



BARGE "KELSO"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 5'-00"
 DIFF. = 3'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 250-09"

February 9, 2017

PRECISION MEASUREMENT
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BARGE "KELSO"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	3,100.23	0	2,863.84	0	2,622.89	0	2,381.48	0	2,140.06	0	1,898.62
1/4		1/4		1/4		1/4		1/4	3,096.11	1/4	2,858.83	1/4	2,617.86	1/4	2,376.45	1/4	2,135.03	1/4	1,893.59
1/2		1/2		1/2		1/2		1/2	3,091.99	1/2	2,853.81	1/2	2,612.83	1/2	2,371.42	1/2	2,130.01	1/2	1,888.56
3/4		3/4		3/4		3/4		3/4	3,087.88	3/4	2,848.80	3/4	2,607.80	3/4	2,366.39	3/4	2,124.98	3/4	1,883.53
1		1		1		1		1	3,083.28	1	2,843.78	1	2,602.77	1	2,361.36	1	2,119.95	1	1,878.50
1/4		1/4		1/4		1/4		1/4	3,078.68	1/4	2,838.77	1/4	2,597.74	1/4	2,356.33	1/4	2,114.92	1/4	1,873.47
1/2		1/2		1/2		1/2		1/2	3,074.08	1/2	2,833.76	1/2	2,592.71	1/2	2,351.30	1/2	2,109.89	1/2	1,868.43
3/4		3/4		3/4		3/4		3/4	3,069.48	3/4	2,828.74	3/4	2,587.68	3/4	2,346.27	3/4	2,104.86	3/4	1,863.40
2		2		2		2		2	3,064.47	2	2,823.73	2	2,582.65	2	2,341.24	2	2,099.83	2	1,858.37
1/4		1/4		1/4		1/4		1/4	3,059.45	1/4	2,818.71	1/4	2,577.62	1/4	2,336.21	1/4	2,094.80	1/4	1,853.34
1/2		1/2		1/2		1/2		1/2	3,054.43	1/2	2,813.70	1/2	2,572.59	1/2	2,331.18	1/2	2,089.77	1/2	1,848.31
3/4		3/4		3/4		3/4		3/4	3,049.42	3/4	2,808.68	3/4	2,567.56	3/4	2,326.15	3/4	2,084.74	3/4	1,843.27
3		3		3		3		3	3,044.40	3	2,803.67	3	2,562.53	3	2,321.12	3	2,079.71	3	1,838.24
1/4		1/4		1/4		1/4		1/4	3,039.38	1/4	2,798.66	1/4	2,557.50	1/4	2,316.09	1/4	2,074.68	1/4	1,833.21
1/2		1/2		1/2		1/2		1/2	3,034.37	1/2	2,793.64	1/2	2,552.48	1/2	2,311.06	1/2	2,069.65	1/2	1,828.18
3/4		3/4		3/4		3/4		3/4	3,029.35	3/4	2,788.63	3/4	2,547.45	3/4	2,306.03	3/4	2,064.62	3/4	1,823.15
4		4		4		4		4	3,024.33	4	2,783.61	4	2,542.42	4	2,301.01	4	2,059.59	4	1,818.11
1/4		1/4		1/4		1/4		1/4	3,019.32	1/4	2,778.60	1/4	2,537.39	1/4	2,295.98	1/4	2,054.56	1/4	1,813.08
1/2		1/2		1/2		1/2		1/2	3,014.30	1/2	2,773.58	1/2	2,532.36	1/2	2,290.95	1/2	2,049.54	1/2	1,808.05
3/4		3/4		3/4		3/4		3/4	3,009.28	3/4	2,768.57	3/4	2,527.33	3/4	2,285.92	3/4	2,044.51	3/4	1,803.02
5		5		5		5		5	3,004.27	5	2,763.55	5	2,522.30	5	2,280.89	5	2,039.48	5	1,797.99
1/4		1/4		1/4		1/4		1/4	2,999.25	1/4	2,758.54	1/4	2,517.27	1/4	2,275.86	1/4	2,034.45	1/4	1,792.95
1/2		1/2		1/2		1/2		1/2	2,994.23	1/2	2,753.53	1/2	2,512.24	1/2	2,270.83	1/2	2,029.42	1/2	1,787.92
3/4		3/4		3/4		3/4		3/4	2,989.22	3/4	2,748.51	3/4	2,507.21	3/4	2,265.80	3/4	2,024.39	3/4	1,782.89
6		6		6		6		6	2,984.20	6	2,743.50	6	2,502.18	6	2,260.77	6	2,019.36	6	1,777.86
1/4		1/4		1/4		1/4		1/4	2,979.18	1/4	2,738.48	1/4	2,497.15	1/4	2,255.74	1/4	2,014.33	1/4	1,772.83
1/2		1/2		1/2		1/2		1/2	2,974.17	1/2	2,733.47	1/2	2,492.12	1/2	2,250.71	1/2	2,009.30	1/2	1,767.80
3/4		3/4		3/4		3/4		3/4	2,969.15	3/4	2,728.45	3/4	2,487.09	3/4	2,245.68	3/4	2,004.27	3/4	1,762.76
7		7		7		7		7	2,964.13	7	2,723.44	7	2,482.06	7	2,240.65	7	1,999.24	7	1,757.73
1/4		1/4		1/4		1/4		1/4	2,959.12	1/4	2,718.42	1/4	2,477.03	1/4	2,235.62	1/4	1,994.21	1/4	1,752.70
1/2		1/2		1/2		1/2		1/2	2,954.10	1/2	2,713.40	1/2	2,472.00	1/2	2,230.59	1/2	1,989.18	1/2	1,747.67
3/4		3/4		3/4		3/4		3/4	2,949.08	3/4	2,708.39	3/4	2,466.98	3/4	2,225.56	3/4	1,984.15	3/4	1,742.64
8		8		8		8		8	2,944.07	8	2,703.36	8	2,461.95	8	2,220.53	8	1,979.12	8	1,737.60
1/4		1/4		1/4		1/4		1/4	2,939.06	1/4	2,698.33	1/4	2,456.92	1/4	2,215.51	1/4	1,974.09	1/4	1,732.57
1/2		1/2		1/2		1/2		1/2	2,934.04	1/2	2,693.30	1/2	2,451.89	1/2	2,210.48	1/2	1,969.06	1/2	1,727.54
3/4		3/4		3/4		3/4		3/4	2,929.03	3/4	2,688.27	3/4	2,446.86	3/4	2,205.45	3/4	1,964.04	3/4	1,722.51
9		9		9		9	3,139.59	9	2,924.01	9	2,683.24	9	2,441.83	9	2,200.42	9	1,959.01	9	1,717.48
1/4		1/4		1/4		1/4	3,136.91	1/4	2,919.00	1/4	2,678.21	1/4	2,436.80	1/4	2,195.39	1/4	1,953.98	1/4	1,712.44
1/2		1/2		1/2		1/2	3,134.23	1/2	2,913.98	1/2	2,673.18	1/2	2,431.77	1/2	2,190.36	1/2	1,948.95	1/2	1,707.41
3/4		3/4		3/4		3/4	3,131.55	3/4	2,908.97	3/4	2,668.15	3/4	2,426.74	3/4	2,185.33	3/4	1,943.92	3/4	1,702.38
10		10		10		10	3,128.39	10	2,903.96	10	2,663.12	10	2,421.71	10	2,180.30	10	1,938.88	10	1,697.35
1/4		1/4		1/4		1/4	3,125.23	1/4	2,898.94	1/4	2,658.09	1/4	2,416.68	1/4	2,175.27	1/4	1,933.85	1/4	1,692.32
1/2		1/2		1/2		1/2	3,122.07	1/2	2,893.93	1/2	2,653.06	1/2	2,411.65	1/2	2,170.24	1/2	1,928.82	1/2	1,687.28
3/4		3/4		3/4		3/4	3,118.91	3/4	2,888.91	3/4	2,648.03	3/4	2,406.62	3/4	2,165.21	3/4	1,923.78	3/4	1,682.25
11		11		11		11	3,115.27	11	2,883.90	11	2,643.00	11	2,401.59	11	2,160.18	11	1,918.75	11	1,677.22
1/4		1/4		1/4		1/4	3,111.63	1/4	2,878.88	1/4	2,637.97	1/4	2,396.56	1/4	2,155.15	1/4	1,913.72	1/4	1,672.19
1/2		1/2		1/2		1/2	3,107.99	1/2	2,873.87	1/2	2,632.95	1/2	2,391.53	1/2	2,150.12	1/2	1,908.69	1/2	1,667.16
3/4		3/4		3/4		3/4	3,104.35	3/4	2,868.86	3/4	2,627.92	3/4	2,386.50	3/4	2,145.09	3/4	1,903.66	3/4	1,662.13

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KELSO"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	1,657.09	0	1,415.56	0	1,174.03	0	932.50	0	690.97	0	449.44	0	216.09	0	11.16	0		0	
1/4	1,652.06	1/4	1,410.53	1/4	1,169.00	1/4	927.47	1/4	685.94	1/4	444.41	1/4	211.43	1/4	8.96	1/4		1/4	
1/2	1,647.03	1/2	1,405.50	1/2	1,163.97	1/2	922.44	1/2	680.90	1/2	439.37	1/2	206.77	1/2	6.76	1/2		1/2	
3/4	1,642.00	3/4	1,400.47	3/4	1,158.94	3/4	917.40	3/4	675.87	3/4	434.34	3/4	202.11	3/4	4.56	3/4		3/4	
1	1,636.97	1	1,395.43	1	1,153.90	1	912.37	1	670.84	1	429.32	1	197.49	1		1		1	
1/4	1,631.93	1/4	1,390.40	1/4	1,148.87	1/4	907.34	1/4	665.81	1/4	424.29	1/4	192.87	1/4		1/4		1/4	
1/2	1,626.90	1/2	1,385.37	1/2	1,143.84	1/2	902.31	1/2	660.78	1/2	419.26	1/2	188.25	1/2		1/2		1/2	
3/4	1,621.87	3/4	1,380.34	3/4	1,138.81	3/4	897.28	3/4	655.75	3/4	414.24	3/4	183.63	3/4		3/4		3/4	
2	1,616.84	2	1,375.31	2	1,133.78	2	892.24	2	650.71	2	409.25	2	179.06	2		2		2	
1/4	1,611.81	1/4	1,370.28	1/4	1,128.74	1/4	887.21	1/4	645.68	1/4	404.26	1/4	174.48	1/4		1/4		1/4	
1/2	1,606.77	1/2	1,365.24	1/2	1,123.71	1/2	882.18	1/2	640.65	1/2	399.28	1/2	169.91	1/2		1/2		1/2	
3/4	1,601.74	3/4	1,360.21	3/4	1,118.68	3/4	877.15	3/4	635.62	3/4	394.29	3/4	165.33	3/4		3/4		3/4	
3	1,596.71	3	1,355.18	3	1,113.65	3	872.12	3	630.59	3	389.31	3	160.80	3		3		3	
1/4	1,591.68	1/4	1,350.15	1/4	1,108.62	1/4	867.09	1/4	625.55	1/4	384.33	1/4	156.27	1/4		1/4		1/4	
1/2	1,586.65	1/2	1,345.12	1/2	1,103.58	1/2	862.05	1/2	620.52	1/2	379.34	1/2	151.73	1/2		1/2		1/2	
3/4	1,581.61	3/4	1,340.08	3/4	1,098.55	3/4	857.02	3/4	615.49	3/4	374.36	3/4	147.20	3/4		3/4		3/4	
4	1,576.58	4	1,335.05	4	1,093.52	4	851.99	4	610.46	4	369.41	4	142.71	4		4		4	
1/4	1,571.55	1/4	1,330.02	1/4	1,088.49	1/4	846.96	1/4	605.43	1/4	364.46	1/4	138.22	1/4		1/4		1/4	
1/2	1,566.52	1/2	1,324.99	1/2	1,083.46	1/2	841.93	1/2	600.39	1/2	359.51	1/2	133.73	1/2		1/2		1/2	
3/4	1,561.49	3/4	1,319.96	3/4	1,078.42	3/4	836.89	3/4	595.36	3/4	354.56	3/4	129.24	3/4		3/4		3/4	
5	1,556.46	5	1,314.92	5	1,073.39	5	831.86	5	590.33	5	349.66	5	124.80	5		5		5	
1/4	1,551.42	1/4	1,309.89	1/4	1,068.36	1/4	826.83	1/4	585.30	1/4	344.75	1/4	120.35	1/4		1/4		1/4	
1/2	1,546.39	1/2	1,304.86	1/2	1,063.33	1/2	821.80	1/2	580.27	1/2	339.84	1/2	115.90	1/2		1/2		1/2	
3/4	1,541.36	3/4	1,299.83	3/4	1,058.30	3/4	816.77	3/4	575.23	3/4	334.94	3/4	111.45	3/4		3/4		3/4	
6	1,536.33	6	1,294.80	6	1,053.27	6	811.73	6	570.20	6	330.07	6	107.05	6		6		6	
1/4	1,531.30	1/4	1,289.76	1/4	1,048.23	1/4	806.70	1/4	565.17	1/4	325.21	1/4	102.65	1/4		1/4		1/4	
1/2	1,526.26	1/2	1,284.73	1/2	1,043.20	1/2	801.67	1/2	560.14	1/2	320.34	1/2	98.24	1/2		1/2		1/2	
3/4	1,521.23	3/4	1,279.70	3/4	1,038.17	3/4	796.64	3/4	555.11	3/4	315.48	3/4	93.84	3/4		3/4		3/4	
7	1,516.20	7	1,274.67	7	1,033.14	7	791.61	7	550.08	7	310.66	7	89.48	7		7		7	
1/4	1,511.17	1/4	1,269.64	1/4	1,028.11	1/4	786.57	1/4	545.04	1/4	305.84	1/4	85.12	1/4		1/4		1/4	
1/2	1,506.14	1/2	1,264.61	1/2	1,023.07	1/2	781.54	1/2	540.01	1/2	301.02	1/2	80.76	1/2		1/2		1/2	
3/4	1,501.10	3/4	1,259.57	3/4	1,018.04	3/4	776.51	3/4	534.98	3/4	296.20	3/4	76.40	3/4		3/4		3/4	
8	1,496.07	8	1,254.54	8	1,013.01	8	771.48	8	529.95	8	291.42	8	72.08	8		8		8	
1/4	1,491.04	1/4	1,249.51	1/4	1,007.98	1/4	766.45	1/4	524.92	1/4	286.64	1/4	67.76	1/4		1/4		1/4	
1/2	1,486.01	1/2	1,244.48	1/2	1,002.95	1/2	761.42	1/2	519.88	1/2	281.86	1/2	63.44	1/2		1/2		1/2	
3/4	1,480.98	3/4	1,239.45	3/4	997.91	3/4	756.38	3/4	514.85	3/4	277.09	3/4	59.12	3/4		3/4		3/4	
9	1,475.94	9	1,234.41	9	992.88	9	751.35	9	509.82	9	272.35	9	54.86	9		9		9	
1/4	1,470.91	1/4	1,229.38	1/4	987.85	1/4	746.32	1/4	504.79	1/4	267.62	1/4	50.60	1/4		1/4		1/4	
1/2	1,465.88	1/2	1,224.35	1/2	982.82	1/2	741.29	1/2	499.76	1/2	262.88	1/2	46.34	1/2		1/2		1/2	
3/4	1,460.85	3/4	1,219.32	3/4	977.79	3/4	736.26	3/4	494.72	3/4	258.15	3/4	42.08	3/4		3/4		3/4	
10	1,455.82	10	1,214.29	10	972.75	10	731.22	10	489.69	10	253.45	10	38.06	10		10		10	
1/4	1,450.79	1/4	1,209.25	1/4	967.72	1/4	726.19	1/4	484.66	1/4	248.76	1/4	34.04	1/4		1/4		1/4	
1/2	1,445.75	1/2	1,204.22	1/2	962.69	1/2	721.16	1/2	479.63	1/2	244.07	1/2	30.03	1/2		1/2		1/2	
3/4	1,440.72	3/4	1,199.19	3/4	957.66	3/4	716.13	3/4	474.60	3/4	239.38	3/4	26.01	3/4		3/4		3/4	
11	1,435.69	11	1,194.16	11	952.63	11	711.10	11	469.56	11	234.72	11	22.85	11		11		11	
1/4	1,430.66	1/4	1,189.13	1/4	947.60	1/4	706.06	1/4	464.53	1/4	230.07	1/4	19.69	1/4		1/4		1/4	
1/2	1,425.63	1/2	1,184.09	1/2	942.56	1/2	701.03	1/2	459.50	1/2	225.41	1/2	16.53	1/2		1/2		1/2	
3/4	1,420.59	3/4	1,179.06	3/4	937.53	3/4	696.00	3/4	454.47	3/4	220.75	3/4	13.37	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

