



BARGE "KOLACHE"

ULLAGE TRIM TABLE
"HERMETIC"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 01-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 3'-10 7/8"

LENGTH BETWEEN DRAFT MARKS: 253'-03"

February 14, 2014

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KOLACHE"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,919.87	0	4,588.05	0	4,242.11	0	3,883.25	0	3,520.32	0	3,157.40	0	2,794.48	0	2,431.49
1/4	1/4	1/4	1/4	1/4	4,913.10	1/4	4,580.98	1/4	4,234.76	1/4	3,875.69	1/4	3,512.76	1/4	3,149.84	1/4	2,786.92	1/4	2,423.92
1/2	1/2	1/2	1/2	1/2	5,219.58	1/2	4,906.34	1/2	4,573.91	1/2	4,227.42	1/2	3,868.13	1/2	3,505.20	1/2	3,142.28	1/2	2,779.36
3/4	3/4	3/4	3/4	3/4	5,214.45	3/4	4,899.55	3/4	4,566.82	3/4	4,220.05	3/4	3,860.57	3/4	3,497.64	3/4	3,134.72	3/4	2,771.80
1	1	1	1	1	5,209.33	1	4,892.77	1	4,559.72	1	4,212.68	1	3,853.00	1	3,490.08	1	3,127.16	1	2,764.23
1/4	1/4	1/4	1/4	1/4	5,204.21	1/4	4,885.98	1/4	4,552.63	1/4	4,205.31	1/4	3,845.44	1/4	3,482.52	1/4	3,119.60	1/4	2,756.67
1/2	1/2	1/2	1/2	1/2	5,199.08	1/2	4,879.19	1/2	4,545.54	1/2	4,197.94	1/2	3,837.88	1/2	3,474.96	1/2	3,112.04	1/2	2,749.11
3/4	3/4	3/4	3/4	3/4	5,192.74	3/4	4,872.38	3/4	4,538.42	3/4	4,190.55	3/4	3,830.32	3/4	3,467.40	3/4	3,104.48	3/4	2,741.55
2	2	2	2	2	5,186.41	2	4,865.57	2	4,531.31	2	4,183.16	2	3,822.76	2	3,459.84	2	3,096.91	2	2,733.99
1/4	1/4	1/4	1/4	1/4	5,180.07	1/4	4,858.76	1/4	4,524.19	1/4	4,175.77	1/4	3,815.20	1/4	3,452.28	1/4	3,089.35	1/4	2,726.43
1/2	1/2	1/2	1/2	1/2	5,173.73	1/2	4,851.95	1/2	4,517.08	1/2	4,168.38	1/2	3,807.64	1/2	3,444.72	1/2	3,081.79	1/2	2,718.87
3/4	3/4	3/4	3/4	3/4	5,166.52	3/4	4,845.12	3/4	4,509.94	3/4	4,160.97	3/4	3,800.08	3/4	3,437.16	3/4	3,074.23	3/4	2,711.31
3	3	3	3	3	5,159.32	3	4,838.29	3	4,502.80	3	4,153.55	3	3,792.52	3	3,429.59	3	3,066.67	3	2,703.75
1/4	1/4	1/4	1/4	1/4	5,152.11	1/4	4,831.46	1/4	4,495.67	1/4	4,146.14	1/4	3,784.96	1/4	3,422.03	1/4	3,059.11	1/4	2,695.19
1/2	1/2	1/2	1/2	1/2	5,144.91	1/2	4,824.62	1/2	4,488.53	1/2	4,138.72	1/2	3,777.40	1/2	3,414.47	1/2	3,051.55	1/2	2,688.63
3/4	3/4	3/4	3/4	3/4	5,138.40	3/4	4,817.77	3/4	4,481.37	3/4	4,131.29	3/4	3,769.83	3/4	3,406.91	3/4	3,043.99	3/4	2,681.07
4	4	4	4	4	5,131.89	4	4,810.91	4	4,474.21	4	4,123.85	4	3,762.27	4	3,399.35	4	3,036.43	4	2,673.50
1/4	1/4	1/4	1/4	1/4	5,125.38	1/4	4,804.06	1/4	4,467.04	1/4	4,116.41	1/4	3,754.71	1/4	3,391.79	1/4	3,028.87	1/4	2,665.94
1/2	1/2	1/2	1/2	1/2	5,118.87	1/2	4,797.20	1/2	4,459.88	1/2	4,108.97	1/2	3,747.15	1/2	3,384.23	1/2	3,021.31	1/2	2,658.38
3/4	3/4	3/4	3/4	3/4	5,112.33	3/4	4,790.32	3/4	4,452.70	3/4	4,101.51	3/4	3,739.59	3/4	3,376.67	3/4	3,013.74	3/4	2,650.82
5	5	5	5	5	5,105.80	5	4,783.44	5	4,445.52	5	4,094.05	5	3,732.03	5	3,369.11	5	3,006.18	5	2,643.26
1/4	1/4	1/4	1/4	1/4	5,099.27	1/4	4,776.57	1/4	4,438.33	1/4	4,086.59	1/4	3,724.47	1/4	3,361.55	1/4	2,998.62	1/4	2,635.70
1/2	1/2	1/2	1/2	1/2	5,092.73	1/2	4,769.69	1/2	4,431.15	1/2	4,079.13	1/2	3,716.91	1/2	3,353.99	1/2	2,991.06	1/2	2,628.14
3/4	3/4	3/4	3/4	3/4	5,086.18	3/4	4,762.78	3/4	4,423.94	3/4	4,071.65	3/4	3,709.35	3/4	3,346.42	3/4	2,983.50	3/4	2,620.58
6	6	6	6	6	5,079.62	6	4,755.88	6	4,416.73	6	4,064.17	6	3,701.79	6	3,338.86	6	2,975.94	6	2,613.02
1/4	1/4	1/4	1/4	1/4	5,073.06	1/4	4,748.98	1/4	4,409.53	1/4	4,056.68	1/4	3,694.23	1/4	3,331.30	1/4	2,968.38	1/4	2,605.45
1/2	1/2	1/2	1/2	1/2	5,066.51	1/2	4,742.08	1/2	4,402.32	1/2	4,049.20	1/2	3,686.66	1/2	3,323.74	1/2	2,960.82	1/2	2,597.89
3/4	3/4	3/4	3/4	3/4	5,059.93	3/4	4,735.15	3/4	4,395.09	3/4	4,041.69	3/4	3,679.10	3/4	3,316.18	3/4	2,953.26	3/4	2,590.32
7	7	7	7	7	5,053.35	7	4,728.22	7	4,387.86	7	4,034.19	7	3,671.54	7	3,308.62	7	2,945.70	7	2,582.76
1/4	1/4	1/4	1/4	1/4	5,046.77	1/4	4,721.29	1/4	4,380.63	1/4	4,026.68	1/4	3,663.98	1/4	3,301.06	1/4	2,938.14	1/4	2,575.20
1/2	1/2	1/2	1/2	1/2	5,040.19	1/2	4,714.37	1/2	4,373.40	1/2	4,019.18	1/2	3,656.42	1/2	3,293.50	1/2	2,930.57	1/2	2,567.63
3/4	3/4	3/4	3/4	3/4	5,033.59	3/4	4,707.39	3/4	4,366.15	3/4	4,011.65	3/4	3,648.86	3/4	3,285.94	3/4	2,923.01	3/4	2,560.07
8	8	8	8	8	5,026.99	8	4,700.41	8	4,358.89	8	4,004.12	8	3,641.30	8	3,278.38	8	2,915.45	8	2,552.51
1/4	1/4	1/4	1/4	1/4	5,020.38	1/4	4,693.44	1/4	4,351.64	1/4	3,996.59	1/4	3,633.74	1/4	3,270.82	1/4	2,907.89	1/4	2,544.94
1/2	1/2	1/2	1/2	1/2	5,013.78	1/2	4,686.46	1/2	4,344.39	1/2	3,989.06	1/2	3,626.18	1/2	3,263.25	1/2	2,900.33	1/2	2,537.38
3/4	3/4	3/4	3/4	3/4	5,007.15	3/4	4,679.46	3/4	4,337.11	3/4	3,981.51	3/4	3,618.62	3/4	3,255.69	3/4	2,892.77	3/4	2,529.81
9	9	9	9	9	5,000.51	9	4,672.46	9	4,329.83	9	3,973.96	9	3,611.06	9	3,248.13	9	2,885.21	9	2,522.25
1/4	1/4	1/4	1/4	1/4	4,993.88	1/4	4,665.46	1/4	4,322.56	1/4	3,966.41	1/4	3,603.49	1/4	3,240.57	1/4	2,877.65	1/4	2,514.69
1/2	1/2	1/2	1/2	1/2	4,987.25	1/2	4,658.46	1/2	4,315.28	1/2	3,958.86	1/2	3,595.93	1/2	3,233.01	1/2	2,870.09	1/2	2,507.12
3/4	3/4	3/4	3/4	3/4	4,980.53	3/4	4,651.44	3/4	4,307.98	3/4	3,951.30	3/4	3,588.37	3/4	3,225.45	3/4	2,862.53	3/4	2,499.56
10	10	10	10	10	4,973.81	10	4,644.41	10	4,300.68	10	3,943.74	10	3,580.81	10	3,217.89	10	2,854.97	10	2,492.00
1/4	1/4	1/4	1/4	1/4	4,967.09	1/4	4,637.39	1/4	4,293.39	1/4	3,936.17	1/4	3,573.25	1/4	3,210.33	1/4	2,847.40	1/4	2,484.43
1/2	1/2	1/2	1/2	1/2	4,960.37	1/2	4,630.37	1/2	4,286.09	1/2	3,928.61	1/2	3,565.69	1/2	3,202.77	1/2	2,839.84	1/2	2,476.87
3/4	3/4	3/4	3/4	3/4	4,953.62	3/4	4,623.32	3/4	4,278.76	3/4	3,921.05	3/4	3,558.13	3/4	3,195.21	3/4	2,832.28	3/4	2,469.31
11	11	11	11	11	4,946.88	11	4,616.28	11	4,271.44	11	3,913.49	11	3,550.57	11	3,187.65	11	2,824.72	11	2,461.74
1/4	1/4	1/4	1/4	1/4	4,940.14	1/4	4,609.23	1/4	4,264.12	1/4	3,905.93	1/4	3,543.01	1/4	3,180.08	1/4	2,817.16	1/4	2,454.18
1/2	1/2	1/2	1/2	1/2	4,933.39	1/2	4,602.18	1/2	4,256.80	1/2	3,898.37	1/2	3,535.45	1/2	3,172.52	1/2	2,809.60	1/2	2,446.61
3/4	3/4	3/4	3/4	3/4	4,926.63	3/4	4,595.11	3/4	4,249.45	3/4	3,890.81	3/4	3,527.89	3/4	3,164.96	3/4	2,802.04	3/4	2,439.05

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 TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

