/4	4,220.91	3/4	4,042.55	3/4	3,856.78	3/4	3,664.39	3/4	3,437.97	3/4	3,079.61	3/4	2,720.04	3/4	2,359.94
2	2	2	2	2	4,217.27	2	4,038.75	2	3,852.83	2	3,660.35	2	3,430.50	2	3,072.12	2	2,712.54	2	2,352.43
1/4	1/4	1/4	1/4	1/4	4,213.63	1/4	4,034.95	1/4	3,848.88	1/4	3,656.32	1/4	3,423.03	1/4	3,064.63	1/4	2,705.04	1/4	2,344.93
1/2	1/2	1/2	1/2	1/2	4,210.00	1/2	4,031.15	1/2	3,844.94	1/2	3,652.28	1/2	3,415.56	1/2	3,057.15	1/2	2,697.54	1/2	2,337.43
3/4	3/4	3/4	3/4	3/4	4,206.35	3/4	4,027.34	3/4	3,840.98	3/4	3,648.24	3/4	3,408.09	3/4	3,049.66	3/4	2,690.03	3/4	2,329.92
3	3	3	3	3	4,202.70	3	4,023.53	3	3,837.02	3	3,644.20	3	3,400.62	3	3,042.17	3	2,682.53	3	2,322.42
1/4	1/4	1/4	1/4	1/4	4,199.05	1/4	4,019.72	1/4	3,833.06	1/4	3,640.16	1/4	3,393.15	1/4	3,034.68	1/4	2,675.03	1/4	2,314.92
1/2	1/2	1/2	1/2	1/2	4,195.40	1/2	4,015.91	1/2	3,829.10	1/2	3,636.13	1/2	3,385.68	1/2	3,027.19	1/2	2,667.53	1/2	2,307.42
3/4	3/4	3/4	3/4	3/4	4,191.74	3/4	4,012.08	3/4	3,825.13	3/4	3,632.09	3/4	3,378.21	3/4	3,019.70	3/4	2,660.03	3/4	2,299.91
4	4	4	4	4	4,188.07	4	4,008.26	4	3,821.15	4	3,628.05	4	3,370.74	4	3,012.22	4	2,652.53	4	2,292.41
1/4	1/4	1/4	1/4	1/4	4,184.41	1/4	4,004.43	1/4	3,817.18	1/4	3,624.01	1/4	3,363.27	1/4	3,004.73	1/4	2,645.03	1/4	2,284.91
1/2	1/2	1/2	1/2	1/2	4,180.75	1/2	4,000.61	1/2	3,813.21	1/2	3,619.97	1/2	3,355.80	1/2	2,997.24	1/2	2,637.53	1/2	2,277.41
3/4	3/4	3/4	3/4	3/4	4,177.08	3/4	3,996.77	3/4	3,809.23	3/4	3,615.94	3/4	3,348.33	3/4	2,989.75	3/4	2,630.03	3/4	2,269.90
5	5	5	5	5	4,173.40	5	3,992.94	5	3,805.24	5	3,611.90	5	3,340.86	5	2,982.26	5	2,622.52	5	2,262.40
1/4	1/4	1/4	1/4	1/4	4,169.73	1/4	3,989.10	1/4	3,801.26	1/4	3,607.86	1/4	3,333.39	1/4	2,974.77	1/4	2,615.02	1/4	2,254.90
1/2	1/2	1/2	1/2	1/2	4,166.05	1/2	3,985.26	1/2	3,797.27	1/2	3,603.82	1/2	3,325.93	1/2	2,967.29	1/2	2,607.52	1/2	2,247.40
3/4	3/4	3/4	3/4	3/4	4,162.37	3/4	3,981.42	3/4	3,793.28	3/4	3,599.78	3/4	3,318.47	3/4	2,959.80	3/4	2,600.02	3/4	2,239.89
6	6	6	6	6	4,158.68	6	3,977.57	6	3,789.28	6	3,595.75	6	3,311.02	6	2,952.31	6	2,592.52	6	2,232.39
1/4	1/4	1/4	1/4	1/4	4,154.99	1/4	3,973.72	1/4	3,785.28	1/4	3,591.71	1/4	3,303.56	1/4	2,944.82	1/4	2,585.01	1/4	2,224.89
1/2	1/2	1/2	1/2	1/2	4,151.31	1/2	3,969.87	1/2	3,781.29	1/2	3,587.67	1/2	3,296.11	1/2	2,937.33	1/2	2,577.51	1/2	2,217.39
3/4	3/4	3/4	3/4	3/4	4,147.61	3/4	3,966.01	3/4	3,777.28	3/4	3,583.63	3/4	3,288.66	3/4	2,929.84	3/4	2,570.01	3/4	2,209.88
7	7	7	7	7	4,143.91	7	3,962.15	7	3,773.27	7	3,579.59	7	3,281.20	7	2,922.35	7	2,562.51	7	2,202.38