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



BARGE "KELSO"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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	3,113.23	0	2,880.48	0	2,639.58	0	2,398.16	0	2,156.75	0	1,915.35
1/4		1/4		1/4		1/4		1/4	3,109.59	1/4	2,875.47	1/4	2,634.55	1/4	2,393.13	1/4	2,151.72	1/4	1,910.32
1/2		1/2		1/2		1/2		1/2	3,105.95	1/2	2,872.56	1/2	2,629.52	1/2	2,388.11	1/2	2,146.69	1/2	1,905.29
3/4		3/4		3/4		3/4		3/4	3,101.83	3/4	2,865.44	3/4	2,624.49	3/4	2,383.08	3/4	2,141.66	3/4	1,900.25
1		1		1		1		1	3,097.71	1	2,860.43	1	2,619.46	1	2,378.05	1	2,136.64	1	1,895.22
1/4		1/4		1/4		1/4		1/4	3,093.59	1/4	2,855.41	1/4	2,614.43	1/4	2,373.02	1/4	2,131.61	1/4	1,890.19
1/2		1/2		1/2		1/2		1/2	3,089.48	1/2	2,850.40	1/2	2,609.40	1/2	2,367.99	1/2	2,126.58	1/2	1,885.16
3/4		3/4		3/4		3/4		3/4	3,084.88	3/4	2,845.38	3/4	2,604.37	3/4	2,362.96	3/4	2,121.55	3/4	1,880.13
2		2		2		2		2	3,080.28	2	2,840.37	2	2,599.34	2	2,357.93	2	2,116.52	2	1,875.09
1/4		1/4		1/4		1/4		1/4	3,075.68	1/4	2,835.36	1/4	2,594.31	1/4	2,352.90	1/4	2,111.49	1/4	1,870.06
1/2		1/2		1/2		1/2		1/2	3,071.09	1/2	2,830.34	1/2	2,589.28	1/2	2,347.87	1/2	2,106.46	1/2	1,865.03
3/4		3/4		3/4		3/4		3/4	3,066.07	3/4	2,825.33	3/4	2,584.25	3/4	2,342.84	3/4	2,101.43	3/4	1,860.00
3		3		3		3		3	3,061.05	3	2,820.31	3	2,579.22	3	2,337.81	3	2,096.40	3	1,854.97
1/4		1/4		1/4		1/4		1/4	3,056.03	1/4	2,815.30	1/4	2,574.19	1/4	2,332.78	1/4	2,091.37	1/4	1,849.93
1/2		1/2		1/2		1/2		1/2	3,051.02	1/2	2,810.28	1/2	2,569.16	1/2	2,327.75	1/2	2,086.34	1/2	1,844.90
3/4		3/4		3/4		3/4		3/4	3,046.00	3/4	2,805.27	3/4	2,564.13	3/4	2,322.72	3/4	2,081.31	3/4	1,839.87
4		4		4		4		4	3,040.98	4	2,800.26	4	2,559.10	4	2,317.69	4	2,076.28	4	1,834.84
1/4		1/4		1/4		1/4		1/4	3,035.97	1/4	2,795.24	1/4	2,554.08	1/4	2,312.66	1/4	2,071.25	1/4	1,829.81
1/2		1/2		1/2		1/2		1/2	3,030.95	1/2	2,790.23	1/2	2,549.05	1/2	2,307.63	1/2	2,066.22	1/2	1,824.77
3/4		3/4		3/4		3/4		3/4	3,025.93	3/4	2,785.21	3/4	2,544.02	3/4	2,302.61	3/4	2,061.19	3/4	1,819.74
5		5		5		5		5	3,020.92	5	2,780.20	5	2,538.99	5	2,297.58	5	2,056.16	5	1,814.71
1/4		1/4		1/4		1/4		1/4	3,015.90	1/4	2,775.18	1/4	2,533.96	1/4	2,292.55	1/4	2,051.14	1/4	1,809.68
1/2		1/2		1/2		1/2		1/2	3,010.88	1/2	2,770.17	1/2	2,528.93	1/2	2,287.52	1/2	2,046.11	1/2	1,804.65
3/4		3/4		3/4		3/4		3/4	3,005.87	3/4	2,765.16	3/4	2,523.90	3/4	2,282.49	3/4	2,041.08	3/4	1,799.61
6		6		6		6		6	3,000.85	6	2,760.14	6	2,518.87	6	2,277.46	6	2,036.05	6	1,794.58
1/4		1/4		1/4		1/4		1/4	2,995.83	1/4	2,755.13	1/4	2,513.84	1/4	2,272.43	1/4	2,031.02	1/4	1,789.55
1/2		1/2		1/2		1/2		1/2	2,990.82	1/2	2,750.11	1/2	2,508.81	1/2	2,267.40	1/2	2,025.99	1/2	1,784.52
3/4		3/4		3/4		3/4		3/4	2,985.80	3/4	2,745.10	3/4	2,503.78	3/4	2,262.37	3/4	2,020.96	3/4	1,779.49
7		7		7		7		7	2,980.78	7	2,740.08	7	2,498.75	7	2,257.34	7	2,015.93	7	1,774.45
1/4		1/4		1/4		1/4		1/4	2,975.77	1/4	2,735.07	1/4	2,493.72	1/4	2,252.31	1/4	2,010.90	1/4	1,769.42
1/2		1/2		1/2		1/2		1/2	2,970.75	1/2	2,730.06	1/2	2,488.69	1/2	2,247.28	1/2	2,005.87	1/2	1,764.39
3/4		3/4		3/4		3/4		3/4	2,965.73	3/4	2,725.04	3/4	2,483.66	3/4	2,242.25	3/4	2,000.84	3/4	1,759.36
8		8		8		8		8	2,960.72	8	2,720.02	8	2,478.63	8	2,237.22	8	1,995.81	8	1,754.33
1/4		1/4		1/4		1/4		1/4	2,955.70	1/4	2,715.00	1/4	2,473.60	1/4	2,232.19	1/4	1,990.78	1/4	1,749.29
1/2		1/2		1/2		1/2		1/2	2,950.68	1/2	2,709.99	1/2	2,468.58	1/2	2,227.16	1/2	1,985.75	1/2	1,744.26
3/4		3/4		3/4		3/4		3/4	2,945.67	3/4	2,704.96	3/4	2,463.55	3/4	2,222.13	3/4	1,980.72	3/4	1,739.23
9		9		9		9		9	2,940.66	9	2,699.93	9	2,458.52	9	2,217.11	9	1,975.69	9	1,734.20
1/4		1/4		1/4		1/4		1/4	2,935.64	1/4	2,694.90	1/4	2,453.49	1/4	2,212.08	1/4	1,970.66	1/4	1,729.17
1/2		1/2		1/2		1/2		1/2	2,930.63	1/2	2,689.87	1/2	2,448.46	1/2	2,207.05	1/2	1,965.64	1/2	1,724.13
3/4		3/4		3/4		3/4	3,141.19	3/4	2,925.61	3/4	2,684.84	3/4	2,443.43	3/4	2,202.02	3/4	1,960.61	3/4	1,719.10
10		10		10		10	3,138.51	10	2,920.60	10	2,679.81	10	2,438.40	10	2,196.99	10	1,955.58	10	1,714.07
1/4		1/4		1/4		1/4	3,135.83	1/4	2,915.58	1/4	2,674.78	1/4	2,433.37	1/4	2,191.96	1/4	1,950.55	1/4	1,709.04
1/2		1/2		1/2		1/2	3,133.15	1/2	2,910.57	1/2	2,669.75	1/2	2,428.34	1/2	2,186.93	1/2	1,945.52	1/2	1,704.01
3/4		3/4		3/4		3/4	3,129.99	3/4	2,905.56	3/4	2,664.72	3/4	2,423.31	3/4	2,181.90	3/4	1,940.49	3/4	1,698.97
11		11		11		11	3,126.83	11	2,900.54	11	2,659.69	11	2,418.28	11	2,176.87	11	1,935.47	11	1,693.94
1/4		1/4		1/4		1/4	3,123.67	1/4	2,895.53	1/4	2,654.66	1/4	2,413.25	1/4	2,171.84	1/4	1,930.44	1/4	1,688.91
1/2		1/2		1/2		1/2	3,120.51	1/2	2,890.51	1/2	2,649.63	1/2	2,408.22	1/2	2,166.81	1/2	1,925.41	1/2	1,683.88
3/4		3/4		3/4		3/4	3,116.87	3/4	2,885.50	3/4	2,644.60	3/4	2,403.19	3/4	2,161.78	3/4	1,920.38	3/4	1,678.85