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



BARGE "KOLACHE"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,068.43	0	1,705.37	0	1,342.31	0	979.68	0	616.71	0	253.67	0		0		0		0	
1/4	2,060.87	1/4	1,697.81	1/4	1,334.75	1/4	972.13	1/4	609.14	1/4	246.10	1/4		1/4		1/4		1/4	
1/2	2,053.30	1/2	1,690.24	1/2	1,327.19	1/2	964.58	1/2	601.58	1/2	238.54	1/2		1/2		1/2		1/2	
3/4	2,045.74	3/4	1,682.68	3/4	1,319.62	3/4	957.03	3/4	594.02	3/4	230.97	3/4		3/4		3/4		3/4	
1	2,038.17	1	1,675.12	1	1,312.06	1	949.48	1	586.45	1	223.41	1		1		1		1	
1/4	2,030.61	1/4	1,667.55	1/4	1,304.50	1/4	941.92	1/4	578.89	1/4	215.85	1/4		1/4		1/4		1/4	
1/2	2,023.05	1/2	1,659.99	1/2	1,296.93	1/2	934.37	1/2	571.33	1/2	208.28	1/2		1/2		1/2		1/2	
3/4	2,015.48	3/4	1,652.43	3/4	1,289.37	3/4	926.81	3/4	563.76	3/4	200.72	3/4		3/4		3/4		3/4	
2	2,007.92	2	1,644.86	2	1,281.80	2	919.24	2	556.20	2	193.16	2		2		2		2	
1/4	2,000.36	1/4	1,637.30	1/4	1,274.24	1/4	911.68	1/4	548.64	1/4	185.59	1/4		1/4		1/4		1/4	
1/2	1,992.79	1/2	1,629.73	1/2	1,266.68	1/2	904.12	1/2	541.07	1/2	178.03	1/2		1/2		1/2		1/2	
3/4	1,985.23	3/4	1,622.17	3/4	1,259.11	3/4	896.55	3/4	533.51	3/4	170.47	3/4		3/4		3/4		3/4	
3	1,977.66	3	1,614.61	3	1,251.55	3	888.99	3	525.95	3	162.90	3		3		3		3	
1/4	1,970.10	1/4	1,607.04	1/4	1,243.99	1/4	881.43	1/4	518.38	1/4	155.34	1/4		1/4		1/4		1/4	
1/2	1,962.54	1/2	1,599.48	1/2	1,236.43	1/2	873.86	1/2	510.82	1/2	147.78	1/2		1/2		1/2		1/2	
3/4	1,954.97	3/4	1,591.92	3/4	1,228.88	3/4	866.30	3/4	503.26	3/4	140.21	3/4		3/4		3/4		3/4	
4	1,947.41	4	1,584.35	4	1,221.33	4	858.74	4	495.69	4	132.65	4		4		4		4	
1/4	1,939.85	1/4	1,576.79	1/4	1,213.78	1/4	851.17	1/4	488.13	1/4	125.09	1/4		1/4		1/4		1/4	
1/2	1,932.28	1/2	1,569.22	1/2	1,206.22	1/2	843.61	1/2	480.57	1/2	117.52	1/2		1/2		1/2		1/2	
3/4	1,924.72	3/4	1,561.66	3/4	1,198.67	3/4	836.05	3/4	473.00	3/4	110.04	3/4		3/4		3/4		3/4	
5	1,917.15	5	1,554.10	5	1,191.12	5	828.48	5	465.44	5	102.55	5		5		5		5	
1/4	1,909.59	1/4	1,546.53	1/4	1,183.57	1/4	820.92	1/4	457.88	1/4	95.07	1/4		1/4		1/4		1/4	
1/2	1,902.03	1/2	1,538.97	1/2	1,176.02	1/2	813.36	1/2	450.31	1/2	87.59	1/2		1/2		1/2		1/2	
3/4	1,894.46	3/4	1,531.41	3/4	1,168.47	3/4	805.79	3/4	442.75	3/4	80.81	3/4		3/4		3/4		3/4	
6	1,886.90	6	1,523.84	6	1,160.92	6	798.23	6	435.19	6	74.03	6		6		6		6	
1/4	1,879.34	1/4	1,516.28	1/4	1,153.36	1/4	790.67	1/4	427.62	1/4	67.26	1/4		1/4		1/4		1/4	
1/2	1,871.77	1/2	1,508.72	1/2	1,145.81	1/2	783.10	1/2	420.06	1/2	60.48	1/2		1/2		1/2		1/2	
3/4	1,864.21	3/4	1,501.15	3/4	1,138.26	3/4	775.54	3/4	412.50	3/4	54.97	3/4		3/4		3/4		3/4	
7	1,856.65	7	1,493.59	7	1,130.71	7	767.98	7	404.93	7	49.46	7		7		7		7	
1/4	1,849.08	1/4	1,486.02	1/4	1,123.16	1/4	760.41	1/4	397.37	1/4	43.94	1/4		1/4		1/4		1/4	
1/2	1,841.52	1/2	1,478.46	1/2	1,115.61	1/2	752.85	1/2	389.81	1/2	38.43	1/2		1/2		1/2		1/2	
3/4	1,833.95	3/4	1,470.90	3/4	1,108.06	3/4	745.29	3/4	382.24	3/4	34.17	3/4		3/4		3/4		3/4	
8	1,826.39	8	1,463.33	8	1,100.50	8	737.72	8	374.68	8	29.92	8		8		8		8	
1/4	1,818.83	1/4	1,455.77	1/4	1,092.95	1/4	730.16	1/4	367.12	1/4	25.67	1/4		1/4		1/4		1/4	
1/2	1,811.26	1/2	1,448.21	1/2	1,085.40	1/2	722.60	1/2	359.55	1/2	21.41	1/2		1/2		1/2		1/2	
3/4	1,803.70	3/4	1,440.64	3/4	1,077.85	3/4	715.03	3/4	351.99	3/4		3/4		3/4		3/4		3/4	
9	1,796.14	9	1,433.08	9	1,070.30	9	707.47	9	344.43	9		9		9		9		9	
1/4	1,788.57	1/4	1,425.51	1/4	1,062.75	1/4	699.91	1/4	336.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,781.01	1/2	1,417.95	1/2	1,055.20	1/2	692.34	1/2	329.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,773.44	3/4	1,410.39	3/4	1,047.64	3/4	684.78	3/4	321.74	3/4		3/4		3/4		3/4		3/4	
10	1,765.88	10	1,402.82	10	1,040.09	10	677.22	10	314.17	10		10		10		10		10	
1/4	1,758.32	1/4	1,395.26	1/4	1,032.54	1/4	669.65	1/4	306.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,750.75	1/2	1,387.70	1/2	1,024.99	1/2	662.09	1/2	299.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.19	3/4	1,380.13	3/4	1,017.44	3/4	654.53	3/4	291.48	3/4		3/4		3/4		3/4		3/4	
11	1,735.63	11	1,372.57	11	1,009.89	11	646.96	11	283.92	11		11		11		11		11	
1/4	1,728.06	1/4	1,365.00	1/4	1,002.34	1/4	639.40	1/4	276.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,720.50	1/2	1,357.44	1/2	994.78	1/2	631.84	1/2	268.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,712.94	3/4	1,349.88	3/4	987.23	3/4	624.27	3/4	261.23	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/04/2014 CL
CALCULATED: 02/05/2014 CL
PRINTED: 02/14/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2014

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



BARGE "KOLACHE"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,918.02	0	4,586.17	0	4,240.22	0	3,881.35	0	3,518.43	0	3,155.51	0	2,792.58	0	2,429.58
1/4	1/4	1/4	1/4	1/4	4,911.25	1/4	4,579.10	1/4	4,232.87	1/4	3,873.79	1/4	3,510.87	1/4	3,147.95	1/4	2,785.02	1/4	2,422.01
1/2	1/2	1/2	1/2	1/2	5,217.75	1/2	4,904.49	1/2	4,572.03	1/2	4,225.52	1/2	3,866.23	1/2	3,503.31	1/2	3,140.38	1/2	2,777.46
3/4	3/4	3/4	3/4	3/4	5,212.63	3/4	4,897.70	3/4	4,564.94	3/4	4,218.16	3/4	3,858.67	3/4	3,495.75	3/4	3,132.82	3/4	2,769.90
1	1	1	1	1	5,207.50	1	4,890.91	1	4,557.84	1	4,210.79	1	3,851.11	1	3,488.19	1	3,125.26	1	2,762.34
1/4	1/4	1/4	1/4	1/4	5,202.38	1/4	4,884.13	1/4	4,550.75	1/4	4,203.42	1/4	3,843.55	1/4	3,480.62	1/4	3,117.70	1/4	2,754.78
1/2	1/2	1/2	1/2	1/2	5,197.26	1/2	4,877.34	1/2	4,543.66	1/2	4,196.05	1/2	3,835.99	1/2	3,473.06	1/2	3,110.14	1/2	2,747.22
3/4	3/4	3/4	3/4	3/4	5,190.92	3/4	4,870.53	3/4	4,536.54	3/4	4,188.66	3/4	3,828.43	3/4	3,465.50	3/4	3,102.58	3/4	2,739.66
2	2	2	2	2	5,184.58	2	4,863.72	2	4,529.43	2	4,181.27	2	3,820.87	2	3,457.94	2	3,095.02	2	2,732.10
1/4	1/4	1/4	1/4	1/4	5,178.24	1/4	4,856.91	1/4	4,522.31	1/4	4,173.88	1/4	3,813.30	1/4	3,450.38	1/4	3,087.46	1/4	2,724.53
1/2	1/2	1/2	1/2	1/2	5,171.90	1/2	4,850.10	1/2	4,515.20	1/2	4,166.49	1/2	3,805.74	1/2	3,442.82	1/2	3,079.90	1/2	2,716.97
3/4	3/4	3/4	3/4	3/4	5,164.69	3/4	4,843.26	3/4	4,508.06	3/4	4,159.07	3/4	3,798.18	3/4	3,435.26	3/4	3,072.34	3/4	2,709.41
3	3	3	3	3	5,157.49	3	4,836.43	3	4,500.92	3	4,151.66	3	3,790.62	3	3,427.70	3	3,064.78	3	2,701.85
1/4	1/4	1/4	1/4	1/4	5,150.29	1/4	4,829.60	1/4	4,493.78	1/4	4,144.24	1/4	3,783.06	1/4	3,420.14	1/4	3,057.21	1/4	2,694.29
1/2	1/2	1/2	1/2	1/2	5,143.08	1/2	4,822.76	1/2	4,486.64	1/2	4,136.83	1/2	3,775.50	1/2	3,412.58	1/2	3,049.65	1/2	2,686.73
3/4	3/4	3/4	3/4	3/4	5,136.57	3/4	4,815.91	3/4	4,479.48	3/4	4,129.39	3/4	3,767.94	3/4	3,405.02	3/4	3,042.09	3/4	2,679.17
4	4	4	4	4	5,130.06	4	4,809.05	4	4,472.32	4	4,121.95	4	3,760.38	4	3,397.45	4	3,034.53	4	2,671.61
1/4	1/4	1/4	1/4	1/4	5,123.55	1/4	4,802.20	1/4	4,465.16	1/4	4,114.52	1/4	3,752.82	1/4	3,389.89	1/4	3,026.97	1/4	2,664.05
1/2	1/2	1/2	1/2	1/2	5,117.04	1/2	4,795.34	1/2	4,458.00	1/2	4,107.08	1/2	3,745.26	1/2	3,382.33	1/2	3,019.41	1/2	2,656.49
3/4	3/4	3/4	3/4	3/4	5,110.50	3/4	4,788.46	3/4	4,450.82	3/4	4,099.62	3/4	3,737.70	3/4	3,374.77	3/4	3,011.85	3/4	2,648.92
5	5	5	5	5	5,103.97	5	4,781.58	5	4,443.63	5	4,092.16	5	3,730.13	5	3,367.21	5	3,004.29	5	2,641.36
1/4	1/4	1/4	1/4	1/4	5,097.44	1/4	4,774.70	1/4	4,436.45	1/4	4,084.70	1/4	3,722.57	1/4	3,359.65	1/4	2,996.73	1/4	2,633.79
1/2	1/2	1/2	1/2	1/2	5,090.90	1/2	4,767.82	1/2	4,429.26	1/2	4,077.24	1/2	3,715.01	1/2	3,352.09	1/2	2,989.17	1/2	2,626.23
3/4	3/4	3/4	3/4	3/4	5,084.35	3/4	4,760.92	3/4	4,422.06	3/4	4,069.76	3/4	3,707.45	3/4	3,344.53	3/4	2,981.61	3/4	2,618.67
6	6	6	6	6	5,077.79	6	4,754.02	6	4,414.85	6	4,062.27	6	3,699.89	6	3,336.97	6	2,974.04	6	2,611.10
1/4	1/4	1/4	1/4	1/4	5,071.23	1/4	4,747.12	1/4	4,407.64	1/4	4,054.79	1/4	3,692.33	1/4	3,329.41	1/4	2,966.48	1/4	2,603.54
1/2	1/2	1/2	1/2	1/2	5,064.67	1/2	4,740.21	1/2	4,400.43	1/2	4,047.31	1/2	3,684.77	1/2	3,321.85	1/2	2,958.92	1/2	2,595.97
3/4	3/4	3/4	3/4	3/4	5,058.09	3/4	4,733.28	3/4	4,393.20	3/4	4,039.80	3/4	3,677.21	3/4	3,314.28	3/4	2,951.36	3/4	2,588.41
7	7	7	7	7	5,051.51	7	4,726.36	7	4,385.97	7	4,032.29	7	3,669.65	7	3,306.72	7	2,943.80	7	2,580.85
1/4	1/4	1/4	1/4	1/4	5,044.93	1/4	4,719.43	1/4	4,378.74	1/4	4,024.79	1/4	3,662.09	1/4	3,299.16	1/4	2,936.24	1/4	2,573.28
1/2	1/2	1/2	1/2	1/2	5,038.35	1/2	4,712.50	1/2	4,371.51	1/2	4,017.28	1/2	3,654.53	1/2	3,291.60	1/2	2,928.68	1/2	2,565.72
3/4	3/4	3/4	3/4	3/4	5,031.75	3/4	4,705.52	3/4	4,364.26	3/4	4,009.75	3/4	3,646.96	3/4	3,284.04	3/4	2,921.12	3/4	2,558.16
8	8	8	8	8	5,025.15	8	4,698.54	8	4,357.00	8	4,002.22	8	3,639.40	8	3,276.48	8	2,913.56	8	2,550.59
1/4	1/4	1/4	1/4	1/4	5,018.54	1/4	4,691.57	1/4	4,349.75	1/4	3,994.69	1/4	3,631.84	1/4	3,268.92	1/4	2,906.00	1/4	2,543.03
1/2	1/2	1/2	1/2	1/2	5,011.94	1/2	4,684.59	1/2	4,342.50	1/2	3,987.16	1/2	3,624.28	1/2	3,261.36	1/2	2,898.44	1/2	2,535.47
3/4	3/4	3/4	3/4	3/4	5,005.31	3/4	4,677.59	3/4	4,335.22	3/4	3,979.61	3/4	3,616.72	3/4	3,253.80	3/4	2,890.87	3/4	2,527.90
9	9	9	9	9	4,998.67	9	4,670.59	9	4,327.95	9	3,972.06	9	3,609.16	9	3,246.24	9	2,883.31	9	2,520.34
1/4	1/4	1/4	1/4	1/4	4,992.04	1/4	4,663.59	1/4	4,320.67	1/4	3,964.51	1/4	3,601.60	1/4	3,238.68	1/4	2,875.75	1/4	2,512.77
1/2	1/2	1/2	1/2	1/2	4,985.40	1/2	4,656.59	1/2	4,313.39	1/2	3,956.96	1/2	3,594.04	1/2	3,231.11	1/2	2,868.19	1/2	2,505.21
3/4	3/4	3/4	3/4	3/4	4,978.68	3/4	4,649.56	3/4	4,306.09	3/4	3,949.40	3/4	3,586.48	3/4	3,223.55	3/4	2,860.63	3/4	2,497.65
10	10	10	10	10	4,971.96	10	4,642.54	10	4,298.79	10	3,941.84	10	3,578.92	10	3,215.99	10	2,853.07	10	2,490.08
1/4	1/4	1/4	1/4	1/4	4,965.24	1/4	4,635.52	1/4	4,291.50	1/4	3,934.28	1/4	3,571.36	1/4	3,208.43	1/4	2,845.51	1/4	2,482.52
1/2	1/2	1/2	1/2	1/2	4,958.52	1/2	4,628.49	1/2	4,284.20	1/2	3,926.72	1/2	3,563.79	1/2	3,200.87	1/2	2,837.95	1/2	2,474.96
3/4	3/4	3/4	3/4	3/4	4,951.78	3/4	4,621.45	3/4	4,276.87	3/4	3,919.16	3/4	3,556.23	3/4	3,193.31	3/4	2,830.39	3/4	2,467.39
11	11	11	11	11	4,945.03	11	4,614.40	11	4,269.55	11	3,911.60	11	3,548.67	11	3,185.75	11	2,822.83	11	2,459.83
1/4	1/4	1/4	1/4	1/4	4,938.29	1/4	4,607.35	1/4	4,262.23	1/4	3,904.04	1/4	3,541.11	1/4	3,178.19	1/4	2,815.27	1/4	2,452.27
1/2	1/2	1/2	1/2	1/2	4,931.55	1/2	4,600.31	1/2	4,254.91	1/2	3,896.47	1/2	3,533.55	1/2	3,170.63	1/2	2,807.70	1/2	2,444.70
3/4	3/4	3/4	3/4	3/4	4,924.78	3/4	4,593.24	3/4	4,247.56	3/4	3,888.91	3/4	3,525.99	3/4	3,163.07	3/4	2,800.14	3/4	2,437.14