1/4	1/4	1/4	1/4	1/4	4,140.21	1/4	3,958.29	1/4	3,769.26	1/4	3,575.56	1/4	3,273.75	1/4	2,914.87	1/4	2,555.00	1/4	2,194.88
1/2	1/2	1/2	1/2	1/2	4,136.51	1/2	3,954.42	1/2	3,765.25	1/2	3,571.52	1/2	3,266.29	1/2	2,907.38	1/2	2,547.50	1/2	2,187.38
3/4	3/4	3/4	3/4	3/4	4,132.78	3/4	3,950.55	3/4	3,761.23	3/4	3,567.48	3/4	3,258.84	3/4	2,899.89	3/4	2,540.00	3/4	2,179.87
8	8	8	8	8	4,129.05	8	3,946.68	8	3,757.21	8	3,563.44	8	3,251.39	8	2,892.40	8	2,532.49	8	2,172.37
1/4	1/4	1/4	1/4	1/4	4,125.33	1/4	3,942.80	1/4	3,753.19	1/4	3,559.40	1/4	3,243.93	1/4	2,884.91	1/4	2,524.99	1/4	2,164.87
1/2	1/2	1/2	1/2	1/2	4,121.60	1/2	3,938.93	1/2	3,749.17	1/2	3,555.37	1/2	3,236.48	1/2	2,877.42	1/2	2,517.49	1/2	2,157.37
3/4	3/4	3/4	3/4	3/4	4,117.87	3/4	3,935.05	3/4	3,745.14	3/4	3,551.33	3/4	3,229.02	3/4	2,869.94	3/4	2,509.99	3/4	2,149.86
9	9	9	9	9	4,114.13	9	3,931.16	9	3,741.10	9	3,547.29	9	3,221.57	9	2,862.45	9	2,502.48	9	2,142.36
1/4	1/4	1/4	1/4	1/4	4,110.39	1/4	3,927.27	1/4	3,737.07	1/4	3,543.25	1/4	3,214.11	1/4	2,854.96	1/4	2,494.98	1/4	2,134.86
1/2	1/2	1/2	1/2	1/2	4,106.65	1/2	3,923.39	1/2	3,733.04	1/2	3,539.21	1/2	3,206.66	1/2	2,847.47	1/2	2,487.48	1/2	2,127.35
3/4	3/4	3/4	3/4	3/4	4,102.90	3/4	3,919.49	3/4	3,729.00	3/4	3,535.18	3/4	3,199.21	3/4	2,839.98	3/4	2,479.98	3/4	2,119.85
10	10	10	10	10	4,099.15	10	3,915.59	10	3,724.96	10	3,531.14	10	3,191.75	10	2,832.49	10	2,472.47	10	2,112.35
1/4	1/4	1/4	1/4	1/4	4,095.40	1/4	3,911.69	1/4	3,720.92	1/4	3,527.10	1/4	3,184.30	1/4	2,825.01	1/4	2,464.97	1/4	2,104.85
1/2	1/2	1/2	1/2	1/2	4,091.65	1/2	3,907.80	1/2	3,716.89	1/2	3,523.06	1/2	3,176.84	1/2	2,817.52	1/2	2,457.47	1/2	2,097.34
3/4	3/4	3/4	3/4	3/4	4,087.89	3/4	3,903.89	3/4	3,712.85	3/4	3,518.60	3/4	3,169.38	3/4	2,810.03	3/4	2,449.97	3/4	2,089.84
11	11	11	11	11	4,084.12	11	3,899.98	11	3,708.81	11	3,514.13	11	3,161.93	11	2,802.54	11	2,442.46	11	2,082.34
1/4	1/4	1/4	1/4	1/4	4,080.36	1/4	3,896.07	1/4	3,704.77	1/4	3,509.66	1/4	3,154.47	1/4	2,795.05	1/4	2,434.96	1/4	2,074.84
1/2	1/2	1/2	1/2	1/2	4,076.60	1/2	3,892.16	1/2	3,700.73	1/2	3,505.19	1/2	3,147.01	1/2	2,787.56	1/2	2,427.46	1/2	2,067.33
3/4	3/4	3/4	3/4	3/4	4,072.82	3/4	3,888.23	3/4	3,696.70	3/4	3,497.72	3/4	3,139.52	3/4	2,780.05	3/4	2,419.96	3/4	2,059.83

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-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 "DBL 321"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,052.33	0	1,692.12	0	1,331.91	0	972.00	0	611.88	0	251.68	0		0		0		0	