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 ULLAGE GAUGES TAKEN TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KELSO"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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	1,673.81	0	1,432.28	0	1,190.74	0	949.21	0	707.67	0	466.13	0	230.14	0	19.69	0		0	
1/4	1,668.78	1/4	1,427.25	1/4	1,185.71	1/4	944.17	1/4	702.64	1/4	461.10	1/4	225.45	1/4	16.53	1/4		1/4	
1/2	1,663.75	1/2	1,422.21	1/2	1,180.68	1/2	939.14	1/2	697.61	1/2	456.07	1/2	220.76	1/2	13.37	1/2		1/2	
3/4	1,658.72	3/4	1,417.18	3/4	1,175.65	3/4	934.11	3/4	692.57	3/4	451.04	3/4	216.09	3/4	11.17	3/4		3/4	
1	1,653.69	1	1,412.15	1	1,170.61	1	929.08	1	687.54	1	446.01	1	211.43	1	8.96	1		1	
1/4	1,648.65	1/4	1,407.12	1/4	1,165.58	1/4	924.05	1/4	682.51	1/4	440.97	1/4	206.77	1/4	6.76	1/4		1/4	
1/2	1,643.62	1/2	1,402.09	1/2	1,160.55	1/2	919.01	1/2	677.48	1/2	435.94	1/2	202.11	1/2	4.56	1/2		1/2	
3/4	1,638.59	3/4	1,397.05	3/4	1,155.52	3/4	913.98	3/4	672.45	3/4	430.91	3/4	197.49	3/4		3/4		3/4	
2	1,633.56	2	1,392.02	2	1,150.49	2	908.95	2	667.41	2	425.88	2	192.87	2		2		2	
1/4	1,628.53	1/4	1,386.99	1/4	1,145.45	1/4	903.92	1/4	662.38	1/4	420.85	1/4	188.25	1/4		1/4		1/4	
1/2	1,623.49	1/2	1,381.96	1/2	1,140.42	1/2	898.89	1/2	657.35	1/2	415.82	1/2	183.64	1/2		1/2		1/2	
3/4	1,618.46	3/4	1,376.93	3/4	1,135.39	3/4	893.85	3/4	652.32	3/4	410.79	3/4	179.06	3/4		3/4		3/4	
3	1,613.43	3	1,371.89	3	1,130.36	3	888.82	3	647.29	3	405.76	3	174.48	3		3		3	
1/4	1,608.40	1/4	1,366.86	1/4	1,125.33	1/4	883.79	1/4	642.25	1/4	400.74	1/4	169.91	1/4		1/4		1/4	
1/2	1,603.37	1/2	1,361.83	1/2	1,120.29	1/2	878.76	1/2	637.22	1/2	395.71	1/2	165.33	1/2		1/2		1/2	
3/4	1,598.33	3/4	1,356.80	3/4	1,115.26	3/4	873.73	3/4	632.19	3/4	390.69	3/4	160.80	3/4		3/4		3/4	
4	1,593.30	4	1,351.77	4	1,110.23	4	868.69	4	627.16	4	385.67	4	156.27	4		4		4	
1/4	1,588.27	1/4	1,346.73	1/4	1,105.20	1/4	863.66	1/4	622.13	1/4	380.64	1/4	151.73	1/4		1/4		1/4	
1/2	1,583.24	1/2	1,341.70	1/2	1,100.17	1/2	858.63	1/2	617.09	1/2	375.62	1/2	147.20	1/2		1/2		1/2	
3/4	1,578.21	3/4	1,336.67	3/4	1,095.13	3/4	853.60	3/4	612.06	3/4	370.63	3/4	142.71	3/4		3/4		3/4	
5	1,573.17	5	1,331.64	5	1,090.10	5	848.57	5	607.03	5	365.64	5	138.22	5		5		5	
1/4	1,568.14	1/4	1,326.61	1/4	1,085.07	1/4	843.53	1/4	602.00	1/4	360.65	1/4	133.73	1/4		1/4		1/4	
1/2	1,563.11	1/2	1,321.57	1/2	1,080.04	1/2	838.50	1/2	596.97	1/2	355.66	1/2	129.24	1/2		1/2		1/2	
3/4	1,558.08	3/4	1,316.54	3/4	1,075.01	3/4	833.47	3/4	591.93	3/4	350.72	3/4	124.80	3/4		3/4		3/4	
6	1,553.05	6	1,311.51	6	1,069.97	6	828.44	6	586.90	6	345.77	6	120.35	6		6		6	
1/4	1,548.01	1/4	1,306.48	1/4	1,064.94	1/4	823.41	1/4	581.87	1/4	340.82	1/4	115.90	1/4		1/4		1/4	
1/2	1,542.98	1/2	1,301.45	1/2	1,059.91	1/2	818.37	1/2	576.84	1/2	335.88	1/2	111.46	1/2		1/2		1/2	
3/4	1,537.95	3/4	1,296.41	3/4	1,054.88	3/4	813.34	3/4	571.81	3/4	330.97	3/4	107.05	3/4		3/4		3/4	
7	1,532.92	7	1,291.38	7	1,049.85	7	808.31	7	566.77	7	326.07	7	102.65	7		7		7	
1/4	1,527.89	1/4	1,286.35	1/4	1,044.81	1/4	803.28	1/4	561.74	1/4	321.17	1/4	98.24	1/4		1/4		1/4	
1/2	1,522.85	1/2	1,281.32	1/2	1,039.78	1/2	798.25	1/2	556.71	1/2	316.26	1/2	93.84	1/2		1/2		1/2	
3/4	1,517.82	3/4	1,276.29	3/4	1,034.75	3/4	793.21	3/4	551.68	3/4	311.40	3/4	89.48	3/4		3/4		3/4	
8	1,512.79	8	1,271.25	8	1,029.72	8	788.18	8	546.65	8	306.54	8	85.12	8		8		8	
1/4	1,507.76	1/4	1,266.22	1/4	1,024.69	1/4	783.15	1/4	541.61	1/4	301.68	1/4	80.76	1/4		1/4		1/4	
1/2	1,502.73	1/2	1,261.19	1/2	1,019.65	1/2	778.12	1/2	536.58	1/2	296.82	1/2	76.40	1/2		1/2		1/2	
3/4	1,497.69	3/4	1,256.16	3/4	1,014.62	3/4	773.09	3/4	531.55	3/4	292.00	3/4	72.08	3/4		3/4		3/4	
9	1,492.66	9	1,251.13	9	1,009.59	9	768.05	9	526.52	9	287.18	9	67.76	9		9		9	
1/4	1,487.63	1/4	1,246.09	1/4	1,004.56	1/4	763.02	1/4	521.49	1/4	282.36	1/4	63.44	1/4		1/4		1/4	
1/2	1,482.60	1/2	1,241.06	1/2	999.53	1/2	757.99	1/2	516.45	1/2	277.55	1/2	59.12	1/2		1/2		1/2	
3/4	1,477.57	3/4	1,236.03	3/4	994.49	3/4	752.96	3/4	511.42	3/4	272.77	3/4	54.86	3/4		3/4		3/4	
10	1,472.53	10	1,231.00	10	989.46	10	747.93	10	506.39	10	268.00	10	50.60	10		10		10	
1/4	1,467.50	1/4	1,225.97	1/4	984.43	1/4	742.89	1/4	501.36	1/4	263.22	1/4	46.34	1/4		1/4		1/4	
1/2	1,462.47	1/2	1,220.93	1/2	979.40	1/2	737.86	1/2	496.33	1/2	258.45	1/2	42.08	1/2		1/2		1/2	
3/4	1,457.44	3/4	1,215.90	3/4	974.37	3/4	732.83	3/4	491.29	3/4	253.72	3/4	38.06	3/4		3/4		3/4	
11	1,452.41	11	1,210.87	11	969.33	11	727.80	11	486.26	11	248.98	11	34.04	11		11		11	
1/4	1,447.37	1/4	1,205.84	1/4	964.30	1/4	722.77	1/4	481.23	1/4	244.25	1/4	30.03	1/4		1/4		1/4	
1/2	1,442.34	1/2	1,200.81	1/2	959.27	1/2	717.73	1/2	476.20	1/2	239.52	1/2	26.01	1/2		1/2		1/2	
3/4	1,437.31	3/4	1,195.77	3/4	954.24	3/4	712.70	3/4	471.17	3/4	234.83	3/4	22.85	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "KELSO"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	3,569.57	0	3,300.95	0	3,027.18	0	2,752.94	0	2,478.70	0	2,204.44
1/4		1/4		1/4		1/4		1/4	3,564.89	1/4	3,295.26	1/4	3,021.46	1/4	2,747.22	1/4	2,472.99	1/4	2,198.72
1/2		1/2		1/2		1/2		1/2	3,560.21	1/2	3,289.56	1/2	3,015.75	1/2	2,741.51	1/2	2,467.27	1/2	2,193.01
3/4		3/4		3/4		3/4		3/4	3,555.53	3/4	3,283.86	3/4	3,010.04	3/4	2,735.80	3/4	2,461.56	3/4	2,187.29
1		1		1		1		1	3,550.31	1	3,278.16	1	3,004.32	1	2,730.08	1	2,455.85	1	2,181.58
1/4		1/4		1/4		1/4		1/4	3,545.08	1/4	3,272.46	1/4	2,998.61	1/4	2,724.37	1/4	2,450.13	1/4	2,175.86
1/2		1/2		1/2		1/2		1/2	3,539.86	1/2	3,266.76	1/2	2,992.90	1/2	2,718.66	1/2	2,444.42	1/2	2,170.15
3/4		3/4		3/4		3/4		3/4	3,534.64	3/4	3,261.07	3/4	2,987.18	3/4	2,712.94	3/4	2,438.71	3/4	2,164.43
2		2		2		2		2	3,528.94	2	3,255.37	2	2,981.47	2	2,707.23	2	2,432.99	2	2,158.71
1/4		1/4		1/4		1/4		1/4	3,523.23	1/4	3,249.67	1/4	2,975.76	1/4	2,701.52	1/4	2,427.28	1/4	2,153.00
1/2		1/2		1/2		1/2		1/2	3,517.53	1/2	3,243.97	1/2	2,970.04	1/2	2,695.80	1/2	2,421.57	1/2	2,147.28
3/4		3/4		3/4		3/4		3/4	3,511.83	3/4	3,238.27	3/4	2,964.33	3/4	2,690.09	3/4	2,415.85	3/4	2,141.57
3		3		3		3		3	3,506.13	3	3,232.58	3	2,958.62	3	2,684.38	3	2,410.14	3	2,135.85
1/4		1/4		1/4		1/4		1/4	3,500.43	1/4	3,226.88	1/4	2,952.90	1/4	2,678.66	1/4	2,404.43	1/4	2,130.13
1/2		1/2		1/2		1/2		1/2	3,494.73	1/2	3,221.18	1/2	2,947.19	1/2	2,672.95	1/2	2,398.71	1/2	2,124.42
3/4		3/4		3/4		3/4		3/4	3,489.03	3/4	3,215.48	3/4	2,941.48	3/4	2,667.24	3/4	2,393.00	3/4	2,118.70
4		4		4		4		4	3,483.33	4	3,209.78	4	2,935.76	4	2,661.52	4	2,387.29	4	2,112.99
1/4		1/4		1/4		1/4		1/4	3,477.63	1/4	3,204.08	1/4	2,930.05	1/4	2,655.81	1/4	2,381.57	1/4	2,107.27
1/2		1/2		1/2		1/2		1/2	3,471.93	1/2	3,198.39	1/2	2,924.34	1/2	2,650.10	1/2	2,375.86	1/2	2,101.56
3/4		3/4		3/4		3/4		3/4	3,466.23	3/4	3,192.69	3/4	2,918.62	3/4	2,644.38	3/4	2,370.15	3/4	2,095.84
5		5		5		5		5	3,460.53	5	3,186.99	5	2,912.91	5	2,638.67	5	2,364.43	5	2,090.12
1/4		1/4		1/4		1/4		1/4	3,454.83	1/4	3,181.29	1/4	2,907.20	1/4	2,632.96	1/4	2,358.72	1/4	2,084.41
1/2		1/2		1/2		1/2		1/2	3,449.13	1/2	3,175.59	1/2	2,901.48	1/2	2,627.24	1/2	2,353.01	1/2	2,078.69
3/4		3/4		3/4		3/4		3/4	3,443.42	3/4	3,169.89	3/4	2,895.77	3/4	2,621.53	3/4	2,347.29	3/4	2,072.98
6		6		6		6		6	3,437.72	6	3,164.20	6	2,890.06	6	2,615.82	6	2,341.58	6	2,067.26
1/4		1/4		1/4		1/4		1/4	3,432.02	1/4	3,158.50	1/4	2,884.34	1/4	2,610.11	1/4	2,335.87	1/4	2,061.54
1/2		1/2		1/2		1/2		1/2	3,426.32	1/2	3,152.80	1/2	2,878.63	1/2	2,604.39	1/2	2,330.15	1/2	2,055.83
3/4		3/4		3/4		3/4		3/4	3,420.62	3/4	3,147.10	3/4	2,872.92	3/4	2,598.68	3/4	2,324.44	3/4	2,050.11
7		7		7		7		7	3,414.92	7	3,141.40	7	2,867.20	7	2,592.97	7	2,318.73	7	2,044.40
1/4		1/4		1/4		1/4		1/4	3,409.22	1/4	3,135.70	1/4	2,861.49	1/4	2,587.25	1/4	2,313.01	1/4	2,038.68
1/2		1/2		1/2		1/2		1/2	3,403.52	1/2	3,130.00	1/2	2,855.78	1/2	2,581.54	1/2	2,307.30	1/2	2,032.97
3/4		3/4		3/4		3/4		3/4	3,397.82	3/4	3,124.30	3/4	2,850.06	3/4	2,575.83	3/4	2,301.59	3/4	2,027.25
8		8		8		8		8	3,392.12	8	3,118.59	8	2,844.35	8	2,570.11	8	2,295.87	8	2,021.53
1/4		1/4		1/4		1/4		1/4	3,386.43	1/4	3,112.88	1/4	2,838.64	1/4	2,564.40	1/4	2,290.16	1/4	2,015.82
1/2		1/2		1/2		1/2		1/2	3,380.73	1/2	3,107.16	1/2	2,832.92	1/2	2,558.69	1/2	2,284.45	1/2	2,010.10
3/4		3/4		3/4		3/4		3/4	3,375.03	3/4	3,101.45	3/4	2,827.21	3/4	2,552.97	3/4	2,278.73	3/4	2,004.39
9		9		9		9	3,614.30	9	3,369.33	9	3,095.74	9	2,821.50	9	2,547.26	9	2,273.02	9	1,998.67
1/4		1/4		1/4		1/4	3,611.25	1/4	3,363.63	1/4	3,090.02	1/4	2,815.78	1/4	2,541.55	1/4	2,267.31	1/4	1,992.96
1/2		1/2		1/2		1/2	3,608.21	1/2	3,357.94	1/2	3,084.31	1/2	2,810.07	1/2	2,535.83	1/2	2,261.59	1/2	1,987.24
3/4		3/4		3/4		3/4	3,605.16	3/4	3,352.24	3/4	3,078.60	3/4	2,804.36	3/4	2,530.12	3/4	2,255.88	3/4	1,981.52
10		10		10		10	3,601.57	10	3,346.54	10	3,072.88	10	2,798.64	10	2,524.41	10	2,250.17	10	1,975.81
1/4		1/4		1/4		1/4	3,597.98	1/4	3,340.84	1/4	3,067.17	1/4	2,792.93	1/4	2,518.69	1/4	2,244.45	1/4	1,970.09
1/2		1/2		1/2		1/2	3,594.38	1/2	3,335.14	1/2	3,061.46	1/2	2,787.22	1/2	2,512.98	1/2	2,238.73	1/2	1,964.38
3/4		3/4		3/4		3/4	3,590.79	3/4	3,329.44	3/4	3,055.74	3/4	2,781.50	3/4	2,507.27	3/4	2,233.02	3/4	1,958.66
11		11		11		11	3,586.66	11	3,323.75	11	3,050.03	11	2,775.79	11	2,501.55	11	2,227.30	11	1,952.94
1/4		1/4		1/4		1/4	3,582.52	1/4	3,318.05	1/4	3,044.32	1/4	2,770.08	1/4	2,495.84	1/4	2,221.59	1/4	1,947.23
1/2		1/2		1/2		1/2	3,578.38	1/2	3,312.35	1/2	3,038.60	1/2	2,764.36	1/2	2,490.13	1/2	2,215.87	1/2	1,941.51
3/4		3/4		3/4		3/4	3,574.25	3/4	3,306.65	3/4	3,032.89	3/4	2,758.65	3/4	2,484.41	3/4	2,210.16	3/4	1,935.80

