



# BARGE "AL 2301"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	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
4 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
4 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 = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 211'-00"

October 24, 2018

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "AL 2301"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	3,116.86	0	2,886.39	0	2,655.93	0	2,425.46	0	2,194.99	0	1,964.52	0	1,734.06
1/4		1/4		1/4		1/4	3,112.06	1/4	2,881.59	1/4	2,651.13	1/4	2,420.66	1/4	2,190.19	1/4	1,959.72	1/4	1,729.26
1/2		1/2		1/2		1/2	3,107.26	1/2	2,876.79	1/2	2,646.32	1/2	2,415.86	1/2	2,185.39	1/2	1,954.92	1/2	1,724.45
3/4		3/4		3/4		3/4	3,102.46	3/4	2,871.99	3/4	2,641.52	3/4	2,411.06	3/4	2,180.59	3/4	1,950.12	3/4	1,719.65
1		1		1		1	3,097.66	1	2,867.19	1	2,636.72	1	2,406.25	1	2,175.79	1	1,945.32	1	1,714.85
1/4		1/4		1/4		1/4	3,092.85	1/4	2,862.39	1/4	2,631.92	1/4	2,401.45	1/4	2,170.99	1/4	1,940.52	1/4	1,710.05
1/2		1/2		1/2		1/2	3,088.05	1/2	2,857.59	1/2	2,627.12	1/2	2,396.65	1/2	2,166.18	1/2	1,935.72	1/2	1,705.25
3/4		3/4		3/4		3/4	3,083.25	3/4	2,852.78	3/4	2,622.32	3/4	2,391.85	3/4	2,161.38	3/4	1,930.92	3/4	1,700.45
2		2		2		2	3,078.45	2	2,847.98	2	2,617.52	2	2,387.05	2	2,156.58	2	1,926.11	2	1,695.65
1/4		1/4		1/4		1/4	3,073.65	1/4	2,843.18	1/4	2,612.71	1/4	2,382.25	1/4	2,151.78	1/4	1,921.31	1/4	1,690.85
1/2		1/2		1/2		1/2	3,068.85	1/2	2,838.38	1/2	2,607.91	1/2	2,377.45	1/2	2,146.98	1/2	1,916.51	1/2	1,686.04
3/4		3/4		3/4		3/4	3,064.05	3/4	2,833.58	3/4	2,603.11	3/4	2,372.64	3/4	2,142.18	3/4	1,911.71	3/4	1,681.24
3		3		3		3	3,059.24	3	2,828.78	3	2,598.31	3	2,367.84	3	2,137.38	3	1,906.91	3	1,676.44
1/4		1/4		1/4		1/4	3,054.44	1/4	2,823.98	1/4	2,593.51	1/4	2,363.04	1/4	2,132.57	1/4	1,902.11	1/4	1,671.64
1/2		1/2		1/2		1/2	3,049.64	1/2	2,819.17	1/2	2,588.71	1/2	2,358.24	1/2	2,127.77	1/2	1,897.31	1/2	1,666.84
3/4		3/4		3/4		3/4	3,044.84	3/4	2,814.37	3/4	2,583.91	3/4	2,353.44	3/4	2,122.97	3/4	1,892.50	3/4	1,662.04
4		4		4		4	3,040.04	4	2,809.57	4	2,579.10	4	2,348.64	4	2,118.17	4	1,887.70	4	1,657.24
1/4		1/4		1/4		1/4	3,035.24	1/4	2,804.77	1/4	2,574.30	1/4	2,343.84	1/4	2,113.37	1/4	1,882.90	1/4	1,652.43
1/2		1/2		1/2		1/2	3,030.44	1/2	2,799.97	1/2	2,569.50	1/2	2,339.03	1/2	2,108.57	1/2	1,878.10	1/2	1,647.63
3/4		3/4		3/4		3/4	3,025.63	3/4	2,795.17	3/4	2,564.70	3/4	2,334.23	3/4	2,103.77	3/4	1,873.30	3/4	1,642.83
5		5		5		5	3,020.83	5	2,790.37	5	2,559.90	5	2,329.43	5	2,098.96	5	1,868.50	5	1,638.03
1/4		1/4		1/4		1/4	3,016.03	1/4	2,785.56	1/4	2,555.10	1/4	2,324.63	1/4	2,094.16	1/4	1,863.70	1/4	1,633.23
1/2		1/2		1/2		1/2	3,011.23	1/2	2,780.76	1/2	2,550.30	1/2	2,319.83	1/2	2,089.36	1/2	1,858.89	1/2	1,628.43
3/4		3/4		3/4		3/4	3,006.43	3/4	2,775.96	3/4	2,545.49	3/4	2,315.03	3/4	2,084.56	3/4	1,854.09	3/4	1,623.63
6		6		6		6	3,001.63	6	2,771.16	6	2,540.69	6	2,310.23	6	2,079.76	6	1,849.29	6	1,618.82
1/4		1/4		1/4		1/4	2,996.83	1/4	2,766.36	1/4	2,535.89	1/4	2,305.42	1/4	2,074.96	1/4	1,844.49	1/4	1,614.02
1/2		1/2		1/2		1/2	2,992.02	1/2	2,761.56	1/2	2,531.09	1/2	2,300.62	1/2	2,070.16	1/2	1,839.69	1/2	1,609.22
3/4		3/4		3/4		3/4	2,987.22	3/4	2,756.76	3/4	2,526.29	3/4	2,295.82	3/4	2,065.35	3/4	1,834.89	3/4	1,604.42
7		7		7	3,210.51	7	2,982.42	7	2,751.95	7	2,521.49	7	2,291.02	7	2,060.55	7	1,830.09	7	1,599.62
1/4		1/4		1/4	3,206.30	1/4	2,977.62	1/4	2,747.15	1/4	2,516.69	1/4	2,286.22	1/4	2,055.75	1/4	1,825.28	1/4	1,594.82
1/2		1/2		1/2	3,202.10	1/2	2,972.82	1/2	2,742.35	1/2	2,511.88	1/2	2,281.42	1/2	2,050.95	1/2	1,820.48	1/2	1,590.02
3/4		3/4		3/4	3,197.89	3/4	2,968.02	3/4	2,737.55	3/4	2,507.08	3/4	2,276.62	3/4	2,046.15	3/4	1,815.68	3/4	1,585.21
8		8		8	3,193.68	8	2,963.22	8	2,732.75	8	2,502.28	8	2,271.81	8	2,041.35	8	1,810.88	8	1,580.41
1/4		1/4		1/4	3,188.88	1/4	2,958.41	1/4	2,727.95	1/4	2,497.48	1/4	2,267.01	1/4	2,036.55	1/4	1,806.08	1/4	1,575.61
1/2		1/2		1/2	3,184.08	1/2	2,953.61	1/2	2,723.15	1/2	2,492.68	1/2	2,262.21	1/2	2,031.74	1/2	1,801.28	1/2	1,570.81
3/4		3/4		3/4	3,179.28	3/4	2,948.81	3/4	2,718.34	3/4	2,487.88	3/4	2,257.41	3/4	2,026.94	3/4	1,796.48	3/4	1,566.01
9		9		9	3,174.48	9	2,944.01	9	2,713.54	9	2,483.08	9	2,252.61	9	2,022.14	9	1,791.67	9	1,561.21
1/4		1/4		1/4	3,169.68	1/4	2,939.21	1/4	2,708.74	1/4	2,478.27	1/4	2,247.81	1/4	2,017.34	1/4	1,786.87	1/4	1,556.41
1/2		1/2		1/2	3,164.87	1/2	2,934.41	1/2	2,703.94	1/2	2,473.47	1/2	2,243.01	1/2	2,012.54	1/2	1,782.07	1/2	1,551.60
3/4		3/4		3/4	3,160.07	3/4	2,929.61	3/4	2,699.14	3/4	2,468.67	3/4	2,238.20	3/4	2,007.74	3/4	1,777.27	3/4	1,546.80
10		10		10	3,155.27	10	2,924.80	10	2,694.34	10	2,463.87	10	2,233.40	10	2,002.94	10	1,772.47	10	1,542.00
1/4		1/4		1/4	3,150.47	1/4	2,920.00	1/4	2,689.54	1/4	2,459.07	1/4	2,228.60	1/4	1,998.13	1/4	1,767.67	1/4	1,537.20
1/2		1/2		1/2	3,145.67	1/2	2,915.20	1/2	2,684.73	1/2	2,454.27	1/2	2,223.80	1/2	1,993.33	1/2	1,762.87	1/2	1,532.40
3/4		3/4		3/4	3,140.87	3/4	2,910.40	3/4	2,679.93	3/4	2,449.47	3/4	2,219.00	3/4	1,988.53	3/4	1,758.06	3/4	1,527.60
11		11		11	3,136.07	11	2,905.60	11	2,675.13	11	2,444.66	11	2,214.20	11	1,983.73	11	1,753.26	11	1,522.80
1/4		1/4		1/4	3,131.27	1/4	2,900.80	1/4	2,670.33	1/4	2,439.86	1/4	2,209.40	1/4	1,978.93	1/4	1,748.46	1/4	1,517.99
1/2		1/2		1/2	3,126.46	1/2	2,896.00	1/2	2,665.53	1/2	2,435.06	1/2	2,204.59	1/2	1,974.13	1/2	1,743.66	1/2	1,513.19
3/4		3/4		3/4	3,121.66	3/4	2,891.20	3/4	2,660.73	3/4	2,430.26	3/4	2,199.79	3/4	1,969.33	3/4	1,738.86	3/4	1,508.39

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "AL 2301"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	1,503.59	0	1,273.12	0	1,042.66	0	812.19	0	581.72	0	351.26	0	120.79	0		0		0	
1/4	1,498.79	1/4	1,268.32	1/4	1,037.86	1/4	807.39	1/4	576.92	1/4	346.45	1/4	115.99	1/4		1/4		1/4	
1/2	1,493.99	1/2	1,263.52	1/2	1,033.06	1/2	802.59	1/2	572.12	1/2	341.65	1/2	111.20	1/2		1/2		1/2	
3/4	1,489.19	3/4	1,258.72	3/4	1,028.26	3/4	797.79	3/4	567.32	3/4	336.85	3/4	106.40	3/4		3/4		3/4	
1	1,484.38	1	1,253.92	1	1,023.46	1	792.98	1	562.52	1	332.05	1	101.60	1		1		1	
1/4	1,479.58	1/4	1,249.12	1/4	1,018.65	1/4	788.18	1/4	557.72	1/4	327.25	1/4	96.81	1/4		1/4		1/4	
1/2	1,474.78	1/2	1,244.31	1/2	1,013.85	1/2	783.38	1/2	552.91	1/2	322.45	1/2	92.02	1/2		1/2		1/2	
3/4	1,469.98	3/4	1,239.51	3/4	1,009.05	3/4	778.58	3/4	548.11	3/4	317.65	3/4	87.23	3/4		3/4		3/4	
2	1,465.18	2	1,234.71	2	1,004.25	2	773.78	2	543.31	2	312.84	2	82.44	2		2		2	
1/4	1,460.38	1/4	1,229.91	1/4	999.44	1/4	768.98	1/4	538.51	1/4	308.04	1/4	77.66	1/4		1/4		1/4	
1/2	1,455.58	1/2	1,225.11	1/2	994.64	1/2	764.18	1/2	533.71	1/2	303.24	1/2	72.88	1/2		1/2		1/2	
3/4	1,450.78	3/4	1,220.31	3/4	989.84	3/4	759.37	3/4	528.91	3/4	298.44	3/4	68.10	3/4		3/4		3/4	
3	1,445.97	3	1,215.51	3	985.04	3	754.57	3	524.11	3	293.64	3	63.32	3		3		3	
1/4	1,441.17	1/4	1,210.71	1/4	980.24	1/4	749.77	1/4	519.30	1/4	288.84	1/4	58.56	1/4		1/4		1/4	
1/2	1,436.37	1/2	1,205.90	1/2	975.44	1/2	744.97	1/2	514.50	1/2	284.04	1/2	53.80	1/2		1/2		1/2	
3/4	1,431.57	3/4	1,201.10	3/4	970.64	3/4	740.17	3/4	509.70	3/4	279.23	3/4	49.04	3/4		3/4		3/4	
4	1,426.77	4	1,196.30	4	965.83	4	735.37	4	504.90	4	274.43	4	44.27	4		4		4	
1/4	1,421.97	1/4	1,191.50	1/4	961.03	1/4	730.57	1/4	500.10	1/4	269.63	1/4	39.72	1/4		1/4		1/4	
1/2	1,417.17	1/2	1,186.70	1/2	956.23	1/2	725.76	1/2	495.30	1/2	264.83	1/2	35.16	1/2		1/2		1/2	
3/4	1,412.36	3/4	1,181.90	3/4	951.43	3/4	720.96	3/4	490.50	3/4	260.03	3/4	30.61	3/4		3/4		3/4	
5	1,407.56	5	1,177.10	5	946.63	5	716.16	5	485.69	5	255.23	5	26.05	5		5		5	
1/4	1,402.76	1/4	1,172.29	1/4	941.83	1/4	711.36	1/4	480.89	1/4	250.43	1/4	22.45	1/4		1/4		1/4	
1/2	1,397.96	1/2	1,167.49	1/2	937.03	1/2	706.56	1/2	476.09	1/2	245.62	1/2	18.85	1/2		1/2		1/2	
3/4	1,393.16	3/4	1,162.69	3/4	932.22	3/4	701.76	3/4	471.29	3/4	240.82	3/4	15.25	3/4		3/4		3/4	
6	1,388.36	6	1,157.89	6	927.42	6	696.96	6	466.49	6	236.02	6	11.65	6		6		6	
1/4	1,383.56	1/4	1,153.09	1/4	922.62	1/4	692.15	1/4	461.69	1/4	231.22	1/4		1/4		1/4		1/4	
1/2	1,378.75	1/2	1,148.29	1/2	917.82	1/2	687.35	1/2	456.89	1/2	226.42	1/2		1/2		1/2		1/2	
3/4	1,373.95	3/4	1,143.49	3/4	913.02	3/4	682.55	3/4	452.08	3/4	221.62	3/4		3/4		3/4		3/4	
7	1,369.15	7	1,138.68	7	908.22	7	677.75	7	447.28	7	216.82	7		7		7		7	
1/4	1,364.35	1/4	1,133.88	1/4	903.42	1/4	672.95	1/4	442.48	1/4	212.01	1/4		1/4		1/4		1/4	
1/2	1,359.55	1/2	1,129.08	1/2	898.61	1/2	668.15	1/2	437.68	1/2	207.21	1/2		1/2		1/2		1/2	
3/4	1,354.75	3/4	1,124.28	3/4	893.81	3/4	663.35	3/4	432.88	3/4	202.41	3/4		3/4		3/4		3/4	
8	1,349.95	8	1,119.48	8	889.01	8	658.54	8	428.08	8	197.61	8		8		8		8	
1/4	1,345.14	1/4	1,114.68	1/4	884.21	1/4	653.74	1/4	423.28	1/4	192.81	1/4		1/4		1/4		1/4	
1/2	1,340.34	1/2	1,109.88	1/2	879.41	1/2	648.94	1/2	418.47	1/2	188.01	1/2		1/2		1/2		1/2	
3/4	1,335.54	3/4	1,105.07	3/4	874.61	3/4	644.14	3/4	413.67	3/4	183.21	3/4		3/4		3/4		3/4	
9	1,330.74	9	1,100.27	9	869.81	9	639.34	9	408.87	9	178.41	9		9		9		9	
1/4	1,325.94	1/4	1,095.47	1/4	865.01	1/4	634.54	1/4	404.07	1/4	173.61	1/4		1/4		1/4		1/4	
1/2	1,321.14	1/2	1,090.67	1/2	860.20	1/2	629.74	1/2	399.27	1/2	168.81	1/2		1/2		1/2		1/2	
3/4	1,316.34	3/4	1,085.87	3/4	855.40	3/4	624.94	3/4	394.47	3/4	164.00	3/4		3/4		3/4		3/4	
10	1,311.53	10	1,081.07	10	850.60	10	620.13	10	389.67	10	159.20	10		10		10		10	
1/4	1,306.73	1/4	1,076.27	1/4	845.80	1/4	615.33	1/4	384.87	1/4	154.40	1/4		1/4		1/4		1/4	
1/2	1,301.93	1/2	1,071.46	1/2	841.00	1/2	610.53	1/2	380.06	1/2	149.60	1/2		1/2		1/2		1/2	
3/4	1,297.13	3/4	1,066.66	3/4	836.20	3/4	605.73	3/4	375.26	3/4	144.80	3/4		3/4		3/4		3/4	
11	1,292.33	11	1,061.86	11	831.40	11	600.93	11	370.46	11	140.00	11		11		11		11	
1/4	1,287.53	1/4	1,057.06	1/4	826.59	1/4	596.13	1/4	365.66	1/4	135.19	1/4		1/4		1/4		1/4	
1/2	1,282.73	1/2	1,052.26	1/2	821.79	1/2	591.33	1/2	360.86	1/2	130.39	1/2		1/2		1/2		1/2	
3/4	1,277.92	3/4	1,047.46	3/4	816.99	3/4	586.52	3/4	356.06	3/4	125.59	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	3,118.23	0	2,887.66	0	2,657.09	0	2,426.52	0	2,195.95	0	1,965.39	0	1,734.82
1/4	1/4		1/4		1/4	1/4	3,113.42	1/4	2,882.85	1/4	2,652.29	1/4	2,421.72	1/4	2,191.15	1/4	1,960.58	1/4	1,730.01
1/2	1/2		1/2		1/2	1/2	3,108.62	1/2	2,878.05	1/2	2,647.48	1/2	2,416.92	1/2	2,186.35	1/2	1,955.78	1/2	1,725.21
3/4	3/4		3/4		3/4	3/4	3,103.82	3/4	2,873.25	3/4	2,642.68	3/4	2,412.11	3/4	2,181.54	3/4	1,950.98	3/4	1,720.41
1		1		1		1	3,099.01	1	2,868.44	1	2,637.88	1	2,407.31	1	2,176.74	1	1,946.17	1	1,715.60
1/4	1/4		1/4		1/4	1/4	3,094.21	1/4	2,863.64	1/4	2,633.07	1/4	2,402.50	1/4	2,171.94	1/4	1,941.37	1/4	1,710.80
1/2	1/2		1/2		1/2	1/2	3,089.41	1/2	2,858.84	1/2	2,628.27	1/2	2,397.70	1/2	2,167.13	1/2	1,936.57	1/2	1,706.00
3/4	3/4		3/4		3/4	3/4	3,084.60	3/4	2,854.03	3/4	2,623.47	3/4	2,392.90	3/4	2,162.33	3/4	1,931.76	3/4	1,701.19
2		2		2		2	3,079.80	2	2,849.23	2	2,618.66	2	2,388.09	2	2,157.53	2	1,926.96	2	1,696.39
1/4	1/4		1/4		1/4	1/4	3,074.99	1/4	2,844.43	1/4	2,613.86	1/4	2,383.29	1/4	2,152.72	1/4	1,922.15	1/4	1,691.59
1/2	1/2		1/2		1/2	1/2	3,070.19	1/2	2,839.62	1/2	2,609.06	1/2	2,378.49	1/2	2,147.92	1/2	1,917.35	1/2	1,686.78
3/4	3/4		3/4		3/4	3/4	3,065.39	3/4	2,834.82	3/4	2,604.25	3/4	2,373.68	3/4	2,143.12	3/4	1,912.55	3/4	1,681.98
3		3		3		3	3,060.58	3	2,830.02	3	2,599.45	3	2,368.88	3	2,138.31	3	1,907.74	3	1,677.18
1/4	1/4		1/4		1/4	1/4	3,055.78	1/4	2,825.21	1/4	2,594.64	1/4	2,364.08	1/4	2,133.51	1/4	1,902.94	1/4	1,672.37
1/2	1/2		1/2		1/2	1/2	3,050.98	1/2	2,820.41	1/2	2,589.84	1/2	2,359.27	1/2	2,128.71	1/2	1,898.14	1/2	1,667.57
3/4	3/4		3/4		3/4	3/4	3,046.17	3/4	2,815.61	3/4	2,585.04	3/4	2,354.47	3/4	2,123.90	3/4	1,893.33	3/4	1,662.77
4		4		4		4	3,041.37	4	2,810.80	4	2,580.23	4	2,349.67	4	2,119.10	4	1,888.53	4	1,657.96
1/4	1/4		1/4		1/4	1/4	3,036.57	1/4	2,806.00	1/4	2,575.43	1/4	2,344.86	1/4	2,114.29	1/4	1,883.73	1/4	1,653.16
1/2	1/2		1/2		1/2	1/2	3,031.76	1/2	2,801.20	1/2	2,570.63	1/2	2,340.06	1/2	2,109.49	1/2	1,878.92	1/2	1,648.36
3/4	3/4		3/4		3/4	3/4	3,026.96	3/4	2,796.39	3/4	2,565.82	3/4	2,335.26	3/4	2,104.69	3/4	1,874.12	3/4	1,643.55
5		5		5		5	3,022.16	5	2,791.59	5	2,561.02	5	2,330.45	5	2,099.88	5	1,869.32	5	1,638.75
1/4	1/4		1/4		1/4	1/4	3,017.35	1/4	2,786.78	1/4	2,556.22	1/4	2,325.65	1/4	2,095.08	1/4	1,864.51	1/4	1,633.94
1/2	1/2		1/2		1/2	1/2	3,012.55	1/2	2,781.98	1/2	2,551.41	1/2	2,320.85	1/2	2,090.28	1/2	1,859.71	1/2	1,629.14
3/4	3/4		3/4		3/4	3/4	3,007.75	3/4	2,777.18	3/4	2,546.61	3/4	2,316.04	3/4	2,085.47	3/4	1,854.91	3/4	1,624.34
6		6		6		6	3,002.94	6	2,772.37	6	2,541.81	6	2,311.24	6	2,080.67	6	1,850.10	6	1,619.53
1/4	1/4		1/4		1/4	1/4	2,998.14	1/4	2,767.57	1/4	2,537.00	1/4	2,306.43	1/4	2,075.87	1/4	1,845.30	1/4	1,614.73
1/2	1/2		1/2		1/2	1/2	2,993.34	1/2	2,762.77	1/2	2,532.20	1/2	2,301.63	1/2	2,071.06	1/2	1,840.50	1/2	1,609.93
3/4	3/4		3/4		3/4	3/4	2,988.53	3/4	2,757.96	3/4	2,527.40	3/4	2,296.83	3/4	2,066.26	3/4	1,835.69	3/4	1,605.12
7		7		7	3,211.93	7	2,983.73	7	2,753.16	7	2,522.59	7	2,292.02	7	2,061.46	7	1,830.89	7	1,600.32
1/4	1/4		1/4		1/4	1/4	3,207.72	1/4	2,978.92	1/4	2,748.36	1/4	2,517.79	1/4	2,287.22	1/4	2,056.65	1/4	1,595.52
1/2	1/2		1/2		1/2	1/2	3,203.51	1/2	2,974.12	1/2	2,743.55	1/2	2,512.99	1/2	2,282.42	1/2	2,051.85	1/2	1,591.71
3/4	3/4		3/4		3/4	3/4	3,199.29	3/4	2,969.32	3/4	2,738.75	3/4	2,508.18	3/4	2,277.61	3/4	2,047.05	3/4	1,587.91
8		8		8	3,195.08	8	2,964.51	8	2,733.95	8	2,503.38	8	2,272.81	8	2,042.24	8	1,811.67	8	1,581.11
1/4	1/4		1/4		1/4	1/4	3,190.28	1/4	2,959.71	1/4	2,729.14	1/4	2,498.57	1/4	2,268.01	1/4	2,037.44	1/4	1,576.30
1/2	1/2		1/2		1/2	1/2	3,185.48	1/2	2,954.91	1/2	2,724.34	1/2	2,493.77	1/2	2,263.20	1/2	2,032.64	1/2	1,571.50
3/4	3/4		3/4		3/4	3/4	3,180.67	3/4	2,950.10	3/4	2,719.54	3/4	2,488.97	3/4	2,258.40	3/4	2,027.83	3/4	1,566.70
9		9		9	3,175.87	9	2,945.30	9	2,714.73	9	2,484.16	9	2,253.60	9	2,023.03	9	1,792.46	9	1,561.89
1/4	1/4		1/4		1/4	1/4	3,171.06	1/4	2,940.50	1/4	2,709.93	1/4	2,479.36	1/4	2,248.79	1/4	2,018.22	1/4	1,557.09
1/2	1/2		1/2		1/2	1/2	3,166.26	1/2	2,935.69	1/2	2,705.13	1/2	2,474.56	1/2	2,243.99	1/2	2,013.42	1/2	1,552.29
3/4	3/4		3/4		3/4	3/4	3,161.46	3/4	2,930.89	3/4	2,700.32	3/4	2,469.75	3/4	2,239.19	3/4	2,008.62	3/4	1,547.48
10		10		10	3,156.65	10	2,926.09	10	2,695.52	10	2,464.95	10	2,234.38	10	2,003.81	10	1,773.25	10	1,542.68
1/4	1/4		1/4		1/4	1/4	3,151.85	1/4	2,921.28	1/4	2,690.71	1/4	2,460.15	1/4	2,229.58	1/4	1,999.01	1/4	1,537.87
1/2	1/2		1/2		1/2	1/2	3,147.05	1/2	2,916.48	1/2	2,685.91	1/2	2,455.34	1/2	2,224.78	1/2	1,994.21	1/2	1,533.07
3/4	3/4		3/4		3/4	3/4	3,142.24	3/4	2,911.68	3/4	2,681.11	3/4	2,450.54	3/4	2,219.97	3/4	1,989.40	3/4	1,528.27
11		11		11	3,137.44	11	2,906.87	11	2,676.30	11	2,445.74	11	2,215.17	11	1,984.60	11	1,754.03	11	1,523.46
1/4	1/4		1/4		1/4	1/4	3,132.64	1/4	2,902.07	1/4	2,671.50	1/4	2,440.93	1/4	1,979.80	1/4	1,749.23	1/4	1,518.66
1/2	1/2		1/2		1/2	1/2	3,127.83	1/2	2,897.27	1/2	2,666.70	1/2	2,436.13	1/2	1,974.99	1/2	1,744.43	1/2	1,513.86
3/4	3/4		3/4		3/4	3/4	3,123.03	3/4	2,892.46	3/4	2,661.89	3/4	2,431.33	3/4	1,970.19	3/4	1,739.62	3/4	1,509.05