1/4	2,044.83	1/4	1,684.62	1/4	1,324.40	1/4	964.50	1/4	604.37	1/4	244.18	1/4		1/4		1/4		1/4	
1/2	2,037.32	1/2	1,677.11	1/2	1,316.90	1/2	957.01	1/2	596.87	1/2	236.67	1/2		1/2		1/2		1/2	
3/4	2,029.82	3/4	1,669.61	3/4	1,309.40	3/4	949.51	3/4	589.37	3/4	229.17	3/4		3/4		3/4		3/4	
1	2,022.31	1	1,662.10	1	1,301.89	1	942.02	1	581.86	1	221.66	1		1		1		1	
1/4	2,014.81	1/4	1,654.60	1/4	1,294.39	1/4	934.52	1/4	574.36	1/4	214.16	1/4		1/4		1/4		1/4	
1/2	2,007.31	1/2	1,647.09	1/2	1,286.88	1/2	927.03	1/2	566.85	1/2	206.66	1/2		1/2		1/2		1/2	
3/4	1,999.80	3/4	1,639.59	3/4	1,279.38	3/4	919.53	3/4	559.35	3/4	199.15	3/4		3/4		3/4		3/4	
2	1,992.30	2	1,632.09	2	1,271.87	2	912.03	2	551.84	2	191.65	2		2		2		2	
1/4	1,984.79	1/4	1,624.58	1/4	1,264.37	1/4	904.53	1/4	544.34	1/4	184.14	1/4		1/4		1/4		1/4	
1/2	1,977.29	1/2	1,617.08	1/2	1,256.87	1/2	897.03	1/2	536.84	1/2	176.64	1/2		1/2		1/2		1/2	
3/4	1,969.78	3/4	1,609.57	3/4	1,249.36	3/4	889.53	3/4	529.33	3/4	169.14	3/4		3/4		3/4		3/4	
3	1,962.28	3	1,602.07	3	1,241.86	3	882.03	3	521.83	3	161.63	3		3		3		3	
1/4	1,954.77	1/4	1,594.56	1/4	1,234.35	1/4	874.52	1/4	514.32	1/4	154.13	1/4		1/4		1/4		1/4	
1/2	1,947.27	1/2	1,587.06	1/2	1,226.85	1/2	867.02	1/2	506.82	1/2	146.62	1/2		1/2		1/2		1/2	
3/4	1,939.77	3/4	1,579.55	3/4	1,219.35	3/4	859.51	3/4	499.32	3/4	139.12	3/4		3/4		3/4		3/4	
4	1,932.26	4	1,572.05	4	1,211.85	4	852.01	4	491.81	4	131.62	4		4		4		4	
1/4	1,924.76	1/4	1,564.55	1/4	1,204.35	1/4	844.50	1/4	484.31	1/4	124.11	1/4		1/4		1/4		1/4	
1/2	1,917.25	1/2	1,557.04	1/2	1,196.85	1/2	837.00	1/2	476.80	1/2	116.61	1/2		1/2		1/2		1/2	
3/4	1,909.75	3/4	1,549.54	3/4	1,189.35	3/4	829.50	3/4	469.30	3/4	109.18	3/4		3/4		3/4		3/4	
5	1,902.24	5	1,542.03	5	1,181.86	5	821.99	5	461.80	5	101.76	5		5		5		5	
1/4	1,894.74	1/4	1,534.53	1/4	1,174.36	1/4	814.49	1/4	454.29	1/4	94.33	1/4		1/4		1/4		1/4	
1/2	1,887.23	1/2	1,527.02	1/2	1,166.87	1/2	806.98	1/2	446.79	1/2	86.90	1/2		1/2		1/2		1/2	
3/4	1,879.73	3/4	1,519.52	3/4	1,159.37	3/4	799.48	3/4	439.28	3/4	80.18	3/4		3/4		3/4		3/4	
6	1,872.23	6	1,512.01	6	1,151.88	6	791.98	6	431.78	6	73.46	6		6		6		6	
1/4	1,864.72	1/4	1,504.51	1/4	1,144.38	1/4	784.47	1/4	424.28	1/4	66.74	1/4		1/4		1/4		1/4	
1/2	1,857.22	1/2	1,497.01	1/2	1,136.89	1/2	776.97	1/2	416.77	1/2	60.01	1/2		1/2		1/2		1/2	
3/4	1,849.71	3/4	1,489.50	3/4	1,129.39	3/4	769.46	3/4	409.27	3/4	54.54	3/4		3/4		3/4		3/4	
7	1,842.21	7	1,482.00	7	1,121.90	7	761.96	7	401.76	7	49.07	7		7		7		7	