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KOLACHE"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,066.52	0	1,703.47	0	1,340.42	0	979.31	0	616.70	0	253.66	0		0		0		0	
1/4	2,058.96	1/4	1,695.91	1/4	1,332.85	1/4	971.79	1/4	609.14	1/4	246.10	1/4		1/4		1/4		1/4	
1/2	2,051.40	1/2	1,688.34	1/2	1,325.29	1/2	964.28	1/2	601.57	1/2	238.54	1/2		1/2		1/2		1/2	
3/4	2,043.83	3/4	1,680.78	3/4	1,317.73	3/4	956.77	3/4	594.01	3/4	230.97	3/4		3/4		3/4		3/4	
1	2,036.27	1	1,673.22	1	1,310.16	1	949.26	1	586.45	1	223.41	1		1		1		1	
1/4	2,028.70	1/4	1,665.65	1/4	1,302.60	1/4	941.74	1/4	578.88	1/4	215.85	1/4		1/4		1/4		1/4	
1/2	2,021.14	1/2	1,658.09	1/2	1,295.04	1/2	934.23	1/2	571.32	1/2	208.28	1/2		1/2		1/2		1/2	
3/4	2,013.58	3/4	1,650.52	3/4	1,287.48	3/4	926.70	3/4	563.76	3/4	200.72	3/4		3/4		3/4		3/4	
2	2,006.01	2	1,642.96	2	1,279.92	2	919.17	2	556.19	2	193.16	2		2		2		2	
1/4	1,998.45	1/4	1,635.40	1/4	1,272.36	1/4	911.64	1/4	548.63	1/4	185.59	1/4		1/4		1/4		1/4	
1/2	1,990.89	1/2	1,627.83	1/2	1,264.80	1/2	904.11	1/2	541.07	1/2	178.03	1/2		1/2		1/2		1/2	
3/4	1,983.32	3/4	1,620.27	3/4	1,257.28	3/4	896.54	3/4	533.50	3/4	170.47	3/4		3/4		3/4		3/4	
3	1,975.76	3	1,612.71	3	1,249.76	3	888.98	3	525.94	3	162.90	3		3		3		3	
1/4	1,968.20	1/4	1,605.14	1/4	1,242.23	1/4	881.42	1/4	518.38	1/4	155.34	1/4		1/4		1/4		1/4	
1/2	1,960.63	1/2	1,597.58	1/2	1,234.71	1/2	873.85	1/2	510.81	1/2	147.78	1/2		1/2		1/2		1/2	
3/4	1,953.07	3/4	1,590.02	3/4	1,227.20	3/4	866.29	3/4	503.25	3/4	140.21	3/4		3/4		3/4		3/4	
4	1,945.50	4	1,582.45	4	1,219.69	4	858.73	4	495.69	4	132.65	4		4		4		4	
1/4	1,937.94	1/4	1,574.89	1/4	1,212.18	1/4	851.16	1/4	488.13	1/4	125.09	1/4		1/4		1/4		1/4	
1/2	1,930.38	1/2	1,567.32	1/2	1,204.66	1/2	843.60	1/2	480.56	1/2	117.52	1/2		1/2		1/2		1/2	
3/4	1,922.81	3/4	1,559.76	3/4	1,197.15	3/4	836.04	3/4	473.00	3/4	110.04	3/4		3/4		3/4		3/4	
5	1,915.25	5	1,552.20	5	1,189.64	5	828.47	5	465.44	5	102.55	5		5		5		5	
1/4	1,907.69	1/4	1,544.63	1/4	1,182.13	1/4	820.91	1/4	457.87	1/4	95.07	1/4		1/4		1/4		1/4	
1/2	1,900.12	1/2	1,537.07	1/2	1,174.62	1/2	813.35	1/2	450.31	1/2	87.58	1/2		1/2		1/2		1/2	
3/4	1,892.56	3/4	1,529.51	3/4	1,167.10	3/4	805.78	3/4	442.75	3/4	80.81	3/4		3/4		3/4		3/4	
6	1,885.00	6	1,521.94	6	1,159.59	6	798.22	6	435.18	6	74.03	6		6		6		6	
1/4	1,877.43	1/4	1,514.38	1/4	1,152.08	1/4	790.66	1/4	427.62	1/4	67.26	1/4		1/4		1/4		1/4	
1/2	1,869.87	1/2	1,506.82	1/2	1,144.57	1/2	783.09	1/2	420.06	1/2	60.48	1/2		1/2		1/2		1/2	
3/4	1,862.31	3/4	1,499.25	3/4	1,137.06	3/4	775.53	3/4	412.49	3/4	54.97	3/4		3/4		3/4		3/4	
7	1,854.74	7	1,491.69	7	1,129.54	7	767.97	7	404.93	7	49.46	7		7		7		7	
1/4	1,847.18	1/4	1,484.13	1/4	1,122.03	1/4	760.40	1/4	397.37	1/4	43.94	1/4		1/4		1/4		1/4	
1/2	1,839.61	1/2	1,476.56	1/2	1,114.52	1/2	752.84	1/2	389.80	1/2	38.43	1/2		1/2		1/2		1/2	
3/4	1,832.05	3/4	1,469.00	3/4	1,107.01	3/4	745.28	3/4	382.24	3/4	34.17	3/4		3/4		3/4		3/4	
8	1,824.49	8	1,461.43	8	1,099.50	8	737.71	8	374.68	8	29.92	8		8		8		8	
1/4	1,816.92	1/4	1,453.87	1/4	1,091.98	1/4	730.15	1/4	367.11	1/4	25.67	1/4		1/4		1/4		1/4	
1/2	1,809.36	1/2	1,446.31	1/2	1,084.47	1/2	722.59	1/2	359.55	1/2	21.41	1/2		1/2		1/2		1/2	
3/4	1,801.80	3/4	1,438.74	3/4	1,076.96	3/4	715.02	3/4	351.99	3/4		3/4		3/4		3/4		3/4	
9	1,794.23	9	1,431.18	9	1,069.45	9	707.46	9	344.42	9		9		9		9		9	
1/4	1,786.67	1/4	1,423.62	1/4	1,061.94	1/4	699.90	1/4	336.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,779.11	1/2	1,416.05	1/2	1,054.43	1/2	692.33	1/2	329.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,771.54	3/4	1,408.49	3/4	1,046.91	3/4	684.77	3/4	321.73	3/4		3/4		3/4		3/4		3/4	
10	1,763.98	10	1,400.93	10	1,039.40	10	677.21	10	314.17	10		10		10		10		10	
1/4	1,756.41	1/4	1,393.36	1/4	1,031.89	1/4	669.64	1/4	306.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,748.85	1/2	1,385.80	1/2	1,024.38	1/2	662.08	1/2	299.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,741.29	3/4	1,378.23	3/4	1,016.87	3/4	654.52	3/4	291.48	3/4		3/4		3/4		3/4		3/4	
11	1,733.72	11	1,370.67	11	1,009.35	11	646.95	11	283.92	11		11		11		11		11	
1/4	1,726.16	1/4	1,363.11	1/4	1,001.84	1/4	639.39	1/4	276.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,718.60	1/2	1,355.54	1/2	994.33	1/2	631.83	1/2	268.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,711.03	3/4	1,347.98	3/4	986.82	3/4	624.26	3/4	261.23	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/04/2014 CL
CALCULATED: 02/05/2014 CL
PRINTED: 02/14/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2014