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KELSO"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	1,930.08	0	1,655.72	0	1,381.36	0	1,107.01	0	832.65	0	558.60	0	294.72	0	28.30	0		0	
1/4	1,924.37	1/4	1,650.01	1/4	1,375.65	1/4	1,101.29	1/4	826.93	1/4	553.10	1/4	289.01	1/4	24.79	1/4		1/4	
1/2	1,918.65	1/2	1,644.29	1/2	1,369.93	1/2	1,095.57	1/2	821.22	1/2	547.59	1/2	283.29	1/2	21.28	1/2		1/2	
3/4	1,912.93	3/4	1,638.58	3/4	1,364.22	3/4	1,089.86	3/4	815.50	3/4	542.08	3/4	277.58	3/4	17.77	3/4		3/4	
1	1,907.22	1	1,632.86	1	1,358.50	1	1,084.14	1	809.78	1	536.58	1	271.86	1		1		1	
1/4	1,901.50	1/4	1,627.14	1/4	1,352.79	1/4	1,078.43	1/4	804.07	1/4	531.07	1/4	266.15	1/4		1/4		1/4	
1/2	1,895.79	1/2	1,621.43	1/2	1,347.07	1/2	1,072.71	1/2	798.35	1/2	525.57	1/2	260.43	1/2		1/2		1/2	
3/4	1,890.07	3/4	1,615.71	3/4	1,341.35	3/4	1,067.00	3/4	792.64	3/4	520.06	3/4	254.71	3/4		3/4		3/4	
2	1,884.36	2	1,610.00	2	1,335.64	2	1,061.28	2	786.92	2	514.56	2	249.00	2		2		2	
1/4	1,878.64	1/4	1,604.28	1/4	1,329.92	1/4	1,055.56	1/4	781.21	1/4	509.07	1/4	243.28	1/4		1/4		1/4	
1/2	1,872.92	1/2	1,598.57	1/2	1,324.21	1/2	1,049.85	1/2	775.49	1/2	503.57	1/2	237.57	1/2		1/2		1/2	
3/4	1,867.21	3/4	1,592.85	3/4	1,318.49	3/4	1,044.13	3/4	769.77	3/4	498.08	3/4	231.85	3/4		3/4		3/4	
3	1,861.49	3	1,587.13	3	1,312.78	3	1,038.42	3	764.06	3	492.58	3	226.14	3		3		3	
1/4	1,855.78	1/4	1,581.42	1/4	1,307.06	1/4	1,032.70	1/4	758.34	1/4	487.09	1/4	220.42	1/4		1/4		1/4	
1/2	1,850.06	1/2	1,575.70	1/2	1,301.34	1/2	1,026.99	1/2	752.63	1/2	481.59	1/2	214.71	1/2		1/2		1/2	
3/4	1,844.34	3/4	1,569.99	3/4	1,295.63	3/4	1,021.27	3/4	746.91	3/4	476.10	3/4	208.99	3/4		3/4		3/4	
4	1,838.63	4	1,564.27	4	1,289.91	4	1,015.55	4	741.20	4	470.61	4	203.27	4		4		4	
1/4	1,832.91	1/4	1,558.55	1/4	1,284.20	1/4	1,009.84	1/4	735.48	1/4	465.13	1/4	197.56	1/4		1/4		1/4	
1/2	1,827.20	1/2	1,552.84	1/2	1,278.48	1/2	1,004.12	1/2	729.76	1/2	459.64	1/2	191.84	1/2		1/2		1/2	
3/4	1,821.48	3/4	1,547.12	3/4	1,272.76	3/4	998.41	3/4	724.05	3/4	454.16	3/4	186.13	3/4		3/4		3/4	
5	1,815.77	5	1,541.41	5	1,267.05	5	992.69	5	718.33	5	448.67	5	180.41	5		5		5	
1/4	1,810.05	1/4	1,535.69	1/4	1,261.33	1/4	986.97	1/4	712.62	1/4	443.19	1/4	174.70	1/4		1/4		1/4	
1/2	1,804.33	1/2	1,529.98	1/2	1,255.62	1/2	981.26	1/2	706.90	1/2	437.70	1/2	168.98	1/2		1/2		1/2	
3/4	1,798.62	3/4	1,524.26	3/4	1,249.90	3/4	975.54	3/4	701.18	3/4	432.21	3/4	163.27	3/4		3/4		3/4	
6	1,792.90	6	1,518.54	6	1,244.19	6	969.83	6	695.47	6	426.73	6	157.55	6		6		6	
1/4	1,787.19	1/4	1,512.83	1/4	1,238.47	1/4	964.11	1/4	689.75	1/4	421.24	1/4	151.83	1/4		1/4		1/4	
1/2	1,781.47	1/2	1,507.11	1/2	1,232.75	1/2	958.40	1/2	684.04	1/2	415.76	1/2	146.12	1/2		1/2		1/2	
3/4	1,775.75	3/4	1,501.40	3/4	1,227.04	3/4	952.68	3/4	678.32	3/4	410.27	3/4	140.40	3/4		3/4		3/4	
7	1,770.04	7	1,495.68	7	1,221.32	7	946.96	7	672.61	7	404.78	7	134.69	7		7		7	
1/4	1,764.32	1/4	1,489.96	1/4	1,215.61	1/4	941.25	1/4	666.89	1/4	399.30	1/4	128.97	1/4		1/4		1/4	
1/2	1,758.61	1/2	1,484.25	1/2	1,209.89	1/2	935.53	1/2	661.17	1/2	393.81	1/2	123.26	1/2		1/2		1/2	
3/4	1,752.89	3/4	1,478.53	3/4	1,204.17	3/4	929.82	3/4	655.46	3/4	388.33	3/4	117.54	3/4		3/4		3/4	
8	1,747.18	8	1,472.82	8	1,198.46	8	924.10	8	649.74	8	382.84	8	111.82	8		8		8	
1/4	1,741.46	1/4	1,467.10	1/4	1,192.74	1/4	918.38	1/4	644.03	1/4	377.36	1/4	106.11	1/4		1/4		1/4	
1/2	1,735.74	1/2	1,461.39	1/2	1,187.03	1/2	912.67	1/2	638.31	1/2	371.87	1/2	100.39	1/2		1/2		1/2	
3/4	1,730.03	3/4	1,455.67	3/4	1,181.31	3/4	906.95	3/4	632.59	3/4	366.38	3/4	94.68	3/4		3/4		3/4	
9	1,724.31	9	1,449.95	9	1,175.60	9	901.24	9	626.88	9	360.90	9	88.98	9		9		9	
1/4	1,718.60	1/4	1,444.24	1/4	1,169.88	1/4	895.52	1/4	621.16	1/4	355.41	1/4	83.28	1/4		1/4		1/4	
1/2	1,712.88	1/2	1,438.52	1/2	1,164.16	1/2	889.81	1/2	615.45	1/2	349.93	1/2	77.58	1/2		1/2		1/2	
3/4	1,707.17	3/4	1,432.81	3/4	1,158.45	3/4	884.09	3/4	609.73	3/4	344.44	3/4	71.88	3/4		3/4		3/4	
10	1,701.45	10	1,427.09	10	1,152.73	10	878.37	10	604.02	10	338.96	10	66.41	10		10		10	
1/4	1,695.73	1/4	1,421.38	1/4	1,147.02	1/4	872.66	1/4	598.30	1/4	333.47	1/4	60.94	1/4		1/4		1/4	
1/2	1,690.02	1/2	1,415.66	1/2	1,141.30	1/2	866.94	1/2	592.58	1/2	327.98	1/2	55.46	1/2		1/2		1/2	
3/4	1,684.30	3/4	1,409.94	3/4	1,135.59	3/4	861.23	3/4	586.87	3/4	322.50	3/4	49.99	3/4		3/4		3/4	
11	1,678.59	11	1,404.23	11	1,129.87	11	855.51	11	581.18	11	316.98	11	45.44	11		11		11	
1/4	1,672.87	1/4	1,398.51	1/4	1,124.15	1/4	849.80	1/4	575.49	1/4	311.47	1/4	40.90	1/4		1/4		1/4	
1/2	1,667.15	1/2	1,392.80	1/2	1,118.44	1/2	844.08	1/2	569.80	1/2	305.95	1/2	36.35	1/2		1/2		1/2	
3/4	1,661.44	3/4	1,387.08	3/4	1,112.72	3/4	838.36	3/4	564.11	3/4	300.44	3/4	31.80	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

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



BARGE "KELSO"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	3,584.50	0	3,316.90	0	3,043.14	0	2,768.90	0	2,494.66	0	2,220.41
1/4		1/4		1/4		1/4		1/4	3,579.82	1/4	3,311.20	1/4	3,037.43	1/4	2,763.19	1/4	2,488.95	1/4	2,214.69
1/2		1/2		1/2		1/2		1/2	3,575.14	1/2	3,305.51	1/2	3,031.71	1/2	2,757.47	1/2	2,483.24	1/2	2,208.97
3/4		3/4		3/4		3/4		3/4	3,570.46	3/4	3,299.81	3/4	3,026.00	3/4	2,751.76	3/4	2,477.52	3/4	2,203.26
1		1		1		1		1	3,565.78	1	3,294.11	1	3,020.29	1	2,746.05	1	2,471.81	1	2,197.54
1/4		1/4		1/4		1/4		1/4	3,560.56	1/4	3,288.41	1/4	3,014.57	1/4	2,740.33	1/4	2,466.10	1/4	2,191.83
1/2		1/2		1/2		1/2		1/2	3,555.33	1/2	3,282.71	1/2	3,008.86	1/2	2,734.62	1/2	2,460.38	1/2	2,186.11
3/4		3/4		3/4		3/4		3/4	3,550.11	3/4	3,277.01	3/4	3,003.15	3/4	2,728.91	3/4	2,454.67	3/4	2,180.39
2		2		2		2		2	3,544.89	2	3,271.32	2	2,997.43	2	2,723.19	2	2,448.96	2	2,174.68
1/4		1/4		1/4		1/4		1/4	3,539.19	1/4	3,265.62	1/4	2,991.72	1/4	2,717.48	1/4	2,443.24	1/4	2,168.96
1/2		1/2		1/2		1/2		1/2	3,533.48	1/2	3,259.92	1/2	2,986.01	1/2	2,711.77	1/2	2,437.53	1/2	2,163.25
3/4		3/4		3/4		3/4		3/4	3,527.78	3/4	3,254.22	3/4	2,980.29	3/4	2,706.05	3/4	2,431.82	3/4	2,157.53
3		3		3		3		3	3,522.08	3	3,248.52	3	2,974.58	3	2,700.34	3	2,426.10	3	2,151.82
1/4		1/4		1/4		1/4		1/4	3,516.38	1/4	3,242.83	1/4	2,968.87	1/4	2,694.63	1/4	2,420.39	1/4	2,146.10
1/2		1/2		1/2		1/2		1/2	3,510.68	1/2	3,237.13	1/2	2,963.15	1/2	2,688.91	1/2	2,414.68	1/2	2,140.38
3/4		3/4		3/4		3/4		3/4	3,504.98	3/4	3,231.43	3/4	2,957.44	3/4	2,683.20	3/4	2,408.96	3/4	2,134.67
4		4		4		4		4	3,499.28	4	3,225.73	4	2,951.73	4	2,677.49	4	2,403.25	4	2,128.95
1/4		1/4		1/4		1/4		1/4	3,493.58	1/4	3,220.03	1/4	2,946.01	1/4	2,671.77	1/4	2,397.54	1/4	2,123.24
1/2		1/2		1/2		1/2		1/2	3,487.88	1/2	3,214.33	1/2	2,940.30	1/2	2,666.06	1/2	2,391.82	1/2	2,117.52
3/4		3/4		3/4		3/4		3/4	3,482.18	3/4	3,208.64	3/4	2,934.59	3/4	2,660.35	3/4	2,386.11	3/4	2,111.81
5		5		5		5		5	3,476.48	5	3,202.94	5	2,928.87	5	2,654.63	5	2,380.40	5	2,106.09
1/4		1/4		1/4		1/4		1/4	3,470.78	1/4	3,197.24	1/4	2,923.16	1/4	2,648.92	1/4	2,374.68	1/4	2,100.37
1/2		1/2		1/2		1/2		1/2	3,465.08	1/2	3,191.54	1/2	2,917.45	1/2	2,643.21	1/2	2,368.97	1/2	2,094.66
3/4		3/4		3/4		3/4		3/4	3,459.38	3/4	3,185.84	3/4	2,911.73	3/4	2,637.49	3/4	2,363.26	3/4	2,088.94
6		6		6		6		6	3,453.67	6	3,180.14	6	2,906.02	6	2,631.78	6	2,357.54	6	2,083.23
1/4		1/4		1/4		1/4		1/4	3,447.97	1/4	3,174.45	1/4	2,900.31	1/4	2,626.07	1/4	2,351.83	1/4	2,077.51
1/2		1/2		1/2		1/2		1/2	3,442.27	1/2	3,168.75	1/2	2,894.59	1/2	2,620.36	1/2	2,346.12	1/2	2,071.79
3/4		3/4		3/4		3/4		3/4	3,436.57	3/4	3,163.05	3/4	2,888.88	3/4	2,614.64	3/4	2,340.40	3/4	2,066.08
7		7		7		7		7	3,430.87	7	3,157.35	7	2,883.17	7	2,608.93	7	2,334.69	7	2,060.36
1/4		1/4		1/4		1/4		1/4	3,425.17	1/4	3,151.65	1/4	2,877.45	1/4	2,603.22	1/4	2,328.98	1/4	2,054.65
1/2		1/2		1/2		1/2		1/2	3,419.47	1/2	3,145.95	1/2	2,871.74	1/2	2,597.50	1/2	2,323.26	1/2	2,048.93
3/4		3/4		3/4		3/4		3/4	3,413.77	3/4	3,140.25	3/4	2,866.03	3/4	2,591.79	3/4	2,317.55	3/4	2,043.22
8		8		8		8		8	3,408.07	8	3,134.55	8	2,860.31	8	2,586.08	8	2,311.84	8	2,037.50
1/4		1/4		1/4		1/4		1/4	3,402.37	1/4	3,128.84	1/4	2,854.60	1/4	2,580.36	1/4	2,306.12	1/4	2,031.78
1/2		1/2		1/2		1/2		1/2	3,396.68	1/2	3,123.13	1/2	2,848.89	1/2	2,574.65	1/2	2,300.41	1/2	2,026.07
3/4		3/4		3/4		3/4		3/4	3,390.98	3/4	3,117.41	3/4	2,843.17	3/4	2,568.94	3/4	2,294.70	3/4	2,020.35
9		9		9		9		9	3,385.28	9	3,111.70	9	2,837.46	9	2,563.22	9	2,288.98	9	2,014.64
1/4		1/4		1/4		1/4		1/4	3,624.55	1/4	3,379.58	1/4	3,105.99	1/4	2,831.75	1/4	2,557.51	1/4	2,283.27
1/2		1/2		1/2		1/2		1/2	3,621.50	1/2	3,373.88	1/2	3,100.27	1/2	2,826.03	1/2	2,551.80	1/2	2,277.56
3/4		3/4		3/4		3/4		3/4	3,618.46	3/4	3,368.19	3/4	3,094.56	3/4	2,820.32	3/4	2,546.08	3/4	2,271.84
10		10		10		10		10	3,615.41	10	3,362.49	10	3,088.85	10	2,814.61	10	2,540.37	10	2,266.13
1/4		1/4		1/4		1/4		1/4	3,611.82	1/4	3,356.79	1/4	3,083.13	1/4	2,808.89	1/4	2,534.66	1/4	2,260.41
1/2		1/2		1/2		1/2		1/2	3,608.23	1/2	3,351.09	1/2	3,077.42	1/2	2,803.18	1/2	2,528.94	1/2	2,254.70
3/4		3/4		3/4		3/4		3/4	3,604.63	3/4	3,345.39	3/4	3,071.71	3/4	2,797.47	3/4	2,523.23	3/4	2,248.98
11		11		11		11		11	3,601.04	11	3,339.69	11	3,065.99	11	2,791.75	11	2,517.52	11	2,243.27
1/4		1/4		1/4		1/4		1/4	3,596.91	1/4	3,334.00	1/4	3,060.28	1/4	2,786.04	1/4	2,511.80	1/4	2,237.55
1/2		1/2		1/2		1/2		1/2	3,592.77	1/2	3,328.30	1/2	3,054.57	1/2	2,780.33	1/2	2,506.09	1/2	2,231.84
3/4		3/4		3/4		3/4		3/4	3,588.63	3/4	3,322.60	3/4	3,048.85	3/4	2,774.61	3/4	2,500.38	3/4	2,226.12