1/4	1,834.70	1/4	1,474.49	1/4	1,114.40	1/4	754.46	1/4	394.26	1/4	43.60	1/4		1/4		1/4		1/4	
1/2	1,827.20	1/2	1,466.99	1/2	1,106.91	1/2	746.95	1/2	386.75	1/2	38.13	1/2		1/2		1/2		1/2	
3/4	1,819.70	3/4	1,459.48	3/4	1,099.41	3/4	739.45	3/4	379.25	3/4	33.91	3/4		3/4		3/4		3/4	
8	1,812.19	8	1,451.98	8	1,091.92	8	731.94	8	371.75	8	29.69	8		8		8		8	
1/4	1,804.69	1/4	1,444.48	1/4	1,084.42	1/4	724.44	1/4	364.24	1/4	25.47	1/4		1/4		1/4		1/4	
1/2	1,797.18	1/2	1,436.97	1/2	1,076.93	1/2	716.94	1/2	356.74	1/2	21.25	1/2		1/2		1/2		1/2	
3/4	1,789.68	3/4	1,429.47	3/4	1,069.43	3/4	709.43	3/4	349.23	3/4		3/4		3/4		3/4		3/4	
9	1,782.17	9	1,421.96	9	1,061.94	9	701.93	9	341.73	9		9		9		9		9	
1/4	1,774.67	1/4	1,414.46	1/4	1,054.44	1/4	694.42	1/4	334.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,767.16	1/2	1,406.95	1/2	1,046.95	1/2	686.92	1/2	326.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,759.66	3/4	1,399.45	3/4	1,039.45	3/4	679.41	3/4	319.22	3/4		3/4		3/4		3/4		3/4	
10	1,752.16	10	1,391.94	10	1,031.96	10	671.91	10	311.71	10		10		10		10		10	
1/4	1,744.65	1/4	1,384.44	1/4	1,024.46	1/4	664.41	1/4	304.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,737.15	1/2	1,376.94	1/2	1,016.97	1/2	656.90	1/2	296.71	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.64	3/4	1,369.43	3/4	1,009.47	3/4	649.40	3/4	289.20	3/4		3/4		3/4		3/4		3/4	
11	1,722.14	11	1,361.93	11	1,001.98	11	641.89	11	281.70	11		11		11		11		11	
1/4	1,714.63	1/4	1,354.42	1/4	994.48	1/4	634.39	1/4	274.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,707.13	1/2	1,346.92	1/2	986.99	1/2	626.89	1/2	266.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.62	3/4	1,339.41	3/4	979.49	3/4	619.38	3/4	259.18	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2022 JS
CALCULATED: 12/05/2022 CL
PRINTED: 12/06/2022 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2022

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



BARGE "DBL 321"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,219.95	0	4,044.06	0	3,860.63	0	3,670.23	0	3,475.72	0	3,118.71	0	2,760.62	0	2,401.70
1/4	1/4	1/4	4,216.36	1/4	4,040.31	1/4	3,856.73	1/4	3,666.22	1/4	3,468.28	1/4	3,111.25	1/4	2,753.14	1/4	2,394.22		
1/2	1/2	1/2	4,212.76	1/2	4,036.55	1/2	3,852.83	1/2	3,662.20	1/2	3,460.83	1/2	3,103.79	1/2	2,745.66	1/2	2,386.74		
3/4	3/4	3/4	4,209.17	3/4	4,032.80	3/4	3,848.93	3/4	3,658.18	3/4	3,453.39	3/4	3,096.32	3/4	2,738.19	3/4	2,379.27		
1	1	1	4,365.22	1	4,205.58	1	4,029.05	1	3,845.03	1	3,654.17	1	3,445.94	1	3,088.86	1	2,730.71	1	2,371.79