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



BARGE "KOLACHE"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	4,891.81	0	4,561.18	0	4,216.49	0	3,858.97	0	3,497.62	0	3,136.26	0	2,774.90	0	2,413.47		
1/4		1/4	5,196.89	1/4	4,885.08	1/4	4,554.14	1/4	4,209.18	1/4	3,851.45	1/4	3,490.09	1/4	3,128.73	1/4	2,767.37	1/4	2,405.94
1/2		1/2	5,191.79	1/2	4,878.32	1/2	4,547.08	1/2	4,201.84	1/2	3,843.92	1/2	3,482.56	1/2	3,121.20	1/2	2,759.84	1/2	2,398.41
3/4		3/4	5,186.69	3/4	4,871.56	3/4	4,540.02	3/4	4,194.50	3/4	3,836.39	3/4	3,475.03	3/4	3,113.67	3/4	2,752.31	3/4	2,390.88
1	1	1	5,181.59	1	4,864.81	1	4,532.96	1	4,187.17	1	3,828.86	1	3,467.50	1	3,106.14	1	2,744.79	1	2,383.35
1/4		1/4	5,176.49	1/4	4,858.05	1/4	4,525.90	1/4	4,179.83	1/4	3,821.33	1/4	3,459.97	1/4	3,098.62	1/4	2,737.26	1/4	2,375.82
1/2		1/2	5,170.17	1/2	4,851.27	1/2	4,518.81	1/2	4,172.47	1/2	3,813.80	1/2	3,452.45	1/2	3,091.09	1/2	2,729.73	1/2	2,368.29
3/4		3/4	5,163.86	3/4	4,844.50	3/4	4,511.73	3/4	4,165.11	3/4	3,806.28	3/4	3,444.92	3/4	3,083.56	3/4	2,722.20	3/4	2,360.75
2	2	2	5,157.55	2	4,837.72	2	4,504.65	2	4,157.76	2	3,798.75	2	3,437.39	2	3,076.03	2	2,714.67	2	2,353.22
1/4		1/4	5,151.24	1/4	4,830.94	1/4	4,497.56	1/4	4,150.40	1/4	3,791.22	1/4	3,429.86	1/4	3,068.50	1/4	2,707.14	1/4	2,345.69
1/2		1/2	5,144.07	1/2	4,824.14	1/2	4,490.46	1/2	4,143.02	1/2	3,783.69	1/2	3,422.33	1/2	3,060.97	1/2	2,699.62	1/2	2,338.16
3/4		3/4	5,136.89	3/4	4,817.33	3/4	4,483.35	3/4	4,135.63	3/4	3,776.16	3/4	3,414.80	3/4	3,053.45	3/4	2,692.09	3/4	2,330.63
3	3	3	5,129.72	3	4,810.53	3	4,476.24	3	4,128.25	3	3,768.63	3	3,407.28	3	3,045.92	3	2,684.56	3	2,323.10
1/4		1/4	5,122.54	1/4	4,803.73	1/4	4,469.14	1/4	4,120.87	1/4	3,761.11	1/4	3,399.75	1/4	3,038.39	1/4	2,677.03	1/4	2,315.57
1/2		1/2	5,116.06	1/2	4,796.91	1/2	4,462.01	1/2	4,113.46	1/2	3,753.58	1/2	3,392.22	1/2	3,030.86	1/2	2,669.50	1/2	2,308.04
3/4		3/4	5,109.58	3/4	4,790.08	3/4	4,454.88	3/4	4,106.06	3/4	3,746.05	3/4	3,384.69	3/4	3,023.33	3/4	2,661.97	3/4	2,300.51
4	4	4	5,103.10	4	4,783.26	4	4,447.75	4	4,098.65	4	3,738.52	4	3,377.16	4	3,015.80	4	2,654.45	4	2,292.97
1/4		1/4	5,096.63	1/4	4,776.43	1/4	4,440.62	1/4	4,091.25	1/4	3,730.99	1/4	3,369.63	1/4	3,008.28	1/4	2,646.92	1/4	2,285.44
1/2		1/2	5,090.12	1/2	4,769.58	1/2	4,433.47	1/2	4,083.82	1/2	3,723.46	1/2	3,362.11	1/2	3,000.75	1/2	2,639.39	1/2	2,277.91
3/4		3/4	5,083.62	3/4	4,762.74	3/4	4,426.32	3/4	4,076.39	3/4	3,715.94	3/4	3,354.58	3/4	2,993.22	3/4	2,631.86	3/4	2,270.38
5	5	5	5,077.12	5	4,755.89	5	4,419.16	5	4,068.97	5	3,708.41	5	3,347.05	5	2,985.69	5	2,624.34	5	2,262.85
1/4		1/4	5,070.61	1/4	4,749.04	1/4	4,412.01	1/4	4,061.54	1/4	3,700.88	1/4	3,339.52	1/4	2,978.16	1/4	2,616.81	1/4	2,255.32
1/2		1/2	5,064.09	1/2	4,742.17	1/2	4,404.84	1/2	4,054.09	1/2	3,693.35	1/2	3,331.99	1/2	2,970.63	1/2	2,609.28	1/2	2,247.79
3/4		3/4	5,057.56	3/4	4,735.30	3/4	4,397.66	3/4	4,046.64	3/4	3,685.82	3/4	3,324.46	3/4	2,963.11	3/4	2,601.75	3/4	2,240.26
6	6	6	5,051.04	6	4,728.43	6	4,390.49	6	4,039.19	6	3,678.29	6	3,316.94	6	2,955.58	6	2,594.22	6	2,232.73
1/4		1/4	5,044.51	1/4	4,721.56	1/4	4,383.31	1/4	4,031.74	1/4	3,670.77	1/4	3,309.41	1/4	2,948.05	1/4	2,586.69	1/4	2,225.19
1/2		1/2	5,037.96	1/2	4,714.66	1/2	4,376.11	1/2	4,024.26	1/2	3,663.24	1/2	3,301.88	1/2	2,940.52	1/2	2,579.16	1/2	2,217.66
3/4		3/4	5,031.41	3/4	4,707.76	3/4	4,368.92	3/4	4,016.79	3/4	3,655.71	3/4	3,294.35	3/4	2,932.99	3/4	2,571.63	3/4	2,210.13
7	7	7	5,024.86	7	4,700.87	7	4,361.72	7	4,009.31	7	3,648.18	7	3,286.82	7	2,925.46	7	2,564.09	7	2,202.60
1/4		1/4	5,018.31	1/4	4,693.97	1/4	4,354.52	1/4	4,001.84	1/4	3,640.65	1/4	3,279.29	1/4	2,917.94	1/4	2,556.56	1/4	2,195.07
1/2		1/2	5,011.74	1/2	4,687.02	1/2	4,347.30	1/2	3,994.34	1/2	3,633.12	1/2	3,271.77	1/2	2,910.41	1/2	2,549.03	1/2	2,187.54
3/4		3/4	5,005.17	3/4	4,680.08	3/4	4,340.08	3/4	3,986.85	3/4	3,625.60	3/4	3,264.24	3/4	2,902.88	3/4	2,541.50	3/4	2,180.01
8	8	8	4,998.60	8	4,673.13	8	4,332.86	8	3,979.35	8	3,618.07	8	3,256.71	8	2,895.35	8	2,533.97	8	2,172.48
1/4		1/4	4,992.03	1/4	4,666.19	1/4	4,325.63	1/4	3,971.85	1/4	3,610.54	1/4	3,249.18	1/4	2,887.82	1/4	2,526.44	1/4	2,164.95
1/2		1/2	4,985.42	1/2	4,659.22	1/2	4,318.39	1/2	3,964.34	1/2	3,603.01	1/2	3,241.65	1/2	2,880.29	1/2	2,518.91	1/2	2,157.41
3/4		3/4	4,978.82	3/4	4,652.25	3/4	4,311.15	3/4	3,956.82	3/4	3,595.48	3/4	3,234.12	3/4	2,872.77	3/4	2,511.38	3/4	2,149.88
9	9	9	4,972.22	9	4,645.28	9	4,303.90	9	3,949.30	9	3,587.95	9	3,226.60	9	2,865.24	9	2,503.85	9	2,142.35
1/4		1/4	4,965.61	1/4	4,638.31	1/4	4,296.66	1/4	3,941.78	1/4	3,580.43	1/4	3,219.07	1/4	2,857.71	1/4	2,496.31	1/4	2,134.82
1/2		1/2	4,958.92	1/2	4,631.32	1/2	4,289.39	1/2	3,934.26	1/2	3,572.90	1/2	3,211.54	1/2	2,850.18	1/2	2,488.78	1/2	2,127.29
3/4		3/4	4,952.23	3/4	4,624.33	3/4	4,282.12	3/4	3,926.73	3/4	3,565.37	3/4	3,204.01	3/4	2,842.65	3/4	2,481.25	3/4	2,119.76
10	10	10	4,945.54	10	4,617.34	10	4,274.86	10	3,919.20	10	3,557.84	10	3,196.48	10	2,835.12	10	2,473.72	10	2,112.23
1/4		1/4	4,938.85	1/4	4,610.35	1/4	4,267.59	1/4	3,911.67	1/4	3,550.31	1/4	3,188.96	1/4	2,827.60	1/4	2,466.19	1/4	2,104.70
1/2		1/2	4,932.14	1/2	4,603.33	1/2	4,260.30	1/2	3,904.14	1/2	3,542.79	1/2	3,181.43	1/2	2,820.07	1/2	2,458.66	1/2	2,097.17
3/4		3/4	4,925.43	3/4	4,596.32	3/4	4,253.01	3/4	3,896.62	3/4	3,535.26	3/4	3,173.90	3/4	2,812.54	3/4	2,451.13	3/4	2,089.63
11	11	11	4,918.72	11	4,589.30	11	4,245.72	11	3,889.09	11	3,527.73	11	3,166.37	11	2,805.01	11	2,443.60	11	2,082.10
1/4		1/4	4,912.01	1/4	4,582.29	1/4	4,238.43	1/4	3,881.56	1/4	3,520.20	1/4	3,158.84	1/4	2,797.48	1/4	2,436.07	1/4	2,074.57
1/2		1/2	4,905.27	1/2	4,575.25	1/2	4,231.12	1/2	3,874.03	1/2	3,512.67	1/2	3,151.31	1/2	2,789.96	1/2	2,428.53	1/2	2,067.04
3/4		3/4	4,898.54	3/4	4,568.21	3/4	4,223.80	3/4	3,866.50	3/4	3,505.14	3/4	3,143.79	3/4	2,782.43	3/4	2,421.00	3/4	2,059.51

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

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



BARGE "KOLACHE"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,051.98	0	1,690.49	0	1,328.99	0	967.94	0	606.52	0	245.04	0		0		0		0	
1/4	2,044.45	1/4	1,682.96	1/4	1,321.46	1/4	960.42	1/4	598.99	1/4	237.51	1/4		1/4		1/4		1/4	
1/2	2,036.92	1/2	1,675.42	1/2	1,313.93	1/2	952.90	1/2	591.46	1/2	229.98	1/2		1/2		1/2		1/2	
3/4	2,029.39	3/4	1,667.89	3/4	1,306.40	3/4	945.38	3/4	583.93	3/4	222.45	3/4		3/4		3/4		3/4	
1	2,021.85	1	1,660.36	1	1,298.87	1	937.86	1	576.40	1	184.92	1		1		1		1	
1/4	2,014.32	1/4	1,652.83	1/4	1,291.34	1/4	930.34	1/4	568.86	1/4	207.39	1/4		1/4		1/4		1/4	
1/2	2,006.79	1/2	1,645.30	1/2	1,283.81	1/2	922.81	1/2	561.33	1/2	199.86	1/2		1/2		1/2		1/2	
3/4	1,999.26	3/4	1,637.77	3/4	1,276.28	3/4	915.28	3/4	553.80	3/4	192.32	3/4		3/4		3/4		3/4	
2	1,991.73	2	1,630.24	2	1,268.74	2	907.75	2	546.27	2	184.79	2		2		2		2	
1/4	1,984.20	1/4	1,622.71	1/4	1,261.21	1/4	900.22	1/4	538.74	1/4	177.26	1/4		1/4		1/4		1/4	
1/2	1,976.67	1/2	1,615.18	1/2	1,253.68	1/2	892.69	1/2	531.21	1/2	169.73	1/2		1/2		1/2		1/2	
3/4	1,969.14	3/4	1,607.64	3/4	1,246.16	3/4	885.16	3/4	523.68	3/4	162.20	3/4		3/4		3/4		3/4	
3	1,961.61	3	1,600.11	3	1,238.63	3	877.63	3	516.15	3	154.67	3		3		3		3	
1/4	1,954.07	1/4	1,592.58	1/4	1,231.10	1/4	870.10	1/4	508.62	1/4	147.14	1/4		1/4		1/4		1/4	
1/2	1,946.54	1/2	1,585.05	1/2	1,223.58	1/2	862.57	1/2	501.09	1/2	139.61	1/2		1/2		1/2		1/2	
3/4	1,939.01	3/4	1,577.52	3/4	1,216.06	3/4	855.04	3/4	493.56	3/4	132.08	3/4		3/4		3/4		3/4	
4	1,931.48	4	1,569.99	4	1,208.54	4	847.50	4	486.03	4	124.55	4		4		4		4	
1/4	1,923.95	1/4	1,562.46	1/4	1,201.02	1/4	839.97	1/4	478.50	1/4	117.02	1/4		1/4		1/4		1/4	
1/2	1,916.42	1/2	1,554.93	1/2	1,193.50	1/2	832.44	1/2	470.96	1/2	109.56	1/2		1/2		1/2		1/2	
3/4	1,908.89	3/4	1,547.40	3/4	1,185.98	3/4	824.91	3/4	463.43	3/4	102.11	3/4		3/4		3/4		3/4	
5	1,901.36	5	1,539.86	5	1,178.47	5	817.38	5	455.90	5	94.66	5		5		5		5	
1/4	1,893.83	1/4	1,532.33	1/4	1,170.95	1/4	809.85	1/4	448.37	1/4	87.21	1/4		1/4		1/4		1/4	
1/2	1,886.30	1/2	1,524.80	1/2	1,163.43	1/2	802.32	1/2	440.84	1/2	80.46	1/2		1/2		1/2		1/2	
3/4	1,878.76	3/4	1,517.27	3/4	1,155.91	3/4	794.79	3/4	433.31	3/4	73.72	3/4		3/4		3/4		3/4	
6	1,871.23	6	1,509.74	6	1,148.39	6	787.26	6	425.78	6	66.97	6		6		6		6	
1/4	1,863.70	1/4	1,502.21	1/4	1,140.87	1/4	779.73	1/4	418.25	1/4	60.22	1/4		1/4		1/4		1/4	
1/2	1,856.17	1/2	1,494.68	1/2	1,133.35	1/2	772.20	1/2	410.72	1/2	54.73	1/2		1/2		1/2		1/2	
3/4	1,848.64	3/4	1,487.15	3/4	1,125.83	3/4	764.67	3/4	403.19	3/4	49.24	3/4		3/4		3/4		3/4	
7	1,841.11	7	1,479.62	7	1,118.31	7	757.13	7	395.66	7	43.75	7		7		7		7	
1/4	1,833.58	1/4	1,472.08	1/4	1,110.80	1/4	749.60	1/4	388.13	1/4	38.26	1/4		1/4		1/4		1/4	
1/2	1,826.05	1/2	1,464.55	1/2	1,103.28	1/2	742.07	1/2	380.59	1/2	34.03	1/2		1/2		1/2		1/2	
3/4	1,818.52	3/4	1,457.02	3/4	1,095.76	3/4	734.54	3/4	373.06	3/4	29.79	3/4		3/4		3/4		3/4	
8	1,810.98	8	1,449.49	8	1,088.24	8	727.01	8	365.53	8	25.56	8		8		8		8	
1/4	1,803.45	1/4	1,441.96	1/4	1,080.72	1/4	719.48	1/4	358.00	1/4	21.32	1/4		1/4		1/4		1/4	
1/2	1,795.92	1/2	1,434.43	1/2	1,073.20	1/2	711.95	1/2	350.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,788.39	3/4	1,426.90	3/4	1,065.68	3/4	704.42	3/4	342.94	3/4		3/4		3/4		3/4		3/4	
9	1,780.86	9	1,419.37	9	1,058.16	9	696.89	9	335.41	9		9		9		9		9	
1/4	1,773.33	1/4	1,411.84	1/4	1,050.65	1/4	689.36	1/4	327.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,765.80	1/2	1,404.30	1/2	1,043.13	1/2	681.83	1/2	320.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,758.27	3/4	1,396.77	3/4	1,035.61	3/4	674.30	3/4	312.82	3/4		3/4		3/4		3/4		3/4	
10	1,750.74	10	1,389.24	10	1,028.09	10	666.77	10	305.29	10		10		10		10		10	
1/4	1,743.20	1/4	1,381.71	1/4	1,020.57	1/4	659.23	1/4	297.76	1/4		1/4		1/4		1/4		1/4	
1/2	1,735.67	1/2	1,374.18	1/2	1,013.05	1/2	651.70	1/2	290.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,728.14	3/4	1,366.65	3/4	1,005.53	3/4	644.17	3/4	282.69	3/4		3/4		3/4		3/4		3/4	
11	1,720.61	11	1,359.12	11	998.01	11	636.64	11	275.16	11		11		11		11		11	
1/4	1,713.08	1/4	1,351.59	1/4	990.49	1/4	629.11	1/4	267.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.55	1/2	1,344.06	1/2	982.98	1/2	621.58	1/2	260.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,698.02	3/4	1,336.52	3/4	975.46	3/4	614.05	3/4	252.57	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/04/2014 CL
CALCULATED: 02/05/2014 CL
PRINTED: 02/14/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2014