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 TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KELSO"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	1,946.05	0	1,671.69	0	1,397.33	0	1,122.97	0	848.61	0	574.25	0	300.44	0	31.80	0		0	
1/4	1,940.33	1/4	1,665.97	1/4	1,391.61	1/4	1,117.26	1/4	842.90	1/4	568.54	1/4	294.72	1/4	28.29	1/4		1/4	
1/2	1,934.62	1/2	1,660.26	1/2	1,385.90	1/2	1,111.54	1/2	837.18	1/2	562.82	1/2	289.01	1/2	24.79	1/2		1/2	
3/4	1,928.90	3/4	1,654.54	3/4	1,380.18	3/4	1,105.82	3/4	831.47	3/4	557.11	3/4	283.29	3/4	21.28	3/4		3/4	
1	1,923.18	1	1,648.83	1	1,374.47	1	1,100.11	1	825.75	1	551.39	1	277.57	1	17.77	1		1	
1/4	1,917.47	1/4	1,643.11	1/4	1,368.75	1/4	1,094.39	1/4	820.03	1/4	545.68	1/4	271.86	1/4		1/4		1/4	
1/2	1,911.75	1/2	1,637.39	1/2	1,363.04	1/2	1,088.68	1/2	814.32	1/2	539.96	1/2	266.14	1/2		1/2		1/2	
3/4	1,906.04	3/4	1,631.68	3/4	1,357.32	3/4	1,082.96	3/4	808.60	3/4	534.25	3/4	260.43	3/4		3/4		3/4	
2	1,900.32	2	1,625.96	2	1,351.60	2	1,077.25	2	802.89	2	528.53	2	254.71	2	2	2		2	
1/4	1,894.60	1/4	1,620.25	1/4	1,345.89	1/4	1,071.53	1/4	797.17	1/4	522.82	1/4	249.00	1/4		1/4		1/4	
1/2	1,888.89	1/2	1,614.53	1/2	1,340.17	1/2	1,065.81	1/2	791.46	1/2	517.11	1/2	243.28	1/2		1/2		1/2	
3/4	1,883.17	3/4	1,608.81	3/4	1,334.46	3/4	1,060.10	3/4	785.74	3/4	511.40	3/4	237.57	3/4		3/4		3/4	
3	1,877.46	3	1,603.10	3	1,328.74	3	1,054.38	3	780.02	3	505.69	3	231.85	3	3	3		3	
1/4	1,871.74	1/4	1,597.38	1/4	1,323.02	1/4	1,048.67	1/4	774.31	1/4	499.98	1/4	226.13	1/4		1/4		1/4	
1/2	1,866.03	1/2	1,591.67	1/2	1,317.31	1/2	1,042.95	1/2	768.59	1/2	494.27	1/2	220.42	1/2		1/2		1/2	
3/4	1,860.31	3/4	1,585.95	3/4	1,311.59	3/4	1,037.23	3/4	762.88	3/4	488.56	3/4	214.70	3/4		3/4		3/4	
4	1,854.59	4	1,580.24	4	1,305.88	4	1,031.52	4	757.16	4	482.85	4	208.99	4	4	4		4	
1/4	1,848.88	1/4	1,574.52	1/4	1,300.16	1/4	1,025.80	1/4	751.44	1/4	477.15	1/4	203.27	1/4		1/4		1/4	
1/2	1,843.16	1/2	1,568.80	1/2	1,294.45	1/2	1,020.09	1/2	745.73	1/2	471.45	1/2	197.56	1/2		1/2		1/2	
3/4	1,837.45	3/4	1,563.09	3/4	1,288.73	3/4	1,014.37	3/4	740.01	3/4	465.75	3/4	191.84	3/4		3/4		3/4	
5	1,831.73	5	1,557.37	5	1,283.01	5	1,008.66	5	734.30	5	460.05	5	186.13	5	5	5		5	
1/4	1,826.02	1/4	1,551.66	1/4	1,277.30	1/4	1,002.94	1/4	728.58	1/4	454.35	1/4	180.41	1/4		1/4		1/4	
1/2	1,820.30	1/2	1,545.94	1/2	1,271.58	1/2	997.22	1/2	722.87	1/2	448.65	1/2	174.69	1/2		1/2		1/2	
3/4	1,814.58	3/4	1,540.23	3/4	1,265.87	3/4	991.51	3/4	717.15	3/4	442.95	3/4	168.98	3/4		3/4		3/4	
6	1,808.87	6	1,534.51	6	1,260.15	6	985.79	6	711.43	6	437.25	6	163.26	6	6	6		6	
1/4	1,803.15	1/4	1,528.79	1/4	1,254.44	1/4	980.08	1/4	705.72	1/4	431.55	1/4	157.55	1/4		1/4		1/4	
1/2	1,797.44	1/2	1,523.08	1/2	1,248.72	1/2	974.36	1/2	700.00	1/2	425.85	1/2	151.83	1/2		1/2		1/2	
3/4	1,791.72	3/4	1,517.36	3/4	1,243.00	3/4	968.65	3/4	694.29	3/4	420.15	3/4	146.12	3/4		3/4		3/4	
7	1,786.00	7	1,511.65	7	1,237.29	7	962.93	7	688.57	7	414.45	7	140.40	7	7	7		7	
1/4	1,780.29	1/4	1,505.93	1/4	1,231.57	1/4	957.21	1/4	682.86	1/4	408.75	1/4	134.68	1/4		1/4		1/4	
1/2	1,774.57	1/2	1,500.21	1/2	1,225.86	1/2	951.50	1/2	677.14	1/2	403.05	1/2	128.97	1/2		1/2		1/2	
3/4	1,768.86	3/4	1,494.50	3/4	1,220.14	3/4	945.78	3/4	671.42	3/4	397.35	3/4	123.25	3/4		3/4		3/4	
8	1,763.14	8	1,488.78	8	1,214.42	8	940.07	8	665.71	8	391.65	8	117.54	8	8	8		8	
1/4	1,757.43	1/4	1,483.07	1/4	1,208.71	1/4	934.35	1/4	659.99	1/4	385.95	1/4	111.82	1/4		1/4		1/4	
1/2	1,751.71	1/2	1,477.35	1/2	1,202.99	1/2	928.63	1/2	654.28	1/2	380.25	1/2	106.11	1/2		1/2		1/2	
3/4	1,745.99	3/4	1,471.64	3/4	1,197.28	3/4	922.92	3/4	648.56	3/4	374.55	3/4	100.39	3/4		3/4		3/4	
9	1,740.28	9	1,465.92	9	1,191.56	9	917.20	9	642.84	9	368.85	9	94.68	9	9	9		9	
1/4	1,734.56	1/4	1,460.20	1/4	1,185.85	1/4	911.49	1/4	637.13	1/4	363.15	1/4	88.98	1/4		1/4		1/4	
1/2	1,728.85	1/2	1,454.49	1/2	1,180.13	1/2	905.77	1/2	631.41	1/2	357.45	1/2	83.28	1/2		1/2		1/2	
3/4	1,723.13	3/4	1,448.77	3/4	1,174.41	3/4	900.06	3/4	625.70	3/4	351.75	3/4	77.58	3/4		3/4		3/4	
10	1,717.41	10	1,443.06	10	1,168.70	10	894.34	10	619.98	10	346.05	10	71.88	10	10	10		10	
1/4	1,711.70	1/4	1,437.34	1/4	1,162.98	1/4	888.62	1/4	614.27	1/4	340.35	1/4	66.41	1/4		1/4		1/4	
1/2	1,705.98	1/2	1,431.62	1/2	1,157.27	1/2	882.91	1/2	608.55	1/2	334.65	1/2	60.93	1/2		1/2		1/2	
3/4	1,700.27	3/4	1,425.91	3/4	1,151.55	3/4	877.19	3/4	602.83	3/4	328.95	3/4	55.46	3/4		3/4		3/4	
11	1,694.55	11	1,420.19	11	1,145.83	11	871.48	11	597.12	11	323.25	11	49.99	11	11	11		11	
1/4	1,688.84	1/4	1,414.48	1/4	1,140.12	1/4	865.76	1/4	591.40	1/4	317.54	1/4	45.44	1/4		1/4		1/4	
1/2	1,683.12	1/2	1,408.76	1/2	1,134.40	1/2	860.04	1/2	585.69	1/2	311.84	1/2	40.89	1/2		1/2		1/2	
3/4	1,677.40	3/4	1,403.05	3/4	1,128.69	3/4	854.33	3/4	579.97	3/4	306.14	3/4	36.35	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