1/4	1/4	1/4	4,363.58	1/4	4,201.98	1/4	4,025.28	1/4	3,841.11	1/4	3,650.15	1/4	3,438.49	1/4	3,081.40	1/4	2,723.23	1/4	2,364.31
1/2	1/2	1/2	4,361.95	1/2	4,198.37	1/2	4,021.51	1/2	3,837.20	1/2	3,646.13	1/2	3,431.05	1/2	3,073.93	1/2	2,715.75	1/2	2,356.83
3/4	3/4	3/4	4,360.31	3/4	4,194.77	3/4	4,017.75	3/4	3,833.29	3/4	3,642.12	3/4	3,423.60	3/4	3,066.47	3/4	2,708.28	3/4	2,349.35
2	2	2	4,358.68	2	4,191.17	2	4,013.98	2	3,829.37	2	3,638.10	2	3,416.16	2	3,059.01	2	2,700.80	2	2,341.88
1/4	1/4	1/4	4,355.83	1/4	4,187.55	1/4	4,010.20	1/4	3,825.45	1/4	3,634.08	1/4	3,408.71	1/4	3,051.55	1/4	2,693.32	1/4	2,334.40
1/2	1/2	1/2	4,352.97	1/2	4,183.93	1/2	4,006.42	1/2	3,821.52	1/2	3,630.07	1/2	3,401.27	1/2	3,044.09	1/2	2,685.85	1/2	2,326.92
3/4	3/4	3/4	4,350.12	3/4	4,180.32	3/4	4,002.65	3/4	3,817.59	3/4	3,626.05	3/4	3,393.82	3/4	3,036.64	3/4	2,678.37	3/4	2,319.44
3	3	3	4,347.27	3	4,176.70	3	3,998.87	3	3,813.67	3	3,622.03	3	3,386.38	3	3,029.18	3	2,670.89	3	2,311.96
1/4	1/4	1/4	4,343.50	1/4	4,173.07	1/4	3,995.08	1/4	3,809.73	1/4	3,618.02	1/4	3,378.93	1/4	3,021.72	1/4	2,663.42	1/4	2,304.49
1/2	1/2	1/2	4,339.74	1/2	4,169.44	1/2	3,991.29	1/2	3,805.79	1/2	3,614.00	1/2	3,371.49	1/2	3,014.27	1/2	2,655.94	1/2	2,297.01
3/4	3/4	3/4	4,335.97	3/4	4,165.81	3/4	3,987.50	3/4	3,801.85	3/4	3,609.98	3/4	3,364.04	3/4	3,006.81	3/4	2,648.46	3/4	2,289.53
4	4	4	4,332.21	4	4,162.19	4	3,983.71	4	3,797.92	4	3,605.97	4	3,356.60	4	2,999.35	4	2,640.99	4	2,282.05
1/4	1/4	1/4	4,328.75	1/4	4,158.55	1/4	3,979.90	1/4	3,793.97	1/4	3,601.95	1/4	3,349.15	1/4	2,991.90	1/4	2,633.51	1/4	2,274.57
1/2	1/2	1/2	4,325.30	1/2	4,154.90	1/2	3,976.10	1/2	3,790.01	1/2	3,597.93	1/2	3,341.71	1/2	2,984.44	1/2	2,626.03	1/2	2,267.10
3/4	3/4	3/4	4,321.84	3/4	4,151.26	3/4	3,972.30	3/4	3,786.06	3/4	3,593.92	3/4	3,334.26	3/4	2,976.99	3/4	2,618.56	3/4	2,259.62
5	5	5	4,318.39	5	4,147.62	5	3,968.49	5	3,782.11	5	3,589.90	5	3,326.82	5	2,969.53	5	2,611.08	5	2,252.14
1/4	1/4	1/4	4,314.92	1/4	4,143.97	1/4	3,964.68	1/4	3,778.15	1/4	3,585.88	1/4	3,319.37	1/4	2,962.07	1/4	2,603.60	1/4	2,244.66
1/2	1/2	1/2	4,311.45	1/2	4,140.32	1/2	3,960.86	1/2	3,774.19	1/2	3,581.87	1/2	3,311.93	1/2	2,954.62	1/2	2,596.13	1/2	2,237.18
3/4	3/4	3/4	4,307.99	3/4	4,136.66	3/4	3,957.05	3/4	3,770.23	3/4	3,577.85	3/4	3,304.49	3/4	2,947.16	3/4	2,588.65	3/4	2,229.71
6	6	6	4,304.52	6	4,133.01	6	3,953.23	6	3,766.26	6	3,573.83	6	3,297.04	6	2,939.70	6	2,581.17	6	2,222.23