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



BARGE "KOLACHE"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,896.09	0	4,566.38	0	4,222.53	0	3,865.66	0	3,504.30	0	3,142.94	0	2,781.59	0	2,420.15	0	2,420.15
1/4	1/4	1/4	4,889.36	1/4	4,559.35	1/4	4,215.22	1/4	3,858.13	1/4	3,496.77	1/4	3,135.42	1/4	2,774.06	1/4	2,412.62	1/4	2,412.62
1/2	1/2	1/2	4,882.62	1/2	4,552.31	1/2	4,207.90	1/2	3,850.60	1/2	3,489.25	1/2	3,127.89	1/2	2,766.53	1/2	2,405.09	1/2	2,405.09
3/4	3/4	3/4	4,875.89	3/4	4,545.27	3/4	4,200.59	3/4	3,843.08	3/4	3,481.72	3/4	3,120.36	3/4	2,759.00	3/4	2,397.56	3/4	2,397.56
1	1	1	5,180.97	1	4,869.16	1	4,538.23	1	4,193.28	1	3,835.55	1	3,474.19	1	3,112.83	1	2,751.47	1	2,390.03
1/4	1/4	1/4	5,175.87	1/4	4,862.40	1/4	4,531.17	1/4	4,185.94	1/4	3,828.02	1/4	3,466.66	1/4	3,105.30	1/4	2,743.94	1/4	2,382.50
1/2	1/2	1/2	5,170.76	1/2	4,855.65	1/2	4,524.11	1/2	4,178.61	1/2	3,820.49	1/2	3,459.13	1/2	3,097.77	1/2	2,736.42	1/2	2,374.97
3/4	3/4	3/4	5,165.66	3/4	4,848.89	3/4	4,517.05	3/4	4,171.27	3/4	3,812.96	3/4	3,451.60	3/4	3,090.25	3/4	2,728.89	3/4	2,367.44
2	2	2	5,160.56	2	4,842.14	2	4,509.99	2	4,163.93	2	3,805.43	2	3,444.08	2	3,082.72	2	2,721.36	2	2,359.90
1/4	1/4	1/4	5,154.25	1/4	4,835.36	1/4	4,502.91	1/4	4,156.57	1/4	3,797.91	1/4	3,436.55	1/4	3,075.19	1/4	2,713.83	1/4	2,352.37
1/2	1/2	1/2	5,147.94	1/2	4,828.58	1/2	4,495.83	1/2	4,149.22	1/2	3,790.38	1/2	3,429.02	1/2	3,067.66	1/2	2,706.30	1/2	2,344.84
3/4	3/4	3/4	5,141.63	3/4	4,821.80	3/4	4,488.74	3/4	4,141.86	3/4	3,782.85	3/4	3,421.49	3/4	3,060.13	3/4	2,698.77	3/4	2,337.31
3	3	3	5,135.31	3	4,815.02	3	4,481.66	3	4,134.50	3	3,775.32	3	3,413.96	3	3,052.60	3	2,691.25	3	2,329.78
1/4	1/4	1/4	5,128.14	1/4	4,808.22	1/4	4,474.55	1/4	4,127.12	1/4	3,767.79	1/4	3,406.43	1/4	3,045.08	1/4	2,683.72	1/4	2,322.25
1/2	1/2	1/2	5,120.96	1/2	4,801.42	1/2	4,467.45	1/2	4,119.73	1/2	3,760.26	1/2	3,398.91	1/2	3,037.55	1/2	2,676.19	1/2	2,314.72
3/4	3/4	3/4	5,113.79	3/4	4,794.62	3/4	4,460.34	3/4	4,112.35	3/4	3,752.74	3/4	3,391.38	3/4	3,030.02	3/4	2,668.66	3/4	2,307.19
4	4	4	5,106.62	4	4,787.82	4	4,453.23	4	4,104.97	4	3,745.21	4	3,383.85	4	3,022.49	4	2,661.13	4	2,299.66
1/4	1/4	1/4	5,100.14	1/4	4,780.99	1/4	4,446.11	1/4	4,097.57	1/4	3,737.68	1/4	3,376.32	1/4	3,014.96	1/4	2,653.60	1/4	2,292.13
1/2	1/2	1/2	5,093.66	1/2	4,774.17	1/2	4,438.98	1/2	4,090.16	1/2	3,730.15	1/2	3,368.79	1/2	3,007.43	1/2	2,646.08	1/2	2,284.59
3/4	3/4	3/4	5,087.18	3/4	4,767.34	3/4	4,431.85	3/4	4,082.76	3/4	3,722.62	3/4	3,361.26	3/4	2,999.91	3/4	2,638.55	3/4	2,277.06
5	5	5	5,080.70	5	4,760.52	5	4,424.72	5	4,075.35	5	3,715.09	5	3,353.74	5	2,992.38	5	2,631.02	5	2,269.53
1/4	1/4	1/4	5,074.19	1/4	4,753.67	1/4	4,417.57	1/4	4,067.92	1/4	3,707.57	1/4	3,346.21	1/4	2,984.85	1/4	2,623.49	1/4	2,262.00
1/2	1/2	1/2	5,067.69	1/2	4,746.82	1/2	4,410.41	1/2	4,060.50	1/2	3,700.04	1/2	3,338.68	1/2	2,977.32	1/2	2,615.96	1/2	2,254.47
3/4	3/4	3/4	5,061.19	3/4	4,739.98	3/4	4,403.26	3/4	4,053.07	3/4	3,692.51	3/4	3,331.15	3/4	2,969.79	3/4	2,608.43	3/4	2,246.94
6	6	6	5,054.69	6	4,733.13	6	4,396.11	6	4,045.64	6	3,684.98	6	3,323.62	6	2,962.26	6	2,600.90	6	2,239.41
1/4	1/4	1/4	5,048.16	1/4	4,726.26	1/4	4,388.93	1/4	4,038.19	1/4	3,677.45	1/4	3,316.09	1/4	2,954.74	1/4	2,593.37	1/4	2,231.88
1/2	1/2	1/2	5,041.64	1/2	4,719.39	1/2	4,381.76	1/2	4,030.74	1/2	3,669.92	1/2	3,308.57	1/2	2,947.21	1/2	2,585.83	1/2	2,224.35
3/4	3/4	3/4	5,035.11	3/4	4,712.52	3/4	4,374.58	3/4	4,023.29	3/4	3,662.40	3/4	3,301.04	3/4	2,939.68	3/4	2,578.30	3/4	2,216.82
7	7	7	5,028.59	7	4,705.65	7	4,367.41	7	4,015.84	7	3,654.87	7	3,293.51	7	2,932.15	7	2,570.77	7	2,209.28
1/4	1/4	1/4	5,022.04	1/4	4,698.75	1/4	4,360.21	1/4	4,008.36	1/4	3,647.34	1/4	3,285.98	1/4	2,924.62	1/4	2,563.24	1/4	2,201.75
1/2	1/2	1/2	5,015.49	1/2	4,691.85	1/2	4,353.01	1/2	4,000.89	1/2	3,639.81	1/2	3,278.45	1/2	2,917.09	1/2	2,555.71	1/2	2,194.22
3/4	3/4	3/4	5,008.94	3/4	4,684.96	3/4	4,345.82	3/4	3,993.42	3/4	3,632.28	3/4	3,270.93	3/4	2,909.57	3/4	2,548.18	3/4	2,186.69
8	8	8	5,002.39	8	4,678.06	8	4,338.62	8	3,985.94	8	3,624.76	8	3,263.40	8	2,902.04	8	2,540.65	8	2,179.16
1/4	1/4	1/4	4,995.82	1/4	4,671.12	1/4	4,331.40	1/4	3,978.45	1/4	3,617.23	1/4	3,255.87	1/4	2,894.51	1/4	2,533.12	1/4	2,171.63
1/2	1/2	1/2	4,989.25	1/2	4,664.17	1/2	4,324.17	1/2	3,970.95	1/2	3,609.70	1/2	3,248.34	1/2	2,886.98	1/2	2,525.59	1/2	2,164.10
3/4	3/4	3/4	4,982.68	3/4	4,657.22	3/4	4,316.95	3/4	3,963.45	3/4	3,602.17	3/4	3,240.81	3/4	2,879.45	3/4	2,518.06	3/4	2,156.57
9	9	9	4,976.11	9	4,650.28	9	4,309.73	9	3,955.96	9	3,594.64	9	3,233.28	9	2,871.93	9	2,510.52	9	2,149.04
1/4	1/4	1/4	4,969.50	1/4	4,643.31	1/4	4,302.49	1/4	3,948.44	1/4	3,587.11	1/4	3,225.76	1/4	2,864.40	1/4	2,502.99	1/4	2,141.51
1/2	1/2	1/2	4,962.90	1/2	4,636.34	1/2	4,295.24	1/2	3,940.92	1/2	3,579.59	1/2	3,218.23	1/2	2,856.87	1/2	2,495.46	1/2	2,133.97
3/4	3/4	3/4	4,956.30	3/4	4,629.37	3/4	4,288.00	3/4	3,933.40	3/4	3,572.06	3/4	3,210.70	3/4	2,849.34	3/4	2,487.93	3/4	2,126.44
10	10	10	4,949.69	10	4,622.41	10	4,280.76	10	3,925.89	10	3,564.53	10	3,203.17	10	2,841.81	10	2,480.40	10	2,118.91
1/4	1/4	1/4	4,943.00	1/4	4,615.41	1/4	4,273.49	1/4	3,918.36	1/4	3,557.00	1/4	3,195.64	1/4	2,834.28	1/4	2,472.87	1/4	2,111.38
1/2	1/2	1/2	4,936.31	1/2	4,608.42	1/2	4,266.22	1/2	3,910.83	1/2	3,549.47	1/2	3,188.11	1/2	2,826.76	1/2	2,465.34	1/2	2,103.85
3/4	3/4	3/4	4,929.62	3/4	4,601.43	3/4	4,258.96	3/4	3,903.30	3/4	3,541.94	3/4	3,180.59	3/4	2,819.23	3/4	2,457.81	3/4	2,096.32
11	11	11	4,922.94	11	4,594.44	11	4,251.69	11	3,895.77	11	3,534.42	11	3,173.06	11	2,811.70	11	2,450.28	11	2,088.79
1/4	1/4	1/4	4,916.22	1/4	4,587.43	1/4	4,244.40	1/4	3,888.25	1/4	3,526.89	1/4	3,165.53	1/4	2,804.17	1/4	2,442.75	1/4	2,081.26
1/2	1/2	1/2	4,909.51	1/2	4,580.41	1/2	4,237.11	1/2	3,880.72	1/2	3,519.36	1/2	3,158.00	1/2	2,796.64	1/2	2,435.21	1/2	2,073.73
3/4	3/4	3/4	4,902.80	3/4	4,573.40	3/4	4,229.82	3/4	3,873.19	3/4	3,511.83	3/4	3,150.47	3/4	2,789.11	3/4	2,427.68	3/4	2,066.20