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



BARGE "KELSO"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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		0	3,577.70	0	3,311.71	0	3,038.01	0	2,763.83	0	2,489.64	0	2,215.44
1/4		1/4		1/4		1/4		1/4	3,573.57	1/4	3,306.01	1/4	3,032.30	1/4	2,758.12	1/4	2,483.93	1/4	2,209.73
1/2		1/2		1/2		1/2		1/2	3,568.89	1/2	3,300.31	1/2	3,026.59	1/2	2,752.40	1/2	2,478.22	1/2	2,204.01
3/4		3/4		3/4		3/4		3/4	3,564.21	3/4	3,294.61	3/4	3,020.88	3/4	2,746.69	3/4	2,472.51	3/4	2,198.30
1		1		1		1		1	3,559.53	1	3,288.92	1	3,015.16	1	2,740.98	1	2,466.79	1	2,192.58
1/4		1/4		1/4		1/4		1/4	3,554.85	1/4	3,283.22	1/4	3,009.45	1/4	2,735.27	1/4	2,461.08	1/4	2,186.87
1/2		1/2		1/2		1/2		1/2	3,549.62	1/2	3,277.52	1/2	3,003.74	1/2	2,729.55	1/2	2,455.37	1/2	2,181.15
3/4		3/4		3/4		3/4		3/4	3,544.40	3/4	3,271.83	3/4	2,998.03	3/4	2,723.84	3/4	2,449.66	3/4	2,175.44
2		2		2		2		2	3,539.18	2	3,266.13	2	2,992.32	2	2,718.13	2	2,443.94	2	2,169.72
1/4		1/4		1/4		1/4		1/4	3,533.95	1/4	3,260.43	1/4	2,986.60	1/4	2,712.42	1/4	2,438.23	1/4	2,164.01
1/2		1/2		1/2		1/2		1/2	3,528.25	1/2	3,254.74	1/2	2,980.89	1/2	2,706.71	1/2	2,432.52	1/2	2,158.29
3/4		3/4		3/4		3/4		3/4	3,522.55	3/4	3,249.04	3/4	2,975.18	3/4	2,700.99	3/4	2,426.81	3/4	2,152.58
3		3		3		3		3	3,516.85	3	3,243.34	3	2,969.47	3	2,695.28	3	2,421.10	3	2,146.86
1/4		1/4		1/4		1/4		1/4	3,511.15	1/4	3,237.64	1/4	2,963.75	1/4	2,689.57	1/4	2,415.38	1/4	2,141.15
1/2		1/2		1/2		1/2		1/2	3,505.45	1/2	3,231.95	1/2	2,958.04	1/2	2,683.86	1/2	2,409.67	1/2	2,135.44
3/4		3/4		3/4		3/4		3/4	3,499.75	3/4	3,226.25	3/4	2,952.33	3/4	2,678.14	3/4	2,403.96	3/4	2,129.72
4		4		4		4		4	3,494.05	4	3,220.55	4	2,946.62	4	2,672.43	4	2,398.25	4	2,124.01
1/4		1/4		1/4		1/4		1/4	3,488.35	1/4	3,214.86	1/4	2,940.91	1/4	2,666.72	1/4	2,392.53	1/4	2,118.29
1/2		1/2		1/2		1/2		1/2	3,482.66	1/2	3,209.16	1/2	2,935.19	1/2	2,661.01	1/2	2,386.82	1/2	2,112.58
3/4		3/4		3/4		3/4		3/4	3,476.96	3/4	3,203.46	3/4	2,929.48	3/4	2,655.30	3/4	2,381.11	3/4	2,106.86
5		5		5		5		5	3,471.26	5	3,197.77	5	2,923.77	5	2,649.58	5	2,375.40	5	2,101.15
1/4		1/4		1/4		1/4		1/4	3,465.56	1/4	3,192.07	1/4	2,918.06	1/4	2,643.87	1/4	2,369.69	1/4	2,095.43
1/2		1/2		1/2		1/2		1/2	3,459.86	1/2	3,186.37	1/2	2,912.35	1/2	2,638.16	1/2	2,363.97	1/2	2,089.72
3/4		3/4		3/4		3/4		3/4	3,454.16	3/4	3,180.67	3/4	2,906.63	3/4	2,632.45	3/4	2,358.26	3/4	2,084.00
6		6		6		6		6	3,448.46	6	3,174.98	6	2,900.92	6	2,626.74	6	2,352.55	6	2,078.29
1/4		1/4		1/4		1/4		1/4	3,442.76	1/4	3,169.28	1/4	2,895.21	1/4	2,621.02	1/4	2,346.84	1/4	2,072.57
1/2		1/2		1/2		1/2		1/2	3,437.06	1/2	3,163.58	1/2	2,889.50	1/2	2,615.31	1/2	2,341.13	1/2	2,066.86
3/4		3/4		3/4		3/4		3/4	3,431.36	3/4	3,157.89	3/4	2,883.78	3/4	2,609.60	3/4	2,335.41	3/4	2,061.14
7		7		7		7		7	3,425.66	7	3,152.19	7	2,878.07	7	2,603.89	7	2,329.70	7	2,055.43
1/4		1/4		1/4		1/4		1/4	3,419.96	1/4	3,146.49	1/4	2,872.36	1/4	2,598.17	1/4	2,323.99	1/4	2,049.71
1/2		1/2		1/2		1/2		1/2	3,414.26	1/2	3,140.79	1/2	2,866.65	1/2	2,592.46	1/2	2,318.28	1/2	2,044.00
3/4		3/4		3/4		3/4		3/4	3,408.56	3/4	3,135.09	3/4	2,860.94	3/4	2,586.75	3/4	2,312.56	3/4	2,038.29
8		8		8		8		8	3,402.86	8	3,129.40	8	2,855.22	8	2,581.04	8	2,306.85	8	2,032.57
1/4		1/4		1/4		1/4		1/4	3,397.16	1/4	3,123.70	1/4	2,849.51	1/4	2,575.33	1/4	2,301.14	1/4	2,026.86
1/2		1/2		1/2		1/2		1/2	3,391.46	1/2	3,117.98	1/2	2,843.80	1/2	2,569.61	1/2	2,295.43	1/2	2,021.14
3/4		3/4		3/4		3/4		3/4	3,385.77	3/4	3,112.27	3/4	2,838.09	3/4	2,563.90	3/4	2,289.72	3/4	2,015.43
9		9		9		9		9	3,380.07	9	3,106.56	9	2,832.37	9	2,558.19	9	2,284.00	9	2,009.71
1/4		1/4		1/4		1/4		1/4	3,374.37	1/4	3,100.85	1/4	2,826.66	1/4	2,552.48	1/4	2,278.29	1/4	2,004.00
1/2		1/2		1/2		1/2		1/2	3,613.61	1/2	3,368.68	1/2	3,095.14	1/2	2,820.95	1/2	2,546.76	1/2	2,272.58
3/4		3/4		3/4		3/4		3/4	3,610.56	3/4	3,362.98	3/4	3,089.42	3/4	2,815.24	3/4	2,541.05	3/4	2,266.87
10		10		10		10		10	3,607.52	10	3,357.28	10	3,083.71	10	2,809.53	10	2,535.34	10	2,261.15
1/4		1/4		1/4		1/4		1/4	3,604.47	1/4	3,351.58	1/4	3,078.00	1/4	2,803.81	1/4	2,529.63	1/4	2,255.44
1/2		1/2		1/2		1/2		1/2	3,600.88	1/2	3,345.89	1/2	3,072.29	1/2	2,798.10	1/2	2,523.92	1/2	2,249.73
3/4		3/4		3/4		3/4		3/4	3,597.29	3/4	3,340.19	3/4	3,066.57	3/4	2,792.39	3/4	2,518.20	3/4	2,244.01
11		11		11		11		11	3,593.70	11	3,334.49	11	3,060.86	11	2,786.68	11	2,512.49	11	2,238.30
1/4		1/4		1/4		1/4		1/4	3,590.11	1/4	3,328.80	1/4	3,055.15	1/4	2,780.96	1/4	2,506.78	1/4	2,232.58
1/2		1/2		1/2		1/2		1/2	3,585.97	1/2	3,323.10	1/2	3,049.44	1/2	2,775.25	1/2	2,501.07	1/2	2,226.87
3/4		3/4		3/4		3/4		3/4	3,581.84	3/4	3,317.40	3/4	3,043.73	3/4	2,769.54	3/4	2,495.35	3/4	2,221.16

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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	1,941.14	0	1,666.83	0	1,392.52	0	1,118.22	0	843.91	0	569.69	0	305.89	0	36.34	0		0	
1/4	1,935.42	1/4	1,661.11	1/4	1,386.81	1/4	1,112.50	1/4	838.20	1/4	564.00	1/4	300.38	1/4	31.80	1/4		1/4	
1/2	1,929.71	1/2	1,655.40	1/2	1,381.09	1/2	1,106.79	1/2	832.48	1/2	558.49	1/2	294.67	1/2	28.29	1/2		1/2	
3/4	1,923.99	3/4	1,649.69	3/4	1,375.38	3/4	1,101.07	3/4	826.77	3/4	552.99	3/4	288.95	3/4	24.78	3/4		3/4	
1	1,918.28	1	1,643.97	1	1,369.67	1	1,095.36	1	821.05	1	547.48	1	283.24	1	21.27	1		1	
1/4	1,912.56	1/4	1,638.26	1/4	1,363.95	1/4	1,089.64	1/4	815.34	1/4	541.97	1/4	277.52	1/4	17.77	1/4		1/4	
1/2	1,906.85	1/2	1,632.54	1/2	1,358.24	1/2	1,083.93	1/2	809.62	1/2	536.47	1/2	271.81	1/2		1/2		1/2	
3/4	1,901.13	3/4	1,626.83	3/4	1,352.52	3/4	1,078.22	3/4	803.91	3/4	530.96	3/4	266.09	3/4		3/4		3/4	
2	1,895.42	2	1,621.11	2	1,346.81	2	1,072.50	2	798.20	2	525.46	2	260.38	2	2	2		2	2
1/4	1,889.70	1/4	1,615.40	1/4	1,341.09	1/4	1,066.79	1/4	792.48	1/4	519.96	1/4	254.66	1/4		1/4		1/4	
1/2	1,883.99	1/2	1,609.68	1/2	1,335.38	1/2	1,061.07	1/2	786.77	1/2	514.46	1/2	248.95	1/2		1/2		1/2	
3/4	1,878.27	3/4	1,603.97	3/4	1,329.66	3/4	1,055.36	3/4	781.05	3/4	508.97	3/4	243.24	3/4		3/4		3/4	
3	1,872.56	3	1,598.25	3	1,323.95	3	1,049.64	3	775.34	3	503.47	3	237.52	3	3	3		3	3
1/4	1,866.84	1/4	1,592.54	1/4	1,318.23	1/4	1,043.93	1/4	769.62	1/4	497.98	1/4	231.81	1/4		1/4		1/4	
1/2	1,861.13	1/2	1,586.82	1/2	1,312.52	1/2	1,038.21	1/2	763.91	1/2	492.48	1/2	226.09	1/2		1/2		1/2	
3/4	1,855.41	3/4	1,581.11	3/4	1,306.80	3/4	1,032.50	3/4	758.19	3/4	486.99	3/4	220.38	3/4		3/4		3/4	
4	1,849.70	4	1,575.39	4	1,301.09	4	1,026.78	4	752.48	4	481.50	4	214.66	4	4	4		4	4
1/4	1,843.99	1/4	1,569.68	1/4	1,295.37	1/4	1,021.07	1/4	746.76	1/4	476.01	1/4	208.95	1/4		1/4		1/4	
1/2	1,838.27	1/2	1,563.97	1/2	1,289.66	1/2	1,015.35	1/2	741.05	1/2	470.52	1/2	203.23	1/2		1/2		1/2	
3/4	1,832.56	3/4	1,558.25	3/4	1,283.94	3/4	1,009.64	3/4	735.33	3/4	465.04	3/4	197.52	3/4		3/4		3/4	
5	1,826.84	5	1,552.54	5	1,278.23	5	1,003.92	5	729.62	5	459.55	5	191.80	5	5	5		5	5
1/4	1,821.13	1/4	1,546.82	1/4	1,272.52	1/4	998.21	1/4	723.90	1/4	454.07	1/4	186.09	1/4		1/4		1/4	
1/2	1,815.41	1/2	1,541.11	1/2	1,266.80	1/2	992.50	1/2	718.19	1/2	448.58	1/2	180.38	1/2		1/2		1/2	
3/4	1,809.70	3/4	1,535.39	3/4	1,261.09	3/4	986.78	3/4	712.47	3/4	443.10	3/4	174.66	3/4		3/4		3/4	
6	1,803.98	6	1,529.68	6	1,255.37	6	981.07	6	706.76	6	437.61	6	168.95	6	6	6		6	6
1/4	1,798.27	1/4	1,523.96	1/4	1,249.66	1/4	975.35	1/4	701.05	1/4	432.13	1/4	163.23	1/4		1/4		1/4	
1/2	1,792.55	1/2	1,518.25	1/2	1,243.94	1/2	969.64	1/2	695.33	1/2	426.64	1/2	157.52	1/2		1/2		1/2	
3/4	1,786.84	3/4	1,512.53	3/4	1,238.23	3/4	963.92	3/4	689.62	3/4	421.16	3/4	151.80	3/4		3/4		3/4	
7	1,781.12	7	1,506.82	7	1,232.51	7	958.21	7	683.90	7	415.67	7	146.09	7	7	7		7	7
1/4	1,775.41	1/4	1,501.10	1/4	1,226.80	1/4	952.49	1/4	678.19	1/4	410.19	1/4	140.37	1/4		1/4		1/4	
1/2	1,769.69	1/2	1,495.39	1/2	1,221.08	1/2	946.78	1/2	672.47	1/2	404.70	1/2	134.66	1/2		1/2		1/2	
3/4	1,763.98	3/4	1,489.67	3/4	1,215.37	3/4	941.06	3/4	666.76	3/4	399.22	3/4	128.95	3/4		3/4		3/4	
8	1,758.26	8	1,483.96	8	1,209.65	8	935.35	8	661.04	8	393.73	8	123.23	8	8	8		8	8
1/4	1,752.55	1/4	1,478.24	1/4	1,203.94	1/4	929.63	1/4	655.33	1/4	388.25	1/4	117.52	1/4		1/4		1/4	
1/2	1,746.84	1/2	1,472.53	1/2	1,198.22	1/2	923.92	1/2	649.61	1/2	382.77	1/2	111.80	1/2		1/2		1/2	
3/4	1,741.12	3/4	1,466.82	3/4	1,192.51	3/4	918.20	3/4	643.90	3/4	377.28	3/4	106.09	3/4		3/4		3/4	
9	1,735.41	9	1,461.10	9	1,186.79	9	912.49	9	638.18	9	371.80	9	100.37	9	9	9		9	9
1/4	1,729.69	1/4	1,455.39	1/4	1,181.08	1/4	906.77	1/4	632.47	1/4	366.31	1/4	94.66	1/4		1/4		1/4	
1/2	1,723.98	1/2	1,449.67	1/2	1,175.37	1/2	901.06	1/2	626.75	1/2	360.83	1/2	88.96	1/2		1/2		1/2	
3/4	1,718.26	3/4	1,443.96	3/4	1,169.65	3/4	895.35	3/4	621.04	3/4	355.34	3/4	83.26	3/4		3/4		3/4	
10	1,712.55	10	1,438.24	10	1,163.94	10	889.63	10	615.32	10	349.86	10	77.56	10	10	10		10	10
1/4	1,706.83	1/4	1,432.53	1/4	1,158.22	1/4	883.92	1/4	609.61	1/4	344.37	1/4	71.86	1/4		1/4		1/4	
1/2	1,701.12	1/2	1,426.81	1/2	1,152.51	1/2	878.20	1/2	603.90	1/2	338.89	1/2	66.39	1/2		1/2		1/2	
3/4	1,695.40	3/4	1,421.10	3/4	1,146.79	3/4	872.49	3/4	598.18	3/4	333.40	3/4	60.92	3/4		3/4		3/4	
11	1,689.69	11	1,415.38	11	1,141.08	11	866.77	11	592.47	11	327.92	11	55.45	11	11	11		11	11
1/4	1,683.97	1/4	1,409.67	1/4	1,135.36	1/4	861.06	1/4	586.75	1/4	322.43	1/4	49.98	1/4		1/4		1/4	
1/2	1,678.26	1/2	1,403.95	1/2	1,129.65	1/2	855.34	1/2	581.06	1/2	316.92	1/2	45.43	1/2		1/2		1/2	
3/4	1,672.54	3/4	1,398.24	3/4	1,123.93	3/4	849.63	3/4	575.37	3/4	311.41	3/4	40.89	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