1/4	1/4	1/4	4,301.04	1/4	4,129.34	1/4	3,949.40	1/4	3,762.29	1/4	3,569.82	1/4	3,289.61	1/4	2,932.25	1/4	2,573.69	1/4	2,214.75
1/2	1/2	1/2	4,297.56	1/2	4,125.68	1/2	3,945.58	1/2	3,758.31	1/2	3,565.80	1/2	3,282.18	1/2	2,924.79	1/2	2,566.22	1/2	2,207.27
3/4	3/4	3/4	4,294.08	3/4	4,122.01	3/4	3,941.75	3/4	3,754.34	3/4	3,561.79	3/4	3,274.75	3/4	2,917.34	3/4	2,558.74	3/4	2,199.79
7	7	7	4,290.60	7	4,118.35	7	3,937.92	7	3,750.36	7	3,557.77	7	3,267.32	7	2,909.88	7	2,551.26	7	2,192.32
1/4	1/4	1/4	4,287.11	1/4	4,114.67	1/4	3,934.08	1/4	3,746.37	1/4	3,553.75	1/4	3,259.90	1/4	2,902.42	1/4	2,543.78	1/4	2,184.84
1/2	1/2	1/2	4,283.62	1/2	4,110.99	1/2	3,930.24	1/2	3,742.39	1/2	3,549.74	1/2	3,252.47	1/2	2,894.96	1/2	2,536.30	1/2	2,177.36
3/4	3/4	3/4	4,280.13	3/4	4,107.31	3/4	3,926.40	3/4	3,738.40	3/4	3,545.72	3/4	3,245.04	3/4	2,887.51	3/4	2,528.83	3/4	2,169.88
8	8	8	4,276.63	8	4,103.63	8	3,922.56	8	3,734.41	8	3,541.70	8	3,237.61	8	2,880.05	8	2,521.35	8	2,162.40
1/4	1/4	1/4	4,273.13	1/4	4,099.93	1/4	3,918.71	1/4	3,730.41	1/4	3,537.69	1/4	3,230.18	1/4	2,872.59	1/4	2,513.87	1/4	2,154.93
1/2	1/2	1/2	4,269.63	1/2	4,096.22	1/2	3,914.86	1/2	3,726.41	1/2	3,533.67	1/2	3,222.75	1/2	2,865.12	1/2	2,506.39	1/2	2,147.45
3/4	3/4	3/4	4,266.12	3/4	4,092.52	3/4	3,911.01	3/4	3,722.41	3/4	3,529.65	3/4	3,215.32	3/4	2,857.66	3/4	2,498.91	3/4	2,139.97
9	9	9	4,262.62	9	4,088.81	9	3,907.15	9	3,718.41	9	3,525.64	9	3,207.89	9	2,850.19	9	2,491.44	9	2,132.49
1/4	1/4	1/4	4,259.10	1/4	4,085.09	1/4	3,903.29	1/4	3,714.40	1/4	3,521.62	1/4	3,200.46	1/4	2,842.73	1/4	2,483.96	1/4	2,125.01
1/2	1/2	1/2	4,255.58	1/2	4,081.38	1/2	3,899.42	1/2	3,710.39	1/2	3,517.60	1/2	3,193.03	1/2	2,835.27	1/2	2,476.48	1/2	2,117.54
3/4	3/4	3/4	4,252.05	3/4	4,077.66	3/4	3,895.56	3/4	3,706.38	3/4	3,513.59	3/4	3,185.60	3/4	2,827.80	3/4	2,469.00	3/4	2,110.06
10	10	10	4,248.53	10	4,073.94	10	3,891.70	10	3,702.37	10	3,509.57	10	3,178.17	10	2,820.34	10	2,461.52	10	2,102.58
1/4	1/4	1/4	4,244.97	1/4	4,070.21	1/4	3,887.82	1/4	3,698.35	1/4	3,505.55	1/4	3,170.74	1/4	2,812.87	1/4	2,454.05	1/4	2,095.10
1/2	1/2	1/2	4,241.40	1/2	4,066.49	1/2	3,883.94	1/2	3,694.33	1/2	3,501.54	1/2	3,163.31	1/2	2,805.41	1/2	2,446.57	1/2	2,087.62
3/4	3/4	3/4	4,237.83	3/4	4,062.76	3/4	3,880.07	3/4	3,690.32	3/4	3,497.52	3/4	3,155.88	3/4	2,797.95	3/4	2,439.09	3/4	2,080.15
11	11	11	4,234.27	11	4,059.03	11	3,876.19	11	3,686.30	11	3,493.50	11	3,148.45	11	2,790.48	11	2,431.61	11	2,072.67