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

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



BARGE "KOLACHE"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,058.66	0	1,697.18	0	1,335.69	0	986.69	0	629.11	0	267.63	0		0		0		0	
1/4	2,051.13	1/4	1,689.65	1/4	1,328.16	1/4	979.50	1/4	621.58	1/4	260.10	1/4		1/4		1/4		1/4	
1/2	2,043.60	1/2	1,682.11	1/2	1,320.63	1/2	972.31	1/2	614.05	1/2	252.57	1/2		1/2		1/2		1/2	
3/4	2,036.07	3/4	1,674.58	3/4	1,313.10	3/4	965.12	3/4	606.52	3/4	245.04	3/4		3/4		3/4		3/4	
1	2,028.54	1	1,667.05	1	1,305.56	1	957.94	1	598.99	1	237.51	1		1		1		1	
1/4	2,021.01	1/4	1,659.52	1/4	1,298.03	1/4	950.75	1/4	591.46	1/4	229.98	1/4		1/4		1/4		1/4	
1/2	2,013.48	1/2	1,651.99	1/2	1,290.50	1/2	943.56	1/2	583.93	1/2	222.45	1/2		1/2		1/2		1/2	
3/4	2,005.95	3/4	1,644.46	3/4	1,282.97	3/4	936.37	3/4	576.40	3/4	214.92	3/4		3/4		3/4		3/4	
2	1,998.42	2	1,636.93	2	1,275.44	2	929.18	2	568.87	2	207.39	2		2		2		2	
1/4	1,990.89	1/4	1,629.40	1/4	1,267.95	1/4	921.94	1/4	561.33	1/4	199.86	1/4		1/4		1/4		1/4	
1/2	1,983.35	1/2	1,621.87	1/2	1,260.46	1/2	914.70	1/2	553.80	1/2	192.33	1/2		1/2		1/2		1/2	
3/4	1,975.82	3/4	1,614.34	3/4	1,252.97	3/4	907.46	3/4	546.27	3/4	184.79	3/4		3/4		3/4		3/4	
3	1,968.29	3	1,606.80	3	1,245.48	3	900.22	3	538.74	3	177.26	3		3		3		3	
1/4	1,960.76	1/4	1,599.27	1/4	1,238.28	1/4	892.69	1/4	531.21	1/4	169.73	1/4		1/4		1/4		1/4	
1/2	1,953.23	1/2	1,591.74	1/2	1,231.09	1/2	885.16	1/2	523.68	1/2	162.20	1/2		1/2		1/2		1/2	
3/4	1,945.70	3/4	1,584.21	3/4	1,223.89	3/4	877.63	3/4	516.15	3/4	154.67	3/4		3/4		3/4		3/4	
4	1,938.17	4	1,576.68	4	1,216.69	4	870.10	4	508.62	4	147.14	4		4		4		4	
1/4	1,930.64	1/4	1,569.15	1/4	1,209.50	1/4	862.57	1/4	501.09	1/4	139.61	1/4		1/4		1/4		1/4	
1/2	1,923.11	1/2	1,561.62	1/2	1,202.31	1/2	855.04	1/2	493.56	1/2	132.08	1/2		1/2		1/2		1/2	
3/4	1,915.58	3/4	1,554.09	3/4	1,195.13	3/4	847.51	3/4	486.03	3/4	124.55	3/4		3/4		3/4		3/4	
5	1,908.04	5	1,546.56	5	1,187.94	5	839.97	5	478.50	5	117.02	5		5		5		5	
1/4	1,900.51	1/4	1,539.03	1/4	1,180.75	1/4	832.44	1/4	470.97	1/4	109.57	1/4		1/4		1/4		1/4	
1/2	1,892.98	1/2	1,531.49	1/2	1,173.56	1/2	824.91	1/2	463.43	1/2	102.11	1/2		1/2		1/2		1/2	
3/4	1,885.45	3/4	1,523.96	3/4	1,166.38	3/4	817.38	3/4	455.90	3/4	94.66	3/4		3/4		3/4		3/4	
6	1,877.92	6	1,516.43	6	1,159.19	6	809.85	6	448.37	6	87.21	6		6		6		6	
1/4	1,870.39	1/4	1,508.90	1/4	1,152.00	1/4	802.32	1/4	440.84	1/4	80.46	1/4		1/4		1/4		1/4	
1/2	1,862.86	1/2	1,501.37	1/2	1,144.81	1/2	794.79	1/2	433.31	1/2	73.72	1/2		1/2		1/2		1/2	
3/4	1,855.33	3/4	1,493.84	3/4	1,137.63	3/4	787.26	3/4	425.78	3/4	66.97	3/4		3/4		3/4		3/4	
7	1,847.80	7	1,486.31	7	1,130.44	7	779.73	7	418.25	7	60.22	7		7		7		7	
1/4	1,840.27	1/4	1,478.78	1/4	1,123.25	1/4	772.20	1/4	410.72	1/4	54.73	1/4		1/4		1/4		1/4	
1/2	1,832.73	1/2	1,471.25	1/2	1,116.06	1/2	764.67	1/2	403.19	1/2	49.24	1/2		1/2		1/2		1/2	
3/4	1,825.20	3/4	1,463.72	3/4	1,108.88	3/4	757.14	3/4	395.66	3/4	43.75	3/4		3/4		3/4		3/4	
8	1,817.67	8	1,456.18	8	1,101.69	8	749.60	8	388.13	8	38.26	8		8		8		8	
1/4	1,810.14	1/4	1,448.65	1/4	1,094.50	1/4	742.07	1/4	380.60	1/4	34.03	1/4		1/4		1/4		1/4	
1/2	1,802.61	1/2	1,441.12	1/2	1,087.31	1/2	734.54	1/2	373.06	1/2	29.79	1/2		1/2		1/2		1/2	
3/4	1,795.08	3/4	1,433.59	3/4	1,080.12	3/4	727.01	3/4	365.53	3/4	25.56	3/4		3/4		3/4		3/4	
9	1,787.55	9	1,426.06	9	1,072.94	9	719.48	9	358.00	9	21.32	9		9		9		9	
1/4	1,780.02	1/4	1,418.53	1/4	1,065.75	1/4	711.95	1/4	350.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,772.49	1/2	1,411.00	1/2	1,058.56	1/2	704.42	1/2	342.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,764.96	3/4	1,403.47	3/4	1,051.37	3/4	696.89	3/4	335.41	3/4		3/4		3/4		3/4		3/4	
10	1,757.42	10	1,395.94	10	1,044.19	10	689.36	10	327.88	10		10		10		10		10	
1/4	1,749.89	1/4	1,388.41	1/4	1,037.00	1/4	681.83	1/4	320.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,742.36	1/2	1,380.87	1/2	1,029.81	1/2	674.30	1/2	312.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,734.83	3/4	1,373.34	3/4	1,022.62	3/4	666.77	3/4	305.29	3/4		3/4		3/4		3/4		3/4	
11	1,727.30	11	1,365.81	11	1,015.44	11	659.24	11	297.76	11		11		11		11		11	
1/4	1,719.77	1/4	1,358.28	1/4	1,008.25	1/4	651.70	1/4	290.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,712.24	1/2	1,350.75	1/2	1,001.06	1/2	644.17	1/2	282.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.71	3/4	1,343.22	3/4	993.87	3/4	636.64	3/4	275.16	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/04/2014 CL
CALCULATED: 02/05/2014 CL
PRINTED: 02/14/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2014

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



BARGE "KOLACHE"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,240.97	0	4,063.97	0	3,879.46	0	3,688.05	0	3,485.89	0	3,128.12	0	2,769.09	0	2,409.44
1/4		1/4		1/4	4,237.36	1/4	4,060.20	1/4	3,875.54	1/4	3,684.02	1/4	3,478.43	1/4	3,120.64	1/4	2,761.59	1/4	2,401.95
1/2		1/2		1/2	4,394.17	1/2	4,233.75	1/2	4,056.43	1/2	3,871.62	1/2	3,679.98	1/2	3,470.97	1/2	3,113.16	1/2	2,754.10
3/4		3/4		3/4	4,392.52	3/4	4,230.13	3/4	4,052.65	3/4	3,867.69	3/4	3,675.95	3/4	3,463.51	3/4	3,105.68	3/4	2,746.61
1	1	1	1	1	4,390.87	1	4,226.51	1	4,048.86	1	3,863.76	1	3,671.92	1	3,456.05	1	3,098.20	1	2,739.12
1/4		1/4		1/4	4,389.22	1/4	4,222.89	1/4	4,045.08	1/4	3,859.83	1/4	3,667.88	1/4	3,448.59	1/4	3,090.73	1/4	2,731.63
1/2		1/2		1/2	4,387.57	1/2	4,219.27	1/2	4,041.30	1/2	3,855.90	1/2	3,663.85	1/2	3,441.13	1/2	3,083.25	1/2	2,724.13
3/4		3/4		3/4	4,384.70	3/4	4,215.64	3/4	4,037.50	3/4	3,851.96	3/4	3,659.82	3/4	3,433.67	3/4	3,075.77	3/4	2,716.64
2	2	2	2	2	4,381.83	2	4,212.00	2	4,033.71	2	3,848.02	2	3,655.78	2	3,426.21	2	3,068.29	2	2,709.15
1/4		1/4		1/4	4,378.96	1/4	4,208.37	1/4	4,029.91	1/4	3,844.08	1/4	3,651.75	1/4	3,418.75	1/4	3,060.81	1/4	2,701.66
1/2		1/2		1/2	4,376.10	1/2	4,204.74	1/2	4,026.12	1/2	3,840.13	1/2	3,647.72	1/2	3,411.29	1/2	3,053.33	1/2	2,694.17
3/4		3/4		3/4	4,372.31	3/4	4,201.09	3/4	4,022.31	3/4	3,836.18	3/4	3,643.69	3/4	3,403.83	3/4	3,045.85	3/4	2,686.68
3	3	3	3	3	4,368.53	3	4,197.45	3	4,018.50	3	3,832.23	3	3,639.65	3	3,396.37	3	3,038.37	3	2,679.18
1/4		1/4		1/4	4,364.75	1/4	4,193.80	1/4	4,014.70	1/4	3,828.27	1/4	3,635.62	1/4	3,388.91	1/4	3,030.89	1/4	2,671.69
1/2		1/2		1/2	4,360.97	1/2	4,190.16	1/2	4,010.89	1/2	3,824.32	1/2	3,631.59	1/2	3,381.45	1/2	3,023.41	1/2	2,664.20
3/4		3/4		3/4	4,357.50	3/4	4,186.50	3/4	4,007.07	3/4	3,820.35	3/4	3,627.55	3/4	3,373.99	3/4	3,015.93	3/4	2,656.71
4	4	4	4	4	4,354.03	4	4,182.84	4	4,003.25	4	3,816.38	4	3,623.52	4	3,366.53	4	3,008.46	4	2,649.22
1/4		1/4		1/4	4,350.56	1/4	4,179.19	1/4	3,999.43	1/4	3,812.42	1/4	3,619.49	1/4	3,359.07	1/4	3,000.98	1/4	2,641.72
1/2		1/2		1/2	4,347.08	1/2	4,175.53	1/2	3,995.61	1/2	3,808.45	1/2	3,615.45	1/2	3,351.61	1/2	2,993.50	1/2	2,634.23
3/4		3/4		3/4	4,343.60	3/4	4,171.86	3/4	3,991.78	3/4	3,804.47	3/4	3,611.42	3/4	3,344.15	3/4	2,986.02	3/4	2,626.74
5	5	5	5	5	4,340.12	5	4,168.19	5	3,987.95	5	3,800.49	5	3,607.39	5	3,336.69	5	2,978.54	5	2,619.25
1/4		1/4		1/4	4,336.63	1/4	4,164.52	1/4	3,984.12	1/4	3,796.51	1/4	3,603.36	1/4	3,329.23	1/4	2,971.06	1/4	2,611.76
1/2		1/2		1/2	4,333.15	1/2	4,160.85	1/2	3,980.29	1/2	3,792.53	1/2	3,599.32	1/2	3,321.77	1/2	2,963.58	1/2	2,604.27
3/4		3/4		3/4	4,329.65	3/4	4,157.17	3/4	3,976.44	3/4	3,788.54	3/4	3,595.29	3/4	3,314.33	3/4	2,956.10	3/4	2,596.78
6	6	6	6	6	4,326.16	6	4,153.49	6	3,972.60	6	3,784.55	6	3,591.26	6	3,306.88	6	2,948.62	6	2,589.28
1/4		1/4		1/4	4,322.66	1/4	4,149.81	1/4	3,968.75	1/4	3,780.56	1/4	3,587.22	1/4	3,299.44	1/4	2,941.14	1/4	2,581.79
1/2		1/2		1/2	4,319.17	1/2	4,146.12	1/2	3,964.91	1/2	3,776.57	1/2	3,583.19	1/2	3,291.99	1/2	2,933.66	1/2	2,574.30
3/4		3/4		3/4	4,315.66	3/4	4,142.43	3/4	3,961.05	3/4	3,772.56	3/4	3,579.16	3/4	3,284.55	3/4	2,926.19	3/4	2,566.80
7	7	7	7	7	4,312.15	7	4,138.73	7	3,957.20	7	3,768.56	7	3,575.12	7	3,277.10	7	2,918.71	7	2,559.31
1/4		1/4		1/4	4,308.64	1/4	4,135.04	1/4	3,953.34	1/4	3,764.55	1/4	3,571.09	1/4	3,269.66	1/4	2,911.23	1/4	2,551.82
1/2		1/2		1/2	4,305.13	1/2	4,131.34	1/2	3,949.49	1/2	3,760.55	1/2	3,567.06	1/2	3,262.21	1/2	2,903.75	1/2	2,544.32
3/4		3/4		3/4	4,301.61	3/4	4,127.62	3/4	3,945.62	3/4	3,756.53	3/4	3,563.03	3/4	3,254.77	3/4	2,896.27	3/4	2,536.83
8	8	8	8	8	4,298.09	8	4,123.90	8	3,941.75	8	3,752.52	8	3,558.99	8	3,247.32	8	2,888.79	8	2,529.34
1/4		1/4		1/4	4,294.57	1/4	4,120.18	1/4	3,937.88	1/4	3,748.50	1/4	3,554.96	1/4	3,239.88	1/4	2,881.31	1/4	2,521.84
1/2		1/2		1/2	4,291.05	1/2	4,116.46	1/2	3,934.01	1/2	3,744.49	1/2	3,550.93	1/2	3,232.43	1/2	2,873.83	1/2	2,514.35
3/4		3/4		3/4	4,287.51	3/4	4,112.72	3/4	3,930.13	3/4	3,740.46	3/4	3,546.89	3/4	3,224.99	3/4	2,866.35	3/4	2,506.86
9	9	9	9	9	4,283.98	9	4,108.99	9	3,926.25	9	3,736.43	9	3,542.86	9	3,217.55	9	2,858.87	9	2,499.36
1/4		1/4		1/4	4,280.44	1/4	4,105.26	1/4	3,922.37	1/4	3,732.41	1/4	3,538.83	1/4	3,210.10	1/4	2,851.39	1/4	2,491.87
1/2		1/2		1/2	4,276.90	1/2	4,101.52	1/2	3,918.49	1/2	3,728.38	1/2	3,534.79	1/2	3,202.66	1/2	2,843.92	1/2	2,484.38
3/4		3/4		3/4	4,273.32	3/4	4,097.78	3/4	3,914.59	3/4	3,724.35	3/4	3,530.76	3/4	3,195.21	3/4	2,836.44	3/4	2,476.88
10	10	10	10	10	4,269.73	10	4,094.03	10	3,910.70	10	3,720.31	10	3,526.73	10	3,187.77	10	2,828.96	10	2,469.39
1/4		1/4		1/4	4,266.15	1/4	4,090.29	1/4	3,906.81	1/4	3,716.28	1/4	3,522.70	1/4	3,180.32	1/4	2,821.48	1/4	2,461.90
1/2		1/2		1/2	4,262.57	1/2	4,086.54	1/2	3,902.92	1/2	3,712.25	1/2	3,518.66	1/2	3,172.88	1/2	2,814.00	1/2	2,454.40
3/4		3/4		3/4	4,258.97	3/4	4,082.78	3/4	3,899.01	3/4	3,708.21	3/4	3,514.20	3/4	3,165.43	3/4	2,806.52	3/4	2,446.91
11	11	11	11	11	4,255.38	11	4,079.02	11	3,895.10	11	3,704.18	11	3,509.74	11	3,157.98	11	2,799.04	11	2,439.42
1/4		1/4		1/4	4,251.78	1/4	4,075.27	1/4	3,891.20	1/4	3,700.15	1/4	3,505.28	1/4	3,150.53	1/4	2,791.56	1/4	2,431.92
1/2		1/2		1/2	4,248.18	1/2	4,071.51	1/2	3,887.29	1/2	3,696.11	1/2	3,500.82	1/2	3,143.08	1/2	2,784.08	1/2	2,424.43
3/4		3/4		3/4	4,244.58	3/4	4,067.74	3/4	3,883.38	3/4	3,692.08	3/4	3,493.36	3/4	3,135.60	3/4	2,776.58	3/4	2,416.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