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



BARGE "KELSO"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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		0	3,587.95	0	3,321.96	0	3,048.26	0	2,774.08	0	2,499.89	0	2,225.69
1/4		1/4		1/4		1/4		1/4	3,583.82	1/4	3,316.26	1/4	3,042.55	1/4	2,768.37	1/4	2,494.18	1/4	2,219.98
1/2		1/2		1/2		1/2		1/2	3,579.14	1/2	3,310.56	1/2	3,036.84	1/2	2,762.65	1/2	2,488.47	1/2	2,214.26
3/4		3/4		3/4		3/4		3/4	3,574.46	3/4	3,304.86	3/4	3,031.13	3/4	2,756.94	3/4	2,482.76	3/4	2,208.55
1		1		1		1		1	3,569.78	1	3,299.17	1	3,025.41	1	2,751.23	1	2,477.04	1	2,202.83
1/4		1/4		1/4		1/4		1/4	3,565.10	1/4	3,293.47	1/4	3,019.70	1/4	2,745.52	1/4	2,471.33	1/4	2,197.12
1/2		1/2		1/2		1/2		1/2	3,559.87	1/2	3,287.77	1/2	3,013.99	1/2	2,739.80	1/2	2,465.62	1/2	2,191.40
3/4		3/4		3/4		3/4		3/4	3,554.65	3/4	3,282.08	3/4	3,008.28	3/4	2,734.09	3/4	2,459.91	3/4	2,185.69
2		2		2		2		2	3,549.43	2	3,276.38	2	3,002.57	2	2,728.38	2	2,454.19	2	2,179.97
1/4		1/4		1/4		1/4		1/4	3,544.20	1/4	3,270.68	1/4	2,996.85	1/4	2,722.67	1/4	2,448.48	1/4	2,174.26
1/2		1/2		1/2		1/2		1/2	3,538.50	1/2	3,264.99	1/2	2,991.14	1/2	2,716.96	1/2	2,442.77	1/2	2,168.54
3/4		3/4		3/4		3/4		3/4	3,532.80	3/4	3,259.29	3/4	2,985.43	3/4	2,711.24	3/4	2,437.06	3/4	2,162.83
3		3		3		3		3	3,527.10	3	3,253.59	3	2,979.72	3	2,705.53	3	2,431.35	3	2,157.11
1/4		1/4		1/4		1/4		1/4	3,521.40	1/4	3,247.89	1/4	2,974.00	1/4	2,699.82	1/4	2,425.63	1/4	2,151.40
1/2		1/2		1/2		1/2		1/2	3,515.70	1/2	3,242.20	1/2	2,968.29	1/2	2,694.11	1/2	2,419.92	1/2	2,145.69
3/4		3/4		3/4		3/4		3/4	3,510.00	3/4	3,236.50	3/4	2,962.58	3/4	2,688.39	3/4	2,414.21	3/4	2,139.97
4		4		4		4		4	3,504.30	4	3,230.80	4	2,956.87	4	2,682.68	4	2,408.50	4	2,134.26
1/4		1/4		1/4		1/4		1/4	3,498.60	1/4	3,225.11	1/4	2,951.16	1/4	2,676.97	1/4	2,402.78	1/4	2,128.54
1/2		1/2		1/2		1/2		1/2	3,492.91	1/2	3,219.41	1/2	2,945.44	1/2	2,671.26	1/2	2,397.07	1/2	2,122.83
3/4		3/4		3/4		3/4		3/4	3,487.21	3/4	3,213.71	3/4	2,939.73	3/4	2,665.55	3/4	2,391.36	3/4	2,117.11
5		5		5		5		5	3,481.51	5	3,208.02	5	2,934.02	5	2,659.83	5	2,385.65	5	2,111.40
1/4		1/4		1/4		1/4		1/4	3,475.81	1/4	3,202.32	1/4	2,928.31	1/4	2,654.12	1/4	2,379.94	1/4	2,105.68
1/2		1/2		1/2		1/2		1/2	3,470.11	1/2	3,196.62	1/2	2,922.60	1/2	2,648.41	1/2	2,374.22	1/2	2,099.97
3/4		3/4		3/4		3/4		3/4	3,464.41	3/4	3,190.92	3/4	2,916.88	3/4	2,642.70	3/4	2,368.51	3/4	2,094.25
6		6		6		6		6	3,458.71	6	3,185.23	6	2,911.17	6	2,636.99	6	2,362.80	6	2,088.54
1/4		1/4		1/4		1/4		1/4	3,453.01	1/4	3,179.53	1/4	2,905.46	1/4	2,631.27	1/4	2,357.09	1/4	2,082.82
1/2		1/2		1/2		1/2		1/2	3,447.31	1/2	3,173.83	1/2	2,899.75	1/2	2,625.56	1/2	2,351.38	1/2	2,077.11
3/4		3/4		3/4		3/4		3/4	3,441.61	3/4	3,168.14	3/4	2,894.03	3/4	2,619.85	3/4	2,345.66	3/4	2,071.39
7		7		7		7		7	3,435.91	7	3,162.44	7	2,888.32	7	2,614.14	7	2,339.95	7	2,065.68
1/4		1/4		1/4		1/4		1/4	3,430.21	1/4	3,156.74	1/4	2,882.61	1/4	2,608.42	1/4	2,334.24	1/4	2,059.96
1/2		1/2		1/2		1/2		1/2	3,424.51	1/2	3,151.04	1/2	2,876.90	1/2	2,602.71	1/2	2,328.53	1/2	2,054.25
3/4		3/4		3/4		3/4		3/4	3,418.81	3/4	3,145.34	3/4	2,871.19	3/4	2,597.00	3/4	2,322.81	3/4	2,048.54
8		8		8		8		8	3,413.11	8	3,139.65	8	2,865.47	8	2,591.29	8	2,317.10	8	2,042.82
1/4		1/4		1/4		1/4		1/4	3,407.41	1/4	3,133.95	1/4	2,859.76	1/4	2,585.58	1/4	2,311.39	1/4	2,037.11
1/2		1/2		1/2		1/2		1/2	3,401.71	1/2	3,128.23	1/2	2,854.05	1/2	2,579.86	1/2	2,305.68	1/2	2,031.39
3/4		3/4		3/4		3/4		3/4	3,396.02	3/4	3,122.52	3/4	2,848.34	3/4	2,574.15	3/4	2,299.97	3/4	2,025.68
9		9		9		9		9	3,390.32	9	3,116.81	9	2,842.62	9	2,568.44	9	2,294.25	9	2,019.96
1/4		1/4		1/4		1/4		1/4	3,384.62	1/4	3,111.10	1/4	2,836.91	1/4	2,562.73	1/4	2,288.54	1/4	2,014.25
1/2		1/2		1/2		1/2	3,623.86	1/2	3,378.93	1/2	3,105.39	1/2	2,831.20	1/2	2,557.01	1/2	2,282.83	1/2	2,008.53
3/4		3/4		3/4		3/4	3,620.81	3/4	3,373.23	3/4	3,099.67	3/4	2,825.49	3/4	2,551.30	3/4	2,277.12	3/4	2,002.82
10		10		10		10	3,617.77	10	3,367.53	10	3,093.96	10	2,819.78	10	2,545.59	10	2,271.40	10	1,997.10
1/4		1/4		1/4		1/4	3,614.72	1/4	3,361.83	1/4	3,088.25	1/4	2,814.06	1/4	2,539.88	1/4	2,265.69	1/4	1,991.39
1/2		1/2		1/2		1/2	3,611.13	1/2	3,356.14	1/2	3,082.54	1/2	2,808.35	1/2	2,534.17	1/2	2,259.98	1/2	1,985.67
3/4		3/4		3/4		3/4	3,607.54	3/4	3,350.44	3/4	3,076.82	3/4	2,802.64	3/4	2,528.45	3/4	2,254.26	3/4	1,979.96
11		11		11		11	3,603.95	11	3,344.74	11	3,071.11	11	2,796.93	11	2,522.74	11	2,248.55	11	1,974.24
1/4		1/4		1/4		1/4	3,600.36	1/4	3,339.05	1/4	3,065.40	1/4	2,791.21	1/4	2,517.03	1/4	2,242.83	1/4	1,968.53
1/2		1/2		1/2		1/2	3,596.22	1/2	3,333.35	1/2	3,059.69	1/2	2,785.50	1/2	2,511.32	1/2	2,237.12	1/2	1,962.81
3/4		3/4		3/4		3/4	3,592.09	3/4	3,327.65	3/4	3,053.98	3/4	2,779.79	3/4	2,505.60	3/4	2,231.41	3/4	1,957.10

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KELSO"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01 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	1,951.39	0	1,677.08	0	1,402.77	0	1,128.47	0	854.16	0	579.86	0	306.08	0	36.34	0		0	
1/4	1,945.67	1/4	1,671.36	1/4	1,397.06	1/4	1,122.75	1/4	848.45	1/4	574.14	1/4	300.38	1/4	31.79	1/4		1/4	
1/2	1,939.96	1/2	1,665.65	1/2	1,391.34	1/2	1,117.04	1/2	842.73	1/2	568.43	1/2	294.66	1/2	28.29	1/2		1/2	
3/4	1,934.24	3/4	1,659.94	3/4	1,385.63	3/4	1,111.32	3/4	837.02	3/4	562.71	3/4	288.95	3/4	24.78	3/4		3/4	
1	1,928.53	1	1,654.22	1	1,379.92	1	1,105.61	1	831.30	1	557.00	1	283.23	1	21.27	1		1	
1/4	1,922.81	1/4	1,648.51	1/4	1,374.20	1/4	1,099.89	1/4	825.59	1/4	551.28	1/4	277.52	1/4	17.77	1/4		1/4	
1/2	1,917.10	1/2	1,642.79	1/2	1,368.49	1/2	1,094.18	1/2	819.87	1/2	545.57	1/2	271.81	1/2		1/2		1/2	
3/4	1,911.38	3/4	1,637.08	3/4	1,362.77	3/4	1,088.47	3/4	814.16	3/4	539.86	3/4	266.09	3/4		3/4		3/4	
2	1,905.67	2	1,631.36	2	1,357.06	2	1,082.75	2	808.45	2	534.14	2	260.38	2		2		2	
1/4	1,899.95	1/4	1,625.65	1/4	1,351.34	1/4	1,077.04	1/4	802.73	1/4	528.43	1/4	254.66	1/4		1/4		1/4	
1/2	1,894.24	1/2	1,619.93	1/2	1,345.63	1/2	1,071.32	1/2	797.02	1/2	522.72	1/2	248.95	1/2		1/2		1/2	
3/4	1,888.52	3/4	1,614.22	3/4	1,339.91	3/4	1,065.61	3/4	791.30	3/4	517.01	3/4	243.23	3/4		3/4		3/4	
3	1,882.81	3	1,608.50	3	1,334.20	3	1,059.89	3	785.59	3	511.30	3	237.52	3		3		3	
1/4	1,877.09	1/4	1,602.79	1/4	1,328.48	1/4	1,054.18	1/4	779.87	1/4	505.59	1/4	231.80	1/4		1/4		1/4	
1/2	1,871.38	1/2	1,597.07	1/2	1,322.77	1/2	1,048.46	1/2	774.16	1/2	499.88	1/2	226.09	1/2		1/2		1/2	
3/4	1,865.66	3/4	1,591.36	3/4	1,317.05	3/4	1,042.75	3/4	768.44	3/4	494.18	3/4	220.37	3/4		3/4		3/4	
4	1,859.95	4	1,585.64	4	1,311.34	4	1,037.03	4	762.73	4	488.47	4	214.66	4		4		4	
1/4	1,854.24	1/4	1,579.93	1/4	1,305.62	1/4	1,031.32	1/4	757.01	1/4	482.76	1/4	208.95	1/4		1/4		1/4	
1/2	1,848.52	1/2	1,574.22	1/2	1,299.91	1/2	1,025.60	1/2	751.30	1/2	477.06	1/2	203.23	1/2		1/2		1/2	
3/4	1,842.81	3/4	1,568.50	3/4	1,294.19	3/4	1,019.89	3/4	745.58	3/4	471.36	3/4	197.52	3/4		3/4		3/4	
5	1,837.09	5	1,562.79	5	1,288.48	5	1,014.17	5	739.87	5	465.66	5	191.80	5		5		5	
1/4	1,831.38	1/4	1,557.07	1/4	1,282.77	1/4	1,008.46	1/4	734.15	1/4	459.96	1/4	186.09	1/4		1/4		1/4	
1/2	1,825.66	1/2	1,551.36	1/2	1,277.05	1/2	1,002.75	1/2	728.44	1/2	454.26	1/2	180.37	1/2		1/2		1/2	
3/4	1,819.95	3/4	1,545.64	3/4	1,271.34	3/4	997.03	3/4	722.72	3/4	448.56	3/4	174.66	3/4		3/4		3/4	
6	1,814.23	6	1,539.93	6	1,265.62	6	991.32	6	717.01	6	442.87	6	168.94	6		6		6	
1/4	1,808.52	1/4	1,534.21	1/4	1,259.91	1/4	985.60	1/4	711.30	1/4	437.17	1/4	163.23	1/4		1/4		1/4	
1/2	1,802.80	1/2	1,528.50	1/2	1,254.19	1/2	979.89	1/2	705.58	1/2	431.47	1/2	157.52	1/2		1/2		1/2	
3/4	1,797.09	3/4	1,522.78	3/4	1,248.48	3/4	974.17	3/4	699.87	3/4	425.77	3/4	151.80	3/4		3/4		3/4	
7	1,791.37	7	1,517.07	7	1,242.76	7	968.46	7	694.15	7	420.07	7	146.09	7		7		7	
1/4	1,785.66	1/4	1,511.35	1/4	1,237.05	1/4	962.74	1/4	688.44	1/4	414.37	1/4	140.37	1/4		1/4		1/4	
1/2	1,779.94	1/2	1,505.64	1/2	1,231.33	1/2	957.03	1/2	682.72	1/2	408.67	1/2	134.66	1/2		1/2		1/2	
3/4	1,774.23	3/4	1,499.92	3/4	1,225.62	3/4	951.31	3/4	677.01	3/4	402.97	3/4	128.94	3/4		3/4		3/4	
8	1,768.51	8	1,494.21	8	1,219.90	8	945.60	8	671.29	8	397.27	8	123.23	8		8		8	
1/4	1,762.80	1/4	1,488.49	1/4	1,214.19	1/4	939.88	1/4	665.58	1/4	391.57	1/4	117.51	1/4		1/4		1/4	
1/2	1,757.09	1/2	1,482.78	1/2	1,208.47	1/2	934.17	1/2	659.86	1/2	385.87	1/2	111.80	1/2		1/2		1/2	
3/4	1,751.37	3/4	1,477.07	3/4	1,202.76	3/4	928.45	3/4	654.15	3/4	380.17	3/4	106.08	3/4		3/4		3/4	
9	1,745.66	9	1,471.35	9	1,197.04	9	922.74	9	648.43	9	374.47	9	100.37	9		9		9	
1/4	1,739.94	1/4	1,465.64	1/4	1,191.33	1/4	917.02	1/4	642.72	1/4	368.78	1/4	94.66	1/4		1/4		1/4	
1/2	1,734.23	1/2	1,459.92	1/2	1,185.62	1/2	911.31	1/2	637.00	1/2	363.08	1/2	88.96	1/2		1/2		1/2	
3/4	1,728.51	3/4	1,454.21	3/4	1,179.90	3/4	905.60	3/4	631.29	3/4	357.38	3/4	83.26	3/4		3/4		3/4	
10	1,722.80	10	1,448.49	10	1,174.19	10	899.88	10	625.57	10	351.68	10	77.56	10		10		10	
1/4	1,717.08	1/4	1,442.78	1/4	1,168.47	1/4	894.17	1/4	619.86	1/4	345.98	1/4	71.86	1/4		1/4		1/4	
1/2	1,711.37	1/2	1,437.06	1/2	1,162.76	1/2	888.45	1/2	614.15	1/2	340.28	1/2	66.39	1/2		1/2		1/2	
3/4	1,705.65	3/4	1,431.35	3/4	1,157.04	3/4	882.74	3/4	608.43	3/4	334.58	3/4	60.92	3/4		3/4		3/4	
11	1,699.94	11	1,425.63	11	1,151.33	11	877.02	11	602.72	11	328.88	11	55.45	11		11		11	
1/4	1,694.22	1/4	1,419.92	1/4	1,145.61	1/4	871.31	1/4	597.00	1/4	323.18	1/4	49.98	1/4		1/4		1/4	
1/2	1,688.51	1/2	1,414.20	1/2	1,139.90	1/2	865.59	1/2	591.29	1/2	317.48	1/2	45.43	1/2		1/2		1/2	
3/4	1,682.79	3/4	1,408.49	3/4	1,134.18	3/4	859.88	3/4	585.57	3/4	311.78	3/4	40.88	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