1/4	1/4	1/4	4,230.69	1/4	4,055.29	1/4	3,872.30	1/4	3,682.28	1/4	3,489.06	1/4	3,141.02	1/4	2,783.02	1/4	2,424.13	1/4	2,065.19
1/2	1/2	1/2	4,227.11	1/2	4,051.54	1/2	3,868.41	1/2	3,678.27	1/2	3,484.61	1/2	3,133.58	1/2	2,775.55	1/2	2,416.66	1/2	2,057.71
3/4	3/4	3/4	4,223.53	3/4	4,047.80	3/4	3,864.52	3/4	3,674.25	3/4	3,480.17	3/4	3,126.15	3/4	2,768.09	3/4	2,409.18	3/4	2,050.23

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-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 "DBL 321"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	2,042.76	0	1,683.73	0	1,325.96	0	976.70	0	625.07	0	265.93	0		0		0		0	
1/4	2,035.28	1/4	1,676.25	1/4	1,318.55	1/4	969.55	1/4	617.58	1/4	258.45	1/4		1/4		1/4		1/4	
1/2	2,027.80	1/2	1,668.77	1/2	1,311.13	1/2	962.41	1/2	610.10	1/2	250.97	1/2		1/2		1/2		1/2	
3/4	2,020.32	3/4	1,661.29	3/4	1,303.71	3/4	955.26	3/4	602.62	3/4	243.49	3/4		3/4		3/4		3/4	
1	2,012.84	1	1,653.81	1	1,296.29	1	948.12	1	595.14	1	236.01	1		1		1		1	
1/4	2,005.36	1/4	1,646.33	1/4	1,288.87	1/4	940.98	1/4	587.66	1/4	228.52	1/4		1/4		1/4		1/4	
1/2	1,997.88	1/2	1,638.85	1/2	1,281.45	1/2	933.83	1/2	580.17	1/2	221.04	1/2		1/2		1/2		1/2	
3/4	1,990.40	3/4	1,631.37	3/4	1,274.04	3/4	926.69	3/4	572.69	3/4	213.56	3/4		3/4		3/4		3/4	
2	1,982.92	2	1,623.89	2	1,266.62	2	919.54	2	565.21	2	206.08	2		2		2		2	
1/4	1,975.44	1/4	1,616.41	1/4	1,259.20	1/4	912.39	1/4	557.73	1/4	198.60	1/4		1/4		1/4		1/4	
1/2	1,967.96	1/2	1,608.93	1/2	1,251.79	1/2	905.24	1/2	550.25	1/2	191.12	1/2		1/2		1/2		1/2	
3/4	1,960.48	3/4	1,601.45	3/4	1,244.37	3/4	898.09	3/4	542.76	3/4	183.63	3/4		3/4		3/4		3/4	
3	1,953.00	3	1,593.97	3	1,236.95	3	890.94	3	535.28	3	176.15	3		3		3		3	
1/4	1,945.52	1/4	1,586.49	1/4	1,229.55	1/4	883.77	1/4	527.80	1/4	168.67	1/4		1/4		1/4		1/4	
1/2	1,938.04	1/2	1,579.01	1/2	1,222.15	1/2	876.60	1/2	520.32	1/2	161.19	1/2		1/2		1/2		1/2	
3/4	1,930.56	3/4	1,571.53	3/4	1,214.75	3/4	869.43	3/4	512.84	3/4	153.70	3/4		3/4		3/4		3/4	
4	1,923.08	4	1,564.05	4	1,207.35	4	862.26	4	505.36	4	146.22	4		4		4		4	
1/4	1,915.60	1/4	1,556.57	1/4	1,199.95	1/4	855.09	1/4	497.87	1/4	138.73	1/4		1/4		1/4		1/4	
1/2	1,908.12	1/2	1,549.09	1/2	1,192.54	1/2	847.91	1/2	490.39	1/2	131.25	1/2		1/2		1/2		1/2	
3/4	1,900.64	3/4	1,541.61	3/4	1,185.14	3/4	840.74	3/4	482.91	3/4	123.76	3/4		3/4		3/4		3/4	
5	1,893.16	5	1,534.13	5	1,177.74	5	833.56	5	475.43	5	116.27	5		5		5		5	
1/4	1,885.68	1/4	1,526.65	1/4	1,170.35	1/4	826.33	1/4	467.95	1/4	108.87	1/4		1/4		1/4		1/4	
1/2	1,878.20	1/2	1,519.17	1/2	1,162.95	1/2	819.10	1/2	460.46	1/2	101.47	1/2		1/2		1/2		1/2	