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "AL 2301"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	1,504.25	0	1,273.68	0	1,043.12	0	812.55	0	581.98	0	351.41	0	120.84	0		0		0	
1/4	1,499.45	1/4	1,268.88	1/4	1,038.31	1/4	807.75	1/4	577.18	1/4	346.61	1/4	116.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,494.64	1/2	1,264.08	1/2	1,033.51	1/2	802.95	1/2	572.37	1/2	341.80	1/2	111.24	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,489.84	3/4	1,259.27	3/4	1,028.71	3/4	798.14	3/4	567.57	3/4	337.00	3/4	106.44	3/4	3/4	3/4	3/4	3/4	3/4
1	1,485.04	1	1,254.47	1	1,023.91	1	793.34	1	562.77	1	332.19	1	101.64	1	1	1	1	1	1
1/4	1,480.23	1/4	1,249.66	1/4	1,019.10	1/4	788.54	1/4	557.96	1/4	327.39	1/4	96.85	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,475.43	1/2	1,244.86	1/2	1,014.30	1/2	783.73	1/2	553.16	1/2	322.59	1/2	92.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,470.63	3/4	1,240.06	3/4	1,009.50	3/4	778.93	3/4	548.36	3/4	317.78	3/4	87.26	3/4	3/4	3/4	3/4	3/4	3/4
2	1,465.82	2	1,235.25	2	1,004.70	2	774.13	2	543.55	2	312.98	2	82.47	2	2	2	2	2	2
1/4	1,461.02	1/4	1,230.45	1/4	999.90	1/4	769.32	1/4	538.75	1/4	308.18	1/4	77.69	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,456.22	1/2	1,225.65	1/2	995.09	1/2	764.52	1/2	533.95	1/2	303.37	1/2	72.91	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,451.41	3/4	1,220.84	3/4	990.29	3/4	759.72	3/4	529.14	3/4	298.57	3/4	68.13	3/4	3/4	3/4	3/4	3/4	3/4
3	1,446.61	3	1,216.04	3	985.48	3	754.91	3	524.34	3	293.77	3	63.35	3	3	3	3	3	3
1/4	1,441.80	1/4	1,211.24	1/4	980.68	1/4	750.11	1/4	519.54	1/4	288.96	1/4	58.58	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,437.00	1/2	1,206.43	1/2	975.88	1/2	745.30	1/2	514.73	1/2	284.16	1/2	53.82	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,432.20	3/4	1,201.63	3/4	971.07	3/4	740.50	3/4	509.93	3/4	279.36	3/4	49.05	3/4	3/4	3/4	3/4	3/4	3/4
4	1,427.39	4	1,196.83	4	966.27	4	735.70	4	505.12	4	274.55	4	44.29	4	4	4	4	4	4
1/4	1,422.59	1/4	1,192.02	1/4	961.47	1/4	730.89	1/4	500.32	1/4	269.75	1/4	39.73	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,417.79	1/2	1,187.22	1/2	956.66	1/2	726.09	1/2	495.52	1/2	264.94	1/2	35.18	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,412.98	3/4	1,182.42	3/4	951.86	3/4	721.29	3/4	490.71	3/4	260.14	3/4	30.62	3/4	3/4	3/4	3/4	3/4	3/4
5	1,408.18	5	1,177.61	5	947.06	5	716.48	5	485.91	5	255.34	5	26.06	5	5	5	5	5	5
1/4	1,403.38	1/4	1,172.81	1/4	942.25	1/4	711.68	1/4	481.11	1/4	250.53	1/4	22.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,398.57	1/2	1,168.01	1/2	937.45	1/2	706.88	1/2	476.30	1/2	245.73	1/2	18.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,393.77	3/4	1,163.20	3/4	932.64	3/4	702.07	3/4	471.50	3/4	240.93	3/4	15.26	3/4	3/4	3/4	3/4	3/4	3/4
6	1,388.97	6	1,158.40	6	927.84	6	697.27	6	466.70	6	236.12	6	11.66	6	6	6	6	6	6
1/4	1,384.16	1/4	1,153.59	1/4	923.04	1/4	692.46	1/4	461.89	1/4	231.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,379.36	1/2	1,148.79	1/2	918.23	1/2	687.66	1/2	457.09	1/2	226.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,374.56	3/4	1,143.99	3/4	913.43	3/4	682.86	3/4	452.28	3/4	221.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,369.75	7	1,139.18	7	908.63	7	678.05	7	447.48	7	216.91	7		7	7	7	7	7	7
1/4	1,364.95	1/4	1,134.38	1/4	903.82	1/4	673.25	1/4	442.68	1/4	212.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,360.15	1/2	1,129.58	1/2	899.02	1/2	668.45	1/2	437.87	1/2	207.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,355.34	3/4	1,124.77	3/4	894.22	3/4	663.64	3/4	433.07	3/4	202.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,350.54	8	1,119.97	8	889.41	8	658.84	8	428.27	8	197.70	8		8	8	8	8	8	8
1/4	1,345.73	1/4	1,115.17	1/4	884.61	1/4	654.04	1/4	423.46	1/4	192.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,340.93	1/2	1,110.36	1/2	879.81	1/2	649.23	1/2	418.66	1/2	188.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,336.13	3/4	1,105.56	3/4	875.00	3/4	644.43	3/4	413.86	3/4	183.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,331.32	9	1,100.76	9	870.20	9	639.63	9	409.05	9	178.48	9		9	9	9	9	9	9
1/4	1,326.52	1/4	1,095.95	1/4	865.39	1/4	634.82	1/4	404.25	1/4	173.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,321.72	1/2	1,091.15	1/2	860.59	1/2	630.02	1/2	399.45	1/2	168.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,316.91	3/4	1,086.35	3/4	855.79	3/4	625.21	3/4	394.64	3/4	164.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,312.11	10	1,081.54	10	850.98	10	620.41	10	389.84	10	159.27	10		10	10	10	10	10	10
1/4	1,307.31	1/4	1,076.74	1/4	846.18	1/4	615.61	1/4	385.03	1/4	154.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,302.50	1/2	1,071.94	1/2	841.38	1/2	610.80	1/2	380.23	1/2	149.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,297.70	3/4	1,067.13	3/4	836.57	3/4	606.00	3/4	375.43	3/4	144.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,292.90	11	1,062.33	11	831.77	11	601.20	11	370.62	11	140.05	11		11	11	11	11	11	11
1/4	1,288.09	1/4	1,057.53	1/4	826.97	1/4	596.39	1/4	365.82	1/4	135.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,283.29	1/2	1,052.72	1/2	822.16	1/2	591.59	1/2	361.02	1/2	130.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,278.49	3/4	1,047.92	3/4	817.36	3/4	586.79	3/4	356.21	3/4	125.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	3,131.59	0	2,900.03	0	2,668.48	0	2,436.92	0	2,205.36	0	1,973.81	0	1,742.25
1/4		1/4		1/4		1/4	3,126.77	1/4	2,895.21	1/4	2,663.65	1/4	2,432.10	1/4	2,200.54	1/4	1,968.98	1/4	1,737.42
1/2		1/2		1/2		1/2	3,121.94	1/2	2,890.38	1/2	2,658.83	1/2	2,427.27	1/2	2,195.71	1/2	1,964.16	1/2	1,732.60
3/4		3/4		3/4		3/4	3,117.12	3/4	2,885.56	3/4	2,654.00	3/4	2,422.45	3/4	2,190.89	3/4	1,959.33	3/4	1,727.78
1		1		1		1	3,112.29	1	2,880.74	1	2,649.18	1	2,417.62	1	2,186.07	1	1,954.51	1	1,722.95
1/4		1/4		1/4		1/4	3,107.47	1/4	2,875.91	1/4	2,644.36	1/4	2,412.80	1/4	2,181.24	1/4	1,949.69	1/4	1,718.13
1/2		1/2		1/2		1/2	3,102.65	1/2	2,871.09	1/2	2,639.53	1/2	2,407.97	1/2	2,176.42	1/2	1,944.86	1/2	1,713.30
3/4		3/4		3/4		3/4	3,097.82	3/4	2,866.26	3/4	2,634.71	3/4	2,403.15	3/4	2,171.59	3/4	1,940.04	3/4	1,708.48
2		2		2		2	3,093.00	2	2,861.44	2	2,629.88	2	2,398.33	2	2,166.77	2	1,935.21	2	1,703.66
1/4		1/4		1/4		1/4	3,088.17	1/4	2,856.62	1/4	2,625.06	1/4	2,393.50	1/4	2,161.95	1/4	1,930.39	1/4	1,698.83
1/2		1/2		1/2		1/2	3,083.35	1/2	2,851.79	1/2	2,620.24	1/2	2,388.68	1/2	2,157.12	1/2	1,925.56	1/2	1,694.01
3/4		3/4		3/4		3/4	3,078.52	3/4	2,846.97	3/4	2,615.41	3/4	2,383.85	3/4	2,152.30	3/4	1,920.74	3/4	1,689.18
3		3		3		3	3,073.70	3	2,842.14	3	2,610.59	3	2,379.03	3	2,147.47	3	1,915.92	3	1,684.36
1/4		1/4		1/4		1/4	3,068.88	1/4	2,837.32	1/4	2,605.76	1/4	2,374.21	1/4	2,142.65	1/4	1,911.09	1/4	1,679.54
1/2		1/2		1/2		1/2	3,064.05	1/2	2,832.50	1/2	2,600.94	1/2	2,369.38	1/2	2,137.83	1/2	1,906.27	1/2	1,674.71
3/4		3/4		3/4		3/4	3,059.23	3/4	2,827.67	3/4	2,596.11	3/4	2,364.56	3/4	2,133.00	3/4	1,901.44	3/4	1,669.89
4		4		4		4	3,054.40	4	2,822.85	4	2,591.29	4	2,359.73	4	2,128.18	4	1,896.62	4	1,665.06
1/4		1/4		1/4		1/4	3,049.58	1/4	2,818.02	1/4	2,586.47	1/4	2,354.91	1/4	2,123.35	1/4	1,891.80	1/4	1,660.24
1/2		1/2		1/2		1/2	3,044.76	1/2	2,813.20	1/2	2,581.64	1/2	2,350.09	1/2	2,118.53	1/2	1,886.97	1/2	1,655.42
3/4		3/4		3/4		3/4	3,039.93	3/4	2,808.37	3/4	2,576.82	3/4	2,345.26	3/4	2,113.70	3/4	1,882.15	3/4	1,650.59
5		5		5		5	3,035.11	5	2,803.55	5	2,571.99	5	2,340.44	5	2,108.88	5	1,877.32	5	1,645.77
1/4		1/4		1/4		1/4	3,030.28	1/4	2,798.73	1/4	2,567.17	1/4	2,335.61	1/4	2,104.06	1/4	1,872.50	1/4	1,640.94
1/2		1/2		1/2		1/2	3,025.46	1/2	2,793.90	1/2	2,562.35	1/2	2,330.79	1/2	2,099.23	1/2	1,867.68	1/2	1,636.12
3/4		3/4		3/4		3/4	3,020.64	3/4	2,789.08	3/4	2,557.52	3/4	2,325.96	3/4	2,094.41	3/4	1,862.85	3/4	1,631.29
6		6		6		6	3,015.81	6	2,784.25	6	2,552.70	6	2,321.14	6	2,089.58	6	1,858.03	6	1,626.47
1/4		1/4		1/4		1/4	3,010.99	1/4	2,779.43	1/4	2,547.87	1/4	2,316.32	1/4	2,084.76	1/4	1,853.20	1/4	1,621.65
1/2		1/2		1/2		1/2	3,006.16	1/2	2,774.61	1/2	2,543.05	1/2	2,311.49	1/2	2,079.94	1/2	1,848.38	1/2	1,616.82
3/4		3/4		3/4		3/4	3,001.34	3/4	2,769.78	3/4	2,538.23	3/4	2,306.67	3/4	2,075.11	3/4	1,843.55	3/4	1,612.00
7		7		7		7	3,225.68	7	2,996.51	7	2,764.96	7	2,533.40	7	2,301.84	7	2,070.29	7	1,838.73
1/4		1/4		1/4		1/4	3,221.45	1/4	2,991.69	1/4	2,760.13	1/4	2,528.58	1/4	2,297.02	1/4	2,065.46	1/4	1,833.91
1/2		1/2		1/2		1/2	3,217.23	1/2	2,986.87	1/2	2,755.31	1/2	2,523.75	1/2	2,292.20	1/2	2,060.64	1/2	1,829.08
3/4		3/4		3/4		3/4	3,213.00	3/4	2,982.04	3/4	2,750.49	3/4	2,518.93	3/4	2,287.37	3/4	2,055.82	3/4	1,824.26
8		8		8		8	3,208.78	8	2,977.22	8	2,745.66	8	2,514.10	8	2,282.55	8	2,050.99	8	1,819.43
1/4		1/4		1/4		1/4	3,203.95	1/4	2,972.39	1/4	2,740.84	1/4	2,509.28	1/4	2,277.72	1/4	2,046.17	1/4	1,814.61
1/2		1/2		1/2		1/2	3,199.13	1/2	2,967.57	1/2	2,736.01	1/2	2,504.46	1/2	2,272.90	1/2	2,041.34	1/2	1,809.79
3/4		3/4		3/4		3/4	3,194.30	3/4	2,962.75	3/4	2,731.19	3/4	2,499.63	3/4	2,268.08	3/4	2,036.52	3/4	1,804.96
9		9		9		9	3,189.48	9	2,957.92	9	2,726.37	9	2,494.81	9	2,263.25	9	2,031.69	9	1,800.14
1/4		1/4		1/4		1/4	3,184.65	1/4	2,953.10	1/4	2,721.54	1/4	2,489.98	1/4	2,258.43	1/4	2,026.87	1/4	1,795.31
1/2		1/2		1/2		1/2	3,179.83	1/2	2,948.27	1/2	2,716.72	1/2	2,485.16	1/2	2,253.60	1/2	2,022.05	1/2	1,790.49
3/4		3/4		3/4		3/4	3,175.01	3/4	2,943.45	3/4	2,711.89	3/4	2,480.34	3/4	2,248.78	3/4	2,017.22	3/4	1,785.67
10		10		10		10	3,170.18	10	2,938.63	10	2,707.07	10	2,475.51	10	2,243.96	10	2,012.40	10	1,780.84
1/4		1/4		1/4		1/4	3,165.36	1/4	2,933.80	1/4	2,702.24	1/4	2,470.69	1/4	2,239.13	1/4	2,007.57	1/4	1,776.02
1/2		1/2		1/2		1/2	3,160.53	1/2	2,928.98	1/2	2,697.42	1/2	2,465.86	1/2	2,234.31	1/2	2,002.75	1/2	1,771.19
3/4		3/4		3/4		3/4	3,155.71	3/4	2,924.15	3/4	2,692.60	3/4	2,461.04	3/4	2,229.48	3/4	1,997.93	3/4	1,766.37
11		11		11		11	3,150.89	11	2,919.33	11	2,687.77	11	2,456.22	11	2,224.66	11	1,993.10	11	1,761.55
1/4		1/4		1/4		1/4	3,146.06	1/4	2,914.51	1/4	2,682.95	1/4	2,451.39	1/4	2,219.83	1/4	1,988.28	1/4	1,756.72
1/2		1/2		1/2		1/2	3,141.24	1/2	2,909.68	1/2	2,678.12	1/2	2,446.57	1/2	2,215.01	1/2	1,983.45	1/2	1,751.90
3/4		3/4		3/4		3/4	3,136.41	3/4	2,904.86	3/4	2,673.30	3/4	2,441.74	3/4	2,210.19	3/4	1,978.63	3/4	1,747.07

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "AL 2301"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	1,510.69	0	1,279.14	0	1,047.58	0	816.02	0	584.47	0	352.91	0	121.36	0		0		0	
1/4	1,505.87	1/4	1,274.31	1/4	1,042.76	1/4	811.20	1/4	579.64	1/4	348.09	1/4	116.54	1/4		1/4		1/4	
1/2	1,501.04	1/2	1,269.49	1/2	1,037.94	1/2	806.37	1/2	574.82	1/2	343.26	1/2	111.72	1/2		1/2		1/2	
3/4	1,496.22	3/4	1,264.66	3/4	1,033.11	3/4	801.55	3/4	569.99	3/4	338.44	3/4	106.90	3/4		3/4		3/4	
1	1,491.40	1	1,259.84	1	1,028.29	1	796.73	1	565.17	1	333.61	1	102.07	1		1		1	
1/4	1,486.57	1/4	1,255.01	1/4	1,023.46	1/4	791.90	1/4	560.35	1/4	328.79	1/4	97.26	1/4		1/4		1/4	
1/2	1,481.75	1/2	1,250.19	1/2	1,018.64	1/2	787.08	1/2	555.52	1/2	323.96	1/2	92.45	1/2		1/2		1/2	
3/4	1,476.92	3/4	1,245.37	3/4	1,013.81	3/4	782.25	3/4	550.70	3/4	319.14	3/4	87.63	3/4		3/4		3/4	
2	1,472.10	2	1,240.54	2	1,008.99	2	777.43	2	545.87	2	314.32	2	82.82	2		2		2	
1/4	1,467.28	1/4	1,235.72	1/4	1,004.16	1/4	772.61	1/4	541.05	1/4	309.49	1/4	78.02	1/4		1/4		1/4	
1/2	1,462.45	1/2	1,230.89	1/2	999.34	1/2	767.78	1/2	536.23	1/2	304.67	1/2	73.22	1/2		1/2		1/2	
3/4	1,457.63	3/4	1,226.07	3/4	994.51	3/4	762.96	3/4	531.40	3/4	299.84	3/4	68.42	3/4		3/4		3/4	
3	1,452.80	3	1,221.25	3	989.69	3	758.13	3	526.58	3	295.02	3	63.61	3		3		3	
1/4	1,447.98	1/4	1,216.42	1/4	984.87	1/4	753.31	1/4	521.75	1/4	290.20	1/4	58.83	1/4		1/4		1/4	
1/2	1,443.15	1/2	1,211.60	1/2	980.04	1/2	748.49	1/2	516.93	1/2	285.37	1/2	54.05	1/2		1/2		1/2	
3/4	1,438.33	3/4	1,206.77	3/4	975.22	3/4	743.66	3/4	512.10	3/4	280.55	3/4	49.26	3/4		3/4		3/4	
4	1,433.51	4	1,201.95	4	970.39	4	738.84	4	507.28	4	275.72	4	44.48	4		4		4	
1/4	1,428.68	1/4	1,197.13	1/4	965.57	1/4	734.01	1/4	502.46	1/4	270.90	1/4	39.90	1/4		1/4		1/4	
1/2	1,423.86	1/2	1,192.30	1/2	960.75	1/2	729.19	1/2	497.63	1/2	266.08	1/2	35.32	1/2		1/2		1/2	
3/4	1,419.03	3/4	1,187.48	3/4	955.92	3/4	724.36	3/4	492.81	3/4	261.25	3/4	30.75	3/4		3/4		3/4	
5	1,414.21	5	1,182.65	5	951.10	5	719.54	5	487.98	5	256.43	5	26.17	5		5		5	
1/4	1,409.39	1/4	1,177.83	1/4	946.27	1/4	714.72	1/4	483.16	1/4	251.60	1/4	22.55	1/4		1/4		1/4	
1/2	1,404.56	1/2	1,173.01	1/2	941.45	1/2	709.89	1/2	478.34	1/2	246.78	1/2	18.94	1/2		1/2		1/2	
3/4	1,399.74	3/4	1,168.18	3/4	936.63	3/4	705.07	3/4	473.51	3/4	241.95	3/4	15.32	3/4		3/4		3/4	
6	1,394.91	6	1,163.36	6	931.80	6	700.24	6	468.69	6	237.13	6	11.70	6		6		6	
1/4	1,390.09	1/4	1,158.53	1/4	926.98	1/4	695.42	1/4	463.86	1/4	232.31	1/4		1/4		1/4		1/4	
1/2	1,385.27	1/2	1,153.71	1/2	922.15	1/2	690.60	1/2	459.04	1/2	227.48	1/2		1/2		1/2		1/2	
3/4	1,380.44	3/4	1,148.88	3/4	917.33	3/4	685.77	3/4	454.22	3/4	222.66	3/4		3/4		3/4		3/4	
7	1,375.62	7	1,144.06	7	912.50	7	680.95	7	449.39	7	217.83	7		7		7		7	
1/4	1,370.79	1/4	1,139.24	1/4	907.68	1/4	676.12	1/4	444.57	1/4	213.01	1/4		1/4		1/4		1/4	
1/2	1,365.97	1/2	1,134.41	1/2	902.86	1/2	671.30	1/2	439.74	1/2	208.19	1/2		1/2		1/2		1/2	
3/4	1,361.14	3/4	1,129.59	3/4	898.03	3/4	666.48	3/4	434.92	3/4	203.36	3/4		3/4		3/4		3/4	
8	1,356.32	8	1,124.76	8	893.21	8	661.65	8	430.09	8	198.54	8		8		8		8	
1/4	1,351.50	1/4	1,119.94	1/4	888.38	1/4	656.83	1/4	425.27	1/4	193.72	1/4		1/4		1/4		1/4	
1/2	1,346.67	1/2	1,115.12	1/2	883.56	1/2	652.00	1/2	420.45	1/2	188.89	1/2		1/2		1/2		1/2	
3/4	1,341.85	3/4	1,110.29	3/4	878.74	3/4	647.18	3/4	415.62	3/4	184.07	3/4		3/4		3/4		3/4	
9	1,337.02	9	1,105.47	9	873.91	9	642.36	9	410.80	9	179.24	9		9		9		9	
1/4	1,332.20	1/4	1,100.64	1/4	869.09	1/4	637.53	1/4	405.97	1/4	174.42	1/4		1/4		1/4		1/4	
1/2	1,327.38	1/2	1,095.82	1/2	864.26	1/2	632.71	1/2	401.15	1/2	169.60	1/2		1/2		1/2		1/2	
3/4	1,322.55	3/4	1,091.00	3/4	859.44	3/4	627.88	3/4	396.33	3/4	164.77	3/4		3/4		3/4		3/4	
10	1,317.73	10	1,086.17	10	854.62	10	623.06	10	391.50	10	159.95	10		10		10		10	
1/4	1,312.90	1/4	1,081.35	1/4	849.79	1/4	618.23	1/4	386.68	1/4	155.12	1/4		1/4		1/4		1/4	
1/2	1,308.08	1/2	1,076.52	1/2	844.97	1/2	613.41	1/2	381.85	1/2	150.30	1/2		1/2		1/2		1/2	
3/4	1,303.26	3/4	1,071.70	3/4	840.14	3/4	608.59	3/4	377.03	3/4	145.47	3/4		3/4		3/4		3/4	
11	1,298.43	11	1,066.88	11	835.32	11	603.76	11	372.21	11	140.65	11		11		11		11	
1/4	1,293.61	1/4	1,062.05	1/4	830.50	1/4	598.94	1/4	367.38	1/4	135.83	1/4		1/4		1/4		1/4	
1/2	1,288.78	1/2	1,057.23	1/2	825.67	1/2	594.11	1/2	362.56	1/2	131.00	1/2		1/2		1/2		1/2	
3/4	1,283.96	3/4	1,052.41	3/4	820.85	3/4	589.29	3/4	357.73	3/4	126.18	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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





# BARGE "AL 2301"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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		0	3,113.18	0	2,881.92	0	2,650.65	0	2,419.39	0	2,188.13	0	1,956.86	0	1,725.60		
1/4		1/4		1/4		1/4	3,108.36	1/4	2,877.10	1/4	2,645.84	1/4	2,414.57	1/4	2,183.31	1/4	1,952.04	1/4	1,720.78		
1/2		1/2		1/2		1/2	3,103.55	1/2	2,872.28	1/2	2,641.02	1/2	2,409.75	1/2	2,178.49	1/2	1,947.23	1/2	1,715.96		
3/4		3/4		3/4		3/4	3,098.73	3/4	2,867.46	3/4	2,636.20	3/4	2,404.94	3/4	2,173.67	3/4	1,942.41	3/4	1,711.14		
1		1		1		1	3,093.91	1	2,862.65	1	2,631.38	1	2,400.12	1	2,168.85	1	1,937.59	1	1,706.33		
1/4		1/4		1/4		1/4	3,089.09	1/4	2,857.83	1/4	2,626.56	1/4	2,395.30	1/4	2,164.04	1/4	1,932.77	1/4	1,701.51		
1/2		1/2		1/2		1/2	3,084.27	1/2	2,853.01	1/2	2,621.75	1/2	2,390.48	1/2	2,159.22	1/2	1,927.95	1/2	1,696.69		
3/4		3/4		3/4		3/4	3,079.46	3/4	2,848.19	3/4	2,616.93	3/4	2,385.66	3/4	2,154.40	3/4	1,923.14	3/4	1,691.87		
2		2		2		2	3,074.64	2	2,843.37	2	2,612.11	2	2,380.85	2	2,149.58	2	1,918.32	2	1,687.05		
1/4		1/4		1/4		1/4	3,069.82	1/4	2,838.56	1/4	2,607.29	1/4	2,376.03	1/4	2,144.76	1/4	1,913.50	1/4	1,682.24		
1/2		1/2		1/2		1/2	3,065.00	1/2	2,833.74	1/2	2,602.47	1/2	2,371.21	1/2	2,139.95	1/2	1,908.68	1/2	1,677.42		
3/4		3/4		3/4		3/4	3,060.18	3/4	2,828.92	3/4	2,597.66	3/4	2,366.39	3/4	2,135.13	3/4	1,903.86	3/4	1,672.60		
3		3		3		3	3,055.37	3	2,824.10	3	2,592.84	3	2,361.57	3	2,130.31	3	1,899.05	3	1,667.78		
1/4		1/4		1/4		1/4	3,050.55	1/4	2,819.28	1/4	2,588.02	1/4	2,356.76	1/4	2,125.49	1/4	1,894.23	1/4	1,662.96		
1/2		1/2		1/2		1/2	3,045.73	1/2	2,814.47	1/2	2,583.20	1/2	2,351.94	1/2	2,120.67	1/2	1,889.41	1/2	1,658.15		
3/4		3/4		3/4		3/4	3,040.91	3/4	2,809.65	3/4	2,578.38	3/4	2,347.12	3/4	2,115.86	3/4	1,884.59	3/4	1,653.33		
4		4		4		4	3,036.09	4	2,804.83	4	2,573.57	4	2,342.30	4	2,111.04	4	1,879.77	4	1,648.51		
1/4		1/4		1/4		1/4	3,031.28	1/4	2,800.01	1/4	2,568.75	1/4	2,337.48	1/4	2,106.22	1/4	1,874.96	1/4	1,643.69		
1/2		1/2		1/2		1/2	3,026.46	1/2	2,795.19	1/2	2,563.93	1/2	2,332.67	1/2	2,101.40	1/2	1,870.14	1/2	1,638.87		
3/4		3/4		3/4		3/4	3,021.64	3/4	2,790.38	3/4	2,559.11	3/4	2,327.85	3/4	2,096.58	3/4	1,865.32	3/4	1,634.06		
5		5		5		5	3,016.82	5	2,785.56	5	2,554.29	5	2,323.03	5	2,091.77	5	1,860.50	5	1,629.24		
1/4		1/4		1/4		1/4	3,012.00	1/4	2,780.74	1/4	2,549.48	1/4	2,318.21	1/4	2,086.95	1/4	1,855.68	1/4	1,624.42		
1/2		1/2		1/2		1/2	3,007.19	1/2	2,775.92	1/2	2,544.66	1/2	2,313.39	1/2	2,082.13	1/2	1,850.87	1/2	1,619.60		
3/4		3/4		3/4		3/4	3,002.37	3/4	2,771.10	3/4	2,539.84	3/4	2,308.58	3/4	2,077.31	3/4	1,846.05	3/4	1,614.78		
6		6		6		6	2,997.55	6	2,766.29	6	2,535.02	6	2,303.76	6	2,072.49	6	1,841.23	6	1,609.97		
1/4		1/4		1/4		1/4	3,221.61	1/4	2,992.73	1/4	2,761.47	1/4	2,530.20	1/4	2,298.94	1/4	2,067.68	1/4	1,836.41	1/4	1,605.15
1/2		1/2		1/2		1/2	3,217.39	1/2	2,987.91	1/2	2,756.65	1/2	2,525.39	1/2	2,294.12	1/2	2,062.86	1/2	1,831.59	1/2	1,600.33
3/4		3/4		3/4		3/4	3,213.17	3/4	2,983.10	3/4	2,751.83	3/4	2,520.57	3/4	2,289.30	3/4	2,058.04	3/4	1,826.78	3/4	1,595.51
7		7		7		7	3,208.94	7	2,978.28	7	2,747.01	7	2,515.75	7	2,284.49	7	2,053.22	7	1,821.96	7	1,590.69
1/4		1/4		1/4		1/4	3,204.72	1/4	2,973.46	1/4	2,742.20	1/4	2,510.93	1/4	2,279.67	1/4	2,048.40	1/4	1,817.14	1/4	1,585.88
1/2		1/2		1/2		1/2	3,199.91	1/2	2,968.64	1/2	2,737.38	1/2	2,506.11	1/2	2,274.85	1/2	2,043.59	1/2	1,812.32	1/2	1,581.06
3/4		3/4		3/4		3/4	3,195.09	3/4	2,963.82	3/4	2,732.56	3/4	2,501.30	3/4	2,270.03	3/4	2,038.77	3/4	1,807.50	3/4	1,576.24
8		8		8		8	3,190.27	8	2,959.01	8	2,727.74	8	2,496.48	8	2,265.21	8	2,033.95	8	1,802.69	8	1,571.42
1/4		1/4		1/4		1/4	3,185.45	1/4	2,954.19	1/4	2,722.92	1/4	2,491.66	1/4	2,260.40	1/4	2,029.13	1/4	1,797.87	1/4	1,566.60
1/2		1/2		1/2		1/2	3,180.63	1/2	2,949.37	1/2	2,718.11	1/2	2,486.84	1/2	2,255.58	1/2	2,024.31	1/2	1,793.05	1/2	1,561.79
3/4		3/4		3/4		3/4	3,175.82	3/4	2,944.55	3/4	2,713.29	3/4	2,482.02	3/4	2,250.76	3/4	2,019.50	3/4	1,788.23	3/4	1,556.97
9		9		9		9	3,171.00	9	2,939.73	9	2,708.47	9	2,477.21	9	2,245.94	9	2,014.68	9	1,783.41	9	1,552.15
1/4		1/4		1/4		1/4	3,166.18	1/4	2,934.92	1/4	2,703.65	1/4	2,472.39	1/4	2,241.12	1/4	2,009.86	1/4	1,778.60	1/4	1,547.33
1/2		1/2		1/2		1/2	3,161.36	1/2	2,930.10	1/2	2,698.83	1/2	2,467.57	1/2	2,236.31	1/2	2,005.04	1/2	1,773.78	1/2	1,542.51
3/4		3/4		3/4		3/4	3,156.54	3/4	2,925.28	3/4	2,694.02	3/4	2,462.75	3/4	2,231.49	3/4	2,000.22	3/4	1,768.96	3/4	1,537.70
10		10		10		10	3,151.73	10	2,920.46	10	2,689.20	10	2,457.93	10	2,226.67	10	1,995.41	10	1,764.14	10	1,532.88
1/4		1/4		1/4		1/4	3,146.91	1/4	2,915.64	1/4	2,684.38	1/4	2,453.12	1/4	2,221.85	1/4	1,990.59	1/4	1,759.32	1/4	1,528.06
1/2		1/2		1/2		1/2	3,142.09	1/2	2,910.83	1/2	2,679.56	1/2	2,448.30	1/2	2,217.03	1/2	1,985.77	1/2	1,754.51	1/2	1,523.24
3/4		3/4		3/4		3/4	3,137.27	3/4	2,906.01	3/4	2,674.74	3/4	2,443.48	3/4	2,212.22	3/4	1,980.95	3/4	1,749.69	3/4	1,518.42
11		11		11		11	3,132.45	11	2,901.19	11	2,669.93	11	2,438.66	11	2,207.40	11	1,976.13	11	1,744.87	11	1,513.61
1/4		1/4		1/4		1/4	3,127.64	1/4	2,896.37	1/4	2,665.11	1/4	2,433.84	1/4	2,202.58	1/4	1,971.32	1/4	1,740.05	1/4	1,508.79
1/2		1/2		1/2		1/2	3,122.82	1/2	2,891.55	1/2	2,660.29	1/2	2,429.03	1/2	2,197.76	1/2	1,966.50	1/2	1,735.23	1/2	1,503.97
3/4		3/4		3/4		3/4	3,118.00	3/4	2,886.74	3/4	2,655.47	3/4	2,424.21	3/4	2,192.94	3/4	1,961.68	3/4	1,730.42	3/4	1,499.15

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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