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



BARGE "KOLACHE"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,049.76	0	1,690.01	0	1,330.25	0	970.78	0	611.11	0	251.37	0		0		0		0	
1/4	2,042.27	1/4	1,682.51	1/4	1,322.75	1/4	963.30	1/4	603.62	1/4	243.87	1/4		1/4		1/4		1/4	
1/2	2,034.78	1/2	1,675.02	1/2	1,315.26	1/2	955.81	1/2	596.12	1/2	236.38	1/2		1/2		1/2		1/2	
3/4	2,027.28	3/4	1,667.52	3/4	1,307.76	3/4	948.33	3/4	588.63	3/4	228.88	3/4		3/4		3/4		3/4	
1	2,019.79	1	1,660.03	1	1,300.27	1	940.84	1	581.13	1	219.39	1		1		1		1	
1/4	2,012.29	1/4	1,652.53	1/4	1,292.77	1/4	933.36	1/4	573.64	1/4	213.89	1/4		1/4		1/4		1/4	
1/2	2,004.80	1/2	1,645.04	1/2	1,285.28	1/2	925.87	1/2	566.14	1/2	206.40	1/2		1/2		1/2		1/2	
3/4	1,997.30	3/4	1,637.54	3/4	1,277.78	3/4	918.38	3/4	558.65	3/4	198.90	3/4		3/4		3/4		3/4	
2	1,989.81	2	1,630.05	2	1,270.29	2	910.89	2	551.15	2	191.41	2		2		2		2	
1/4	1,982.31	1/4	1,622.55	1/4	1,262.79	1/4	903.40	1/4	543.66	1/4	183.91	1/4		1/4		1/4		1/4	
1/2	1,974.82	1/2	1,615.06	1/2	1,255.30	1/2	895.91	1/2	536.16	1/2	176.42	1/2		1/2		1/2		1/2	
3/4	1,967.32	3/4	1,607.56	3/4	1,247.80	3/4	888.42	3/4	528.67	3/4	168.92	3/4		3/4		3/4		3/4	
3	1,959.83	3	1,600.07	3	1,240.31	3	880.92	3	521.18	3	161.43	3		3		3		3	
1/4	1,952.33	1/4	1,592.57	1/4	1,232.81	1/4	873.43	1/4	513.68	1/4	153.94	1/4		1/4		1/4		1/4	
1/2	1,944.84	1/2	1,585.08	1/2	1,225.32	1/2	865.93	1/2	506.19	1/2	146.44	1/2		1/2		1/2		1/2	
3/4	1,937.34	3/4	1,577.58	3/4	1,217.83	3/4	858.44	3/4	498.69	3/4	138.95	3/4		3/4		3/4		3/4	
4	1,929.85	4	1,570.09	4	1,210.33	4	850.94	4	491.20	4	131.45	4		4		4		4	
1/4	1,922.35	1/4	1,562.59	1/4	1,202.84	1/4	843.45	1/4	483.70	1/4	123.96	1/4		1/4		1/4		1/4	
1/2	1,914.86	1/2	1,555.10	1/2	1,195.35	1/2	835.95	1/2	476.21	1/2	116.46	1/2		1/2		1/2		1/2	
3/4	1,907.36	3/4	1,547.60	3/4	1,187.87	3/4	828.46	3/4	468.71	3/4	109.04	3/4		3/4		3/4		3/4	
5	1,899.87	5	1,540.11	5	1,180.38	5	820.96	5	461.22	5	101.63	5		5		5		5	
1/4	1,892.37	1/4	1,532.61	1/4	1,172.90	1/4	813.47	1/4	453.72	1/4	94.21	1/4		1/4		1/4		1/4	
1/2	1,884.88	1/2	1,525.12	1/2	1,165.41	1/2	805.97	1/2	446.23	1/2	86.79	1/2		1/2		1/2		1/2	
3/4	1,877.38	3/4	1,517.62	3/4	1,157.92	3/4	798.48	3/4	438.73	3/4	80.08	3/4		3/4		3/4		3/4	
6	1,869.89	6	1,510.13	6	1,150.44	6	790.98	6	431.24	6	73.37	6		6		6		6	
1/4	1,862.39	1/4	1,502.63	1/4	1,142.95	1/4	783.49	1/4	423.74	1/4	66.65	1/4		1/4		1/4		1/4	
1/2	1,854.90	1/2	1,495.14	1/2	1,135.47	1/2	776.00	1/2	416.25	1/2	59.94	1/2		1/2		1/2		1/2	
3/4	1,847.40	3/4	1,487.64	3/4	1,127.98	3/4	768.50	3/4	408.75	3/4	54.48	3/4		3/4		3/4		3/4	
7	1,839.91	7	1,480.15	7	1,120.50	7	761.01	7	401.26	7	49.01	7		7		7		7	
1/4	1,832.41	1/4	1,472.65	1/4	1,113.01	1/4	753.51	1/4	393.77	1/4	43.55	1/4		1/4		1/4		1/4	
1/2	1,824.92	1/2	1,465.16	1/2	1,105.53	1/2	746.02	1/2	386.27	1/2	38.08	1/2		1/2		1/2		1/2	
3/4	1,817.42	3/4	1,457.66	3/4	1,098.04	3/4	738.52	3/4	378.78	3/4	33.87	3/4		3/4		3/4		3/4	
8	1,809.93	8	1,450.17	8	1,090.55	8	731.03	8	371.28	8	29.65	8		8		8		8	
1/4	1,802.43	1/4	1,442.67	1/4	1,083.07	1/4	723.53	1/4	363.79	1/4	25.44	1/4		1/4		1/4		1/4	
1/2	1,794.94	1/2	1,435.18	1/2	1,075.58	1/2	716.04	1/2	356.29	1/2	21.22	1/2		1/2		1/2		1/2	
3/4	1,787.44	3/4	1,427.68	3/4	1,068.10	3/4	708.54	3/4	348.80	3/4		3/4		3/4		3/4		3/4	
9	1,779.95	9	1,420.19	9	1,060.61	9	701.05	9	341.30	9		9		9		9		9	
1/4	1,772.45	1/4	1,412.69	1/4	1,053.13	1/4	693.55	1/4	333.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.96	1/2	1,405.20	1/2	1,045.64	1/2	686.06	1/2	326.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,757.46	3/4	1,397.70	3/4	1,038.15	3/4	678.56	3/4	318.82	3/4		3/4		3/4		3/4		3/4	
10	1,749.97	10	1,390.21	10	1,030.67	10	671.07	10	311.32	10		10		10		10		10	
1/4	1,742.47	1/4	1,382.71	1/4	1,023.18	1/4	663.57	1/4	303.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.98	1/2	1,375.22	1/2	1,015.70	1/2	656.08	1/2	296.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,727.48	3/4	1,367.72	3/4	1,008.21	3/4	648.59	3/4	288.84	3/4		3/4		3/4		3/4		3/4	
11	1,719.99	11	1,360.23	11	1,000.73	11	641.09	11	281.35	11		11		11		11		11	
1/4	1,712.49	1/4	1,352.73	1/4	993.24	1/4	633.60	1/4	273.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.00	1/2	1,345.24	1/2	985.76	1/2	626.10	1/2	266.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,697.50	3/4	1,337.74	3/4	978.27	3/4	618.61	3/4	258.86	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/04/2014 CL
CALCULATED: 02/05/2014 CL
PRINTED: 02/14/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2014