3/4	1,870.72	3/4	1,511.69	3/4	1,155.56	3/4	811.86	3/4	452.98	3/4	94.06	3/4		3/4		3/4		3/4	
6	1,863.24	6	1,504.21	6	1,148.17	6	804.63	6	445.50	6	86.66	6		6		6		6	
1/4	1,855.76	1/4	1,496.74	1/4	1,141.02	1/4	797.15	1/4	438.02	1/4	79.97	1/4		1/4		1/4		1/4	
1/2	1,848.28	1/2	1,489.27	1/2	1,133.88	1/2	789.67	1/2	430.54	1/2	73.28	1/2		1/2		1/2		1/2	
3/4	1,840.81	3/4	1,481.80	3/4	1,126.73	3/4	782.19	3/4	423.05	3/4	66.58	3/4		3/4		3/4		3/4	
7	1,833.33	7	1,474.33	7	1,119.59	7	774.70	7	415.57	7	59.89	7		7		7		7	
1/4	1,825.85	1/4	1,466.91	1/4	1,112.44	1/4	767.22	1/4	408.09	1/4	54.44	1/4		1/4		1/4		1/4	
1/2	1,818.37	1/2	1,459.49	1/2	1,105.30	1/2	759.74	1/2	400.61	1/2	48.98	1/2		1/2		1/2		1/2	
3/4	1,810.89	3/4	1,452.07	3/4	1,098.15	3/4	752.26	3/4	393.13	3/4	43.53	3/4		3/4		3/4		3/4	
8	1,803.41	8	1,444.65	8	1,091.01	8	744.78	8	385.64	8	38.08	8		8		8		8	
1/4	1,795.93	1/4	1,437.24	1/4	1,083.87	1/4	737.29	1/4	378.16	1/4	33.86	1/4		1/4		1/4		1/4	
1/2	1,788.45	1/2	1,429.82	1/2	1,076.72	1/2	729.81	1/2	370.68	1/2	29.65	1/2		1/2		1/2		1/2	
3/4	1,780.97	3/4	1,422.40	3/4	1,069.58	3/4	722.33	3/4	363.20	3/4	25.43	3/4		3/4		3/4		3/4	
9	1,773.49	9	1,414.98	9	1,062.43	9	714.85	9	355.72	9	21.22	9		9		9		9	
1/4	1,766.01	1/4	1,407.56	1/4	1,055.29	1/4	707.37	1/4	348.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,758.53	1/2	1,400.14	1/2	1,048.14	1/2	699.88	1/2	340.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,751.05	3/4	1,392.73	3/4	1,041.00	3/4	692.40	3/4	333.27	3/4		3/4		3/4		3/4		3/4	
10	1,743.57	10	1,385.31	10	1,033.85	10	684.92	10	325.79	10		10		10		10		10	
1/4	1,736.09	1/4	1,377.89	1/4	1,026.71	1/4	677.44	1/4	318.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,728.61	1/2	1,370.47	1/2	1,019.57	1/2	669.96	1/2	310.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,721.13	3/4	1,363.05	3/4	1,012.42	3/4	662.48	3/4	303.34	3/4		3/4		3/4		3/4		3/4	
11	1,713.65	11	1,355.64	11	1,005.28	11	654.99	11	295.86	11		11		11		11		11	
1/4	1,706.17	1/4	1,348.22	1/4	998.13	1/4	647.51	1/4	288.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,698.69	1/2	1,340.80	1/2	990.99	1/2	640.03	1/2	280.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,691.21	3/4	1,333.38	3/4	983.84	3/4	632.55	3/4	273.42	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2022 JS
CALCULATED: 12/05/2022 CL
PRINTED: 12/06/2022 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2022

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