# BARGE "AL 2301"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	1,494.33	0	1,263.07	0	1,031.81	0	800.55	0	569.29	0	338.02	0	106.76	0		0			
1/4	1,489.52	1/4	1,258.25	1/4	1,026.99	1/4	795.74	1/4	564.47	1/4	333.20	1/4	101.95	1/4		1/4		1/4	
1/2	1,484.70	1/2	1,253.43	1/2	1,022.18	1/2	790.92	1/2	559.65	1/2	328.38	1/2	97.14	1/2		1/2		1/2	
3/4	1,479.88	3/4	1,248.62	3/4	1,017.36	3/4	786.10	3/4	554.83	3/4	323.56	3/4	92.34	3/4		3/4		3/4	
1	1,475.06	1	1,243.80	1	1,012.55	1	781.28	1	550.01	1	318.74	1	87.53	1		1		1	
1/4	1,470.24	1/4	1,238.98	1/4	1,007.73	1/4	776.46	1/4	545.19	1/4	313.93	1/4	82.72	1/4		1/4		1/4	
1/2	1,465.43	1/2	1,234.16	1/2	1,002.91	1/2	771.65	1/2	540.38	1/2	309.11	1/2	77.93	1/2		1/2		1/2	
3/4	1,460.61	3/4	1,229.34	3/4	998.10	3/4	766.83	3/4	535.56	3/4	304.29	3/4	73.13	3/4		3/4		3/4	
2	1,455.79	2	1,224.53	2	993.28	2	762.01	2	530.74	2	299.47	2	68.33	2		2		2	
1/4	1,450.97	1/4	1,219.71	1/4	988.46	1/4	757.19	1/4	525.92	1/4	294.65	1/4	63.54	1/4		1/4		1/4	
1/2	1,446.15	1/2	1,214.89	1/2	983.64	1/2	752.37	1/2	521.10	1/2	289.84	1/2	58.76	1/2		1/2		1/2	
3/4	1,441.34	3/4	1,210.07	3/4	978.82	3/4	747.55	3/4	516.29	3/4	285.02	3/4	53.98	3/4		3/4		3/4	
3	1,436.52	3	1,205.25	3	974.01	3	742.74	3	511.47	3	280.20	3	49.20	3		3		3	
1/4	1,431.70	1/4	1,200.44	1/4	969.19	1/4	737.92	1/4	506.65	1/4	275.38	1/4	44.43	1/4		1/4		1/4	
1/2	1,426.88	1/2	1,195.62	1/2	964.37	1/2	733.10	1/2	501.83	1/2	270.56	1/2	39.65	1/2		1/2		1/2	
3/4	1,422.06	3/4	1,190.80	3/4	959.55	3/4	728.28	3/4	497.01	3/4	265.74	3/4	34.87	3/4		3/4		3/4	
4	1,417.25	4	1,185.98	4	954.73	4	723.46	4	492.20	4	260.93	4	30.11	4		4		4	
1/4	1,412.43	1/4	1,181.16	1/4	949.92	1/4	718.65	1/4	487.38	1/4	256.11	1/4	26.14	1/4		1/4		1/4	
1/2	1,407.61	1/2	1,176.35	1/2	945.10	1/2	713.83	1/2	482.56	1/2	251.29	1/2	22.53	1/2		1/2		1/2	
3/4	1,402.79	3/4	1,171.53	3/4	940.28	3/4	709.01	3/4	477.74	3/4	246.47	3/4	18.92	3/4		3/4		3/4	
5	1,397.97	5	1,166.71	5	935.46	5	704.19	5	472.92	5	241.65	5	15.30	5		5		5	
1/4	1,393.16	1/4	1,161.89	1/4	930.64	1/4	699.37	1/4	468.11	1/4	236.84	1/4	11.69	1/4		1/4		1/4	
1/2	1,388.34	1/2	1,157.07	1/2	925.82	1/2	694.56	1/2	463.29	1/2	232.02	1/2		1/2		1/2		1/2	
3/4	1,383.52	3/4	1,152.26	3/4	921.01	3/4	689.74	3/4	458.47	3/4	227.20	3/4		3/4		3/4		3/4	
6	1,378.70	6	1,147.44	6	916.19	6	684.92	6	453.65	6	222.38	6		6		6		6	
1/4	1,373.88	1/4	1,142.62	1/4	911.37	1/4	680.10	1/4	448.83	1/4	217.56	1/4		1/4		1/4		1/4	
1/2	1,369.07	1/2	1,137.80	1/2	906.55	1/2	675.28	1/2	444.01	1/2	212.75	1/2		1/2		1/2		1/2	
3/4	1,364.25	3/4	1,132.98	3/4	901.73	3/4	670.47	3/4	439.20	3/4	207.93	3/4		3/4		3/4		3/4	
7	1,359.43	7	1,128.17	7	896.92	7	665.65	7	434.38	7	203.11	7		7		7		7	
1/4	1,354.61	1/4	1,123.35	1/4	892.10	1/4	660.83	1/4	429.56	1/4	198.29	1/4		1/4		1/4		1/4	
1/2	1,349.79	1/2	1,118.53	1/2	887.28	1/2	656.01	1/2	424.74	1/2	193.48	1/2		1/2		1/2		1/2	
3/4	1,344.98	3/4	1,113.71	3/4	882.46	3/4	651.19	3/4	419.92	3/4	188.66	3/4		3/4		3/4		3/4	
8	1,340.16	8	1,108.89	8	877.64	8	646.37	8	415.11	8	183.84	8		8		8		8	
1/4	1,335.34	1/4	1,104.08	1/4	872.83	1/4	641.56	1/4	410.29	1/4	179.02	1/4		1/4		1/4		1/4	
1/2	1,330.52	1/2	1,099.26	1/2	868.01	1/2	636.74	1/2	405.47	1/2	174.20	1/2		1/2		1/2		1/2	
3/4	1,325.70	3/4	1,094.44	3/4	863.19	3/4	631.92	3/4	400.65	3/4	169.39	3/4		3/4		3/4		3/4	
9	1,320.89	9	1,089.62	9	858.37	9	627.10	9	395.83	9	164.57	9		9		9		9	
1/4	1,316.07	1/4	1,084.80	1/4	853.55	1/4	622.28	1/4	391.02	1/4	159.75	1/4		1/4		1/4		1/4	
1/2	1,311.25	1/2	1,079.99	1/2	848.74	1/2	617.47	1/2	386.20	1/2	154.93	1/2		1/2		1/2		1/2	
3/4	1,306.43	3/4	1,075.17	3/4	843.92	3/4	612.65	3/4	381.38	3/4	150.11	3/4		3/4		3/4		3/4	
10	1,301.61	10	1,070.35	10	839.10	10	607.83	10	376.56	10	145.30	10		10		10		10	
1/4	1,296.80	1/4	1,065.53	1/4	834.28	1/4	603.01	1/4	371.74	1/4	140.48	1/4		1/4		1/4		1/4	
1/2	1,291.98	1/2	1,060.71	1/2	829.46	1/2	598.19	1/2	366.93	1/2	135.66	1/2		1/2		1/2		1/2	
3/4	1,287.16	3/4	1,055.90	3/4	824.64	3/4	593.38	3/4	362.11	3/4	130.84	3/4		3/4		3/4		3/4	
11	1,282.34	11	1,051.08	11	819.83	11	588.56	11	357.29	11	126.02	11		11		11		11	
1/4	1,277.52	1/4	1,046.26	1/4	815.01	1/4	583.74	1/4	352.47	1/4	121.21	1/4		1/4		1/4		1/4	
1/2	1,272.71	1/2	1,041.45	1/2	810.19	1/2	578.92	1/2	347.65	1/2	116.39	1/2		1/2		1/2		1/2	
3/4	1,267.89	3/4	1,036.63	3/4	805.37	3/4	574.10	3/4	342.83	3/4	111.58	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	3,125.87	0	2,894.74	0	2,663.61	0	2,432.47	0	2,201.34	0	1,970.20	0	1,739.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,121.06	1/4	2,889.93	1/4	2,658.79	1/4	2,427.66	1/4	2,196.52	1/4	1,965.39	1/4	1,734.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,116.24	1/2	2,885.11	1/2	2,653.98	1/2	2,422.84	1/2	2,191.71	1/2	1,960.57	1/2	1,729.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,111.43	3/4	2,880.29	3/4	2,649.16	3/4	2,418.03	3/4	2,186.89	3/4	1,955.76	3/4	1,724.62
1		1		1		1	3,106.61	1	2,875.48	1	2,644.34	1	2,413.21	1	2,182.08	1	1,950.94	1	1,719.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,101.80	1/4	2,870.66	1/4	2,639.53	1/4	2,408.40	1/4	2,177.26	1/4	1,946.13	1/4	1,714.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,096.98	1/2	2,865.85	1/2	2,634.71	1/2	2,403.58	1/2	2,172.45	1/2	1,941.31	1/2	1,710.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,092.17	3/4	2,861.03	3/4	2,629.90	3/4	2,398.76	3/4	2,167.63	3/4	1,936.50	3/4	1,705.36
2		2		2		2	3,087.35	2	2,856.22	2	2,625.08	2	2,393.95	2	2,162.81	2	1,931.68	2	1,700.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,082.54	1/4	2,851.40	1/4	2,620.27	1/4	2,389.13	1/4	2,158.00	1/4	1,926.87	1/4	1,695.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,077.72	1/2	2,846.59	1/2	2,615.45	1/2	2,384.32	1/2	2,153.18	1/2	1,922.05	1/2	1,690.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,072.91	3/4	2,841.77	3/4	2,610.64	3/4	2,379.50	3/4	2,148.37	3/4	1,917.23	3/4	1,686.10
3		3		3		3	3,068.09	3	2,836.96	3	2,605.82	3	2,374.69	3	2,143.55	3	1,912.42	3	1,681.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,063.28	1/4	2,832.14	1/4	2,601.01	1/4	2,369.87	1/4	2,138.74	1/4	1,907.60	1/4	1,676.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,058.46	1/2	2,827.33	1/2	2,596.19	1/2	2,365.06	1/2	2,133.92	1/2	1,902.79	1/2	1,671.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,053.65	3/4	2,822.51	3/4	2,591.38	3/4	2,360.24	3/4	2,129.11	3/4	1,897.97	3/4	1,666.84
4		4		4		4	3,048.83	4	2,817.70	4	2,586.56	4	2,355.43	4	2,124.29	4	1,893.16	4	1,662.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,044.01	1/4	2,812.88	1/4	2,581.75	1/4	2,350.61	1/4	2,119.48	1/4	1,888.34	1/4	1,657.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,039.20	1/2	2,808.06	1/2	2,576.93	1/2	2,345.80	1/2	2,114.66	1/2	1,883.53	1/2	1,652.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,034.38	3/4	2,803.25	3/4	2,572.12	3/4	2,340.98	3/4	2,109.85	3/4	1,878.71	3/4	1,647.58
5		5		5		5	3,029.57	5	2,798.43	5	2,567.30	5	2,336.17	5	2,105.03	5	1,873.90	5	1,642.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,024.75	1/4	2,793.62	1/4	2,562.48	1/4	2,331.35	1/4	2,100.22	1/4	1,869.08	1/4	1,637.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,019.94	1/2	2,788.80	1/2	2,557.67	1/2	2,326.53	1/2	2,095.40	1/2	1,864.27	1/2	1,633.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,015.12	3/4	2,783.99	3/4	2,552.85	3/4	2,321.72	3/4	2,090.59	3/4	1,859.45	3/4	1,628.32
6		6		6		6	3,010.31	6	2,779.17	6	2,548.04	6	2,316.90	6	2,085.77	6	1,854.64	6	1,623.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,005.49	1/4	2,774.36	1/4	2,543.22	1/4	2,312.09	1/4	2,080.95	1/4	1,849.82	1/4	1,618.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,000.68	1/2	2,769.54	1/2	2,538.41	1/2	2,307.27	1/2	2,076.14	1/2	1,845.00	1/2	1,613.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	2,995.86	3/4	2,764.73	3/4	2,533.59	3/4	2,302.46	3/4	2,071.32	3/4	1,840.19	3/4	1,609.06
7		7		7	3,219.80	7	2,991.05	7	2,759.91	7	2,528.78	7	2,297.64	7	2,066.51	7	1,835.37	7	1,604.24
1/4	1/4	1/4	1/4	1/4	3,215.58	1/4	2,986.23	1/4	2,755.10	1/4	2,523.96	1/4	2,292.83	1/4	2,061.69	1/4	1,830.56	1/4	1,599.42
1/2	1/2	1/2	1/2	1/2	3,211.36	1/2	2,981.42	1/2	2,750.28	1/2	2,519.15	1/2	2,288.01	1/2	2,056.88	1/2	1,825.74	1/2	1,594.61
3/4	3/4	3/4	3/4	3/4	3,207.14	3/4	2,976.60	3/4	2,745.47	3/4	2,514.33	3/4	2,283.20	3/4	2,052.06	3/4	1,820.93	3/4	1,589.79
8		8		8	3,202.92	8	2,971.79	8	2,740.65	8	2,509.52	8	2,278.38	8	2,047.25	8	1,816.11	8	1,584.98
1/4	1/4	1/4	1/4	1/4	3,198.10	1/4	2,966.97	1/4	2,735.84	1/4	2,504.70	1/4	2,273.57	1/4	2,042.43	1/4	1,811.30	1/4	1,580.16
1/2	1/2	1/2	1/2	1/2	3,193.29	1/2	2,962.15	1/2	2,731.02	1/2	2,499.89	1/2	2,268.75	1/2	2,037.62	1/2	1,806.48	1/2	1,575.35
3/4	3/4	3/4	3/4	3/4	3,188.47	3/4	2,957.34	3/4	2,726.20	3/4	2,495.07	3/4	2,263.94	3/4	2,032.80	3/4	1,801.67	3/4	1,570.53
9		9		9	3,183.66	9	2,952.52	9	2,721.39	9	2,490.26	9	2,259.12	9	2,027.99	9	1,796.85	9	1,565.72
1/4	1/4	1/4	1/4	1/4	3,178.84	1/4	2,947.71	1/4	2,716.57	1/4	2,485.44	1/4	2,254.31	1/4	2,023.17	1/4	1,792.04	1/4	1,560.90
1/2	1/2	1/2	1/2	1/2	3,174.03	1/2	2,942.89	1/2	2,711.76	1/2	2,480.62	1/2	2,249.49	1/2	2,018.36	1/2	1,787.22	1/2	1,556.09
3/4	3/4	3/4	3/4	3/4	3,169.21	3/4	2,938.08	3/4	2,706.94	3/4	2,475.81	3/4	2,244.67	3/4	2,013.54	3/4	1,782.41	3/4	1,551.27
10		10		10	3,164.40	10	2,933.26	10	2,702.13	10	2,470.99	10	2,239.86	10	2,008.73	10	1,777.59	10	1,546.46
1/4	1/4	1/4	1/4	1/4	3,159.58	1/4	2,928.45	1/4	2,697.31	1/4	2,466.18	1/4	2,235.04	1/4	2,003.91	1/4	1,772.78	1/4	1,541.64
1/2	1/2	1/2	1/2	1/2	3,154.77	1/2	2,923.63	1/2	2,692.50	1/2	2,461.36	1/2	2,230.23	1/2	1,999.09	1/2	1,767.96	1/2	1,536.83
3/4	3/4	3/4	3/4	3/4	3,149.95	3/4	2,918.82	3/4	2,687.68	3/4	2,456.55	3/4	2,225.41	3/4	1,994.28	3/4	1,763.14	3/4	1,532.01
11		11		11	3,145.14	11	2,914.00	11	2,682.87	11	2,451.73	11	2,220.60	11	1,989.46	11	1,758.33	11	1,527.20
1/4	1/4	1/4	1/4	1/4	3,140.32	1/4	2,909.19	1/4	2,678.05	1/4	2,446.92	1/4	2,215.78	1/4	1,984.65	1/4	1,753.51	1/4	1,522.38
1/2	1/2	1/2	1/2	1/2	3,135.51	1/2	2,904.37	1/2	2,673.24	1/2	2,442.10	1/2	2,210.97	1/2	1,979.83	1/2	1,748.70	1/2	1,517.56
3/4	3/4	3/4	3/4	3/4	3,130.69	3/4	2,899.56	3/4	2,668.42	3/4	2,437.29	3/4	2,206.15	3/4	1,975.02	3/4	1,743.88	3/4	1,512.75

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "AL 2301"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	1,507.93	0	1,276.80	0	1,045.67	0	814.53	0	583.40	0	352.26	0	121.13	0		0		0	
1/4	1,503.12	1/4	1,271.98	1/4	1,040.85	1/4	809.72	1/4	578.58	1/4	347.45	1/4	116.32	1/4		1/4		1/4	
1/2	1,498.30	1/2	1,267.17	1/2	1,036.04	1/2	804.90	1/2	573.77	1/2	342.63	1/2	111.51	1/2		1/2		1/2	
3/4	1,493.49	3/4	1,262.35	3/4	1,031.23	3/4	800.09	3/4	568.95	3/4	337.82	3/4	106.70	3/4		3/4		3/4	
1	1,488.67	1	1,257.54	1	1,026.41	1	795.27	1	564.14	1	333.00	1	101.89	1		1		1	
1/4	1,483.86	1/4	1,252.72	1/4	1,021.59	1/4	790.46	1/4	559.32	1/4	328.19	1/4	97.08	1/4		1/4		1/4	
1/2	1,479.04	1/2	1,247.91	1/2	1,016.78	1/2	785.64	1/2	554.51	1/2	323.37	1/2	92.28	1/2		1/2		1/2	
3/4	1,474.23	3/4	1,243.09	3/4	1,011.96	3/4	780.82	3/4	549.69	3/4	318.56	3/4	87.47	3/4		3/4		3/4	
2	1,469.41	2	1,238.28	2	1,007.14	2	776.01	2	544.88	2	313.74	2	82.67	2		2		2	
1/4	1,464.60	1/4	1,233.46	1/4	1,002.33	1/4	771.19	1/4	540.06	1/4	308.93	1/4	77.87	1/4		1/4		1/4	
1/2	1,459.78	1/2	1,228.65	1/2	997.51	1/2	766.38	1/2	535.24	1/2	304.11	1/2	73.08	1/2		1/2		1/2	
3/4	1,454.97	3/4	1,223.83	3/4	992.70	3/4	761.56	3/4	530.43	3/4	299.29	3/4	68.29	3/4		3/4		3/4	
3	1,450.15	3	1,219.02	3	987.88	3	756.75	3	525.61	3	294.48	3	63.49	3		3		3	
1/4	1,445.34	1/4	1,214.20	1/4	983.07	1/4	751.93	1/4	520.80	1/4	289.66	1/4	58.72	1/4		1/4		1/4	
1/2	1,440.52	1/2	1,209.39	1/2	978.25	1/2	747.12	1/2	515.98	1/2	284.85	1/2	53.94	1/2		1/2		1/2	
3/4	1,435.70	3/4	1,204.57	3/4	973.44	3/4	742.30	3/4	511.17	3/4	280.03	3/4	49.17	3/4		3/4		3/4	
4	1,430.89	4	1,199.75	4	968.62	4	737.49	4	506.35	4	275.22	4	44.39	4		4		4	
1/4	1,426.07	1/4	1,194.94	1/4	963.81	1/4	732.67	1/4	501.54	1/4	270.40	1/4	39.62	1/4		1/4		1/4	
1/2	1,421.26	1/2	1,190.12	1/2	958.99	1/2	727.86	1/2	496.72	1/2	265.59	1/2	34.85	1/2		1/2		1/2	
3/4	1,416.44	3/4	1,185.31	3/4	954.18	3/4	723.04	3/4	491.91	3/4	260.77	3/4	30.09	3/4		3/4		3/4	
5	1,411.63	5	1,180.49	5	949.36	5	718.23	5	487.09	5	255.96	5	26.12	5		5		5	
1/4	1,406.81	1/4	1,175.68	1/4	944.55	1/4	713.41	1/4	482.28	1/4	251.14	1/4	22.51	1/4		1/4		1/4	
1/2	1,402.00	1/2	1,170.86	1/2	939.73	1/2	708.60	1/2	477.46	1/2	246.33	1/2	18.90	1/2		1/2		1/2	
3/4	1,397.18	3/4	1,166.05	3/4	934.91	3/4	703.78	3/4	472.65	3/4	241.51	3/4	15.29	3/4		3/4		3/4	
6	1,392.37	6	1,161.23	6	930.10	6	698.96	6	467.83	6	236.70	6	11.68	6		6		6	
1/4	1,387.55	1/4	1,156.42	1/4	925.28	1/4	694.15	1/4	463.02	1/4	231.88	1/4		1/4		1/4		1/4	
1/2	1,382.74	1/2	1,151.60	1/2	920.47	1/2	689.33	1/2	458.20	1/2	227.07	1/2		1/2		1/2		1/2	
3/4	1,377.92	3/4	1,146.79	3/4	915.65	3/4	684.52	3/4	453.38	3/4	222.25	3/4		3/4		3/4		3/4	
7	1,373.11	7	1,141.97	7	910.84	7	679.70	7	448.57	7	217.43	7		7		7		7	
1/4	1,368.29	1/4	1,137.16	1/4	906.02	1/4	674.89	1/4	443.75	1/4	212.62	1/4		1/4		1/4		1/4	
1/2	1,363.47	1/2	1,132.34	1/2	901.21	1/2	670.07	1/2	438.94	1/2	207.80	1/2		1/2		1/2		1/2	
3/4	1,358.66	3/4	1,127.53	3/4	896.39	3/4	665.26	3/4	434.12	3/4	202.99	3/4		3/4		3/4		3/4	
8	1,353.84	8	1,122.71	8	891.58	8	660.44	8	429.31	8	198.17	8		8		8		8	
1/4	1,349.03	1/4	1,117.89	1/4	886.76	1/4	655.63	1/4	424.49	1/4	193.36	1/4		1/4		1/4		1/4	
1/2	1,344.21	1/2	1,113.08	1/2	881.95	1/2	650.81	1/2	419.68	1/2	188.54	1/2		1/2		1/2		1/2	
3/4	1,339.40	3/4	1,108.26	3/4	877.13	3/4	646.00	3/4	414.86	3/4	183.73	3/4		3/4		3/4		3/4	
9	1,334.58	9	1,103.45	9	872.32	9	641.18	9	410.05	9	178.92	9		9		9		9	
1/4	1,329.77	1/4	1,098.63	1/4	867.50	1/4	636.37	1/4	405.23	1/4	174.10	1/4		1/4		1/4		1/4	
1/2	1,324.95	1/2	1,093.82	1/2	862.68	1/2	631.55	1/2	400.42	1/2	169.28	1/2		1/2		1/2		1/2	
3/4	1,320.14	3/4	1,089.00	3/4	857.87	3/4	626.74	3/4	395.60	3/4	164.47	3/4		3/4		3/4		3/4	
10	1,315.32	10	1,084.19	10	853.05	10	621.92	10	390.79	10	159.65	10		10		10		10	
1/4	1,310.51	1/4	1,079.37	1/4	848.24	1/4	617.10	1/4	385.97	1/4	154.84	1/4		1/4		1/4		1/4	
1/2	1,305.69	1/2	1,074.56	1/2	843.42	1/2	612.29	1/2	381.15	1/2	150.02	1/2		1/2		1/2		1/2	
3/4	1,300.88	3/4	1,069.74	3/4	838.61	3/4	607.47	3/4	376.34	3/4	145.21	3/4		3/4		3/4		3/4	
11	1,296.06	11	1,064.93	11	833.79	11	602.66	11	371.52	11	140.39	11		11		11		11	
1/4	1,291.25	1/4	1,060.11	1/4	828.98	1/4	597.84	1/4	366.71	1/4	135.58	1/4		1/4		1/4		1/4	
1/2	1,286.43	1/2	1,055.30	1/2	824.16	1/2	593.03	1/2	361.89	1/2	130.76	1/2		1/2		1/2		1/2	
3/4	1,281.61	3/4	1,050.48	3/4	819.35	3/4	588.21	3/4	357.08	3/4	125.95	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	3,128.27	0	2,896.95	0	2,665.64	0	2,434.33	0	2,203.02	0	1,971.71	0	1,740.39
1/4		1/4		1/4		1/4	3,123.45	1/4	2,892.14	1/4	2,660.82	1/4	2,429.51	1/4	2,198.20	1/4	1,966.89	1/4	1,735.58
1/2		1/2		1/2		1/2	3,118.63	1/2	2,887.32	1/2	2,656.00	1/2	2,424.69	1/2	2,193.38	1/2	1,962.07	1/2	1,730.76
3/4		3/4		3/4		3/4	3,113.81	3/4	2,882.50	3/4	2,651.19	3/4	2,419.87	3/4	2,188.56	3/4	1,957.25	3/4	1,725.94
1		1		1		1	3,108.99	1	2,877.68	1	2,646.37	1	2,415.05	1	2,183.74	1	1,952.43	1	1,721.12
1/4		1/4		1/4		1/4	3,104.17	1/4	2,872.86	1/4	2,641.55	1/4	2,410.24	1/4	2,178.92	1/4	1,947.61	1/4	1,716.30
1/2		1/2		1/2		1/2	3,099.35	1/2	2,868.04	1/2	2,636.73	1/2	2,405.42	1/2	2,174.10	1/2	1,942.79	1/2	1,711.48
3/4		3/4		3/4		3/4	3,094.53	3/4	2,863.22	3/4	2,631.91	3/4	2,400.60	3/4	2,169.29	3/4	1,937.97	3/4	1,706.66
2		2		2		2	3,089.71	2	2,858.40	2	2,627.09	2	2,395.78	2	2,164.47	2	1,933.15	2	1,701.84
1/4		1/4		1/4		1/4	3,084.90	1/4	2,853.58	1/4	2,622.27	1/4	2,390.96	1/4	2,159.65	1/4	1,928.34	1/4	1,697.02
1/2		1/2		1/2		1/2	3,080.08	1/2	2,848.76	1/2	2,617.45	1/2	2,386.14	1/2	2,154.83	1/2	1,923.52	1/2	1,692.20
3/4		3/4		3/4		3/4	3,075.26	3/4	2,843.95	3/4	2,612.63	3/4	2,381.32	3/4	2,150.01	3/4	1,918.70	3/4	1,687.39
3		3		3		3	3,070.44	3	2,839.13	3	2,607.81	3	2,376.50	3	2,145.19	3	1,913.88	3	1,682.57
1/4		1/4		1/4		1/4	3,065.62	1/4	2,834.31	1/4	2,603.00	1/4	2,371.68	1/4	2,140.37	1/4	1,909.06	1/4	1,677.75
1/2		1/2		1/2		1/2	3,060.80	1/2	2,829.49	1/2	2,598.18	1/2	2,366.86	1/2	2,135.55	1/2	1,904.24	1/2	1,672.93
3/4		3/4		3/4		3/4	3,055.98	3/4	2,824.67	3/4	2,593.36	3/4	2,362.05	3/4	2,130.73	3/4	1,899.42	3/4	1,668.11
4		4		4		4	3,051.16	4	2,819.85	4	2,588.54	4	2,357.23	4	2,125.91	4	1,894.60	4	1,663.29
1/4		1/4		1/4		1/4	3,046.34	1/4	2,815.03	1/4	2,583.72	1/4	2,352.41	1/4	2,121.10	1/4	1,889.78	1/4	1,658.47
1/2		1/2		1/2		1/2	3,041.52	1/2	2,810.21	1/2	2,578.90	1/2	2,347.59	1/2	2,116.28	1/2	1,884.96	1/2	1,653.65
3/4		3/4		3/4		3/4	3,036.71	3/4	2,805.39	3/4	2,574.08	3/4	2,342.77	3/4	2,111.46	3/4	1,880.15	3/4	1,648.83
5		5		5		5	3,031.89	5	2,800.57	5	2,569.26	5	2,337.95	5	2,106.64	5	1,875.33	5	1,644.01
1/4		1/4		1/4		1/4	3,027.07	1/4	2,795.76	1/4	2,564.44	1/4	2,333.13	1/4	2,101.82	1/4	1,870.51	1/4	1,639.20
1/2		1/2		1/2		1/2	3,022.25	1/2	2,790.94	1/2	2,559.62	1/2	2,328.31	1/2	2,097.00	1/2	1,865.69	1/2	1,634.38
3/4		3/4		3/4		3/4	3,017.43	3/4	2,786.12	3/4	2,554.81	3/4	2,323.49	3/4	2,092.18	3/4	1,860.87	3/4	1,629.56
6		6		6		6	3,012.61	6	2,781.30	6	2,549.99	6	2,318.67	6	2,087.36	6	1,856.05	6	1,624.74
1/4		1/4		1/4		1/4	3,007.79	1/4	2,776.48	1/4	2,545.17	1/4	2,313.86	1/4	2,082.54	1/4	1,851.23	1/4	1,619.92
1/2		1/2		1/2		1/2	3,002.97	1/2	2,771.66	1/2	2,540.35	1/2	2,309.04	1/2	2,077.72	1/2	1,846.41	1/2	1,615.10
3/4		3/4		3/4		3/4	2,998.15	3/4	2,766.84	3/4	2,535.53	3/4	2,304.22	3/4	2,072.91	3/4	1,841.59	3/4	1,610.28
7		7		7	3,222.23	7	2,993.33	7	2,762.02	7	2,530.71	7	2,299.40	7	2,068.09	7	1,836.77	7	1,605.46
1/4		1/4		1/4	3,218.02	1/4	2,988.52	1/4	2,757.20	1/4	2,525.89	1/4	2,294.58	1/4	2,063.27	1/4	1,831.96	1/4	1,600.64
1/2		1/2		1/2	3,213.80	1/2	2,983.70	1/2	2,752.38	1/2	2,521.07	1/2	2,289.76	1/2	2,058.45	1/2	1,827.14	1/2	1,595.82
3/4		3/4		3/4	3,209.59	3/4	2,978.88	3/4	2,747.57	3/4	2,516.25	3/4	2,284.94	3/4	2,053.63	3/4	1,822.32	3/4	1,591.01
8		8		8	3,205.37	8	2,974.06	8	2,742.75	8	2,511.43	8	2,280.12	8	2,048.81	8	1,817.50	8	1,586.19
1/4		1/4		1/4	3,200.55	1/4	2,969.24	1/4	2,737.93	1/4	2,506.62	1/4	2,275.30	1/4	2,043.99	1/4	1,812.68	1/4	1,581.37
1/2		1/2		1/2	3,195.73	1/2	2,964.42	1/2	2,733.11	1/2	2,501.80	1/2	2,270.48	1/2	2,039.17	1/2	1,807.86	1/2	1,576.55
3/4		3/4		3/4	3,190.91	3/4	2,959.60	3/4	2,728.29	3/4	2,496.98	3/4	2,265.67	3/4	2,034.35	3/4	1,803.04	3/4	1,571.73
9		9		9	3,186.09	9	2,954.78	9	2,723.47	9	2,492.16	9	2,260.85	9	2,029.53	9	1,798.22	9	1,566.91
1/4		1/4		1/4	3,181.28	1/4	2,949.96	1/4	2,718.65	1/4	2,487.34	1/4	2,256.03	1/4	2,024.72	1/4	1,793.40	1/4	1,562.09
1/2		1/2		1/2	3,176.46	1/2	2,945.14	1/2	2,713.83	1/2	2,482.52	1/2	2,251.21	1/2	2,019.90	1/2	1,788.58	1/2	1,557.27
3/4		3/4		3/4	3,171.64	3/4	2,940.33	3/4	2,709.01	3/4	2,477.70	3/4	2,246.39	3/4	2,015.08	3/4	1,783.77	3/4	1,552.45
10		10		10	3,166.82	10	2,935.51	10	2,704.19	10	2,472.88	10	2,241.57	10	2,010.26	10	1,778.95	10	1,547.63
1/4		1/4		1/4	3,162.00	1/4	2,930.69	1/4	2,699.38	1/4	2,468.06	1/4	2,236.75	1/4	2,005.44	1/4	1,774.13	1/4	1,542.82
1/2		1/2		1/2	3,157.18	1/2	2,925.87	1/2	2,694.56	1/2	2,463.24	1/2	2,231.93	1/2	2,000.62	1/2	1,769.31	1/2	1,538.00
3/4		3/4		3/4	3,152.36	3/4	2,921.05	3/4	2,689.74	3/4	2,458.43	3/4	2,227.11	3/4	1,995.80	3/4	1,764.49	3/4	1,533.18
11		11		11	3,147.54	11	2,916.23	11	2,684.92	11	2,453.61	11	2,222.29	11	1,990.98	11	1,759.67	11	1,528.36
1/4		1/4		1/4	3,142.72	1/4	2,911.41	1/4	2,680.10	1/4	2,448.79	1/4	2,217.48	1/4	1,986.16	1/4	1,754.85	1/4	1,523.54
1/2		1/2		1/2	3,137.90	1/2	2,906.59	1/2	2,675.28	1/2	2,443.97	1/2	2,212.66	1/2	1,981.34	1/2	1,750.03	1/2	1,518.72
3/4		3/4		3/4	3,133.09	3/4	2,901.77	3/4	2,670.46	3/4	2,439.15	3/4	2,207.84	3/4	1,976.53	3/4	1,745.21	3/4	1,513.90