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



BARGE "KOLACHE"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	0	4,217.03	0	4,040.95	0	3,857.35	0	3,666.80	0	3,468.83	0	3,111.75	0	2,753.58	0	2,394.61
1/4	1/4	1/4	1/4	1/4	4,213.44	1/4	4,037.20	1/4	3,853.45	1/4	3,662.78	1/4	3,461.38	1/4	3,104.28	1/4	2,746.10	1/4	2,387.13
1/2	1/2	1/2	1/2	1/2	4,209.85	1/2	4,033.45	1/2	3,849.54	1/2	3,658.77	1/2	3,453.94	1/2	3,096.82	1/2	2,738.62	1/2	2,379.65
3/4	3/4	3/4	3/4	3/4	4,365.92	3/4	4,206.25	3/4	4,029.69	3/4	3,845.64	3/4	3,654.75	3/4	3,446.49	3/4	3,089.35	3/4	2,731.14
1	1	1	1	1	4,364.28	1	4,202.65	1	4,025.92	1	3,841.73	1	3,650.73	1	3,439.05	1	3,081.89	1	2,723.67
1/4	1/4	1/4	1/4	1/4	4,362.65	1/4	4,199.05	1/4	4,022.16	1/4	3,837.81	1/4	3,646.72	1/4	3,431.60	1/4	3,074.42	1/4	2,716.19
1/2	1/2	1/2	1/2	1/2	4,361.01	1/2	4,195.44	1/2	4,018.39	1/2	3,833.90	1/2	3,642.70	1/2	3,424.15	1/2	3,066.96	1/2	2,708.71
3/4	3/4	3/4	3/4	3/4	4,359.38	3/4	4,191.84	3/4	4,014.62	3/4	3,829.99	3/4	3,638.68	3/4	3,416.71	3/4	3,059.50	3/4	2,701.23
2	2	2	2	2	4,356.52	2	4,188.22	2	4,010.84	2	3,826.06	2	3,634.66	2	3,409.26	2	3,052.04	2	2,693.76
1/4	1/4	1/4	1/4	1/4	4,353.67	1/4	4,184.60	1/4	4,007.07	1/4	3,822.13	1/4	3,630.65	1/4	3,401.81	1/4	3,044.58	1/4	2,686.28
1/2	1/2	1/2	1/2	1/2	4,350.82	1/2	4,180.99	1/2	4,003.29	1/2	3,818.21	1/2	3,626.63	1/2	3,394.37	1/2	3,037.12	1/2	2,678.80
3/4	3/4	3/4	3/4	3/4	4,347.96	3/4	4,177.37	3/4	3,999.51	3/4	3,814.28	3/4	3,622.61	3/4	3,386.92	3/4	3,029.67	3/4	2,671.32
3	3	3	3	3	4,344.20	3	4,173.74	3	3,995.72	3	3,810.34	3	3,618.60	3	3,379.47	3	3,022.21	3	2,663.84
1/4	1/4	1/4	1/4	1/4	4,340.43	1/4	4,170.11	1/4	3,991.93	1/4	3,806.40	1/4	3,614.58	1/4	3,372.03	1/4	3,014.75	1/4	2,656.37
1/2	1/2	1/2	1/2	1/2	4,336.67	1/2	4,166.48	1/2	3,988.13	1/2	3,802.46	1/2	3,610.56	1/2	3,364.58	1/2	3,007.29	1/2	2,648.89
3/4	3/4	3/4	3/4	3/4	4,332.90	3/4	4,162.85	3/4	3,984.34	3/4	3,798.52	3/4	3,606.54	3/4	3,357.13	3/4	2,999.84	3/4	2,641.41
4	4	4	4	4	4,329.44	4	4,159.21	4	3,980.54	4	3,794.57	4	3,602.53	4	3,349.69	4	2,992.38	4	2,633.93
1/4	1/4	1/4	1/4	1/4	4,325.99	1/4	4,155.57	1/4	3,976.74	1/4	3,790.62	1/4	3,598.51	1/4	3,342.24	1/4	2,984.92	1/4	2,626.46
1/2	1/2	1/2	1/2	1/2	4,322.53	1/2	4,151.93	1/2	3,972.93	1/2	3,786.67	1/2	3,594.49	1/2	3,334.80	1/2	2,977.46	1/2	2,618.98
3/4	3/4	3/4	3/4	3/4	4,319.08	3/4	4,148.29	3/4	3,969.13	3/4	3,782.72	3/4	3,590.47	3/4	3,327.35	3/4	2,970.01	3/4	2,611.50
5	5	5	5	5	4,315.61	5	4,144.63	5	3,965.31	5	3,778.76	5	3,586.46	5	3,319.90	5	2,962.55	5	2,604.02
1/4	1/4	1/4	1/4	1/4	4,312.14	1/4	4,140.98	1/4	3,961.50	1/4	3,774.79	1/4	3,582.44	1/4	3,312.46	1/4	2,955.09	1/4	2,596.54
1/2	1/2	1/2	1/2	1/2	4,308.68	1/2	4,137.32	1/2	3,957.68	1/2	3,770.83	1/2	3,578.42	1/2	3,305.02	1/2	2,947.63	1/2	2,589.06
3/4	3/4	3/4	3/4	3/4	4,305.21	3/4	4,133.67	3/4	3,953.87	3/4	3,766.87	3/4	3,574.41	3/4	3,297.57	3/4	2,940.18	3/4	2,581.59
6	6	6	6	6	4,301.73	6	4,130.01	6	3,950.04	6	3,762.89	6	3,570.39	6	3,290.14	6	2,932.72	6	2,574.11
1/4	1/4	1/4	1/4	1/4	4,298.25	1/4	4,126.34	1/4	3,946.21	1/4	3,758.91	1/4	3,566.37	1/4	3,282.71	1/4	2,925.26	1/4	2,566.63
1/2	1/2	1/2	1/2	1/2	4,294.77	1/2	4,122.67	1/2	3,942.38	1/2	3,754.94	1/2	3,562.35	1/2	3,275.28	1/2	2,917.80	1/2	2,559.15
3/4	3/4	3/4	3/4	3/4	4,291.29	3/4	4,119.01	3/4	3,938.55	3/4	3,750.96	3/4	3,558.34	3/4	3,267.85	3/4	2,910.35	3/4	2,551.67
7	7	7	7	7	4,287.80	7	4,115.33	7	3,934.71	7	3,746.97	7	3,554.32	7	3,260.42	7	2,902.89	7	2,544.19
1/4	1/4	1/4	1/4	1/4	4,284.30	1/4	4,111.65	1/4	3,930.87	1/4	3,742.99	1/4	3,550.30	1/4	3,252.99	1/4	2,895.43	1/4	2,536.71
1/2	1/2	1/2	1/2	1/2	4,280.81	1/2	4,107.97	1/2	3,927.03	1/2	3,739.00	1/2	3,546.29	1/2	3,245.56	1/2	2,887.97	1/2	2,529.23
3/4	3/4	3/4	3/4	3/4	4,277.32	3/4	4,104.29	3/4	3,923.19	3/4	3,735.01	3/4	3,542.27	3/4	3,238.12	3/4	2,880.51	3/4	2,521.75
8	8	8	8	8	4,273.81	8	4,100.58	8	3,919.34	8	3,731.01	8	3,538.25	8	3,230.69	8	2,873.05	8	2,514.27
1/4	1/4	1/4	1/4	1/4	4,270.31	1/4	4,096.88	1/4	3,915.48	1/4	3,727.01	1/4	3,534.23	1/4	3,223.26	1/4	2,865.58	1/4	2,506.79
1/2	1/2	1/2	1/2	1/2	4,266.81	1/2	4,093.17	1/2	3,911.63	1/2	3,723.01	1/2	3,530.22	1/2	3,215.83	1/2	2,858.12	1/2	2,499.31
3/4	3/4	3/4	3/4	3/4	4,263.30	3/4	4,089.47	3/4	3,907.78	3/4	3,719.01	3/4	3,526.20	3/4	3,208.40	3/4	2,850.65	3/4	2,491.83
9	9	9	9	9	4,259.78	9	4,085.75	9	3,903.91	9	3,715.00	9	3,522.18	9	3,200.97	9	2,843.19	9	2,484.36
1/4	1/4	1/4	1/4	1/4	4,256.26	1/4	4,082.03	1/4	3,900.05	1/4	3,710.98	1/4	3,518.17	1/4	3,193.54	1/4	2,835.72	1/4	2,476.88
1/2	1/2	1/2	1/2	1/2	4,252.74	1/2	4,078.31	1/2	3,896.18	1/2	3,706.97	1/2	3,514.15	1/2	3,186.11	1/2	2,828.26	1/2	2,469.40
3/4	3/4	3/4	3/4	3/4	4,249.21	3/4	4,074.60	3/4	3,892.32	3/4	3,702.96	3/4	3,510.13	3/4	3,178.68	3/4	2,820.79	3/4	2,461.92
10	10	10	10	10	4,245.65	10	4,070.87	10	3,888.44	10	3,698.94	10	3,506.11	10	3,171.25	10	2,813.33	10	2,454.44
1/4	1/4	1/4	1/4	1/4	4,242.08	1/4	4,067.14	1/4	3,884.56	1/4	3,694.92	1/4	3,502.10	1/4	3,163.82	1/4	2,805.86	1/4	2,446.96
1/2	1/2	1/2	1/2	1/2	4,238.51	1/2	4,063.41	1/2	3,880.69	1/2	3,690.90	1/2	3,498.08	1/2	3,156.38	1/2	2,798.39	1/2	2,439.48
3/4	3/4	3/4	3/4	3/4	4,234.94	3/4	4,059.68	3/4	3,876.81	3/4	3,686.89	3/4	3,494.06	3/4	3,148.95	3/4	2,790.93	3/4	2,432.00
11	11	11	11	11	4,231.36	11	4,055.93	11	3,872.92	11	3,682.87	11	3,489.62	11	3,141.52	11	2,783.46	11	2,424.52
1/4	1/4	1/4	1/4	1/4	4,227.78	1/4	4,052.19	1/4	3,869.03	1/4	3,678.85	1/4	3,485.17	1/4	3,134.08	1/4	2,776.00	1/4	2,417.04
1/2	1/2	1/2	1/2	1/2	4,224.20	1/2	4,048.45	1/2	3,865.14	1/2	3,674.84	1/2	3,480.72	1/2	3,126.65	1/2	2,768.53	1/2	2,409.56
3/4	3/4	3/4	3/4	3/4	4,220.62	3/4	4,044.71	3/4	3,861.25	3/4	3,670.82	3/4	3,476.28	3/4	3,119.21	3/4	2,761.06	3/4	2,402.08

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 ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

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



BARGE "KOLACHE"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,035.60	0	1,676.52	0	1,318.76	0	969.71	0	617.68	0	258.49	0		0		0		0	
1/4	2,028.12	1/4	1,669.04	1/4	1,311.34	1/4	962.56	1/4	610.20	1/4	251.01	1/4		1/4		1/4		1/4	
1/2	2,020.64	1/2	1,661.56	1/2	1,303.92	1/2	955.42	1/2	602.72	1/2	243.53	1/2		1/2		1/2		1/2	
3/4	2,013.16	3/4	1,654.08	3/4	1,296.50	3/4	948.27	3/4	595.23	3/4	236.04	3/4		3/4		3/4		3/4	
1	2,005.68	1	1,646.59	1	1,289.08	1	941.13	1	587.75	1	228.56	1		1		1		1	
1/4	1,998.20	1/4	1,639.11	1/4	1,281.66	1/4	933.98	1/4	580.27	1/4	221.08	1/4		1/4		1/4		1/4	
1/2	1,990.72	1/2	1,631.63	1/2	1,274.24	1/2	926.83	1/2	572.78	1/2	213.60	1/2		1/2		1/2		1/2	
3/4	1,983.24	3/4	1,624.15	3/4	1,266.82	3/4	919.69	3/4	565.30	3/4	206.11	3/4		3/4		3/4		3/4	
2	1,975.76	2	1,616.67	2	1,259.40	2	912.54	2	557.82	2	198.63	2		2		2		2	
1/4	1,968.28	1/4	1,609.19	1/4	1,251.99	1/4	905.39	1/4	550.33	1/4	191.15	1/4		1/4		1/4		1/4	
1/2	1,960.80	1/2	1,601.71	1/2	1,244.57	1/2	898.23	1/2	542.85	1/2	183.66	1/2		1/2		1/2		1/2	
3/4	1,953.32	3/4	1,594.23	3/4	1,237.15	3/4	891.08	3/4	535.37	3/4	176.18	3/4		3/4		3/4		3/4	
3	1,945.83	3	1,586.75	3	1,229.75	3	883.91	3	527.89	3	168.70	3		3		3		3	
1/4	1,938.35	1/4	1,579.27	1/4	1,222.35	1/4	876.74	1/4	520.40	1/4	161.21	1/4		1/4		1/4		1/4	
1/2	1,930.87	1/2	1,571.78	1/2	1,214.95	1/2	869.57	1/2	512.92	1/2	153.73	1/2		1/2		1/2		1/2	
3/4	1,923.39	3/4	1,564.30	3/4	1,207.54	3/4	862.40	3/4	505.44	3/4	146.24	3/4		3/4		3/4		3/4	
4	1,915.91	4	1,556.82	4	1,200.14	4	855.22	4	497.95	4	138.76	4		4		4		4	
1/4	1,908.43	1/4	1,549.34	1/4	1,192.74	1/4	848.05	1/4	490.47	1/4	131.27	1/4		1/4		1/4		1/4	
1/2	1,900.95	1/2	1,541.86	1/2	1,185.33	1/2	840.87	1/2	482.99	1/2	123.78	1/2		1/2		1/2		1/2	
3/4	1,893.47	3/4	1,534.38	3/4	1,177.93	3/4	833.70	3/4	475.50	3/4	116.29	3/4		3/4		3/4		3/4	
5	1,885.99	5	1,526.90	5	1,170.53	5	826.46	5	468.02	5	108.89	5		5		5		5	
1/4	1,878.51	1/4	1,519.42	1/4	1,163.14	1/4	819.23	1/4	460.54	1/4	101.48	1/4		1/4		1/4		1/4	
1/2	1,871.02	1/2	1,511.94	1/2	1,155.75	1/2	811.99	1/2	453.05	1/2	94.08	1/2		1/2		1/2		1/2	
3/4	1,863.54	3/4	1,504.46	3/4	1,148.35	3/4	804.76	3/4	445.57	3/4	86.67	3/4		3/4		3/4		3/4	
6	1,856.06	6	1,496.98	6	1,141.21	6	797.28	6	438.09	6	79.98	6		6		6		6	
1/4	1,848.58	1/4	1,489.51	1/4	1,134.06	1/4	789.79	1/4	430.61	1/4	73.29	1/4		1/4		1/4		1/4	
1/2	1,841.10	1/2	1,482.04	1/2	1,126.91	1/2	782.31	1/2	423.12	1/2	66.59	1/2		1/2		1/2		1/2	
3/4	1,833.62	3/4	1,474.56	3/4	1,119.77	3/4	774.83	3/4	415.64	3/4	59.90	3/4		3/4		3/4		3/4	
7	1,826.14	7	1,467.14	7	1,112.62	7	767.34	7	408.16	7	54.45	7		7		7		7	
1/4	1,818.66	1/4	1,459.72	1/4	1,105.48	1/4	759.86	1/4	400.67	1/4	48.99	1/4		1/4		1/4		1/4	
1/2	1,811.18	1/2	1,452.30	1/2	1,098.33	1/2	752.38	1/2	393.19	1/2	43.54	1/2		1/2		1/2		1/2	
3/4	1,803.70	3/4	1,444.88	3/4	1,091.19	3/4	744.90	3/4	385.71	3/4	38.08	3/4		3/4		3/4		3/4	
8	1,796.21	8	1,437.47	8	1,084.04	8	737.41	8	378.22	8	33.87	8		8		8		8	
1/4	1,788.73	1/4	1,430.05	1/4	1,076.89	1/4	729.93	1/4	370.74	1/4	29.65	1/4		1/4		1/4		1/4	
1/2	1,781.25	1/2	1,422.63	1/2	1,069.75	1/2	722.45	1/2	363.26	1/2	25.44	1/2		1/2		1/2		1/2	
3/4	1,773.77	3/4	1,415.21	3/4	1,062.60	3/4	714.96	3/4	355.77	3/4	21.22	3/4		3/4		3/4		3/4	
9	1,766.29	9	1,407.79	9	1,055.46	9	707.48	9	348.29	9		9		9		9		9	
1/4	1,758.81	1/4	1,400.37	1/4	1,048.31	1/4	700.00	1/4	340.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,751.33	1/2	1,392.95	1/2	1,041.17	1/2	692.51	1/2	333.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.85	3/4	1,385.53	3/4	1,034.02	3/4	685.03	3/4	325.84	3/4		3/4		3/4		3/4		3/4	
10	1,736.37	10	1,378.11	10	1,026.87	10	677.55	10	318.36	10		10		10		10		10	
1/4	1,728.89	1/4	1,370.69	1/4	1,019.73	1/4	670.06	1/4	310.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.40	1/2	1,363.27	1/2	1,012.58	1/2	662.58	1/2	303.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.92	3/4	1,355.85	3/4	1,005.44	3/4	655.10	3/4	295.91	3/4		3/4		3/4		3/4		3/4	
11	1,706.44	11	1,348.43	11	998.29	11	647.62	11	288.43	11		11		11		11		11	
1/4	1,698.96	1/4	1,341.01	1/4	991.15	1/4	640.13	1/4	280.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,691.48	1/2	1,333.60	1/2	984.00	1/2	632.65	1/2	273.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.00	3/4	1,326.18	3/4	976.85	3/4	625.17	3/4	265.98	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/04/2014 CL
CALCULATED: 02/05/2014 CL
PRINTED: 02/14/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2014

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