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "AL 2301"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	1,509.08	0	1,277.77	0	1,046.46	0	815.15	0	583.84	0	352.54	0	121.23	0		0		0	
1/4	1,504.26	1/4	1,272.95	1/4	1,041.65	1/4	810.33	1/4	579.02	1/4	347.72	1/4	116.42	1/4		1/4		1/4	
1/2	1,499.44	1/2	1,268.13	1/2	1,036.83	1/2	805.51	1/2	574.21	1/2	342.90	1/2	111.60	1/2		1/2		1/2	
3/4	1,494.63	3/4	1,263.31	3/4	1,032.01	3/4	800.69	3/4	569.39	3/4	338.08	3/4	106.79	3/4		3/4		3/4	
1	1,489.81	1	1,258.49	1	1,027.19	1	795.87	1	564.57	1	333.26	1	101.97	1		1		1	
1/4	1,484.99	1/4	1,253.68	1/4	1,022.37	1/4	791.06	1/4	559.75	1/4	328.44	1/4	97.16	1/4		1/4		1/4	
1/2	1,480.17	1/2	1,248.86	1/2	1,017.55	1/2	786.24	1/2	554.93	1/2	323.62	1/2	92.35	1/2		1/2		1/2	
3/4	1,475.35	3/4	1,244.04	3/4	1,012.73	3/4	781.42	3/4	550.11	3/4	318.80	3/4	87.55	3/4		3/4		3/4	
2	1,470.53	2	1,239.22	2	1,007.91	2	776.60	2	545.29	2	313.98	2	82.74	2		2		2	
1/4	1,465.71	1/4	1,234.40	1/4	1,003.09	1/4	771.78	1/4	540.47	1/4	309.17	1/4	77.94	1/4		1/4		1/4	
1/2	1,460.89	1/2	1,229.58	1/2	998.27	1/2	766.96	1/2	535.65	1/2	304.35	1/2	73.14	1/2		1/2		1/2	
3/4	1,456.07	3/4	1,224.76	3/4	993.45	3/4	762.14	3/4	530.83	3/4	299.53	3/4	68.35	3/4		3/4		3/4	
3	1,451.25	3	1,219.94	3	988.63	3	757.32	3	526.02	3	294.71	3	63.55	3		3		3	
1/4	1,446.44	1/4	1,215.12	1/4	983.81	1/4	752.50	1/4	521.20	1/4	289.89	1/4	58.77	1/4		1/4		1/4	
1/2	1,441.62	1/2	1,210.30	1/2	978.99	1/2	747.69	1/2	516.38	1/2	285.07	1/2	53.99	1/2		1/2		1/2	
3/4	1,436.80	3/4	1,205.49	3/4	974.17	3/4	742.87	3/4	511.56	3/4	280.25	3/4	49.21	3/4		3/4		3/4	
4	1,431.98	4	1,200.67	4	969.35	4	738.05	4	506.74	4	275.43	4	44.43	4		4		4	
1/4	1,427.16	1/4	1,195.85	1/4	964.54	1/4	733.23	1/4	501.92	1/4	270.61	1/4	39.86	1/4		1/4		1/4	
1/2	1,422.34	1/2	1,191.03	1/2	959.72	1/2	728.41	1/2	497.10	1/2	265.80	1/2	35.29	1/2		1/2		1/2	
3/4	1,417.52	3/4	1,186.21	3/4	954.90	3/4	723.59	3/4	492.28	3/4	260.98	3/4	30.72	3/4		3/4		3/4	
5	1,412.70	5	1,181.39	5	950.08	5	718.77	5	487.46	5	256.16	5	26.15	5		5		5	
1/4	1,407.88	1/4	1,176.57	1/4	945.26	1/4	713.95	1/4	482.65	1/4	251.34	1/4	22.53	1/4		1/4		1/4	
1/2	1,403.06	1/2	1,171.75	1/2	940.44	1/2	709.13	1/2	477.83	1/2	246.52	1/2	18.92	1/2		1/2		1/2	
3/4	1,398.25	3/4	1,166.93	3/4	935.62	3/4	704.32	3/4	473.01	3/4	241.70	3/4	15.31	3/4		3/4		3/4	
6	1,393.43	6	1,162.11	6	930.80	6	699.50	6	468.19	6	236.88	6	11.69	6		6		6	
1/4	1,388.61	1/4	1,157.30	1/4	925.98	1/4	694.68	1/4	463.37	1/4	232.06	1/4		1/4		1/4		1/4	
1/2	1,383.79	1/2	1,152.48	1/2	921.17	1/2	689.86	1/2	458.55	1/2	227.24	1/2		1/2		1/2		1/2	
3/4	1,378.97	3/4	1,147.66	3/4	916.35	3/4	685.04	3/4	453.73	3/4	222.43	3/4		3/4		3/4		3/4	
7	1,374.15	7	1,142.84	7	911.53	7	680.22	7	448.91	7	217.61	7		7		7		7	
1/4	1,369.33	1/4	1,138.02	1/4	906.71	1/4	675.40	1/4	444.09	1/4	212.79	1/4		1/4		1/4		1/4	
1/2	1,364.51	1/2	1,133.20	1/2	901.89	1/2	670.58	1/2	439.28	1/2	207.97	1/2		1/2		1/2		1/2	
3/4	1,359.69	3/4	1,128.38	3/4	897.07	3/4	665.76	3/4	434.46	3/4	203.15	3/4		3/4		3/4		3/4	
8	1,354.87	8	1,123.56	8	892.25	8	660.95	8	429.64	8	198.33	8		8		8		8	
1/4	1,350.06	1/4	1,118.74	1/4	887.43	1/4	656.13	1/4	424.82	1/4	193.51	1/4		1/4		1/4		1/4	
1/2	1,345.24	1/2	1,113.92	1/2	882.61	1/2	651.31	1/2	420.00	1/2	188.69	1/2		1/2		1/2		1/2	
3/4	1,340.42	3/4	1,109.11	3/4	877.80	3/4	646.49	3/4	415.18	3/4	183.88	3/4		3/4		3/4		3/4	
9	1,335.60	9	1,104.29	9	872.98	9	641.67	9	410.36	9	179.06	9		9		9		9	
1/4	1,330.78	1/4	1,099.47	1/4	868.16	1/4	636.85	1/4	405.54	1/4	174.24	1/4		1/4		1/4		1/4	
1/2	1,325.96	1/2	1,094.65	1/2	863.34	1/2	632.03	1/2	400.72	1/2	169.42	1/2		1/2		1/2		1/2	
3/4	1,321.14	3/4	1,089.83	3/4	858.52	3/4	627.21	3/4	395.91	3/4	164.60	3/4		3/4		3/4		3/4	
10	1,316.32	10	1,085.01	10	853.70	10	622.39	10	391.09	10	159.78	10		10		10		10	
1/4	1,311.50	1/4	1,080.19	1/4	848.88	1/4	617.58	1/4	386.27	1/4	154.96	1/4		1/4		1/4		1/4	
1/2	1,306.68	1/2	1,075.37	1/2	844.06	1/2	612.76	1/2	381.45	1/2	150.14	1/2		1/2		1/2		1/2	
3/4	1,301.87	3/4	1,070.55	3/4	839.24	3/4	607.94	3/4	376.63	3/4	145.32	3/4		3/4		3/4		3/4	
11	1,297.05	11	1,065.74	11	834.43	11	603.12	11	371.81	11	140.50	11		11		11		11	
1/4	1,292.23	1/4	1,060.92	1/4	829.61	1/4	598.30	1/4	366.99	1/4	135.69	1/4		1/4		1/4		1/4	
1/2	1,287.41	1/2	1,056.10	1/2	824.79	1/2	593.48	1/2	362.17	1/2	130.87	1/2		1/2		1/2		1/2	
3/4	1,282.59	3/4	1,051.28	3/4	819.97	3/4	588.66	3/4	357.35	3/4	126.05	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	3,132.62	0	2,900.98	0	2,669.35	0	2,437.72	0	2,206.08	0	1,974.45	0	1,742.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,127.79	1/4	2,896.16	1/4	2,664.53	1/4	2,432.89	1/4	2,201.26	1/4	1,969.62	1/4	1,737.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,122.97	1/2	2,891.33	1/2	2,659.70	1/2	2,428.07	1/2	2,196.43	1/2	1,964.80	1/2	1,733.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,118.14	3/4	2,886.51	3/4	2,654.87	3/4	2,423.24	3/4	2,191.61	3/4	1,959.97	3/4	1,728.34
1		1		1		1	3,113.32	1	2,881.68	1	2,650.05	1	2,418.41	1	2,186.78	1	1,955.15	1	1,723.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,108.49	1/4	2,876.86	1/4	2,645.22	1/4	2,413.59	1/4	2,181.96	1/4	1,950.32	1/4	1,718.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,103.66	1/2	2,872.03	1/2	2,640.40	1/2	2,408.76	1/2	2,177.13	1/2	1,945.50	1/2	1,713.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,098.84	3/4	2,867.20	3/4	2,635.57	3/4	2,403.94	3/4	2,172.30	3/4	1,940.67	3/4	1,709.04
2		2		2		2	3,094.01	2	2,862.38	2	2,630.75	2	2,399.11	2	2,167.48	2	1,935.84	2	1,704.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,089.19	1/4	2,857.55	1/4	2,625.92	1/4	2,394.29	1/4	2,162.65	1/4	1,931.02	1/4	1,699.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,084.36	1/2	2,852.73	1/2	2,621.09	1/2	2,389.46	1/2	2,157.83	1/2	1,926.19	1/2	1,694.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,079.54	3/4	2,847.90	3/4	2,616.27	3/4	2,384.63	3/4	2,153.00	3/4	1,921.37	3/4	1,689.73
3		3		3		3	3,074.71	3	2,843.08	3	2,611.44	3	2,379.81	3	2,148.18	3	1,916.54	3	1,684.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,069.88	1/4	2,838.25	1/4	2,606.62	1/4	2,374.98	1/4	2,143.35	1/4	1,911.72	1/4	1,680.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,065.06	1/2	2,833.43	1/2	2,601.79	1/2	2,370.16	1/2	2,138.52	1/2	1,906.89	1/2	1,675.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,060.23	3/4	2,828.60	3/4	2,596.97	3/4	2,365.33	3/4	2,133.70	3/4	1,902.06	3/4	1,670.43
4		4		4		4	3,055.41	4	2,823.77	4	2,592.14	4	2,360.51	4	2,128.87	4	1,897.24	4	1,665.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,050.58	1/4	2,818.95	1/4	2,587.31	1/4	2,355.68	1/4	2,124.05	1/4	1,892.41	1/4	1,660.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,045.76	1/2	2,814.12	1/2	2,582.49	1/2	2,350.86	1/2	2,119.22	1/2	1,887.59	1/2	1,655.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,040.93	3/4	2,809.30	3/4	2,577.66	3/4	2,346.03	3/4	2,114.40	3/4	1,882.76	3/4	1,651.13
5		5		5		5	3,036.10	5	2,804.47	5	2,572.84	5	2,341.20	5	2,109.57	5	1,877.94	5	1,646.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,031.28	1/4	2,799.65	1/4	2,568.01	1/4	2,336.38	1/4	2,104.74	1/4	1,873.11	1/4	1,641.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,026.45	1/2	2,794.82	1/2	2,563.19	1/2	2,331.55	1/2	2,099.92	1/2	1,868.29	1/2	1,636.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,021.63	3/4	2,789.99	3/4	2,558.36	3/4	2,326.73	3/4	2,095.09	3/4	1,863.46	3/4	1,631.83
6		6		6		6	3,016.80	6	2,785.17	6	2,553.53	6	2,321.90	6	2,090.27	6	1,858.63	6	1,627.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,011.98	1/4	2,780.34	1/4	2,548.71	1/4	2,317.08	1/4	2,085.44	1/4	1,853.81	1/4	1,622.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,007.15	1/2	2,775.52	1/2	2,543.88	1/2	2,312.25	1/2	2,080.62	1/2	1,848.98	1/2	1,617.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,002.32	3/4	2,770.69	3/4	2,539.06	3/4	2,307.42	3/4	2,075.79	3/4	1,844.16	3/4	1,612.52
7		7		7	3,226.73	7	2,997.50	7	2,765.87	7	2,534.23	7	2,302.60	7	2,070.96	7	1,839.33	7	1,607.70
1/4	1/4	1/4	1/4	1/4	3,222.50	1/4	2,992.67	1/4	2,761.04	1/4	2,529.41	1/4	2,297.77	1/4	2,066.14	1/4	1,834.51	1/4	1,602.87
1/2	1/2	1/2	1/2	1/2	3,218.28	1/2	2,987.85	1/2	2,756.21	1/2	2,524.58	1/2	2,292.95	1/2	2,061.31	1/2	1,829.68	1/2	1,598.05
3/4	3/4	3/4	3/4	3/4	3,214.05	3/4	2,983.02	3/4	2,751.39	3/4	2,519.75	3/4	2,288.12	3/4	2,056.49	3/4	1,824.85	3/4	1,593.22
8		8		8	3,209.83	8	2,978.20	8	2,746.56	8	2,514.93	8	2,283.30	8	2,051.66	8	1,820.03	8	1,588.39
1/4	1/4	1/4	1/4	1/4	3,205.00	1/4	2,973.37	1/4	2,741.74	1/4	2,510.10	1/4	2,278.47	1/4	2,046.84	1/4	1,815.20	1/4	1,583.57
1/2	1/2	1/2	1/2	1/2	3,200.18	1/2	2,968.54	1/2	2,736.91	1/2	2,505.28	1/2	2,273.64	1/2	2,042.01	1/2	1,810.38	1/2	1,578.74
3/4	3/4	3/4	3/4	3/4	3,195.35	3/4	2,963.72	3/4	2,732.09	3/4	2,500.45	3/4	2,268.82	3/4	2,037.18	3/4	1,805.55	3/4	1,573.92
9		9		9	3,190.53	9	2,958.89	9	2,727.26	9	2,495.63	9	2,263.99	9	2,032.36	9	1,800.73	9	1,569.09
1/4	1/4	1/4	1/4	1/4	3,185.70	1/4	2,954.07	1/4	2,722.43	1/4	2,490.80	1/4	2,259.17	1/4	2,027.53	1/4	1,795.90	1/4	1,564.27
1/2	1/2	1/2	1/2	1/2	3,180.88	1/2	2,949.24	1/2	2,717.61	1/2	2,485.97	1/2	2,254.34	1/2	2,022.71	1/2	1,791.07	1/2	1,559.44
3/4	3/4	3/4	3/4	3/4	3,176.05	3/4	2,944.42	3/4	2,712.78	3/4	2,481.15	3/4	2,249.52	3/4	2,017.88	3/4	1,786.25	3/4	1,554.61
10		10		10	3,171.22	10	2,939.59	10	2,707.96	10	2,476.32	10	2,244.69	10	2,013.06	10	1,781.42	10	1,549.79
1/4	1/4	1/4	1/4	1/4	3,166.40	1/4	2,934.76	1/4	2,703.13	1/4	2,471.50	1/4	2,239.86	1/4	2,008.23	1/4	1,776.60	1/4	1,544.96
1/2	1/2	1/2	1/2	1/2	3,161.57	1/2	2,929.94	1/2	2,698.31	1/2	2,466.67	1/2	2,235.04	1/2	2,003.40	1/2	1,771.77	1/2	1,540.14
3/4	3/4	3/4	3/4	3/4	3,156.75	3/4	2,925.11	3/4	2,693.48	3/4	2,461.85	3/4	2,230.21	3/4	1,998.58	3/4	1,766.95	3/4	1,535.31
11		11		11	3,151.92	11	2,920.29	11	2,688.65	11	2,457.02	11	2,225.39	11	1,993.75	11	1,762.12	11	1,530.49
1/4	1/4	1/4	1/4	1/4	3,147.10	1/4	2,915.46	1/4	2,683.83	1/4	2,452.19	1/4	2,220.56	1/4	1,988.93	1/4	1,757.29	1/4	1,525.66
1/2	1/2	1/2	1/2	1/2	3,142.27	1/2	2,910.64	1/2	2,679.00	1/2	2,447.37	1/2	2,215.74	1/2	1,984.10	1/2	1,752.47	1/2	1,520.83
3/4	3/4	3/4	3/4	3/4	3,137.44	3/4	2,905.81	3/4	2,674.18	3/4	2,442.54	3/4	2,210.91	3/4	1,979.28	3/4	1,747.64	3/4	1,516.01

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "AL 2301"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	1,511.18	0	1,279.55	0	1,047.92	0	816.29	0	584.65	0	353.02	0	121.39	0		0			
1/4	1,506.36	1/4	1,274.72	1/4	1,043.10	1/4	811.46	1/4	579.83	1/4	348.20	1/4	116.57	1/4		1/4		1/4	
1/2	1,501.53	1/2	1,269.90	1/2	1,038.27	1/2	806.64	1/2	575.00	1/2	343.37	1/2	111.75	1/2		1/2		1/2	
3/4	1,496.71	3/4	1,265.07	3/4	1,033.45	3/4	801.81	3/4	570.18	3/4	338.54	3/4	106.93	3/4		3/4		3/4	
1	1,491.88	1	1,260.25	1	1,028.62	1	796.99	1	565.35	1	333.72	1	102.10	1		1		1	
1/4	1,487.05	1/4	1,255.42	1/4	1,023.79	1/4	792.16	1/4	560.53	1/4	328.89	1/4	97.29	1/4		1/4		1/4	
1/2	1,482.23	1/2	1,250.60	1/2	1,018.97	1/2	787.33	1/2	555.70	1/2	324.07	1/2	92.47	1/2		1/2		1/2	
3/4	1,477.40	3/4	1,245.77	3/4	1,014.14	3/4	782.51	3/4	550.87	3/4	319.24	3/4	87.66	3/4		3/4		3/4	
2	1,472.58	2	1,240.94	2	1,009.32	2	777.68	2	546.05	2	314.42	2	82.84	2		2		2	
1/4	1,467.75	1/4	1,236.12	1/4	1,004.49	1/4	772.86	1/4	541.22	1/4	309.59	1/4	78.04	1/4		1/4		1/4	
1/2	1,462.93	1/2	1,231.29	1/2	999.67	1/2	768.03	1/2	536.40	1/2	304.76	1/2	73.24	1/2		1/2		1/2	
3/4	1,458.10	3/4	1,226.47	3/4	994.84	3/4	763.21	3/4	531.57	3/4	299.94	3/4	68.43	3/4		3/4		3/4	
3	1,453.27	3	1,221.64	3	990.01	3	758.38	3	526.75	3	295.11	3	63.63	3		3		3	
1/4	1,448.45	1/4	1,216.82	1/4	985.19	1/4	753.55	1/4	521.92	1/4	290.29	1/4	58.84	1/4		1/4		1/4	
1/2	1,443.62	1/2	1,211.99	1/2	980.36	1/2	748.73	1/2	517.10	1/2	285.46	1/2	54.06	1/2		1/2		1/2	
3/4	1,438.80	3/4	1,207.16	3/4	975.54	3/4	743.90	3/4	512.27	3/4	280.64	3/4	49.27	3/4		3/4		3/4	
4	1,433.97	4	1,202.34	4	970.71	4	739.08	4	507.44	4	275.81	4	44.49	4		4		4	
1/4	1,429.15	1/4	1,197.51	1/4	965.89	1/4	734.25	1/4	502.62	1/4	270.98	1/4	39.91	1/4		1/4		1/4	
1/2	1,424.32	1/2	1,192.69	1/2	961.06	1/2	729.43	1/2	497.79	1/2	266.16	1/2	35.33	1/2		1/2		1/2	
3/4	1,419.49	3/4	1,187.86	3/4	956.23	3/4	724.60	3/4	492.97	3/4	261.33	3/4	30.75	3/4		3/4		3/4	
5	1,414.67	5	1,183.04	5	951.41	5	719.77	5	488.14	5	256.51	5	26.17	5		5		5	
1/4	1,409.84	1/4	1,178.21	1/4	946.58	1/4	714.95	1/4	483.32	1/4	251.68	1/4	22.55	1/4		1/4		1/4	
1/2	1,405.02	1/2	1,173.38	1/2	941.76	1/2	710.12	1/2	478.49	1/2	246.86	1/2	18.94	1/2		1/2		1/2	
3/4	1,400.19	3/4	1,168.56	3/4	936.93	3/4	705.30	3/4	473.66	3/4	242.03	3/4	15.32	3/4		3/4		3/4	
6	1,395.37	6	1,163.73	6	932.11	6	700.47	6	468.84	6	237.20	6	11.71	6		6		6	
1/4	1,390.54	1/4	1,158.91	1/4	927.28	1/4	695.65	1/4	464.01	1/4	232.38	1/4		1/4		1/4		1/4	
1/2	1,385.72	1/2	1,154.08	1/2	922.45	1/2	690.82	1/2	459.19	1/2	227.55	1/2		1/2		1/2		1/2	
3/4	1,380.89	3/4	1,149.26	3/4	917.63	3/4	685.99	3/4	454.36	3/4	222.73	3/4		3/4		3/4		3/4	
7	1,376.06	7	1,144.43	7	912.80	7	681.17	7	449.54	7	217.90	7		7		7		7	
1/4	1,371.24	1/4	1,139.60	1/4	907.98	1/4	676.34	1/4	444.71	1/4	213.08	1/4		1/4		1/4		1/4	
1/2	1,366.41	1/2	1,134.78	1/2	903.15	1/2	671.52	1/2	439.88	1/2	208.25	1/2		1/2		1/2		1/2	
3/4	1,361.59	3/4	1,129.95	3/4	898.33	3/4	666.69	3/4	435.06	3/4	203.43	3/4		3/4		3/4		3/4	
8	1,356.76	8	1,125.13	8	893.50	8	661.87	8	430.23	8	198.60	8		8		8		8	
1/4	1,351.94	1/4	1,120.30	1/4	888.67	1/4	657.04	1/4	425.41	1/4	193.77	1/4		1/4		1/4		1/4	
1/2	1,347.11	1/2	1,115.48	1/2	883.85	1/2	652.21	1/2	420.58	1/2	188.95	1/2		1/2		1/2		1/2	
3/4	1,342.28	3/4	1,110.65	3/4	879.02	3/4	647.39	3/4	415.76	3/4	184.12	3/4		3/4		3/4		3/4	
9	1,337.46	9	1,105.82	9	874.20	9	642.56	9	410.93	9	179.30	9		9		9		9	
1/4	1,332.63	1/4	1,101.00	1/4	869.37	1/4	637.74	1/4	406.10	1/4	174.47	1/4		1/4		1/4		1/4	
1/2	1,327.81	1/2	1,096.17	1/2	864.55	1/2	632.91	1/2	401.28	1/2	169.65	1/2		1/2		1/2		1/2	
3/4	1,322.98	3/4	1,091.35	3/4	859.72	3/4	628.09	3/4	396.45	3/4	164.82	3/4		3/4		3/4		3/4	
10	1,318.16	10	1,086.52	10	854.89	10	623.26	10	391.63	10	160.00	10		10		10		10	
1/4	1,313.33	1/4	1,081.70	1/4	850.07	1/4	618.43	1/4	386.80	1/4	155.17	1/4		1/4		1/4		1/4	
1/2	1,308.50	1/2	1,076.87	1/2	845.24	1/2	613.61	1/2	381.98	1/2	150.34	1/2		1/2		1/2		1/2	
3/4	1,303.68	3/4	1,072.05	3/4	840.42	3/4	608.78	3/4	377.15	3/4	145.52	3/4		3/4		3/4		3/4	
11	1,298.85	11	1,067.22	11	835.59	11	603.96	11	372.32	11	140.69	11		11		11		11	
1/4	1,294.03	1/4	1,062.40	1/4	830.77	1/4	599.13	1/4	367.50	1/4	135.87	1/4		1/4		1/4		1/4	
1/2	1,289.20	1/2	1,057.57	1/2	825.94	1/2	594.31	1/2	362.67	1/2	131.04	1/2		1/2		1/2		1/2	
3/4	1,284.38	3/4	1,052.75	3/4	821.11	3/4	589.48	3/4	357.85	3/4	126.22	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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





# BARGE "AL 2301"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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		0	3,121.45	0	2,890.29	0	2,659.12	0	2,427.96	0	2,196.80	0	1,965.63	0	1,734.47
1/4		1/4		1/4		1/4	3,116.63	1/4	2,885.47	1/4	2,654.31	1/4	2,423.14	1/4	2,191.98	1/4	1,960.82	1/4	1,729.66
1/2		1/2		1/2		1/2	3,111.82	1/2	2,880.66	1/2	2,649.49	1/2	2,418.33	1/2	2,187.17	1/2	1,956.00	1/2	1,724.84
3/4		3/4		3/4		3/4	3,107.00	3/4	2,875.84	3/4	2,644.68	3/4	2,413.51	3/4	2,182.35	3/4	1,951.19	3/4	1,720.02
1		1		1		1	3,102.19	1	2,871.02	1	2,639.86	1	2,408.70	1	2,177.53	1	1,946.37	1	1,715.21
1/4		1/4		1/4		1/4	3,097.37	1/4	2,866.21	1/4	2,635.04	1/4	2,403.88	1/4	2,172.72	1/4	1,941.55	1/4	1,710.39
1/2		1/2		1/2		1/2	3,092.56	1/2	2,861.39	1/2	2,630.23	1/2	2,399.07	1/2	2,167.90	1/2	1,936.74	1/2	1,705.58
3/4		3/4		3/4		3/4	3,087.74	3/4	2,856.58	3/4	2,625.41	3/4	2,394.25	3/4	2,163.09	3/4	1,931.92	3/4	1,700.76
2		2		2		2	3,082.92	2	2,851.76	2	2,620.60	2	2,389.43	2	2,158.27	2	1,927.11	2	1,695.94
1/4		1/4		1/4		1/4	3,078.11	1/4	2,846.94	1/4	2,615.78	1/4	2,384.62	1/4	2,153.45	1/4	1,922.29	1/4	1,691.13
1/2		1/2		1/2		1/2	3,073.29	1/2	2,842.13	1/2	2,610.97	1/2	2,379.80	1/2	2,148.64	1/2	1,917.48	1/2	1,686.31
3/4		3/4		3/4		3/4	3,068.48	3/4	2,837.31	3/4	2,606.15	3/4	2,374.99	3/4	2,143.82	3/4	1,912.66	3/4	1,681.50
3		3		3		3	3,063.66	3	2,832.50	3	2,601.33	3	2,370.17	3	2,139.01	3	1,907.84	3	1,676.68
1/4		1/4		1/4		1/4	3,058.84	1/4	2,827.68	1/4	2,596.52	1/4	2,365.35	1/4	2,134.19	1/4	1,903.03	1/4	1,671.86
1/2		1/2		1/2		1/2	3,054.03	1/2	2,822.86	1/2	2,591.70	1/2	2,360.54	1/2	2,129.38	1/2	1,898.21	1/2	1,667.05
3/4		3/4		3/4		3/4	3,049.21	3/4	2,818.05	3/4	2,586.89	3/4	2,355.72	3/4	2,124.56	3/4	1,893.40	3/4	1,662.23
4		4		4		4	3,044.40	4	2,813.23	4	2,582.07	4	2,350.91	4	2,119.74	4	1,888.58	4	1,657.42
1/4		1/4		1/4		1/4	3,039.58	1/4	2,808.42	1/4	2,577.25	1/4	2,346.09	1/4	2,114.93	1/4	1,883.76	1/4	1,652.60
1/2		1/2		1/2		1/2	3,034.76	1/2	2,803.60	1/2	2,572.44	1/2	2,341.27	1/2	2,110.11	1/2	1,878.95	1/2	1,647.79
3/4		3/4		3/4		3/4	3,029.95	3/4	2,798.79	3/4	2,567.62	3/4	2,336.46	3/4	2,105.30	3/4	1,874.13	3/4	1,642.97
5		5		5		5	3,025.13	5	2,793.97	5	2,562.81	5	2,331.64	5	2,100.48	5	1,869.32	5	1,638.15
1/4		1/4		1/4		1/4	3,020.32	1/4	2,789.15	1/4	2,557.99	1/4	2,326.83	1/4	2,095.66	1/4	1,864.50	1/4	1,633.34
1/2		1/2		1/2		1/2	3,015.50	1/2	2,784.34	1/2	2,553.17	1/2	2,322.01	1/2	2,090.85	1/2	1,859.68	1/2	1,628.52
3/4		3/4		3/4		3/4	3,010.68	3/4	2,779.52	3/4	2,548.36	3/4	2,317.20	3/4	2,086.03	3/4	1,854.87	3/4	1,623.71
6		6		6		6	3,005.87	6	2,774.71	6	2,543.54	6	2,312.38	6	2,081.22	6	1,850.05	6	1,618.89
1/4		1/4		1/4		1/4	3,001.05	1/4	2,769.89	1/4	2,538.73	1/4	2,307.56	1/4	2,076.40	1/4	1,845.24	1/4	1,614.07
1/2		1/2		1/2		1/2	2,996.24	1/2	2,765.07	1/2	2,533.91	1/2	2,302.75	1/2	2,071.58	1/2	1,840.42	1/2	1,609.26
3/4		3/4		3/4		3/4	3,220.19	3/4	2,991.42	3/4	2,760.26	3/4	2,297.93	3/4	2,066.77	3/4	1,835.61	3/4	1,604.44
7		7		7		7	3,215.97	7	2,986.61	7	2,755.44	7	2,524.28	7	2,293.12	7	2,061.95	7	1,830.79
1/4		1/4		1/4		1/4	3,211.76	1/4	2,981.79	1/4	2,750.63	1/4	2,519.46	1/4	2,288.30	1/4	2,057.14	1/4	1,825.97
1/2		1/2		1/2		1/2	3,207.54	1/2	2,976.97	1/2	2,745.81	1/2	2,514.65	1/2	2,283.48	1/2	2,052.32	1/2	1,821.16
3/4		3/4		3/4		3/4	3,203.32	3/4	2,972.16	3/4	2,740.99	3/4	2,509.83	3/4	2,278.67	3/4	2,047.50	3/4	1,816.34
8		8		8		8	3,198.50	8	2,967.34	8	2,736.18	8	2,505.02	8	2,273.85	8	2,042.69	8	1,811.53
1/4		1/4		1/4		1/4	3,193.69	1/4	2,962.53	1/4	2,731.36	1/4	2,500.20	1/4	2,269.04	1/4	2,037.87	1/4	1,806.71
1/2		1/2		1/2		1/2	3,188.87	1/2	2,957.71	1/2	2,726.55	1/2	2,495.38	1/2	2,264.22	1/2	2,033.06	1/2	1,801.89
3/4		3/4		3/4		3/4	3,184.06	3/4	2,952.89	3/4	2,721.73	3/4	2,490.57	3/4	2,259.40	3/4	2,028.24	3/4	1,797.08
9		9		9		9	3,179.24	9	2,948.08	9	2,716.91	9	2,485.75	9	2,254.59	9	2,023.43	9	1,792.26
1/4		1/4		1/4		1/4	3,174.43	1/4	2,943.26	1/4	2,712.10	1/4	2,480.94	1/4	2,249.77	1/4	2,018.61	1/4	1,787.45
1/2		1/2		1/2		1/2	3,169.61	1/2	2,938.45	1/2	2,707.28	1/2	2,476.12	1/2	2,244.96	1/2	2,013.79	1/2	1,782.63
3/4		3/4		3/4		3/4	3,164.79	3/4	2,933.63	3/4	2,702.47	3/4	2,471.30	3/4	2,240.14	3/4	2,008.98	3/4	1,777.81
10		10		10		10	3,159.98	10	2,928.81	10	2,697.65	10	2,466.49	10	2,235.32	10	2,004.16	10	1,773.00
1/4		1/4		1/4		1/4	3,155.16	1/4	2,924.00	1/4	2,692.84	1/4	2,461.67	1/4	2,230.51	1/4	1,999.35	1/4	1,768.18
1/2		1/2		1/2		1/2	3,150.35	1/2	2,919.18	1/2	2,688.02	1/2	2,456.86	1/2	2,225.69	1/2	1,994.53	1/2	1,763.37
3/4		3/4		3/4		3/4	3,145.53	3/4	2,914.37	3/4	2,683.20	3/4	2,452.04	3/4	2,220.88	3/4	1,989.71	3/4	1,758.55
11		11		11		11	3,140.71	11	2,909.55	11	2,678.39	11	2,447.22	11	2,216.06	11	1,984.90	11	1,753.73
1/4		1/4		1/4		1/4	3,135.90	1/4	2,904.74	1/4	2,673.57	1/4	2,442.41	1/4	2,211.25	1/4	1,980.08	1/4	1,748.92
1/2		1/2		1/2		1/2	3,131.08	1/2	2,899.92	1/2	2,668.76	1/2	2,437.59	1/2	2,206.43	1/2	1,975.27	1/2	1,744.10
3/4		3/4		3/4		3/4	3,126.27	3/4	2,895.10	3/4	2,663.94	3/4	2,432.78	3/4	2,201.61	3/4	1,970.45	3/4	1,508.12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "AL 2301"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	1,503.31	0	1,272.14	0	1,040.99	0	809.84	0	578.67	0	347.50	0	116.34	0		0			
1/4	1,498.49	1/4	1,267.33	1/4	1,036.17	1/4	805.02	1/4	573.85	1/4	342.68	1/4	111.53	1/4		1/4		1/4	
1/2	1,493.68	1/2	1,262.51	1/2	1,031.36	1/2	800.20	1/2	569.04	1/2	337.87	1/2	106.72	1/2		1/2		1/2	
3/4	1,488.86	3/4	1,257.70	3/4	1,026.54	3/4	795.39	3/4	564.22	3/4	333.05	3/4	101.91	3/4		3/4		3/4	
1	1,484.04	1	1,252.88	1	1,021.73	1	790.57	1	559.40	1	328.24	1	97.10	1		1		1	
1/4	1,479.23	1/4	1,248.07	1/4	1,016.92	1/4	785.76	1/4	554.59	1/4	323.42	1/4	92.30	1/4		1/4		1/4	
1/2	1,474.41	1/2	1,243.25	1/2	1,012.10	1/2	780.94	1/2	549.77	1/2	318.60	1/2	87.49	1/2		1/2		1/2	
3/4	1,469.60	3/4	1,238.43	3/4	1,007.29	3/4	776.12	3/4	544.96	3/4	313.79	3/4	82.69	3/4		3/4		3/4	
2	1,464.78	2	1,233.62	2	1,002.48	2	771.31	2	540.14	2	308.97	2	77.89	2		2		2	
1/4	1,459.96	1/4	1,228.80	1/4	997.66	1/4	766.49	1/4	535.32	1/4	304.16	1/4	73.10	1/4		1/4		1/4	
1/2	1,455.15	1/2	1,223.99	1/2	992.84	1/2	761.68	1/2	530.51	1/2	299.34	1/2	68.30	1/2		1/2		1/2	
3/4	1,450.33	3/4	1,219.17	3/4	988.03	3/4	756.86	3/4	525.69	3/4	294.52	3/4	63.51	3/4		3/4		3/4	
3	1,445.52	3	1,214.35	3	983.21	3	752.04	3	520.88	3	289.71	3	58.73	3		3		3	
1/4	1,440.70	1/4	1,209.54	1/4	978.40	1/4	747.23	1/4	516.06	1/4	284.89	1/4	53.96	1/4		1/4		1/4	
1/2	1,435.89	1/2	1,204.72	1/2	973.58	1/2	742.41	1/2	511.24	1/2	280.08	1/2	49.18	1/2		1/2		1/2	
3/4	1,431.07	3/4	1,199.91	3/4	968.76	3/4	737.60	3/4	506.43	3/4	275.26	3/4	44.41	3/4		3/4		3/4	
4	1,426.25	4	1,195.09	4	963.95	4	732.78	4	501.61	4	270.44	4	39.84	4		4		4	
1/4	1,421.44	1/4	1,190.27	1/4	959.13	1/4	727.96	1/4	496.80	1/4	265.63	1/4	35.27	1/4		1/4		1/4	
1/2	1,416.62	1/2	1,185.46	1/2	954.32	1/2	723.15	1/2	491.98	1/2	260.81	1/2	30.70	1/2		1/2		1/2	
3/4	1,411.81	3/4	1,180.64	3/4	949.50	3/4	718.33	3/4	487.16	3/4	256.00	3/4	26.13	3/4		3/4		3/4	
5	1,406.99	5	1,175.83	5	944.68	5	713.52	5	482.35	5	251.18	5	22.52	5		5		5	
1/4	1,402.17	1/4	1,171.01	1/4	939.87	1/4	708.70	1/4	477.53	1/4	246.36	1/4	18.91	1/4		1/4		1/4	
1/2	1,397.36	1/2	1,166.20	1/2	935.05	1/2	703.88	1/2	472.72	1/2	241.55	1/2	15.30	1/2		1/2		1/2	
3/4	1,392.54	3/4	1,161.38	3/4	930.24	3/4	699.07	3/4	467.90	3/4	236.73	3/4	11.68	3/4		3/4		3/4	
6	1,387.73	6	1,156.56	6	925.42	6	694.25	6	463.08	6	231.92	6		6		6		6	
1/4	1,382.91	1/4	1,151.75	1/4	920.60	1/4	689.44	1/4	458.27	1/4	227.10	1/4		1/4		1/4		1/4	
1/2	1,378.09	1/2	1,146.93	1/2	915.79	1/2	684.62	1/2	453.45	1/2	222.28	1/2		1/2		1/2		1/2	
3/4	1,373.28	3/4	1,142.12	3/4	910.97	3/4	679.80	3/4	448.64	3/4	217.47	3/4		3/4		3/4		3/4	
7	1,368.46	7	1,137.30	7	906.16	7	674.99	7	443.82	7	212.65	7		7		7		7	
1/4	1,363.65	1/4	1,132.48	1/4	901.34	1/4	670.17	1/4	439.00	1/4	207.84	1/4		1/4		1/4		1/4	
1/2	1,358.83	1/2	1,127.67	1/2	896.52	1/2	665.36	1/2	434.19	1/2	203.02	1/2		1/2		1/2		1/2	
3/4	1,354.02	3/4	1,122.85	3/4	891.71	3/4	660.54	3/4	429.37	3/4	198.21	3/4		3/4		3/4		3/4	
8	1,349.20	8	1,118.04	8	886.89	8	655.72	8	424.56	8	193.39	8		8		8		8	
1/4	1,344.38	1/4	1,113.22	1/4	882.08	1/4	650.91	1/4	419.74	1/4	188.57	1/4		1/4		1/4		1/4	
1/2	1,339.57	1/2	1,108.40	1/2	877.26	1/2	646.09	1/2	414.92	1/2	183.76	1/2		1/2		1/2		1/2	
3/4	1,334.75	3/4	1,103.59	3/4	872.44	3/4	641.28	3/4	410.11	3/4	178.94	3/4		3/4		3/4		3/4	
9	1,329.94	9	1,098.77	9	867.63	9	636.46	9	405.29	9	174.13	9		9		9		9	
1/4	1,325.12	1/4	1,093.96	1/4	862.81	1/4	631.64	1/4	400.48	1/4	169.31	1/4		1/4		1/4		1/4	
1/2	1,320.30	1/2	1,089.14	1/2	858.00	1/2	626.83	1/2	395.66	1/2	164.50	1/2		1/2		1/2		1/2	
3/4	1,315.49	3/4	1,084.32	3/4	853.18	3/4	622.01	3/4	390.84	3/4	159.68	3/4		3/4		3/4		3/4	
10	1,310.67	10	1,079.51	10	848.36	10	617.20	10	386.03	10	154.86	10		10		10		10	
1/4	1,305.86	1/4	1,074.69	1/4	843.55	1/4	612.38	1/4	381.21	1/4	150.05	1/4		1/4		1/4		1/4	
1/2	1,301.04	1/2	1,069.88	1/2	838.73	1/2	607.56	1/2	376.40	1/2	145.23	1/2		1/2		1/2		1/2	
3/4	1,296.22	3/4	1,065.06	3/4	833.92	3/4	602.75	3/4	371.58	3/4	140.42	3/4		3/4		3/4		3/4	
11	1,291.41	11	1,060.25	11	829.10	11	597.93	11	366.76	11	135.60	11		11		11		11	
1/4	1,286.59	1/4	1,055.43	1/4	824.28	1/4	593.12	1/4	361.95	1/4	130.79	1/4		1/4		1/4		1/4	
1/2	1,281.78	1/2	1,050.62	1/2	819.47	1/2	588.30	1/2	357.13	1/2	125.97	1/2		1/2		1/2		1/2	
3/4	1,276.96	3/4	1,045.80	3/4	814.65	3/4	583.48	3/4	352.32	3/4	121.15	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 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
4 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
4 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 = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 211'-00"

October 24, 2018

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "AL 2301"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	11.65	0	236.02	0	466.49	0	696.95	0	927.42	0	1,157.89	0	1,388.35	0	1,618.82	0	1,849.29	0	2,079.76
1/4	15.25	1/4	240.82	1/4	471.29	1/4	701.75	1/4	932.22	1/4	1,162.69	1/4	1,393.16	1/4	1,623.62	1/4	1,854.09	1/4	2,084.56
1/2	18.85	1/2	245.62	1/2	476.09	1/2	706.56	1/2	937.02	1/2	1,167.49	1/2	1,397.96	1/2	1,628.42	1/2	1,858.89	1/2	2,089.36
3/4	22.45	3/4	250.42	3/4	480.89	3/4	711.36	3/4	941.82	3/4	1,172.29	3/4	1,402.76	3/4	1,633.23	3/4	1,863.69	3/4	2,094.16
1	26.05	1	255.22	1	485.69	1	716.16	1	946.63	1	1,177.09	1	1,407.56	1	1,638.03	1	1,868.49	1	2,098.96
1/4	30.61	1/4	260.03	1/4	490.49	1/4	720.96	1/4	951.43	1/4	1,181.89	1/4	1,412.36	1/4	1,642.83	1/4	1,873.30	1/4	2,103.76
1/2	35.16	1/2	264.83	1/2	495.29	1/2	725.76	1/2	956.23	1/2	1,186.70	1/2	1,417.16	1/2	1,647.63	1/2	1,878.10	1/2	2,108.56
3/4	39.72	3/4	269.63	3/4	500.10	3/4	730.56	3/4	961.03	3/4	1,191.50	3/4	1,421.96	3/4	1,652.43	3/4	1,882.90	3/4	2,113.37
2	44.27	2	274.43	2	504.90	2	735.36	2	965.83	2	1,196.30	2	1,426.77	2	1,657.23	2	1,887.70	2	2,118.17
1/4	49.03	1/4	279.23	1/4	509.70	1/4	740.17	1/4	970.63	1/4	1,201.10	1/4	1,431.57	1/4	1,662.03	1/4	1,892.50	1/4	2,122.97
1/2	53.79	1/2	284.03	1/2	514.50	1/2	744.97	1/2	975.43	1/2	1,205.90	1/2	1,436.37	1/2	1,666.84	1/2	1,897.30	1/2	2,127.77
3/4	58.56	3/4	288.83	3/4	519.30	3/4	749.77	3/4	980.24	3/4	1,210.70	3/4	1,441.17	3/4	1,671.64	3/4	1,902.10	3/4	2,132.57
3	63.32	3	293.64	3	524.10	3	754.57	3	985.04	3	1,215.50	3	1,445.97	3	1,676.44	3	1,906.91	3	2,137.37
1/4	68.10	1/4	298.44	1/4	528.90	1/4	759.37	1/4	989.84	1/4	1,220.30	1/4	1,450.77	1/4	1,681.24	1/4	1,911.71	1/4	2,142.17
1/2	72.88	1/2	303.24	1/2	533.71	1/2	764.17	1/2	994.64	1/2	1,225.11	1/2	1,455.57	1/2	1,686.04	1/2	1,916.51	1/2	2,146.98
3/4	77.66	3/4	308.04	3/4	538.51	3/4	768.97	3/4	999.44	3/4	1,229.91	3/4	1,460.37	3/4	1,690.84	3/4	1,921.31	3/4	2,151.78
4	82.44	4	312.84	4	543.31	4	773.78	4	1,004.24	4	1,234.71	4	1,465.18	4	1,695.64	4	1,926.11	4	2,156.58
1/4	87.23	1/4	317.64	1/4	548.11	1/4	778.58	1/4	1,009.05	1/4	1,239.51	1/4	1,469.98	1/4	1,700.44	1/4	1,930.91	1/4	2,161.38
1/2	92.02	1/2	322.44	1/2	552.91	1/2	783.38	1/2	1,013.85	1/2	1,244.31	1/2	1,474.78	1/2	1,705.25	1/2	1,935.71	1/2	2,166.18
3/4	96.81	3/4	327.25	3/4	557.71	3/4	788.18	3/4	1,018.65	3/4	1,249.11	3/4	1,479.58	3/4	1,710.05	3/4	1,940.51	3/4	2,170.98
5	101.60	5	332.05	5	562.51	5	792.98	5	1,023.45	5	1,253.91	5	1,484.38	5	1,714.85	5	1,945.32	5	2,175.78
1/4	106.40	1/4	336.85	1/4	567.32	1/4	797.78	1/4	1,028.25	1/4	1,258.72	1/4	1,489.18	1/4	1,719.65	1/4	1,950.12	1/4	2,180.58
1/2	111.19	1/2	341.65	1/2	572.12	1/2	802.58	1/2	1,033.06	1/2	1,263.52	1/2	1,493.98	1/2	1,724.45	1/2	1,954.92	1/2	2,185.39
3/4	115.99	3/4	346.45	3/4	576.92	3/4	807.39	3/4	1,037.86	3/4	1,268.32	3/4	1,498.79	3/4	1,729.25	3/4	1,959.72	3/4	2,190.19
6	120.79	6	351.25	6	581.72	6	812.19	6	1,042.66	6	1,273.12	6	1,503.59	6	1,734.05	6	1,964.52	6	2,194.99
1/4	125.59	1/4	356.05	1/4	586.52	1/4	816.99	1/4	1,047.46	1/4	1,277.92	1/4	1,508.39	1/4	1,738.86	1/4	1,969.32	1/4	2,199.79
1/2	130.39	1/2	360.86	1/2	591.32	1/2	821.79	1/2	1,052.26	1/2	1,282.72	1/2	1,513.19	1/2	1,743.66	1/2	1,974.12	1/2	2,204.59
3/4	135.19	3/4	365.66	3/4	596.12	3/4	826.59	3/4	1,057.06	3/4	1,287.52	3/4	1,517.99	3/4	1,748.46	3/4	1,978.93	3/4	2,209.39
7	139.99	7	370.46	7	600.92	7	831.39	7	1,061.86	7	1,292.33	7	1,522.79	7	1,753.26	7	1,983.73	7	2,214.19
1/4	144.79	1/4	375.26	1/4	605.73	1/4	836.19	1/4	1,066.66	1/4	1,297.13	1/4	1,527.59	1/4	1,758.06	1/4	1,988.53	1/4	2,219.00
1/2	149.60	1/2	380.06	1/2	610.53	1/2	840.99	1/2	1,071.46	1/2	1,301.93	1/2	1,532.40	1/2	1,762.86	1/2	1,993.33	1/2	2,223.80
3/4	154.40	3/4	384.86	3/4	615.33	3/4	845.80	3/4	1,076.26	3/4	1,306.73	3/4	1,537.20	3/4	1,767.66	3/4	1,998.13	3/4	2,228.60
8	159.20	8	389.66	8	620.13	8	850.60	8	1,081.06	8	1,311.53	8	1,542.00	8	1,772.47	8	2,002.93	8	2,233.40
1/4	164.00	1/4	394.46	1/4	624.93	1/4	855.40	1/4	1,085.87	1/4	1,316.33	1/4	1,546.80	1/4	1,777.27	1/4	2,007.73	1/4	2,238.20
1/2	168.80	1/2	399.27	1/2	629.73	1/2	860.20	1/2	1,090.67	1/2	1,321.13	1/2	1,551.60	1/2	1,782.07	1/2	2,012.54	1/2	2,243.00
3/4	173.60	3/4	404.07	3/4	634.53	3/4	865.00	3/4	1,095.47	3/4	1,325.94	3/4	1,556.40	3/4	1,786.87	3/4	2,017.34	3/4	2,247.80
9	178.40	9	408.87	9	639.34	9	869.80	9	1,100.27	9	1,330.74	9	1,561.20	9	1,791.67	9	2,022.14	9	2,252.61
1/4	183.21	1/4	413.67	1/4	644.14	1/4	874.60	1/4	1,105.07	1/4	1,335.54	1/4	1,566.01	1/4	1,796.47	1/4	2,026.94	1/4	2,257.41
1/2	188.01	1/2	418.47	1/2	648.94	1/2	879.41	1/2	1,109.87	1/2	1,340.34	1/2	1,570.81	1/2	1,801.27	1/2	2,031.74	1/2	2,262.21
3/4	192.81	3/4	423.27	3/4	653.74	3/4	884.21	3/4	1,114.67	3/4	1,345.14	3/4	1,575.61	3/4	1,806.08	3/4	2,036.54	3/4	2,267.01
10	197.61	10	428.07	10	658.54	10	889.01	10	1,119.48	10	1,349.94	10	1,580.41	10	1,810.88	10	2,041.34	10	2,271.81
1/4	202.41	1/4	432.88	1/4	663.34	1/4	893.81	1/4	1,124.28	1/4	1,354.74	1/4	1,585.21	1/4	1,815.68	1/4	2,046.15	1/4	2,276.61
1/2	207.21	1/2	437.68	1/2	668.14	1/2	898.61	1/2	1,129.08	1/2	1,359.55	1/2	1,590.01	1/2	1,820.48	1/2	2,050.95	1/2	2,281.41
3/4	212.01	3/4	442.48	3/4	672.95	3/4	903.41	3/4	1,133.88	3/4	1,364.35	3/4	1,594.81	3/4	1,825.28	3/4	2,055.75	3/4	2,286.22
11	216.81	11	447.28	11	677.75	11	908.21	11	1,138.68	11	1,369.15	11	1,599.62	11	1,830.08	11	2,060.55	11	2,291.02
1/4	221.61	1/4	452.08	1/4	682.55	1/4	913.02	1/4	1,143.48	1/4	1,373.95	1/4	1,604.42	1/4	1,834.88	1/4	2,065.35	1/4	2,295.82
1/2	226.42	1/2	456.88	1/2	687.35	1/2	917.82	1/2	1,148.28	1/2	1,378.75	1/2	1,609.22	1/2	1,839.69	1/2	2,070.15	1/2	2,300.62
3/4	231.22	3/4	461.68	3/4	692.15	3/4	922.62	3/4	1,153.09	3/4	1,383.55	3/4	1,614.02	3/4	1,844.49	3/4	2,074.95	3/4	2,305.42

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 INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "AL 2301"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,310.22	0	2,540.69	0	2,771.16	0	3,001.62	0		0		0		0		0		0	
1/4	2,315.02	1/4	2,545.49	1/4	2,775.96	1/4	3,006.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,319.83	1/2	2,550.29	1/2	2,780.76	1/2	3,011.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,324.63	3/4	2,555.09	3/4	2,785.56	3/4	3,016.03	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,329.43	1	2,559.90	1	2,790.36	1	3,020.83	1		1		1		1		1		1	
1/4	2,334.23	1/4	2,564.70	1/4	2,795.16	1/4	3,025.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,339.03	1/2	2,569.50	1/2	2,799.97	1/2	3,030.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,343.83	3/4	2,574.30	3/4	2,804.77	3/4	3,035.23	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,348.63	2	2,579.10	2	2,809.57	2	3,040.04	2		2		2		2		2		2	
1/4	2,353.44	1/4	2,583.90	1/4	2,814.37	1/4	3,044.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,358.24	1/2	2,588.70	1/2	2,819.17	1/2	3,049.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,363.04	3/4	2,593.51	3/4	2,823.97	3/4	3,054.44	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,367.84	3	2,598.31	3	2,828.77	3	3,059.24	3		3		3		3		3		3	
1/4	2,372.64	1/4	2,603.11	1/4	2,833.58	1/4	3,064.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,377.44	1/2	2,607.91	1/2	2,838.38	1/2	3,068.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,382.24	3/4	2,612.71	3/4	2,843.18	3/4	3,073.65	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,387.04	4	2,617.51	4	2,847.98	4	3,078.45	4		4		4		4		4		4	
1/4	2,391.85	1/4	2,622.31	1/4	2,852.78	1/4	3,083.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,396.65	1/2	2,627.11	1/2	2,857.58	1/2	3,088.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,401.45	3/4	2,631.92	3/4	2,862.38	3/4	3,092.85	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,406.25	5	2,636.72	5	2,867.18	5	3,097.65	5		5		5		5		5		5	
1/4	2,411.05	1/4	2,641.52	1/4	2,871.99	1/4	3,102.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,415.85	1/2	2,646.32	1/2	2,876.79	1/2	3,107.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,420.65	3/4	2,651.12	3/4	2,881.59	3/4	3,112.06	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,425.46	6	2,655.92	6	2,886.39	6	3,116.86	6		6		6		6		6		6	
1/4	2,430.26	1/4	2,660.72	1/4	2,891.19	1/4	3,121.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,435.06	1/2	2,665.53	1/2	2,895.99	1/2	3,126.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,439.86	3/4	2,670.33	3/4	2,900.79	3/4	3,131.26	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,444.66	7	2,675.13	7	2,905.60	7	3,136.06	7		7		7		7		7		7	
1/4	2,449.46	1/4	2,679.93	1/4	2,910.40	1/4	3,140.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,454.26	1/2	2,684.73	1/2	2,915.20	1/2	3,145.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,459.07	3/4	2,689.53	3/4	2,920.00	3/4	3,150.47	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,463.87	8	2,694.33	8	2,924.80	8	3,155.27	8		8		8		8		8		8	
1/4	2,468.67	1/4	2,699.14	1/4	2,929.60	1/4	3,160.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,473.47	1/2	2,703.94	1/2	2,934.40	1/2	3,164.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,478.27	3/4	2,708.74	3/4	2,939.21	3/4	3,169.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,483.07	9	2,713.54	9	2,944.01	9	3,174.47	9		9		9		9		9		9	
1/4	2,487.87	1/4	2,718.34	1/4	2,948.81	1/4	3,179.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,492.68	1/2	2,723.14	1/2	2,953.61	1/2	3,184.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,497.48	3/4	2,727.94	3/4	2,958.41	3/4	3,188.88	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,502.28	10	2,732.75	10	2,963.21	10	3,193.68	10		10		10		10		10		10	
1/4	2,507.08	1/4	2,737.55	1/4	2,968.01	1/4	3,197.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,511.88	1/2	2,742.35	1/2	2,972.82	1/2	3,202.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,516.68	3/4	2,747.15	3/4	2,977.62	3/4	3,206.30	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,521.48	11	2,751.95	11	2,982.42	11	3,210.51	11		11		11		11		11		11	
1/4	2,526.29	1/4	2,756.75	1/4	2,987.22	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,531.09	1/2	2,761.55	1/2	2,992.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,535.89	3/4	2,766.36	3/4	2,996.82	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	11.66	0	236.12	0	466.70	0	697.27	0	927.84	0	1,158.40	0	1,388.97	0	1,619.54	0	1,850.10	0	2,080.67
1/4	15.26	1/4	240.93	1/4	471.50	1/4	702.07	1/4	932.65	1/4	1,163.20	1/4	1,393.77	1/4	1,624.34	1/4	1,854.91	1/4	2,085.47
1/2	18.86	1/2	245.73	1/2	476.30	1/2	706.88	1/2	937.45	1/2	1,168.01	1/2	1,398.57	1/2	1,629.14	1/2	1,859.71	1/2	2,090.28
3/4	22.46	3/4	250.53	3/4	481.11	3/4	711.68	3/4	942.25	3/4	1,172.81	3/4	1,403.38	3/4	1,633.95	3/4	1,864.51	3/4	2,095.08
1	26.06	1	255.34	1	485.91	1	716.48	1	947.06	1	1,177.61	1	1,408.18	1	1,638.75	1	1,869.32	1	2,099.89
1/4	30.62	1/4	260.14	1/4	490.71	1/4	721.29	1/4	951.86	1/4	1,182.42	1/4	1,412.98	1/4	1,643.55	1/4	1,874.12	1/4	2,104.69
1/2	35.18	1/2	264.95	1/2	495.52	1/2	726.09	1/2	956.66	1/2	1,187.22	1/2	1,417.79	1/2	1,648.36	1/2	1,878.92	1/2	2,109.49
3/4	39.73	3/4	269.75	3/4	500.32	3/4	730.89	3/4	961.47	3/4	1,192.02	3/4	1,422.59	3/4	1,653.16	3/4	1,883.73	3/4	2,114.30
2	44.29	2	274.55	2	505.13	2	735.70	2	966.27	2	1,196.83	2	1,427.40	2	1,657.96	2	1,888.53	2	2,119.10
1/4	49.06	1/4	279.36	1/4	509.93	1/4	740.50	1/4	971.07	1/4	1,201.63	1/4	1,432.20	1/4	1,662.77	1/4	1,893.33	1/4	2,123.90
1/2	53.82	1/2	284.16	1/2	514.73	1/2	745.31	1/2	975.88	1/2	1,206.43	1/2	1,437.00	1/2	1,667.57	1/2	1,898.14	1/2	2,128.71
3/4	58.58	3/4	288.96	3/4	519.54	3/4	750.11	3/4	980.68	3/4	1,211.24	3/4	1,441.81	3/4	1,672.37	3/4	1,902.94	3/4	2,133.51
3	63.35	3	293.77	3	524.34	3	754.91	3	985.49	3	1,216.04	3	1,446.61	3	1,677.18	3	1,907.75	3	2,138.31
1/4	68.13	1/4	298.57	1/4	529.14	1/4	759.72	1/4	990.29	1/4	1,220.84	1/4	1,451.41	1/4	1,681.98	1/4	1,912.55	1/4	2,143.12
1/2	72.91	1/2	303.37	1/2	533.95	1/2	764.52	1/2	995.09	1/2	1,225.65	1/2	1,456.22	1/2	1,686.78	1/2	1,917.35	1/2	2,147.92
3/4	77.69	3/4	308.18	3/4	538.75	3/4	769.32	3/4	999.90	3/4	1,230.45	3/4	1,461.02	3/4	1,691.59	3/4	1,922.16	3/4	2,152.72
4	82.47	4	312.98	4	543.55	4	774.13	4	1,004.70	4	1,235.26	4	1,465.82	4	1,696.39	4	1,926.96	4	2,157.53
1/4	87.27	1/4	317.78	1/4	548.36	1/4	778.93	1/4	1,009.50	1/4	1,240.06	1/4	1,470.63	1/4	1,701.19	1/4	1,931.76	1/4	2,162.33
1/2	92.06	1/2	322.59	1/2	553.16	1/2	783.73	1/2	1,014.30	1/2	1,244.86	1/2	1,475.43	1/2	1,706.00	1/2	1,936.57	1/2	2,167.13
3/4	96.85	3/4	327.39	3/4	557.96	3/4	788.54	3/4	1,019.11	3/4	1,249.67	3/4	1,480.23	3/4	1,710.80	3/4	1,941.37	3/4	2,171.94
5	101.64	5	332.20	5	562.77	5	793.34	5	1,023.91	5	1,254.47	5	1,485.04	5	1,715.61	5	1,946.17	5	2,176.74
1/4	106.44	1/4	337.00	1/4	567.57	1/4	798.14	1/4	1,028.71	1/4	1,259.27	1/4	1,489.84	1/4	1,720.41	1/4	1,950.98	1/4	2,181.54
1/2	111.24	1/2	341.80	1/2	572.38	1/2	802.95	1/2	1,033.51	1/2	1,264.08	1/2	1,494.64	1/2	1,725.21	1/2	1,955.78	1/2	2,186.35
3/4	116.04	3/4	346.61	3/4	577.18	3/4	807.75	3/4	1,038.32	3/4	1,268.88	3/4	1,499.45	3/4	1,730.02	3/4	1,960.58	3/4	2,191.15
6	120.84	6	351.41	6	581.98	6	812.56	6	1,043.12	6	1,273.68	6	1,504.25	6	1,734.82	6	1,965.39	6	2,195.96
1/4	125.65	1/4	356.21	1/4	586.79	1/4	817.36	1/4	1,047.92	1/4	1,278.49	1/4	1,509.05	1/4	1,739.62	1/4	1,970.19	1/4	2,200.76
1/2	130.45	1/2	361.02	1/2	591.59	1/2	822.16	1/2	1,052.72	1/2	1,283.29	1/2	1,513.86	1/2	1,744.43	1/2	1,974.99	1/2	2,205.56
3/4	135.25	3/4	365.82	3/4	596.39	3/4	826.97	3/4	1,057.53	3/4	1,288.09	3/4	1,518.66	3/4	1,749.23	3/4	1,979.80	3/4	2,210.37
7	140.05	7	370.62	7	601.20	7	831.77	7	1,062.33	7	1,292.90	7	1,523.47	7	1,754.03	7	1,984.60	7	2,215.17
1/4	144.86	1/4	375.43	1/4	606.00	1/4	836.57	1/4	1,067.13	1/4	1,297.70	1/4	1,528.27	1/4	1,758.84	1/4	1,989.40	1/4	2,219.97
1/2	149.66	1/2	380.23	1/2	610.80	1/2	841.38	1/2	1,071.94	1/2	1,302.50	1/2	1,533.07	1/2	1,763.64	1/2	1,994.21	1/2	2,224.78
3/4	154.47	3/4	385.04	3/4	615.61	3/4	846.18	3/4	1,076.74	3/4	1,307.31	3/4	1,537.88	3/4	1,768.44	3/4	1,999.01	3/4	2,229.58
8	159.27	8	389.84	8	620.41	8	850.98	8	1,081.54	8	1,312.11	8	1,542.68	8	1,773.25	8	2,003.82	8	2,234.38
1/4	164.07	1/4	394.64	1/4	625.22	1/4	855.79	1/4	1,086.35	1/4	1,316.91	1/4	1,547.48	1/4	1,778.05	1/4	2,008.62	1/4	2,239.19
1/2	168.88	1/2	399.45	1/2	630.02	1/2	860.59	1/2	1,091.15	1/2	1,321.72	1/2	1,552.29	1/2	1,782.85	1/2	2,013.42	1/2	2,243.99
3/4	173.68	3/4	404.25	3/4	634.82	3/4	865.40	3/4	1,095.95	3/4	1,326.52	3/4	1,557.09	3/4	1,787.66	3/4	2,018.23	3/4	2,248.79
9	178.48	9	409.05	9	639.63	9	870.20	9	1,100.76	9	1,331.33	9	1,561.89	9	1,792.46	9	2,023.03	9	2,253.60
1/4	183.29	1/4	413.86	1/4	644.43	1/4	875.00	1/4	1,105.56	1/4	1,336.13	1/4	1,566.70	1/4	1,797.26	1/4	2,027.83	1/4	2,258.40
1/2	188.09	1/2	418.66	1/2	649.23	1/2	879.81	1/2	1,110.36	1/2	1,340.93	1/2	1,571.50	1/2	1,802.07	1/2	2,032.64	1/2	2,263.20
3/4	192.89	3/4	423.46	3/4	654.04	3/4	884.61	3/4	1,115.17	3/4	1,345.74	3/4	1,576.30	3/4	1,806.87	3/4	2,037.44	3/4	2,268.01
10	197.70	10	428.27	10	658.84	10	889.41	10	1,119.97	10	1,350.54	10	1,581.11	10	1,811.68	10	2,042.24	10	2,272.81
1/4	202.50	1/4	433.07	1/4	663.64	1/4	894.22	1/4	1,124.77	1/4	1,355.34	1/4	1,585.91	1/4	1,816.48	1/4	2,047.05	1/4	2,277.61
1/2	207.30	1/2	437.87	1/2	668.45	1/2	899.02	1/2	1,129.58	1/2	1,360.15	1/2	1,590.71	1/2	1,821.28	1/2	2,051.85	1/2	2,282.42
3/4	212.11	3/4	442.68	3/4	673.25	3/4	903.82	3/4	1,134.38	3/4	1,364.95	3/4	1,595.52	3/4	1,826.09	3/4	2,056.65	3/4	2,287.22
11	216.91	11	447.48	11	678.05	11	908.63	11	1,139.19	11	1,369.75	11	1,600.32	11	1,830.89	11	2,061.46	11	2,292.03
1/4	221.71	1/4	452.29	1/4	682.86	1/4	913.43	1/4	1,143.99	1/4	1,374.56	1/4	1,605.12	1/4	1,835.69	1/4	2,066.26	1/4	2,296.83
1/2	226.52	1/2	457.09	1/2	687.66	1/2	918.23	1/2	1,148.79	1/2	1,379.36	1/2	1,609.93	1/2	1,840.50	1/2	2,071.06	1/2	2,301.63
3/4	231.32	3/4	461.89	3/4	692.47	3/4	923.04	3/4	1,153.60	3/4	1,384.16	3/4	1,614.73	3/4	1,845.30	3/4	2,075.87	3/4	2,306.44

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 INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "AL 2301"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,311.24	0	2,541.81	0	2,772.38	0	3,002.94	0		0		0		0		0		0	
1/4	2,316.04	1/4	2,546.61	1/4	2,777.18	1/4	3,007.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,320.85	1/2	2,551.41	1/2	2,781.98	1/2	3,012.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,325.65	3/4	2,556.22	3/4	2,786.79	3/4	3,017.35	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,330.45	1	2,561.02	1	2,791.59	1	3,022.16	1		1		1		1		1		1	
1/4	2,335.26	1/4	2,565.82	1/4	2,796.39	1/4	3,026.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,340.06	1/2	2,570.63	1/2	2,801.20	1/2	3,031.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,344.86	3/4	2,575.43	3/4	2,806.00	3/4	3,036.57	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,349.67	2	2,580.24	2	2,810.80	2	3,041.37	2		2		2		2		2		2	
1/4	2,354.47	1/4	2,585.04	1/4	2,815.61	1/4	3,046.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,359.27	1/2	2,589.84	1/2	2,820.41	1/2	3,050.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,364.08	3/4	2,594.65	3/4	2,825.21	3/4	3,055.78	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,368.88	3	2,599.45	3	2,830.02	3	3,060.59	3		3		3		3		3		3	
1/4	2,373.68	1/4	2,604.25	1/4	2,834.82	1/4	3,065.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,378.49	1/2	2,609.06	1/2	2,839.62	1/2	3,070.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,383.29	3/4	2,613.86	3/4	2,844.43	3/4	3,075.00	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,388.10	4	2,618.66	4	2,849.23	4	3,079.80	4		4		4		4		4		4	
1/4	2,392.90	1/4	2,623.47	1/4	2,854.03	1/4	3,084.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,397.70	1/2	2,628.27	1/2	2,858.84	1/2	3,089.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,402.51	3/4	2,633.07	3/4	2,863.64	3/4	3,094.21	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,407.31	5	2,637.88	5	2,868.45	5	3,099.01	5		5		5		5		5		5	
1/4	2,412.11	1/4	2,642.68	1/4	2,873.25	1/4	3,103.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,416.92	1/2	2,647.48	1/2	2,878.05	1/2	3,108.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,421.72	3/4	2,652.29	3/4	2,882.86	3/4	3,113.42	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,426.52	6	2,657.09	6	2,887.66	6	3,118.23	6		6		6		6		6		6	
1/4	2,431.33	1/4	2,661.89	1/4	2,892.46	1/4	3,123.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,436.13	1/2	2,666.70	1/2	2,897.27	1/2	3,127.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,440.93	3/4	2,671.50	3/4	2,902.07	3/4	3,132.64	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,445.74	7	2,676.31	7	2,906.87	7	3,137.44	7		7		7		7		7		7	
1/4	2,450.54	1/4	2,681.11	1/4	2,911.68	1/4	3,142.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,455.34	1/2	2,685.91	1/2	2,916.48	1/2	3,147.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,460.15	3/4	2,690.72	3/4	2,921.28	3/4	3,151.85	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,464.95	8	2,695.52	8	2,926.09	8	3,156.66	8		8		8		8		8		8	
1/4	2,469.75	1/4	2,700.32	1/4	2,930.89	1/4	3,161.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,474.56	1/2	2,705.13	1/2	2,935.69	1/2	3,166.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,479.36	3/4	2,709.93	3/4	2,940.50	3/4	3,171.07	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,484.17	9	2,714.73	9	2,945.30	9	3,175.87	9		9		9		9		9		9	
1/4	2,488.97	1/4	2,719.54	1/4	2,950.10	1/4	3,180.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,493.77	1/2	2,724.34	1/2	2,954.91	1/2	3,185.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,498.58	3/4	2,729.14	3/4	2,959.71	3/4	3,190.28	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,503.38	10	2,733.95	10	2,964.52	10	3,195.08	10		10		10		10		10		10	
1/4	2,508.18	1/4	2,738.75	1/4	2,969.32	1/4	3,199.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,512.99	1/2	2,743.55	1/2	2,974.12	1/2	3,203.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,517.79	3/4	2,748.36	3/4	2,978.93	3/4	3,207.72	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,522.59	11	2,753.16	11	2,983.73	11	3,211.93	11		11		11		11		11		11	
1/4	2,527.40	1/4	2,757.96	1/4	2,988.53	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,532.20	1/2	2,762.77	1/2	2,993.34	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,537.00	3/4	2,767.57	3/4	2,998.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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





# BARGE "AL 2301"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	11.70	0	237.13	0	468.69	0	700.25	0	931.80	0	1,163.36	0	1,394.91	0	1,626.47	0	1,858.03	0	2,089.59
1/4	15.32	1/4	241.96	1/4	473.51	1/4	705.07	1/4	936.63	1/4	1,168.18	1/4	1,399.74	1/4	1,631.30	1/4	1,862.85	1/4	2,094.41
1/2	18.94	1/2	246.78	1/2	478.34	1/2	709.89	1/2	941.45	1/2	1,173.01	1/2	1,404.56	1/2	1,636.12	1/2	1,866.68	1/2	2,099.23
3/4	22.55	3/4	251.60	3/4	483.16	3/4	714.72	3/4	946.27	3/4	1,177.83	3/4	1,409.39	3/4	1,640.94	3/4	1,872.50	3/4	2,104.06
1	26.17	1	256.43	1	487.99	1	719.54	1	951.10	1	1,182.65	1	1,414.21	1	1,645.77	1	1,877.32	1	2,108.88
1/4	30.75	1/4	261.25	1/4	492.81	1/4	724.37	1/4	955.92	1/4	1,187.48	1/4	1,419.04	1/4	1,650.59	1/4	1,882.15	1/4	2,113.71
1/2	35.32	1/2	266.08	1/2	497.63	1/2	729.19	1/2	960.75	1/2	1,192.30	1/2	1,423.86	1/2	1,655.42	1/2	1,886.97	1/2	2,118.53
3/4	39.90	3/4	270.90	3/4	502.46	3/4	734.01	3/4	965.57	3/4	1,197.13	3/4	1,428.68	3/4	1,660.24	3/4	1,891.80	3/4	2,123.35
2	44.48	2	275.72	2	507.28	2	738.84	2	970.40	2	1,201.95	2	1,433.51	2	1,665.06	2	1,896.62	2	2,128.18
1/4	49.26	1/4	280.55	1/4	512.11	1/4	743.66	1/4	975.22	1/4	1,206.77	1/4	1,438.33	1/4	1,669.89	1/4	1,901.45	1/4	2,133.00
1/2	54.05	1/2	285.37	1/2	516.93	1/2	748.49	1/2	980.04	1/2	1,211.60	1/2	1,443.16	1/2	1,674.71	1/2	1,906.27	1/2	2,137.83
3/4	58.83	3/4	290.20	3/4	521.75	3/4	753.31	3/4	984.87	3/4	1,216.42	3/4	1,447.98	3/4	1,679.54	3/4	1,911.09	3/4	2,142.65
3	63.61	3	295.02	3	526.58	3	758.13	3	989.69	3	1,221.25	3	1,452.80	3	1,684.36	3	1,915.92	3	2,147.47
1/4	68.42	1/4	299.85	1/4	531.40	1/4	762.96	1/4	994.52	1/4	1,226.07	1/4	1,457.63	1/4	1,689.18	1/4	1,920.74	1/4	2,152.30
1/2	73.22	1/2	304.67	1/2	536.23	1/2	767.78	1/2	999.34	1/2	1,230.90	1/2	1,462.45	1/2	1,694.01	1/2	1,925.57	1/2	2,157.12
3/4	78.02	3/4	309.49	3/4	541.05	3/4	772.61	3/4	1,004.16	3/4	1,235.72	3/4	1,467.28	3/4	1,698.83	3/4	1,930.39	3/4	2,161.95
4	82.82	4	314.32	4	545.87	4	777.43	4	1,008.99	4	1,240.54	4	1,472.10	4	1,703.66	4	1,935.21	4	2,166.77
1/4	87.64	1/4	319.14	1/4	550.70	1/4	782.26	1/4	1,013.81	1/4	1,245.37	1/4	1,476.92	1/4	1,708.48	1/4	1,940.04	1/4	2,171.59
1/2	92.45	1/2	323.97	1/2	555.52	1/2	787.08	1/2	1,018.64	1/2	1,250.19	1/2	1,481.75	1/2	1,713.31	1/2	1,944.86	1/2	2,176.42
3/4	97.26	3/4	328.79	3/4	560.35	3/4	791.90	3/4	1,023.46	3/4	1,255.02	3/4	1,486.57	3/4	1,718.13	3/4	1,949.69	3/4	2,181.24
5	102.08	5	333.61	5	565.17	5	796.73	5	1,028.29	5	1,259.84	5	1,491.40	5	1,722.95	5	1,954.51	5	2,186.07
1/4	106.90	1/4	338.44	1/4	569.99	1/4	801.55	1/4	1,033.11	1/4	1,264.66	1/4	1,496.22	1/4	1,727.78	1/4	1,959.33	1/4	2,190.89
1/2	111.72	1/2	343.26	1/2	574.82	1/2	806.38	1/2	1,037.94	1/2	1,269.49	1/2	1,501.04	1/2	1,732.60	1/2	1,964.16	1/2	2,195.72
3/4	116.54	3/4	348.09	3/4	579.64	3/4	811.20	3/4	1,042.76	3/4	1,274.31	3/4	1,505.87	3/4	1,737.43	3/4	1,968.98	3/4	2,200.54
6	121.36	6	352.91	6	584.47	6	816.02	6	1,047.58	6	1,279.14	6	1,510.69	6	1,742.25	6	1,973.81	6	2,205.36
1/4	126.18	1/4	357.73	1/4	589.29	1/4	820.85	1/4	1,052.41	1/4	1,283.96	1/4	1,515.52	1/4	1,747.07	1/4	1,978.63	1/4	2,210.19
1/2	131.00	1/2	362.56	1/2	594.12	1/2	825.67	1/2	1,057.23	1/2	1,288.78	1/2	1,520.34	1/2	1,751.90	1/2	1,983.45	1/2	2,215.01
3/4	135.83	3/4	367.38	3/4	598.94	3/4	830.50	3/4	1,062.05	3/4	1,293.61	3/4	1,525.17	3/4	1,756.72	3/4	1,988.28	3/4	2,219.84
7	140.65	7	372.21	7	603.76	7	835.32	7	1,066.88	7	1,298.43	7	1,529.99	7	1,761.55	7	1,993.10	7	2,224.66
1/4	145.48	1/4	377.03	1/4	608.59	1/4	840.14	1/4	1,071.70	1/4	1,303.26	1/4	1,534.81	1/4	1,766.37	1/4	1,997.93	1/4	2,229.48
1/2	150.30	1/2	381.85	1/2	613.41	1/2	844.97	1/2	1,076.52	1/2	1,308.08	1/2	1,539.64	1/2	1,771.19	1/2	2,002.75	1/2	2,234.31
3/4	155.12	3/4	386.68	3/4	618.24	3/4	849.79	3/4	1,081.35	3/4	1,312.91	3/4	1,544.46	3/4	1,776.02	3/4	2,007.58	3/4	2,239.13
8	159.95	8	391.50	8	623.06	8	854.62	8	1,086.17	8	1,317.73	8	1,549.29	8	1,780.84	8	2,012.40	8	2,243.96
1/4	164.77	1/4	396.33	1/4	627.88	1/4	859.44	1/4	1,091.00	1/4	1,322.55	1/4	1,554.11	1/4	1,785.67	1/4	2,017.22	1/4	2,248.78
1/2	169.60	1/2	401.15	1/2	632.71	1/2	864.26	1/2	1,095.82	1/2	1,327.38	1/2	1,558.93	1/2	1,790.49	1/2	2,022.05	1/2	2,253.60
3/4	174.42	3/4	405.98	3/4	637.53	3/4	869.09	3/4	1,100.64	3/4	1,332.20	3/4	1,563.76	3/4	1,795.32	3/4	2,026.87	3/4	2,258.43
9	179.24	9	410.80	9	642.36	9	873.91	9	1,105.47	9	1,337.03	9	1,568.58	9	1,800.14	9	2,031.70	9	2,263.25
1/4	184.07	1/4	415.62	1/4	647.18	1/4	878.74	1/4	1,110.29	1/4	1,341.85	1/4	1,573.41	1/4	1,804.96	1/4	2,036.52	1/4	2,268.08
1/2	188.89	1/2	420.45	1/2	652.00	1/2	883.56	1/2	1,115.12	1/2	1,346.67	1/2	1,578.23	1/2	1,809.79	1/2	2,041.34	1/2	2,272.90
3/4	193.72	3/4	425.27	3/4	656.83	3/4	888.39	3/4	1,119.94	3/4	1,351.50	3/4	1,583.05	3/4	1,814.61	3/4	2,046.17	3/4	2,277.73
10	198.54	10	430.10	10	661.65	10	893.21	10	1,124.77	10	1,356.32	10	1,587.88	10	1,819.44	10	2,050.99	10	2,282.55
1/4	203.36	1/4	434.92	1/4	666.48	1/4	898.03	1/4	1,129.59	1/4	1,361.15	1/4	1,592.70	1/4	1,824.26	1/4	2,055.82	1/4	2,287.37
1/2	208.19	1/2	439.74	1/2	671.30	1/2	902.86	1/2	1,134.41	1/2	1,365.97	1/2	1,597.53	1/2	1,829.08	1/2	2,060.64	1/2	2,292.20
3/4	213.01	3/4	444.57	3/4	676.13	3/4	907.68	3/4	1,139.24	3/4	1,370.79	3/4	1,602.35	3/4	1,833.91	3/4	2,065.46	3/4	2,297.02
11	217.84	11	449.39	11	680.95	11	912.51	11	1,144.06	11	1,375.62	11	1,607.18	11	1,838.73	11	2,070.29	11	2,301.85
1/4	222.66	1/4	454.22	1/4	685.77	1/4	917.33	1/4	1,148.89	1/4	1,380.44	1/4	1,612.00	1/4	1,843.56	1/4	2,075.11	1/4	2,306.67
1/2	227.48	1/2	459.04	1/2	690.60	1/2	922.15	1/2	1,153.71	1/2	1,385.27	1/2	1,616.82	1/2	1,848.38	1/2	2,079.94	1/2	2,311.49
3/4	232.31	3/4	463.86	3/4	695.42	3/4	926.98	3/4	1,158.53	3/4	1,390.09	3/4	1,621.65	3/4	1,853.20	3/4	2,084.76	3/4	2,316.32

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 INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "AL 2301"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,321.14	0	2,552.70	0	2,784.26	0	3,015.81	0		0		0		0		0		0	
1/4	2,325.97	1/4	2,557.52	1/4	2,789.08	1/4	3,020.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,330.79	1/2	2,562.35	1/2	2,793.90	1/2	3,025.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,335.61	3/4	2,567.17	3/4	2,798.73	3/4	3,030.28	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,340.44	1	2,572.00	1	2,803.55	1	3,035.11	1		1		1		1		1		1	
1/4	2,345.26	1/4	2,576.82	1/4	2,808.38	1/4	3,039.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,350.09	1/2	2,581.64	1/2	2,813.20	1/2	3,044.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,354.91	3/4	2,586.47	3/4	2,818.02	3/4	3,049.58	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,359.73	2	2,591.29	2	2,822.85	2	3,054.41	2		2		2		2		2		2	
1/4	2,364.56	1/4	2,596.12	1/4	2,827.67	1/4	3,059.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,369.38	1/2	2,600.94	1/2	2,832.50	1/2	3,064.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,374.21	3/4	2,605.76	3/4	2,837.32	3/4	3,068.88	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,379.03	3	2,610.59	3	2,842.14	3	3,073.70	3		3		3		3		3		3	
1/4	2,383.86	1/4	2,615.41	1/4	2,846.97	1/4	3,078.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,388.68	1/2	2,620.24	1/2	2,851.79	1/2	3,083.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,393.50	3/4	2,625.06	3/4	2,856.62	3/4	3,088.17	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,398.33	4	2,629.88	4	2,861.44	4	3,093.00	4		4		4		4		4		4	
1/4	2,403.15	1/4	2,634.71	1/4	2,866.27	1/4	3,097.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,407.98	1/2	2,639.53	1/2	2,871.09	1/2	3,102.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,412.80	3/4	2,644.36	3/4	2,875.91	3/4	3,107.47	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,417.62	5	2,649.18	5	2,880.74	5	3,112.29	5		5		5		5		5		5	
1/4	2,422.45	1/4	2,654.00	1/4	2,885.56	1/4	3,117.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,427.27	1/2	2,658.83	1/2	2,890.39	1/2	3,121.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,432.10	3/4	2,663.65	3/4	2,895.21	3/4	3,126.77	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,436.92	6	2,668.48	6	2,900.03	6	3,131.59	6		6		6		6		6		6	
1/4	2,441.74	1/4	2,673.30	1/4	2,904.86	1/4	3,136.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,446.57	1/2	2,678.13	1/2	2,909.68	1/2	3,141.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,451.39	3/4	2,682.95	3/4	2,914.51	3/4	3,146.06	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,456.22	7	2,687.77	7	2,919.33	7	3,150.89	7		7		7		7		7		7	
1/4	2,461.04	1/4	2,692.60	1/4	2,924.15	1/4	3,155.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,465.86	1/2	2,697.42	1/2	2,928.98	1/2	3,160.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,470.69	3/4	2,702.25	3/4	2,933.80	3/4	3,165.36	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,475.51	8	2,707.07	8	2,938.63	8	3,170.18	8		8		8		8		8		8	
1/4	2,480.34	1/4	2,711.89	1/4	2,943.45	1/4	3,175.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,485.16	1/2	2,716.72	1/2	2,948.27	1/2	3,179.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,489.99	3/4	2,721.54	3/4	2,953.10	3/4	3,184.66	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,494.81	9	2,726.37	9	2,957.92	9	3,189.48	9		9		9		9		9		9	
1/4	2,499.63	1/4	2,731.19	1/4	2,962.75	1/4	3,194.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,504.46	1/2	2,736.01	1/2	2,967.57	1/2	3,199.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,509.28	3/4	2,740.84	3/4	2,972.40	3/4	3,203.95	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,514.11	10	2,745.66	10	2,977.22	10	3,208.78	10		10		10		10		10		10	
1/4	2,518.93	1/4	2,750.49	1/4	2,982.04	1/4	3,213.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,523.75	1/2	2,755.31	1/2	2,986.87	1/2	3,217.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,528.58	3/4	2,760.13	3/4	2,991.69	3/4	3,221.45	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,533.40	11	2,764.96	11	2,996.52	11	3,225.68	11		11		11		11		11		11	
1/4	2,538.23	1/4	2,769.78	1/4	3,001.34	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,543.05	1/2	2,774.61	1/2	3,006.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,547.87	3/4	2,779.43	3/4	3,010.99	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

# 2 STBD

# INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	11.69	0	236.83	0	468.10	0	699.37	0	930.64	0	1,161.89	0	1,393.15	0	1,624.42	0	1,855.68	0	2,086.94
1/4	15.30	1/4	241.65	1/4	472.92	1/4	704.19	1/4	935.46	1/4	1,166.71	1/4	1,397.97	1/4	1,629.23	1/4	1,860.50	1/4	2,091.76
1/2	18.91	1/2	246.47	1/2	477.74	1/2	709.01	1/2	940.28	1/2	1,171.52	1/2	1,402.79	1/2	1,634.05	1/2	1,854.32	1/2	2,096.58
3/4	22.52	3/4	251.29	3/4	482.56	3/4	713.82	3/4	945.09	3/4	1,176.34	3/4	1,407.61	3/4	1,638.87	3/4	1,870.13	3/4	2,101.40
1	26.14	1	256.11	1	487.37	1	718.64	1	949.91	1	1,181.16	1	1,412.42	1	1,643.69	1	1,874.95	1	2,106.22
1/4	30.71	1/4	260.92	1/4	492.19	1/4	723.46	1/4	954.73	1/4	1,185.98	1/4	1,417.24	1/4	1,648.51	1/4	1,879.77	1/4	2,111.03
1/2	35.28	1/2	265.74	1/2	497.01	1/2	728.28	1/2	959.55	1/2	1,190.80	1/2	1,422.06	1/2	1,653.32	1/2	1,884.59	1/2	2,115.85
3/4	39.85	3/4	270.56	3/4	501.83	3/4	733.10	3/4	964.37	3/4	1,195.61	3/4	1,426.88	3/4	1,658.14	3/4	1,889.41	3/4	2,120.67
2	44.42	2	275.38	2	506.65	2	737.91	2	969.18	2	1,200.43	2	1,431.70	2	1,662.96	2	1,894.22	2	2,125.49
1/4	49.20	1/4	280.20	1/4	511.46	1/4	742.73	1/4	974.00	1/4	1,205.25	1/4	1,436.51	1/4	1,667.78	1/4	1,899.04	1/4	2,130.31
1/2	53.98	1/2	285.01	1/2	516.28	1/2	747.55	1/2	978.82	1/2	1,210.07	1/2	1,441.33	1/2	1,672.60	1/2	1,903.86	1/2	2,135.12
3/4	58.76	3/4	289.83	3/4	521.10	3/4	752.37	3/4	983.64	3/4	1,214.89	3/4	1,446.15	3/4	1,677.41	3/4	1,908.68	3/4	2,139.94
3	63.53	3	294.65	3	525.92	3	757.19	3	988.46	3	1,219.70	3	1,450.97	3	1,682.23	3	1,913.50	3	2,144.76
1/4	68.33	1/4	299.47	1/4	530.74	1/4	762.01	1/4	993.27	1/4	1,224.52	1/4	1,455.79	1/4	1,687.05	1/4	1,918.31	1/4	2,149.58
1/2	73.13	1/2	304.29	1/2	535.55	1/2	766.82	1/2	998.09	1/2	1,229.34	1/2	1,460.60	1/2	1,691.87	1/2	1,923.13	1/2	2,154.40
3/4	77.92	3/4	309.10	3/4	540.37	3/4	771.64	3/4	1,002.91	3/4	1,234.16	3/4	1,465.42	3/4	1,696.69	3/4	1,927.95	3/4	2,159.21
4	82.72	4	313.92	4	545.19	4	776.46	4	1,007.73	4	1,238.98	4	1,470.24	4	1,701.50	4	1,932.77	4	2,164.03
1/4	87.53	1/4	318.74	1/4	550.01	1/4	781.28	1/4	1,012.54	1/4	1,243.79	1/4	1,475.06	1/4	1,706.32	1/4	1,937.59	1/4	2,168.85
1/2	92.33	1/2	323.56	1/2	554.83	1/2	786.10	1/2	1,017.36	1/2	1,248.61	1/2	1,479.88	1/2	1,711.14	1/2	1,942.40	1/2	2,173.67
3/4	97.14	3/4	328.38	3/4	559.65	3/4	790.91	3/4	1,022.17	3/4	1,253.43	3/4	1,484.69	3/4	1,715.96	3/4	1,947.22	3/4	2,178.49
5	101.95	5	333.19	5	564.46	5	795.73	5	1,026.99	5	1,258.25	5	1,489.51	5	1,720.78	5	1,952.04	5	2,183.30
1/4	106.76	1/4	338.01	1/4	569.28	1/4	800.55	1/4	1,031.81	1/4	1,263.07	1/4	1,494.33	1/4	1,725.59	1/4	1,956.86	1/4	2,188.12
1/2	111.58	1/2	342.83	1/2	574.10	1/2	805.37	1/2	1,036.62	1/2	1,267.88	1/2	1,499.15	1/2	1,730.41	1/2	1,961.68	1/2	2,192.94
3/4	116.39	3/4	347.65	3/4	578.92	3/4	810.19	3/4	1,041.44	3/4	1,272.70	3/4	1,503.97	3/4	1,735.23	3/4	1,966.49	3/4	2,197.76
6	121.20	6	352.47	6	583.74	6	815.00	6	1,046.26	6	1,277.52	6	1,508.78	6	1,740.05	6	1,971.31	6	2,202.58
1/4	126.02	1/4	357.29	1/4	588.55	1/4	819.82	1/4	1,051.08	1/4	1,282.34	1/4	1,513.60	1/4	1,744.87	1/4	1,976.13	1/4	2,207.39
1/2	130.84	1/2	362.10	1/2	593.37	1/2	824.64	1/2	1,055.89	1/2	1,287.16	1/2	1,518.42	1/2	1,749.68	1/2	1,980.95	1/2	2,212.21
3/4	135.66	3/4	366.92	3/4	598.19	3/4	829.46	3/4	1,060.71	3/4	1,291.97	3/4	1,523.24	3/4	1,754.50	3/4	1,985.77	3/4	2,217.03
7	140.47	7	371.74	7	603.01	7	834.28	7	1,065.53	7	1,296.79	7	1,528.06	7	1,759.32	7	1,990.58	7	2,221.85
1/4	145.29	1/4	376.56	1/4	607.83	1/4	839.10	1/4	1,070.35	1/4	1,301.61	1/4	1,532.87	1/4	1,764.14	1/4	1,995.40	1/4	2,226.67
1/2	150.11	1/2	381.38	1/2	612.64	1/2	843.91	1/2	1,075.16	1/2	1,306.43	1/2	1,537.69	1/2	1,768.96	1/2	2,000.22	1/2	2,231.48
3/4	154.93	3/4	386.19	3/4	617.46	3/4	848.73	3/4	1,079.98	3/4	1,311.25	3/4	1,542.51	3/4	1,773.77	3/4	2,005.04	3/4	2,236.30
8	159.75	8	391.01	8	622.28	8	853.55	8	1,084.80	8	1,316.06	8	1,547.33	8	1,778.59	8	2,009.86	8	2,241.12
1/4	164.57	1/4	395.83	1/4	627.10	1/4	858.37	1/4	1,089.62	1/4	1,320.88	1/4	1,552.15	1/4	1,783.41	1/4	2,014.67	1/4	2,245.94
1/2	169.38	1/2	400.65	1/2	631.92	1/2	863.19	1/2	1,094.44	1/2	1,325.70	1/2	1,556.96	1/2	1,788.23	1/2	2,019.49	1/2	2,250.76
3/4	174.20	3/4	405.47	3/4	636.73	3/4	868.00	3/4	1,099.25	3/4	1,330.52	3/4	1,561.78	3/4	1,793.05	3/4	2,024.31	3/4	2,255.57
9	179.02	9	410.28	9	641.55	9	872.82	9	1,104.07	9	1,335.34	9	1,566.60	9	1,797.86	9	2,029.13	9	2,260.39
1/4	183.84	1/4	415.10	1/4	646.37	1/4	877.64	1/4	1,108.89	1/4	1,340.15	1/4	1,571.42	1/4	1,802.68	1/4	2,033.95	1/4	2,265.21
1/2	188.65	1/2	419.92	1/2	651.19	1/2	882.46	1/2	1,113.71	1/2	1,344.97	1/2	1,576.24	1/2	1,807.50	1/2	2,038.76	1/2	2,270.03
3/4	193.47	3/4	424.74	3/4	656.01	3/4	887.28	3/4	1,118.53	3/4	1,349.79	3/4	1,581.05	3/4	1,812.32	3/4	2,043.58	3/4	2,274.85
10	198.29	10	429.56	10	660.83	10	892.09	10	1,123.34	10	1,354.61	10	1,585.87	10	1,817.14	10	2,048.40	10	2,279.66
1/4	203.11	1/4	434.37	1/4	665.64	1/4	896.91	1/4	1,128.16	1/4	1,359.43	1/4	1,590.69	1/4	1,821.95	1/4	2,053.22	1/4	2,284.48
1/2	207.93	1/2	439.19	1/2	670.46	1/2	901.73	1/2	1,132.98	1/2	1,364.24	1/2	1,595.51	1/2	1,826.77	1/2	2,058.04	1/2	2,289.30
3/4	212.74	3/4	444.01	3/4	675.28	3/4	906.55	3/4	1,137.80	3/4	1,369.06	3/4	1,600.33	3/4	1,831.59	3/4	2,062.85	3/4	2,294.12
11	217.56	11	448.83	11	680.10	11	911.37	11	1,142.62	11	1,373.88	11	1,605.14	11	1,836.41	11	2,067.67	11	2,298.94
1/4	222.38	1/4	453.65	1/4	684.92	1/4	916.18	1/4	1,147.43	1/4	1,378.70	1/4	1,609.96	1/4	1,841.23	1/4	2,072.49	1/4	2,303.75
1/2	227.20	1/2	458.47	1/2	689.73	1/2	921.00	1/2	1,152.25	1/2	1,383.52	1/2	1,614.78	1/2	1,846.04	1/2	2,077.31	1/2	2,308.57
3/4	232.01	3/4	463.28	3/4	694.55	3/4	925.82	3/4	1,157.07	3/4	1,388.33	3/4	1,619.60	3/4	1,850.86	3/4	2,082.13	3/4	2,313.39

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 INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "AL 2301"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,318.21	0	2,549.47	0	2,780.74	0	3,012.00	0		0		0		0		0		0	
1/4	2,323.03	1/4	2,554.29	1/4	2,785.55	1/4	3,016.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,327.84	1/2	2,559.11	1/2	2,790.37	1/2	3,021.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,332.66	3/4	2,563.93	3/4	2,795.19	3/4	3,026.45	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,337.48	1	2,568.74	1	2,800.01	1	3,031.27	1		1		1		1		1		1	
1/4	2,342.30	1/4	2,573.56	1/4	2,804.83	1/4	3,036.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,347.12	1/2	2,578.38	1/2	2,809.64	1/2	3,040.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,351.93	3/4	2,583.20	3/4	2,814.46	3/4	3,045.73	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,356.75	2	2,588.02	2	2,819.28	2	3,050.54	2		2		2		2		2		2	
1/4	2,361.57	1/4	2,592.83	1/4	2,824.10	1/4	3,055.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,366.39	1/2	2,597.65	1/2	2,828.92	1/2	3,060.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,371.21	3/4	2,602.47	3/4	2,833.73	3/4	3,065.00	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,376.02	3	2,607.29	3	2,838.55	3	3,069.82	3		3		3		3		3		3	
1/4	2,380.84	1/4	2,612.11	1/4	2,843.37	1/4	3,074.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,385.66	1/2	2,616.92	1/2	2,848.19	1/2	3,079.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,390.48	3/4	2,621.74	3/4	2,853.01	3/4	3,084.27	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,395.30	4	2,626.56	4	2,857.82	4	3,089.09	4		4		4		4		4		4	
1/4	2,400.11	1/4	2,631.38	1/4	2,862.64	1/4	3,093.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,404.93	1/2	2,636.20	1/2	2,867.46	1/2	3,098.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,409.75	3/4	2,641.01	3/4	2,872.28	3/4	3,103.54	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,414.57	5	2,645.83	5	2,877.10	5	3,108.36	5		5		5		5		5		5	
1/4	2,419.39	1/4	2,650.65	1/4	2,881.91	1/4	3,113.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,424.20	1/2	2,655.47	1/2	2,886.73	1/2	3,118.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,429.02	3/4	2,660.29	3/4	2,891.55	3/4	3,122.81	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,433.84	6	2,665.10	6	2,896.37	6	3,127.63	6		6		6		6		6		6	
1/4	2,438.66	1/4	2,669.92	1/4	2,901.19	1/4	3,132.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,443.48	1/2	2,674.74	1/2	2,906.00	1/2	3,137.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,448.29	3/4	2,679.56	3/4	2,910.82	3/4	3,142.09	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,453.11	7	2,684.38	7	2,915.64	7	3,146.90	7		7		7		7		7		7	
1/4	2,457.93	1/4	2,689.19	1/4	2,920.46	1/4	3,151.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,462.75	1/2	2,694.01	1/2	2,925.28	1/2	3,156.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,467.57	3/4	2,698.83	3/4	2,930.09	3/4	3,161.36	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,472.38	8	2,703.65	8	2,934.91	8	3,166.18	8		8		8		8		8		8	
1/4	2,477.20	1/4	2,708.47	1/4	2,939.73	1/4	3,170.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,482.02	1/2	2,713.28	1/2	2,944.55	1/2	3,175.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,486.84	3/4	2,718.10	3/4	2,949.37	3/4	3,180.63	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,491.66	9	2,722.92	9	2,954.18	9	3,185.45	9		9		9		9		9		9	
1/4	2,496.47	1/4	2,727.74	1/4	2,959.00	1/4	3,190.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,501.29	1/2	2,732.56	1/2	2,963.82	1/2	3,195.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,506.11	3/4	2,737.37	3/4	2,968.64	3/4	3,199.90	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,510.93	10	2,742.19	10	2,973.46	10	3,204.72	10		10		10		10		10		10	
1/4	2,515.75	1/4	2,747.01	1/4	2,978.27	1/4	3,208.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,520.56	1/2	2,751.83	1/2	2,983.09	1/2	3,213.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,525.38	3/4	2,756.65	3/4	2,987.91	3/4	3,217.38	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,530.20	11	2,761.46	11	2,992.73	11	3,221.61	11		11		11		11		11		11	
1/4	2,535.02	1/4	2,766.28	1/4	2,997.55	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,539.84	1/2	2,771.10	1/2	3,002.36	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,544.65	3/4	2,775.92	3/4	3,007.18	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

# 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	11.68	0	236.70	0	467.83	0	698.97	0	930.10	0	1,161.24	0	1,392.37	0	1,623.51	0	1,854.64	0	2,085.77
1/4	15.29	1/4	241.52	1/4	472.65	1/4	703.78	1/4	934.92	1/4	1,166.05	1/4	1,397.19	1/4	1,628.32	1/4	1,859.46	1/4	2,090.59
1/2	18.90	1/2	246.33	1/2	477.47	1/2	708.60	1/2	939.73	1/2	1,170.87	1/2	1,402.00	1/2	1,633.14	1/2	1,863.27	1/2	2,095.40
3/4	22.51	3/4	251.15	3/4	482.28	3/4	713.42	3/4	944.55	3/4	1,175.68	3/4	1,406.82	3/4	1,637.95	3/4	1,869.09	3/4	2,100.22
1	26.12	1	255.96	1	487.10	1	718.23	1	949.36	1	1,180.50	1	1,411.63	1	1,642.77	1	1,873.90	1	2,105.04
1/4	30.69	1/4	260.78	1/4	491.91	1/4	723.05	1/4	954.18	1/4	1,185.31	1/4	1,416.45	1/4	1,647.58	1/4	1,878.72	1/4	2,109.85
1/2	35.26	1/2	265.59	1/2	496.73	1/2	727.86	1/2	959.00	1/2	1,190.13	1/2	1,421.26	1/2	1,652.40	1/2	1,883.53	1/2	2,114.67
3/4	39.83	3/4	270.41	3/4	501.54	3/4	732.68	3/4	963.81	3/4	1,194.94	3/4	1,426.08	3/4	1,657.21	3/4	1,888.35	3/4	2,119.48
2	44.40	2	275.22	2	506.36	2	737.49	2	968.63	2	1,199.76	2	1,430.89	2	1,662.03	2	1,893.16	2	2,124.30
1/4	49.17	1/4	280.04	1/4	511.17	1/4	742.31	1/4	973.44	1/4	1,204.57	1/4	1,435.71	1/4	1,666.84	1/4	1,897.98	1/4	2,129.11
1/2	53.95	1/2	284.85	1/2	515.99	1/2	747.12	1/2	978.26	1/2	1,209.39	1/2	1,440.52	1/2	1,671.66	1/2	1,902.79	1/2	2,133.93
3/4	58.72	3/4	289.67	3/4	520.80	3/4	751.94	3/4	983.07	3/4	1,214.21	3/4	1,445.34	3/4	1,676.47	3/4	1,907.61	3/4	2,138.74
3	63.50	3	294.48	3	525.62	3	756.75	3	987.89	3	1,219.02	3	1,450.15	3	1,681.29	3	1,912.42	3	2,143.56
1/4	68.29	1/4	299.30	1/4	530.43	1/4	761.57	1/4	992.70	1/4	1,223.84	1/4	1,454.97	1/4	1,686.10	1/4	1,917.24	1/4	2,148.37
1/2	73.09	1/2	304.11	1/2	535.25	1/2	766.38	1/2	997.52	1/2	1,228.65	1/2	1,459.79	1/2	1,690.92	1/2	1,922.05	1/2	2,153.19
3/4	77.88	3/4	308.93	3/4	540.06	3/4	771.20	3/4	1,002.33	3/4	1,233.47	3/4	1,464.60	3/4	1,695.74	3/4	1,926.87	3/4	2,158.00
4	82.67	4	313.75	4	544.88	4	776.01	4	1,007.15	4	1,238.28	4	1,469.42	4	1,700.55	4	1,931.68	4	2,162.82
1/4	87.48	1/4	318.56	1/4	549.69	1/4	780.83	1/4	1,011.97	1/4	1,243.10	1/4	1,474.23	1/4	1,705.37	1/4	1,936.50	1/4	2,167.63
1/2	92.28	1/2	323.38	1/2	554.51	1/2	785.64	1/2	1,016.78	1/2	1,247.91	1/2	1,479.05	1/2	1,710.18	1/2	1,941.32	1/2	2,172.45
3/4	97.09	3/4	328.19	3/4	559.33	3/4	790.46	3/4	1,021.60	3/4	1,252.73	3/4	1,483.86	3/4	1,715.00	3/4	1,946.13	3/4	2,177.27
5	101.89	5	333.01	5	564.14	5	795.28	5	1,026.42	5	1,257.54	5	1,488.68	5	1,719.81	5	1,950.95	5	2,182.08
1/4	106.70	1/4	337.82	1/4	568.96	1/4	800.09	1/4	1,031.23	1/4	1,262.36	1/4	1,493.49	1/4	1,724.63	1/4	1,955.76	1/4	2,186.90
1/2	111.51	1/2	342.64	1/2	573.77	1/2	804.91	1/2	1,036.04	1/2	1,267.17	1/2	1,498.31	1/2	1,729.44	1/2	1,960.58	1/2	2,191.71
3/4	116.33	3/4	347.45	3/4	578.59	3/4	809.72	3/4	1,040.86	3/4	1,271.99	3/4	1,503.12	3/4	1,734.26	3/4	1,965.39	3/4	2,196.53
6	121.14	6	352.27	6	583.40	6	814.54	6	1,045.67	6	1,276.80	6	1,507.94	6	1,739.07	6	1,970.21	6	2,201.34
1/4	125.95	1/4	357.08	1/4	588.22	1/4	819.35	1/4	1,050.49	1/4	1,281.62	1/4	1,512.75	1/4	1,743.89	1/4	1,975.02	1/4	2,206.16
1/2	130.77	1/2	361.90	1/2	593.03	1/2	824.17	1/2	1,055.30	1/2	1,286.43	1/2	1,517.57	1/2	1,748.70	1/2	1,979.84	1/2	2,210.97
3/4	135.58	3/4	366.71	3/4	597.85	3/4	828.98	3/4	1,060.12	3/4	1,291.25	3/4	1,522.38	3/4	1,753.52	3/4	1,984.65	3/4	2,215.79
7	140.40	7	371.53	7	602.66	7	833.80	7	1,064.93	7	1,296.07	7	1,527.20	7	1,758.33	7	1,989.47	7	2,220.60
1/4	145.21	1/4	376.34	1/4	607.48	1/4	838.61	1/4	1,069.75	1/4	1,300.88	1/4	1,532.01	1/4	1,763.15	1/4	1,994.28	1/4	2,225.42
1/2	150.03	1/2	381.16	1/2	612.29	1/2	843.43	1/2	1,074.56	1/2	1,305.70	1/2	1,536.83	1/2	1,767.96	1/2	1,999.10	1/2	2,230.23
3/4	154.84	3/4	385.97	3/4	617.11	3/4	848.24	3/4	1,079.38	3/4	1,310.51	3/4	1,541.65	3/4	1,772.78	3/4	2,003.91	3/4	2,235.05
8	159.66	8	390.79	8	621.92	8	853.06	8	1,084.19	8	1,315.33	8	1,546.46	8	1,777.60	8	2,008.73	8	2,239.86
1/4	164.47	1/4	395.61	1/4	626.74	1/4	857.87	1/4	1,089.01	1/4	1,320.14	1/4	1,551.28	1/4	1,782.41	1/4	2,013.54	1/4	2,244.68
1/2	169.29	1/2	400.42	1/2	631.55	1/2	862.69	1/2	1,093.82	1/2	1,324.96	1/2	1,556.09	1/2	1,787.23	1/2	2,018.36	1/2	2,249.49
3/4	174.10	3/4	405.24	3/4	636.37	3/4	867.50	3/4	1,098.64	3/4	1,329.77	3/4	1,560.91	3/4	1,792.04	3/4	2,023.18	3/4	2,254.31
9	178.92	9	410.05	9	641.19	9	872.32	9	1,103.45	9	1,334.59	9	1,565.72	9	1,796.86	9	2,027.99	9	2,259.13
1/4	183.73	1/4	414.87	1/4	646.00	1/4	877.14	1/4	1,108.27	1/4	1,339.40	1/4	1,570.54	1/4	1,801.67	1/4	2,032.81	1/4	2,263.94
1/2	188.55	1/2	419.68	1/2	650.82	1/2	881.95	1/2	1,113.08	1/2	1,344.22	1/2	1,575.35	1/2	1,806.49	1/2	2,037.62	1/2	2,268.76
3/4	193.36	3/4	424.50	3/4	655.63	3/4	886.77	3/4	1,117.90	3/4	1,349.03	3/4	1,580.17	3/4	1,811.30	3/4	2,042.44	3/4	2,273.57
10	198.18	10	429.31	10	660.45	10	891.58	10	1,122.71	10	1,353.85	10	1,584.98	10	1,816.12	10	2,047.25	10	2,278.39
1/4	202.99	1/4	434.13	1/4	665.26	1/4	896.40	1/4	1,127.53	1/4	1,358.66	1/4	1,589.80	1/4	1,820.93	1/4	2,052.07	1/4	2,283.20
1/2	207.81	1/2	438.94	1/2	670.08	1/2	901.21	1/2	1,132.35	1/2	1,363.48	1/2	1,594.61	1/2	1,825.75	1/2	2,056.88	1/2	2,288.02
3/4	212.62	3/4	443.76	3/4	674.89	3/4	906.03	3/4	1,137.16	3/4	1,368.29	3/4	1,599.43	3/4	1,830.56	3/4	2,061.70	3/4	2,292.83
11	217.44	11	448.57	11	679.71	11	910.84	11	1,141.98	11	1,373.11	11	1,604.24	11	1,835.38	11	2,066.51	11	2,297.65
1/4	222.25	1/4	453.39	1/4	684.52	1/4	915.66	1/4	1,146.79	1/4	1,377.93	1/4	1,609.06	1/4	1,840.19	1/4	2,071.33	1/4	2,302.46
1/2	227.07	1/2	458.20	1/2	689.34	1/2	920.47	1/2	1,151.61	1/2	1,382.74	1/2	1,613.87	1/2	1,845.01	1/2	2,076.14	1/2	2,307.28
3/4	231.89	3/4	463.02	3/4	694.15	3/4	925.29	3/4	1,156.42	3/4	1,387.56	3/4	1,618.69	3/4	1,849.82	3/4	2,080.96	3/4	2,312.09

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 INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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





# BARGE "AL 2301"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,316.91	0	2,548.04	0	2,779.18	0	3,010.31	0		0		0		0		0		0	
1/4	2,321.72	1/4	2,552.86	1/4	2,783.99	1/4	3,015.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,326.54	1/2	2,557.67	1/2	2,788.81	1/2	3,019.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,331.35	3/4	2,562.49	3/4	2,793.62	3/4	3,024.76	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,336.17	1	2,567.30	1	2,798.44	1	3,029.57	1		1		1		1		1		1	
1/4	2,340.99	1/4	2,572.12	1/4	2,803.25	1/4	3,034.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,345.80	1/2	2,576.94	1/2	2,808.07	1/2	3,039.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,350.62	3/4	2,581.75	3/4	2,812.88	3/4	3,044.02	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,355.43	2	2,586.57	2	2,817.70	2	3,048.83	2		2		2		2		2		2	
1/4	2,360.25	1/4	2,591.38	1/4	2,822.52	1/4	3,053.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,365.06	1/2	2,596.20	1/2	2,827.33	1/2	3,058.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,369.88	3/4	2,601.01	3/4	2,832.15	3/4	3,063.28	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,374.69	3	2,605.83	3	2,836.96	3	3,068.10	3		3		3		3		3		3	
1/4	2,379.51	1/4	2,610.64	1/4	2,841.78	1/4	3,072.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,384.32	1/2	2,615.46	1/2	2,846.59	1/2	3,077.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,389.14	3/4	2,620.27	3/4	2,851.41	3/4	3,082.54	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,393.95	4	2,625.09	4	2,856.22	4	3,087.36	4		4		4		4		4		4	
1/4	2,398.77	1/4	2,629.90	1/4	2,861.04	1/4	3,092.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,403.58	1/2	2,634.72	1/2	2,865.85	1/2	3,096.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,408.40	3/4	2,639.53	3/4	2,870.67	3/4	3,101.80	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,413.21	5	2,644.35	5	2,875.48	5	3,106.62	5		5		5		5		5		5	
1/4	2,418.03	1/4	2,649.16	1/4	2,880.30	1/4	3,111.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,422.85	1/2	2,653.98	1/2	2,885.11	1/2	3,116.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,427.66	3/4	2,658.80	3/4	2,889.93	3/4	3,121.06	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,432.48	6	2,663.61	6	2,894.74	6	3,125.88	6		6		6		6		6		6	
1/4	2,437.29	1/4	2,668.43	1/4	2,899.56	1/4	3,130.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,442.11	1/2	2,673.24	1/2	2,904.38	1/2	3,135.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,446.92	3/4	2,678.06	3/4	2,909.19	3/4	3,140.33	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,451.74	7	2,682.87	7	2,914.01	7	3,145.14	7		7		7		7		7		7	
1/4	2,456.55	1/4	2,687.69	1/4	2,918.82	1/4	3,149.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,461.37	1/2	2,692.50	1/2	2,923.64	1/2	3,154.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,466.18	3/4	2,697.32	3/4	2,928.45	3/4	3,159.59	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,471.00	8	2,702.13	8	2,933.27	8	3,164.40	8		8		8		8		8		8	
1/4	2,475.81	1/4	2,706.95	1/4	2,938.08	1/4	3,169.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,480.63	1/2	2,711.76	1/2	2,942.90	1/2	3,174.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,485.44	3/4	2,716.58	3/4	2,947.71	3/4	3,178.85	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,490.26	9	2,721.39	9	2,952.53	9	3,183.66	9		9		9		9		9		9	
1/4	2,495.07	1/4	2,726.21	1/4	2,957.34	1/4	3,188.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,499.89	1/2	2,731.02	1/2	2,962.16	1/2	3,193.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,504.71	3/4	2,735.84	3/4	2,966.97	3/4	3,198.11	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,509.52	10	2,740.66	10	2,971.79	10	3,202.92	10		10		10		10		10		10	
1/4	2,514.34	1/4	2,745.47	1/4	2,976.60	1/4	3,207.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,519.15	1/2	2,750.29	1/2	2,981.42	1/2	3,211.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,523.97	3/4	2,755.10	3/4	2,986.24	3/4	3,215.58	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,528.78	11	2,759.92	11	2,991.05	11	3,219.80	11		11		11		11		11		11	
1/4	2,533.60	1/4	2,764.73	1/4	2,995.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,538.41	1/2	2,769.55	1/2	3,000.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,543.23	3/4	2,774.36	3/4	3,005.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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





# BARGE "AL 2301"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	11.69	0	236.88	0	468.19	0	699.49	0	930.80	0	1,162.11	0	1,393.42	0	1,624.74	0	1,856.05	0	2,087.36
1/4	15.30	1/4	241.70	1/4	473.01	1/4	704.31	1/4	935.62	1/4	1,166.93	1/4	1,398.24	1/4	1,629.56	1/4	1,860.87	1/4	2,092.18
1/2	18.92	1/2	246.52	1/2	477.82	1/2	709.13	1/2	940.44	1/2	1,171.75	1/2	1,403.06	1/2	1,634.37	1/2	1,865.69	1/2	2,097.00
3/4	22.53	3/4	251.34	3/4	482.64	3/4	713.95	3/4	945.26	3/4	1,176.57	3/4	1,407.88	3/4	1,639.19	3/4	1,870.51	3/4	2,101.82
1	26.14	1	256.15	1	487.46	1	718.77	1	950.08	1	1,181.39	1	1,412.70	1	1,644.01	1	1,875.32	1	2,106.64
1/4	30.71	1/4	260.97	1/4	492.28	1/4	723.59	1/4	954.90	1/4	1,186.21	1/4	1,417.52	1/4	1,648.83	1/4	1,880.14	1/4	2,111.46
1/2	35.29	1/2	265.79	1/2	497.10	1/2	728.41	1/2	959.71	1/2	1,191.03	1/2	1,422.34	1/2	1,653.65	1/2	1,884.96	1/2	2,116.27
3/4	39.86	3/4	270.61	3/4	501.92	3/4	733.23	3/4	964.53	3/4	1,195.85	3/4	1,427.16	3/4	1,658.47	3/4	1,889.78	3/4	2,121.09
2	44.43	2	275.43	2	506.74	2	738.04	2	969.35	2	1,200.66	2	1,431.98	2	1,663.29	2	1,894.60	2	2,125.91
1/4	49.21	1/4	280.25	1/4	511.56	1/4	742.86	1/4	974.17	1/4	1,205.48	1/4	1,436.80	1/4	1,668.11	1/4	1,899.42	1/4	2,130.73
1/2	53.99	1/2	285.07	1/2	516.38	1/2	747.68	1/2	978.99	1/2	1,210.30	1/2	1,441.61	1/2	1,672.93	1/2	1,904.24	1/2	2,135.55
3/4	58.77	3/4	289.89	3/4	521.19	3/4	752.50	3/4	983.81	3/4	1,215.12	3/4	1,446.43	3/4	1,677.75	3/4	1,909.06	3/4	2,140.37
3	63.55	3	294.71	3	526.01	3	757.32	3	988.63	3	1,219.94	3	1,451.25	3	1,682.56	3	1,913.88	3	2,145.19
1/4	68.34	1/4	299.53	1/4	530.83	1/4	762.14	1/4	993.45	1/4	1,224.76	1/4	1,456.07	1/4	1,687.38	1/4	1,918.70	1/4	2,150.01
1/2	73.14	1/2	304.34	1/2	535.65	1/2	766.96	1/2	998.27	1/2	1,229.58	1/2	1,460.89	1/2	1,692.20	1/2	1,923.51	1/2	2,154.83
3/4	77.94	3/4	309.16	3/4	540.47	3/4	771.78	3/4	1,003.08	3/4	1,234.40	3/4	1,465.71	3/4	1,697.02	3/4	1,928.33	3/4	2,159.65
4	82.74	4	313.98	4	545.29	4	776.60	4	1,007.90	4	1,239.22	4	1,470.53	4	1,701.84	4	1,933.15	4	2,164.46
1/4	87.54	1/4	318.80	1/4	550.11	1/4	781.41	1/4	1,012.72	1/4	1,244.04	1/4	1,475.35	1/4	1,706.66	1/4	1,937.97	1/4	2,169.28
1/2	92.35	1/2	323.62	1/2	554.93	1/2	786.23	1/2	1,017.55	1/2	1,248.85	1/2	1,480.17	1/2	1,711.48	1/2	1,942.79	1/2	2,174.10
3/4	97.16	3/4	328.44	3/4	559.75	3/4	791.05	3/4	1,022.37	3/4	1,253.67	3/4	1,484.99	3/4	1,716.30	3/4	1,947.61	3/4	2,178.92
5	101.97	5	333.26	5	564.56	5	795.87	5	1,027.19	5	1,258.49	5	1,489.80	5	1,721.12	5	1,952.43	5	2,183.74
1/4	106.78	1/4	338.08	1/4	569.38	1/4	800.69	1/4	1,032.01	1/4	1,263.31	1/4	1,494.62	1/4	1,725.94	1/4	1,957.25	1/4	2,188.56
1/2	111.60	1/2	342.90	1/2	574.20	1/2	805.51	1/2	1,036.82	1/2	1,268.13	1/2	1,499.44	1/2	1,730.75	1/2	1,962.07	1/2	2,193.38
3/4	116.41	3/4	347.71	3/4	579.02	3/4	810.33	3/4	1,041.64	3/4	1,272.95	3/4	1,504.26	3/4	1,735.57	3/4	1,966.89	3/4	2,198.20
6	121.23	6	352.53	6	583.84	6	815.15	6	1,046.46	6	1,277.77	6	1,509.08	6	1,740.39	6	1,971.70	6	2,203.02
1/4	126.05	1/4	357.35	1/4	588.66	1/4	819.97	1/4	1,051.28	1/4	1,282.59	1/4	1,513.90	1/4	1,745.21	1/4	1,976.52	1/4	2,207.84
1/2	130.87	1/2	362.17	1/2	593.48	1/2	824.79	1/2	1,056.10	1/2	1,287.41	1/2	1,518.72	1/2	1,750.03	1/2	1,981.34	1/2	2,212.65
3/4	135.68	3/4	366.99	3/4	598.30	3/4	829.60	3/4	1,060.92	3/4	1,292.23	3/4	1,523.54	3/4	1,754.85	3/4	1,986.16	3/4	2,217.47
7	140.50	7	371.81	7	603.12	7	834.42	7	1,065.73	7	1,297.04	7	1,528.36	7	1,759.67	7	1,990.98	7	2,222.29
1/4	145.32	1/4	376.63	1/4	607.93	1/4	839.24	1/4	1,070.55	1/4	1,301.86	1/4	1,533.18	1/4	1,764.49	1/4	1,995.80	1/4	2,227.11
1/2	150.14	1/2	381.45	1/2	612.75	1/2	844.06	1/2	1,075.37	1/2	1,306.68	1/2	1,537.99	1/2	1,769.31	1/2	2,000.62	1/2	2,231.93
3/4	154.96	3/4	386.27	3/4	617.57	3/4	848.88	3/4	1,080.19	3/4	1,311.50	3/4	1,542.81	3/4	1,774.13	3/4	2,005.44	3/4	2,236.75
8	159.78	8	391.08	8	622.39	8	853.70	8	1,085.01	8	1,316.32	8	1,547.63	8	1,778.94	8	2,010.26	8	2,241.57
1/4	164.60	1/4	395.90	1/4	627.21	1/4	858.52	1/4	1,089.83	1/4	1,321.14	1/4	1,552.45	1/4	1,783.76	1/4	2,015.08	1/4	2,246.39
1/2	169.42	1/2	400.72	1/2	632.03	1/2	863.34	1/2	1,094.65	1/2	1,325.96	1/2	1,557.27	1/2	1,788.58	1/2	2,019.89	1/2	2,251.21
3/4	174.24	3/4	405.54	3/4	636.85	3/4	868.16	3/4	1,099.47	3/4	1,330.78	3/4	1,562.09	3/4	1,793.40	3/4	2,024.71	3/4	2,256.03
9	179.05	9	410.36	9	641.67	9	872.97	9	1,104.28	9	1,335.60	9	1,566.91	9	1,798.22	9	2,029.53	9	2,260.84
1/4	183.87	1/4	415.18	1/4	646.49	1/4	877.79	1/4	1,109.10	1/4	1,340.42	1/4	1,571.73	1/4	1,803.04	1/4	2,034.35	1/4	2,265.66
1/2	188.69	1/2	420.00	1/2	651.30	1/2	882.61	1/2	1,113.92	1/2	1,345.23	1/2	1,576.55	1/2	1,807.86	1/2	2,039.17	1/2	2,270.48
3/4	193.51	3/4	424.82	3/4	656.12	3/4	887.43	3/4	1,118.74	3/4	1,350.05	3/4	1,581.37	3/4	1,812.68	3/4	2,043.99	3/4	2,275.30
10	198.33	10	429.64	10	660.94	10	892.25	10	1,123.56	10	1,354.87	10	1,586.18	10	1,817.50	10	2,048.81	10	2,280.12
1/4	203.15	1/4	434.45	1/4	665.76	1/4	897.07	1/4	1,128.38	1/4	1,359.69	1/4	1,591.00	1/4	1,822.32	1/4	2,053.63	1/4	2,284.94
1/2	207.97	1/2	439.27	1/2	670.58	1/2	901.89	1/2	1,133.20	1/2	1,364.51	1/2	1,595.82	1/2	1,827.13	1/2	2,058.45	1/2	2,289.76
3/4	212.79	3/4	444.09	3/4	675.40	3/4	906.71	3/4	1,138.02	3/4	1,369.33	3/4	1,600.64	3/4	1,831.95	3/4	2,063.27	3/4	2,294.58
11	217.60	11	448.91	11	680.22	11	911.53	11	1,142.84	11	1,374.15	11	1,605.46	11	1,836.77	11	2,068.08	11	2,299.40
1/4	222.42	1/4	453.73	1/4	685.04	1/4	916.34	1/4	1,147.66	1/4	1,378.97	1/4	1,610.28	1/4	1,841.59	1/4	2,072.90	1/4	2,304.22
1/2	227.24	1/2	458.55	1/2	689.86	1/2	921.16	1/2	1,152.47	1/2	1,383.79	1/2	1,615.10	1/2	1,846.41	1/2	2,077.72	1/2	2,309.03
3/4	232.06	3/4	463.37	3/4	694.67	3/4	925.98	3/4	1,157.29	3/4	1,388.61	3/4	1,619.92	3/4	1,851.23	3/4	2,082.54	3/4	2,313.85

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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





# BARGE "AL 2301"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,318.67	0	2,549.98	0	2,781.30	0	3,012.61	0		0		0		0		0		0	
1/4	2,323.49	1/4	2,554.80	1/4	2,786.12	1/4	3,017.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,328.31	1/2	2,559.62	1/2	2,790.93	1/2	3,022.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,333.13	3/4	2,564.44	3/4	2,795.75	3/4	3,027.07	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,337.95	1	2,569.26	1	2,800.57	1	3,031.88	1		1		1		1		1		1	
1/4	2,342.77	1/4	2,574.08	1/4	2,805.39	1/4	3,036.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,347.59	1/2	2,578.90	1/2	2,810.21	1/2	3,041.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,352.41	3/4	2,583.72	3/4	2,815.03	3/4	3,046.34	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,357.22	2	2,588.54	2	2,819.85	2	3,051.16	2		2		2		2		2		2	
1/4	2,362.04	1/4	2,593.36	1/4	2,824.67	1/4	3,055.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,366.86	1/2	2,598.17	1/2	2,829.49	1/2	3,060.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,371.68	3/4	2,602.99	3/4	2,834.31	3/4	3,065.62	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,376.50	3	2,607.81	3	2,839.12	3	3,070.44	3		3		3		3		3		3	
1/4	2,381.32	1/4	2,612.63	1/4	2,843.94	1/4	3,075.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,386.14	1/2	2,617.45	1/2	2,848.76	1/2	3,080.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,390.96	3/4	2,622.27	3/4	2,853.58	3/4	3,084.89	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,395.78	4	2,627.09	4	2,858.40	4	3,089.71	4		4		4		4		4		4	
1/4	2,400.60	1/4	2,631.91	1/4	2,863.22	1/4	3,094.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,405.41	1/2	2,636.73	1/2	2,868.04	1/2	3,099.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,410.23	3/4	2,641.55	3/4	2,872.86	3/4	3,104.17	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,415.05	5	2,646.36	5	2,877.68	5	3,108.99	5		5		5		5		5		5	
1/4	2,419.87	1/4	2,651.18	1/4	2,882.50	1/4	3,113.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,424.69	1/2	2,656.00	1/2	2,887.31	1/2	3,118.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,429.51	3/4	2,660.82	3/4	2,892.13	3/4	3,123.45	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,434.33	6	2,665.64	6	2,896.95	6	3,128.26	6		6		6		6		6		6	
1/4	2,439.15	1/4	2,670.46	1/4	2,901.77	1/4	3,133.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,443.97	1/2	2,675.28	1/2	2,906.59	1/2	3,137.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,448.79	3/4	2,680.10	3/4	2,911.41	3/4	3,142.72	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,453.60	7	2,684.92	7	2,916.23	7	3,147.54	7		7		7		7		7		7	
1/4	2,458.42	1/4	2,689.74	1/4	2,921.05	1/4	3,152.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,463.24	1/2	2,694.55	1/2	2,925.87	1/2	3,157.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,468.06	3/4	2,699.37	3/4	2,930.69	3/4	3,162.00	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,472.88	8	2,704.19	8	2,935.50	8	3,166.82	8		8		8		8		8		8	
1/4	2,477.70	1/4	2,709.01	1/4	2,940.32	1/4	3,171.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,482.52	1/2	2,713.83	1/2	2,945.14	1/2	3,176.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,487.34	3/4	2,718.65	3/4	2,949.96	3/4	3,181.27	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,492.16	9	2,723.47	9	2,954.78	9	3,186.09	9		9		9		9		9		9	
1/4	2,496.98	1/4	2,728.29	1/4	2,959.60	1/4	3,190.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,501.79	1/2	2,733.11	1/2	2,964.42	1/2	3,195.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,506.61	3/4	2,737.93	3/4	2,969.24	3/4	3,200.55	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,511.43	10	2,742.74	10	2,974.06	10	3,205.37	10		10		10		10		10		10	
1/4	2,516.25	1/4	2,747.56	1/4	2,978.88	1/4	3,209.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,521.07	1/2	2,752.38	1/2	2,983.69	1/2	3,213.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,525.89	3/4	2,757.20	3/4	2,988.51	3/4	3,218.01	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,530.71	11	2,762.02	11	2,993.33	11	3,222.23	11		11		11		11		11		11	
1/4	2,535.53	1/4	2,766.84	1/4	2,998.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,540.35	1/2	2,771.66	1/2	3,002.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,545.17	3/4	2,776.48	3/4	3,007.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	11.71	0	237.21	0	468.84	0	700.48	0	932.11	0	1,163.74	0	1,395.37	0	1,627.00	0	1,858.64	0	2,090.27
1/4	15.32	1/4	242.03	1/4	473.67	1/4	705.30	1/4	936.93	1/4	1,168.56	1/4	1,400.20	1/4	1,631.83	1/4	1,863.46	1/4	2,095.10
1/2	18.94	1/2	246.86	1/2	478.49	1/2	710.13	1/2	941.76	1/2	1,173.39	1/2	1,405.02	1/2	1,636.66	1/2	1,868.29	1/2	2,099.92
3/4	22.56	3/4	251.69	3/4	483.32	3/4	714.95	3/4	946.59	3/4	1,178.21	3/4	1,409.85	3/4	1,641.48	3/4	1,873.11	3/4	2,104.75
1	26.18	1	256.51	1	488.14	1	719.78	1	951.41	1	1,183.04	1	1,414.67	1	1,646.31	1	1,877.94	1	2,109.57
1/4	30.76	1/4	261.34	1/4	492.97	1/4	724.60	1/4	956.24	1/4	1,187.87	1/4	1,419.50	1/4	1,651.13	1/4	1,882.77	1/4	2,114.40
1/2	35.33	1/2	266.16	1/2	497.80	1/2	729.43	1/2	961.06	1/2	1,192.69	1/2	1,424.32	1/2	1,655.96	1/2	1,887.59	1/2	2,119.23
3/4	39.91	3/4	270.99	3/4	502.62	3/4	734.26	3/4	965.89	3/4	1,197.52	3/4	1,429.15	3/4	1,660.78	3/4	1,892.42	3/4	2,124.05
2	44.49	2	275.81	2	507.45	2	739.08	2	970.71	2	1,202.34	2	1,433.98	2	1,665.61	2	1,897.24	2	2,128.88
1/4	49.28	1/4	280.64	1/4	512.27	1/4	743.91	1/4	975.54	1/4	1,207.17	1/4	1,438.80	1/4	1,670.44	1/4	1,902.07	1/4	2,133.70
1/2	54.06	1/2	285.47	1/2	517.10	1/2	748.73	1/2	980.37	1/2	1,211.99	1/2	1,443.63	1/2	1,675.26	1/2	1,906.89	1/2	2,138.53
3/4	58.85	3/4	290.29	3/4	521.92	3/4	753.56	3/4	985.19	3/4	1,216.82	3/4	1,448.45	3/4	1,680.09	3/4	1,911.72	3/4	2,143.35
3	63.63	3	295.12	3	526.75	3	758.38	3	990.02	3	1,221.65	3	1,453.28	3	1,684.91	3	1,916.55	3	2,148.18
1/4	68.44	1/4	299.94	1/4	531.58	1/4	763.21	1/4	994.84	1/4	1,226.47	1/4	1,458.10	1/4	1,689.74	1/4	1,921.37	1/4	2,153.01
1/2	73.24	1/2	304.77	1/2	536.40	1/2	768.04	1/2	999.67	1/2	1,231.30	1/2	1,462.93	1/2	1,694.56	1/2	1,926.20	1/2	2,157.83
3/4	78.04	3/4	309.59	3/4	541.23	3/4	772.86	3/4	1,004.49	3/4	1,236.12	3/4	1,467.76	3/4	1,699.39	3/4	1,931.02	3/4	2,162.66
4	82.85	4	314.42	4	546.05	4	777.69	4	1,009.32	4	1,240.95	4	1,472.58	4	1,704.22	4	1,935.85	4	2,167.48
1/4	87.66	1/4	319.25	1/4	550.88	1/4	782.51	1/4	1,014.15	1/4	1,245.77	1/4	1,477.41	1/4	1,709.04	1/4	1,940.67	1/4	2,172.31
1/2	92.48	1/2	324.07	1/2	555.70	1/2	787.34	1/2	1,018.97	1/2	1,250.60	1/2	1,482.23	1/2	1,713.87	1/2	1,945.50	1/2	2,177.13
3/4	97.29	3/4	328.90	3/4	560.53	3/4	792.16	3/4	1,023.80	3/4	1,255.43	3/4	1,487.06	3/4	1,718.69	3/4	1,950.33	3/4	2,181.96
5	102.11	5	333.72	5	565.36	5	796.99	5	1,028.62	5	1,260.25	5	1,491.88	5	1,723.52	5	1,955.15	5	2,186.79
1/4	106.93	1/4	338.55	1/4	570.18	1/4	801.82	1/4	1,033.45	1/4	1,265.08	1/4	1,496.71	1/4	1,728.34	1/4	1,959.98	1/4	2,191.61
1/2	111.75	1/2	343.37	1/2	575.01	1/2	806.64	1/2	1,038.27	1/2	1,269.90	1/2	1,501.54	1/2	1,733.17	1/2	1,964.80	1/2	2,196.44
3/4	116.57	3/4	348.20	3/4	579.83	3/4	811.47	3/4	1,043.10	3/4	1,274.73	3/4	1,506.36	3/4	1,738.00	3/4	1,969.63	3/4	2,201.26
6	121.40	6	353.03	6	584.66	6	816.29	6	1,047.92	6	1,279.55	6	1,511.19	6	1,742.82	6	1,974.45	6	2,206.09
1/4	126.22	1/4	357.85	1/4	589.48	1/4	821.12	1/4	1,052.75	1/4	1,284.38	1/4	1,516.01	1/4	1,747.65	1/4	1,979.28	1/4	2,210.91
1/2	131.05	1/2	362.68	1/2	594.31	1/2	825.94	1/2	1,057.57	1/2	1,289.21	1/2	1,520.84	1/2	1,752.47	1/2	1,984.11	1/2	2,215.74
3/4	135.87	3/4	367.50	3/4	599.14	3/4	830.77	3/4	1,062.40	3/4	1,294.03	3/4	1,525.66	3/4	1,757.30	3/4	1,988.93	3/4	2,220.57
7	140.70	7	372.33	7	603.96	7	835.60	7	1,067.22	7	1,298.86	7	1,530.49	7	1,762.12	7	1,993.76	7	2,225.39
1/4	145.52	1/4	377.15	1/4	608.79	1/4	840.42	1/4	1,072.05	1/4	1,303.68	1/4	1,535.32	1/4	1,766.95	1/4	1,998.58	1/4	2,230.22
1/2	150.35	1/2	381.98	1/2	613.61	1/2	845.25	1/2	1,076.87	1/2	1,308.51	1/2	1,540.14	1/2	1,771.78	1/2	2,003.41	1/2	2,235.04
3/4	155.17	3/4	386.81	3/4	618.44	3/4	850.07	3/4	1,081.70	3/4	1,313.33	3/4	1,544.97	3/4	1,776.60	3/4	2,008.23	3/4	2,239.87
8	160.00	8	391.63	8	623.26	8	854.90	8	1,086.53	8	1,318.16	8	1,549.79	8	1,781.43	8	2,013.06	8	2,244.69
1/4	164.83	1/4	396.46	1/4	628.09	1/4	859.72	1/4	1,091.35	1/4	1,322.99	1/4	1,554.62	1/4	1,786.25	1/4	2,017.89	1/4	2,249.52
1/2	169.65	1/2	401.28	1/2	632.92	1/2	864.55	1/2	1,096.18	1/2	1,327.81	1/2	1,559.44	1/2	1,791.08	1/2	2,022.71	1/2	2,254.35
3/4	174.48	3/4	406.11	3/4	637.74	3/4	869.38	3/4	1,101.00	3/4	1,332.64	3/4	1,564.27	3/4	1,795.90	3/4	2,027.54	3/4	2,259.17
9	179.30	9	410.93	9	642.57	9	874.20	9	1,105.83	9	1,337.46	9	1,569.10	9	1,800.73	9	2,032.36	9	2,264.00
1/4	184.13	1/4	415.76	1/4	647.39	1/4	879.03	1/4	1,110.65	1/4	1,342.29	1/4	1,573.92	1/4	1,805.56	1/4	2,037.19	1/4	2,268.82
1/2	188.95	1/2	420.59	1/2	652.22	1/2	883.85	1/2	1,115.48	1/2	1,347.11	1/2	1,578.75	1/2	1,810.38	1/2	2,042.01	1/2	2,273.65
3/4	193.78	3/4	425.41	3/4	657.04	3/4	888.68	3/4	1,120.31	3/4	1,351.94	3/4	1,583.57	3/4	1,815.21	3/4	2,046.84	3/4	2,278.47
10	198.60	10	430.24	10	661.87	10	893.50	10	1,125.13	10	1,356.76	10	1,588.40	10	1,820.03	10	2,051.67	10	2,283.30
1/4	203.43	1/4	435.06	1/4	666.70	1/4	898.33	1/4	1,129.96	1/4	1,361.59	1/4	1,593.22	1/4	1,824.86	1/4	2,056.49	1/4	2,288.13
1/2	208.25	1/2	439.89	1/2	671.52	1/2	903.16	1/2	1,134.78	1/2	1,366.42	1/2	1,598.05	1/2	1,829.68	1/2	2,061.32	1/2	2,292.95
3/4	213.08	3/4	444.71	3/4	676.35	3/4	907.98	3/4	1,139.61	3/4	1,371.24	3/4	1,602.88	3/4	1,834.51	3/4	2,066.14	3/4	2,297.78
11	217.91	11	449.54	11	681.17	11	912.81	11	1,144.43	11	1,376.07	11	1,607.70	11	1,839.33	11	2,070.97	11	2,302.60
1/4	222.73	1/4	454.36	1/4	686.00	1/4	917.63	1/4	1,149.26	1/4	1,380.89	1/4	1,612.53	1/4	1,844.16	1/4	2,075.79	1/4	2,307.43
1/2	227.56	1/2	459.19	1/2	690.82	1/2	922.46	1/2	1,154.09	1/2	1,385.72	1/2	1,617.35	1/2	1,848.99	1/2	2,080.62	1/2	2,312.25
3/4	232.38	3/4	464.02	3/4	695.65	3/4	927.28	3/4	1,158.91	3/4	1,390.54	3/4	1,622.18	3/4	1,853.81	3/4	2,085.45	3/4	2,317.08

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 INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "AL 2301"

## 4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,321.90	0	2,553.54	0	2,785.17	0	3,016.81	0		0		0		0		0		0	
1/4	2,326.73	1/4	2,558.36	1/4	2,790.00	1/4	3,021.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,331.56	1/2	2,563.19	1/2	2,794.82	1/2	3,026.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,336.38	3/4	2,568.02	3/4	2,799.65	3/4	3,031.28	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,341.21	1	2,572.84	1	2,804.47	1	3,036.11	1		1		1		1		1		1	
1/4	2,346.03	1/4	2,577.67	1/4	2,809.30	1/4	3,040.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,350.86	1/2	2,582.49	1/2	2,814.13	1/2	3,045.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,355.68	3/4	2,587.32	3/4	2,818.95	3/4	3,050.59	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,360.51	2	2,592.14	2	2,823.78	2	3,055.41	2		2		2		2		2		2	
1/4	2,365.34	1/4	2,596.97	1/4	2,828.60	1/4	3,060.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,370.16	1/2	2,601.80	1/2	2,833.43	1/2	3,065.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,374.99	3/4	2,606.62	3/4	2,838.25	3/4	3,069.89	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,379.81	3	2,611.45	3	2,843.08	3	3,074.71	3		3		3		3		3		3	
1/4	2,384.64	1/4	2,616.27	1/4	2,847.91	1/4	3,079.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,389.46	1/2	2,621.10	1/2	2,852.73	1/2	3,084.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,394.29	3/4	2,625.92	3/4	2,857.56	3/4	3,089.19	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,399.12	4	2,630.75	4	2,862.38	4	3,094.02	4		4		4		4		4		4	
1/4	2,403.94	1/4	2,635.58	1/4	2,867.21	1/4	3,098.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,408.77	1/2	2,640.40	1/2	2,872.03	1/2	3,103.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,413.59	3/4	2,645.23	3/4	2,876.86	3/4	3,108.49	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,418.42	5	2,650.05	5	2,881.69	5	3,113.32	5		5		5		5		5		5	
1/4	2,423.24	1/4	2,654.88	1/4	2,886.51	1/4	3,118.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,428.07	1/2	2,659.70	1/2	2,891.34	1/2	3,122.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,432.90	3/4	2,664.53	3/4	2,896.16	3/4	3,127.80	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,437.72	6	2,669.36	6	2,900.99	6	3,132.62	6		6		6		6		6		6	
1/4	2,442.55	1/4	2,674.18	1/4	2,905.81	1/4	3,137.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,447.37	1/2	2,679.01	1/2	2,910.64	1/2	3,142.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,452.20	3/4	2,683.83	3/4	2,915.47	3/4	3,147.10	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,457.02	7	2,688.66	7	2,920.29	7	3,151.93	7		7		7		7		7		7	
1/4	2,461.85	1/4	2,693.48	1/4	2,925.12	1/4	3,156.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,466.68	1/2	2,698.31	1/2	2,929.94	1/2	3,161.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,471.50	3/4	2,703.14	3/4	2,934.77	3/4	3,166.40	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,476.33	8	2,707.96	8	2,939.59	8	3,171.23	8		8		8		8		8		8	
1/4	2,481.15	1/4	2,712.79	1/4	2,944.42	1/4	3,176.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,485.98	1/2	2,717.61	1/2	2,949.25	1/2	3,180.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,490.80	3/4	2,722.44	3/4	2,954.07	3/4	3,185.71	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,495.63	9	2,727.26	9	2,958.90	9	3,190.53	9		9		9		9		9		9	
1/4	2,500.46	1/4	2,732.09	1/4	2,963.72	1/4	3,195.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,505.28	1/2	2,736.92	1/2	2,968.55	1/2	3,200.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,510.11	3/4	2,741.74	3/4	2,973.37	3/4	3,205.01	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,514.93	10	2,746.57	10	2,978.20	10	3,209.83	10		10		10		10		10		10	
1/4	2,519.76	1/4	2,751.39	1/4	2,983.03	1/4	3,214.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,524.58	1/2	2,756.22	1/2	2,987.85	1/2	3,218.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,529.41	3/4	2,761.04	3/4	2,992.68	3/4	3,222.51	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,534.24	11	2,765.87	11	2,997.50	11	3,226.73	11		11		11		11		11		11	
1/4	2,539.06	1/4	2,770.70	1/4	3,002.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,543.89	1/2	2,775.52	1/2	3,007.15	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,548.71	3/4	2,780.35	3/4	3,011.98	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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



# BARGE "AL 2301"

## 4 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	11.68	0	236.73	0	467.90	0	699.06	0	930.23	0	1,161.38	0	1,392.54	0	1,623.70	0	1,854.86	0	2,086.03
1/4	15.29	1/4	241.54	1/4	472.71	1/4	703.88	1/4	935.05	1/4	1,166.19	1/4	1,397.35	1/4	1,628.52	1/4	1,859.68	1/4	2,090.84
1/2	18.90	1/2	246.36	1/2	477.53	1/2	708.70	1/2	939.86	1/2	1,171.01	1/2	1,402.17	1/2	1,633.33	1/2	1,864.50	1/2	2,095.66
3/4	22.52	3/4	251.18	3/4	482.34	3/4	713.51	3/4	944.68	3/4	1,175.82	3/4	1,406.99	3/4	1,638.15	3/4	1,869.31	3/4	2,100.48
1	26.13	1	255.99	1	487.16	1	718.33	1	949.50	1	1,180.64	1	1,411.80	1	1,642.97	1	1,874.13	1	2,105.29
1/4	30.69	1/4	260.81	1/4	491.98	1/4	723.14	1/4	954.31	1/4	1,185.45	1/4	1,416.62	1/4	1,647.78	1/4	1,878.94	1/4	2,110.11
1/2	35.26	1/2	265.62	1/2	496.79	1/2	727.96	1/2	959.13	1/2	1,190.27	1/2	1,421.43	1/2	1,652.60	1/2	1,883.76	1/2	2,114.92
3/4	39.83	3/4	270.44	3/4	501.61	3/4	732.78	3/4	963.94	3/4	1,195.09	3/4	1,426.25	3/4	1,657.41	3/4	1,888.58	3/4	2,119.74
2	44.40	2	275.26	2	506.42	2	737.59	2	968.76	2	1,199.90	2	1,431.07	2	1,662.23	2	1,893.39	2	2,124.56
1/4	49.18	1/4	280.07	1/4	511.24	1/4	742.41	1/4	973.58	1/4	1,204.72	1/4	1,435.88	1/4	1,667.04	1/4	1,898.21	1/4	2,129.37
1/2	53.95	1/2	284.89	1/2	516.06	1/2	747.22	1/2	978.39	1/2	1,209.53	1/2	1,440.70	1/2	1,671.86	1/2	1,903.02	1/2	2,134.19
3/4	58.73	3/4	289.70	3/4	520.87	3/4	752.04	3/4	983.21	3/4	1,214.35	3/4	1,445.51	3/4	1,676.68	3/4	1,907.84	3/4	2,139.00
3	63.51	3	294.52	3	525.69	3	756.86	3	988.02	3	1,219.17	3	1,450.33	3	1,681.49	3	1,912.66	3	2,143.82
1/4	68.30	1/4	299.34	1/4	530.50	1/4	761.67	1/4	992.84	1/4	1,223.98	1/4	1,455.15	1/4	1,686.31	1/4	1,917.47	1/4	2,148.63
1/2	73.09	1/2	304.15	1/2	535.32	1/2	766.49	1/2	997.66	1/2	1,228.80	1/2	1,459.96	1/2	1,691.12	1/2	1,922.29	1/2	2,153.45
3/4	77.89	3/4	308.97	3/4	540.14	3/4	771.30	3/4	1,002.47	3/4	1,233.61	3/4	1,464.78	3/4	1,695.94	3/4	1,927.10	3/4	2,158.27
4	82.68	4	313.78	4	544.95	4	776.12	4	1,007.29	4	1,238.43	4	1,469.59	4	1,700.76	4	1,931.92	4	2,163.08
1/4	87.49	1/4	318.60	1/4	549.77	1/4	780.94	1/4	1,012.10	1/4	1,243.25	1/4	1,474.41	1/4	1,705.57	1/4	1,936.74	1/4	2,167.90
1/2	92.29	1/2	323.42	1/2	554.58	1/2	785.75	1/2	1,016.91	1/2	1,248.06	1/2	1,479.22	1/2	1,710.39	1/2	1,941.55	1/2	2,172.71
3/4	97.10	3/4	328.23	3/4	559.40	3/4	790.57	3/4	1,021.72	3/4	1,252.88	3/4	1,484.04	3/4	1,715.20	3/4	1,946.37	3/4	2,177.53
5	101.90	5	333.05	5	564.22	5	795.38	5	1,026.54	5	1,257.69	5	1,488.86	5	1,720.02	5	1,951.18	5	2,182.35
1/4	106.71	1/4	337.86	1/4	569.03	1/4	800.20	1/4	1,031.35	1/4	1,262.51	1/4	1,493.67	1/4	1,724.84	1/4	1,956.00	1/4	2,187.16
1/2	111.53	1/2	342.68	1/2	573.85	1/2	805.02	1/2	1,036.17	1/2	1,267.32	1/2	1,498.49	1/2	1,729.65	1/2	1,960.81	1/2	2,191.98
3/4	116.34	3/4	347.50	3/4	578.66	3/4	809.83	3/4	1,040.98	3/4	1,272.14	3/4	1,503.30	3/4	1,734.47	3/4	1,965.63	3/4	2,196.79
6	121.15	6	352.31	6	583.48	6	814.65	6	1,045.80	6	1,276.96	6	1,508.12	6	1,739.28	6	1,970.45	6	2,201.61
1/4	125.97	1/4	357.13	1/4	588.30	1/4	819.46	1/4	1,050.61	1/4	1,281.77	1/4	1,512.94	1/4	1,744.10	1/4	1,975.26	1/4	2,206.43
1/2	130.78	1/2	361.94	1/2	593.11	1/2	824.28	1/2	1,055.43	1/2	1,286.59	1/2	1,517.75	1/2	1,748.91	1/2	1,980.08	1/2	2,211.24
3/4	135.60	3/4	366.76	3/4	597.93	3/4	829.10	3/4	1,060.24	3/4	1,291.40	3/4	1,522.57	3/4	1,753.73	3/4	1,984.89	3/4	2,216.06
7	140.41	7	371.58	7	602.74	7	833.91	7	1,065.06	7	1,296.22	7	1,527.38	7	1,758.55	7	1,989.71	7	2,220.87
1/4	145.23	1/4	376.39	1/4	607.56	1/4	838.73	1/4	1,069.87	1/4	1,301.04	1/4	1,532.20	1/4	1,763.36	1/4	1,994.53	1/4	2,225.69
1/2	150.04	1/2	381.21	1/2	612.38	1/2	843.54	1/2	1,074.69	1/2	1,305.85	1/2	1,537.02	1/2	1,768.18	1/2	1,999.34	1/2	2,230.50
3/4	154.86	3/4	386.02	3/4	617.19	3/4	848.36	3/4	1,079.50	3/4	1,310.67	3/4	1,541.83	3/4	1,772.99	3/4	2,004.16	3/4	2,235.32
8	159.68	8	390.84	8	622.01	8	853.18	8	1,084.32	8	1,315.48	8	1,546.65	8	1,777.81	8	2,008.97	8	2,240.14
1/4	164.49	1/4	395.66	1/4	626.82	1/4	857.99	1/4	1,089.14	1/4	1,320.30	1/4	1,551.46	1/4	1,782.63	1/4	2,013.79	1/4	2,244.95
1/2	169.31	1/2	400.47	1/2	631.64	1/2	862.81	1/2	1,093.95	1/2	1,325.12	1/2	1,556.28	1/2	1,787.44	1/2	2,018.61	1/2	2,249.77
3/4	174.12	3/4	405.29	3/4	636.46	3/4	867.62	3/4	1,098.77	3/4	1,329.93	3/4	1,561.09	3/4	1,792.26	3/4	2,023.42	3/4	2,254.58
9	178.94	9	410.10	9	641.27	9	872.44	9	1,103.58	9	1,334.75	9	1,565.91	9	1,797.07	9	2,028.24	9	2,259.40
1/4	183.76	1/4	414.92	1/4	646.09	1/4	877.26	1/4	1,108.40	1/4	1,339.56	1/4	1,570.73	1/4	1,801.89	1/4	2,033.05	1/4	2,264.22
1/2	188.57	1/2	419.74	1/2	650.90	1/2	882.07	1/2	1,113.22	1/2	1,344.38	1/2	1,575.54	1/2	1,806.71	1/2	2,037.87	1/2	2,269.03
3/4	193.39	3/4	424.55	3/4	655.72	3/4	886.89	3/4	1,118.03	3/4	1,349.20	3/4	1,580.36	3/4	1,811.52	3/4	2,042.68	3/4	2,273.85
10	198.20	10	429.37	10	660.54	10	891.70	10	1,122.85	10	1,354.01	10	1,585.17	10	1,816.34	10	2,047.50	10	2,278.66
1/4	203.02	1/4	434.18	1/4	665.35	1/4	896.52	1/4	1,127.66	1/4	1,358.83	1/4	1,589.99	1/4	1,821.15	1/4	2,052.32	1/4	2,283.48
1/2	207.83	1/2	439.00	1/2	670.17	1/2	901.34	1/2	1,132.48	1/2	1,363.64	1/2	1,594.81	1/2	1,825.97	1/2	2,057.13	1/2	2,288.30
3/4	212.65	3/4	443.82	3/4	674.98	3/4	906.15	3/4	1,137.30	3/4	1,368.46	3/4	1,599.62	3/4	1,830.79	3/4	2,061.95	3/4	2,293.11
11	217.46	11	448.63	11	679.80	11	910.97	11	1,142.11	11	1,373.27	11	1,604.44	11	1,835.60	11	2,066.76	11	2,297.93
1/4	222.28	1/4	453.45	1/4	684.62	1/4	915.78	1/4	1,146.93	1/4	1,378.09	1/4	1,609.25	1/4	1,840.42	1/4	2,071.58	1/4	2,302.74
1/2	227.10	1/2	458.26	1/2	689.43	1/2	920.60	1/2	1,151.74	1/2	1,382.91	1/2	1,614.07	1/2	1,845.23	1/2	2,076.40	1/2	2,307.56
3/4	231.91	3/4	463.08	3/4	694.25	3/4	925.42	3/4	1,156.56	3/4	1,387.72	3/4	1,618.89	3/4	1,850.05	3/4	2,081.21	3/4	2,312.38

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 INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 13'-06" OFF CENTERLINE AND 28'-00" FORWARD OF AFT BULKHEAD.

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





# BARGE "AL 2301"

## 4 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,317.19	0	2,548.35	0	2,779.52	0	3,010.68	0		0		0		0		0		0	
1/4	2,322.01	1/4	2,553.17	1/4	2,784.33	1/4	3,015.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,326.82	1/2	2,557.99	1/2	2,789.15	1/2	3,020.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,331.64	3/4	2,562.80	3/4	2,793.97	3/4	3,025.13	3/4		3/4		3/4		3/4		3/4		3/4	
1	2,336.45	1	2,567.62	1	2,798.78	1	3,029.94	1		1		1		1		1		1	
1/4	2,341.27	1/4	2,572.43	1/4	2,803.60	1/4	3,034.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,346.09	1/2	2,577.25	1/2	2,808.41	1/2	3,039.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,350.90	3/4	2,582.07	3/4	2,813.23	3/4	3,044.39	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,355.72	2	2,586.88	2	2,818.04	2	3,049.21	2		2		2		2		2		2	
1/4	2,360.53	1/4	2,591.70	1/4	2,822.86	1/4	3,054.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,365.35	1/2	2,596.51	1/2	2,827.68	1/2	3,058.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,370.17	3/4	2,601.33	3/4	2,832.49	3/4	3,063.66	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,374.98	3	2,606.15	3	2,837.31	3	3,068.47	3		3		3		3		3		3	
1/4	2,379.80	1/4	2,610.96	1/4	2,842.12	1/4	3,073.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,384.61	1/2	2,615.78	1/2	2,846.94	1/2	3,078.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,389.43	3/4	2,620.59	3/4	2,851.76	3/4	3,082.92	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,394.25	4	2,625.41	4	2,856.57	4	3,087.74	4		4		4		4		4		4	
1/4	2,399.06	1/4	2,630.22	1/4	2,861.39	1/4	3,092.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,403.88	1/2	2,635.04	1/2	2,866.20	1/2	3,097.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,408.69	3/4	2,639.86	3/4	2,871.02	3/4	3,102.18	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,413.51	5	2,644.67	5	2,875.84	5	3,107.00	5		5		5		5		5		5	
1/4	2,418.33	1/4	2,649.49	1/4	2,880.65	1/4	3,111.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,423.14	1/2	2,654.30	1/2	2,885.47	1/2	3,116.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,427.96	3/4	2,659.12	3/4	2,890.28	3/4	3,121.45	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,432.77	6	2,663.94	6	2,895.10	6	3,126.26	6		6		6		6		6		6	
1/4	2,437.59	1/4	2,668.75	1/4	2,899.92	1/4	3,131.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,442.40	1/2	2,673.57	1/2	2,904.73	1/2	3,135.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,447.22	3/4	2,678.38	3/4	2,909.55	3/4	3,140.71	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,452.04	7	2,683.20	7	2,914.36	7	3,145.53	7		7		7		7		7		7	
1/4	2,456.85	1/4	2,688.02	1/4	2,919.18	1/4	3,150.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,461.67	1/2	2,692.83	1/2	2,923.99	1/2	3,155.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,466.48	3/4	2,697.65	3/4	2,928.81	3/4	3,159.97	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,471.30	8	2,702.46	8	2,933.63	8	3,164.79	8		8		8		8		8		8	
1/4	2,476.12	1/4	2,707.28	1/4	2,938.44	1/4	3,169.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,480.93	1/2	2,712.09	1/2	2,943.26	1/2	3,174.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,485.75	3/4	2,716.91	3/4	2,948.07	3/4	3,179.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,490.56	9	2,721.73	9	2,952.89	9	3,184.05	9		9		9		9		9		9	
1/4	2,495.38	1/4	2,726.54	1/4	2,957.71	1/4	3,188.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,500.20	1/2	2,731.36	1/2	2,962.52	1/2	3,193.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,505.01	3/4	2,736.17	3/4	2,967.34	3/4	3,198.50	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,509.83	10	2,740.99	10	2,972.15	10	3,203.32	10		10		10		10		10		10	
1/4	2,514.64	1/4	2,745.81	1/4	2,976.97	1/4	3,207.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,519.46	1/2	2,750.62	1/2	2,981.79	1/2	3,211.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,524.27	3/4	2,755.44	3/4	2,986.60	3/4	3,215.97	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,529.09	11	2,760.25	11	2,991.42	11	3,220.19	11		11		11		11		11		11	
1/4	2,533.91	1/4	2,765.07	1/4	2,996.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,538.72	1/2	2,769.89	1/2	3,001.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,543.54	3/4	2,774.70	3/4	3,005.86	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2018 SW  
CALCULATED: 10/24/2018 CL  
GENERATED: 10/25/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2018

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