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



BARGE "KELSO"

4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	3,576.29	0	3,308.53	0	3,034.61	0	2,760.22	0	2,485.83	0	2,211.43
1/4		1/4		1/4		1/4		1/4	3,571.60	1/4	3,302.83	1/4	3,028.89	1/4	2,754.50	1/4	2,480.11	1/4	2,205.71
1/2		1/2		1/2		1/2		1/2	3,566.92	1/2	3,297.13	1/2	3,023.18	1/2	2,748.79	1/2	2,474.39	1/2	2,199.99
3/4		3/4		3/4		3/4		3/4	3,562.24	3/4	3,291.43	3/4	3,017.46	3/4	2,743.07	3/4	2,468.68	3/4	2,194.27
1		1		1		1		1	3,557.55	1	3,285.73	1	3,011.74	1	2,737.35	1	2,462.96	1	2,188.55
1/4		1/4		1/4		1/4		1/4	3,552.33	1/4	3,280.03	1/4	3,006.03	1/4	2,731.64	1/4	2,457.24	1/4	2,182.83
1/2		1/2		1/2		1/2		1/2	3,547.10	1/2	3,274.33	1/2	3,000.31	1/2	2,725.92	1/2	2,451.53	1/2	2,177.12
3/4		3/4		3/4		3/4		3/4	3,541.88	3/4	3,268.62	3/4	2,994.59	3/4	2,720.20	3/4	2,445.81	3/4	2,171.40
2		2		2		2		2	3,536.65	2	3,262.92	2	2,988.88	2	2,714.49	2	2,440.09	2	2,165.68
1/4		1/4		1/4		1/4		1/4	3,530.95	1/4	3,257.22	1/4	2,983.16	1/4	2,708.77	1/4	2,434.38	1/4	2,159.96
1/2		1/2		1/2		1/2		1/2	3,525.24	1/2	3,251.52	1/2	2,977.45	1/2	2,703.05	1/2	2,428.66	1/2	2,154.24
3/4		3/4		3/4		3/4		3/4	3,519.54	3/4	3,245.82	3/4	2,971.73	3/4	2,697.34	3/4	2,422.94	3/4	2,148.52
3		3		3		3		3	3,513.83	3	3,240.12	3	2,966.01	3	2,691.62	3	2,417.23	3	2,142.80
1/4		1/4		1/4		1/4		1/4	3,508.13	1/4	3,234.42	1/4	2,960.30	1/4	2,685.90	1/4	2,411.51	1/4	2,137.08
1/2		1/2		1/2		1/2		1/2	3,502.43	1/2	3,228.71	1/2	2,954.58	1/2	2,680.19	1/2	2,405.80	1/2	2,131.36
3/4		3/4		3/4		3/4		3/4	3,496.72	3/4	3,223.01	3/4	2,948.86	3/4	2,674.47	3/4	2,400.08	3/4	2,125.64
4		4		4		4		4	3,491.02	4	3,217.31	4	2,943.15	4	2,668.75	4	2,394.36	4	2,119.92
1/4		1/4		1/4		1/4		1/4	3,485.31	1/4	3,211.61	1/4	2,937.43	1/4	2,663.04	1/4	2,388.65	1/4	2,114.20
1/2		1/2		1/2		1/2		1/2	3,479.61	1/2	3,205.91	1/2	2,931.71	1/2	2,657.32	1/2	2,382.93	1/2	2,108.49
3/4		3/4		3/4		3/4		3/4	3,473.91	3/4	3,200.21	3/4	2,926.00	3/4	2,651.60	3/4	2,377.21	3/4	2,102.77
5		5		5		5		5	3,468.20	5	3,194.51	5	2,920.28	5	2,645.89	5	2,371.50	5	2,097.05
1/4		1/4		1/4		1/4		1/4	3,462.50	1/4	3,188.81	1/4	2,914.56	1/4	2,640.17	1/4	2,365.78	1/4	2,091.33
1/2		1/2		1/2		1/2		1/2	3,456.79	1/2	3,183.10	1/2	2,908.85	1/2	2,634.46	1/2	2,360.06	1/2	2,085.61
3/4		3/4		3/4		3/4		3/4	3,451.09	3/4	3,177.40	3/4	2,903.13	3/4	2,628.74	3/4	2,354.35	3/4	2,079.89
6		6		6		6		6	3,445.39	6	3,171.70	6	2,897.41	6	2,623.02	6	2,348.63	6	2,074.17
1/4		1/4		1/4		1/4		1/4	3,439.68	1/4	3,166.00	1/4	2,891.70	1/4	2,617.31	1/4	2,342.91	1/4	2,068.45
1/2		1/2		1/2		1/2		1/2	3,433.98	1/2	3,160.30	1/2	2,885.98	1/2	2,611.59	1/2	2,337.20	1/2	2,062.73
3/4		3/4		3/4		3/4		3/4	3,428.28	3/4	3,154.60	3/4	2,880.26	3/4	2,605.87	3/4	2,331.48	3/4	2,057.01
7		7		7		7		7	3,422.57	7	3,148.90	7	2,874.55	7	2,600.16	7	2,325.76	7	2,051.29
1/4		1/4		1/4		1/4		1/4	3,416.87	1/4	3,143.19	1/4	2,868.83	1/4	2,594.44	1/4	2,320.05	1/4	2,045.58
1/2		1/2		1/2		1/2		1/2	3,411.16	1/2	3,137.48	1/2	2,863.12	1/2	2,588.72	1/2	2,314.33	1/2	2,039.86
3/4		3/4		3/4		3/4		3/4	3,405.46	3/4	3,131.78	3/4	2,857.40	3/4	2,583.01	3/4	2,308.61	3/4	2,034.14
8		8		8		8		8	3,399.76	8	3,126.07	8	2,851.68	8	2,577.29	8	2,302.90	8	2,028.42
1/4		1/4		1/4		1/4		1/4	3,394.06	1/4	3,120.36	1/4	2,845.97	1/4	2,571.57	1/4	2,297.18	1/4	2,022.70
1/2		1/2		1/2		1/2		1/2	3,388.35	1/2	3,114.64	1/2	2,840.25	1/2	2,565.86	1/2	2,291.47	1/2	2,016.98
3/4		3/4		3/4		3/4		3/4	3,382.65	3/4	3,108.92	3/4	2,834.53	3/4	2,560.14	3/4	2,285.75	3/4	2,011.26
9		9		9		9		9	3,376.95	9	3,103.21	9	2,828.82	9	2,554.42	9	2,280.03	9	2,005.54
1/4		1/4		1/4		1/4		1/4	3,616.36	1/4	3,371.25	1/4	3,097.49	1/4	2,823.10	1/4	2,548.71	1/4	2,274.32
1/2		1/2		1/2		1/2		1/2	3,613.31	1/2	3,365.55	1/2	3,091.78	1/2	2,817.38	1/2	2,542.99	1/2	2,268.60
3/4		3/4		3/4		3/4		3/4	3,610.26	3/4	3,359.85	3/4	3,086.06	3/4	2,811.67	3/4	2,537.27	3/4	2,262.88
10		10		10		10		10	3,607.21	10	3,354.15	10	3,080.34	10	2,805.95	10	2,531.56	10	2,257.17
1/4		1/4		1/4		1/4		1/4	3,603.62	1/4	3,348.44	1/4	3,074.63	1/4	2,800.23	1/4	2,525.84	1/4	2,251.45
1/2		1/2		1/2		1/2		1/2	3,600.03	1/2	3,342.74	1/2	3,068.91	1/2	2,794.52	1/2	2,520.13	1/2	2,245.74
3/4		3/4		3/4		3/4		3/4	3,596.43	3/4	3,337.04	3/4	3,063.19	3/4	2,788.80	3/4	2,514.41	3/4	2,240.02
11		11		11		11		11	3,592.84	11	3,331.34	11	3,057.48	11	2,783.08	11	2,508.69	11	2,234.31
1/4		1/4		1/4		1/4		1/4	3,588.70	1/4	3,325.64	1/4	3,051.76	1/4	2,777.37	1/4	2,502.98	1/4	2,228.59
1/2		1/2		1/2		1/2		1/2	3,584.56	1/2	3,319.94	1/2	3,046.04	1/2	2,771.65	1/2	2,497.26	1/2	2,222.87
3/4		3/4		3/4		3/4		3/4	3,580.42	3/4	3,314.24	3/4	3,040.33	3/4	2,765.93	3/4	2,491.54	3/4	2,217.15

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 TO TOP LIP OF THE "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "KELSO"

4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	1,936.91	0	1,662.40	0	1,387.88	0	1,113.36	0	838.85	0	564.43	0	300.61	0	31.82	0		0	
1/4	1,931.19	1/4	1,656.68	1/4	1,382.16	1/4	1,107.64	1/4	833.13	1/4	558.92	1/4	294.89	1/4	28.31	1/4		1/4	
1/2	1,925.47	1/2	1,650.96	1/2	1,376.44	1/2	1,101.92	1/2	827.41	1/2	553.41	1/2	289.17	1/2	24.80	1/2		1/2	
3/4	1,919.76	3/4	1,645.24	3/4	1,370.72	3/4	1,096.21	3/4	821.69	3/4	547.90	3/4	283.45	3/4	21.29	3/4		3/4	
1	1,914.04	1	1,639.52	1	1,365.00	1	1,090.49	1	815.97	1	542.39	1	277.73	1	17.78	1		1	
1/4	1,908.32	1/4	1,633.80	1/4	1,359.28	1/4	1,084.77	1/4	810.25	1/4	536.88	1/4	272.01	1/4		1/4		1/4	
1/2	1,902.60	1/2	1,628.08	1/2	1,353.56	1/2	1,079.05	1/2	804.53	1/2	531.38	1/2	266.29	1/2		1/2		1/2	
3/4	1,896.88	3/4	1,622.36	3/4	1,347.85	3/4	1,073.33	3/4	798.81	3/4	525.87	3/4	260.57	3/4		3/4		3/4	
2	1,891.16	2	1,616.64	2	1,342.13	2	1,067.61	2	793.09	2	520.36	2	254.86	2		2		2	
1/4	1,885.44	1/4	1,610.92	1/4	1,336.41	1/4	1,061.89	1/4	787.37	1/4	514.86	1/4	249.14	1/4		1/4		1/4	
1/2	1,879.72	1/2	1,605.21	1/2	1,330.69	1/2	1,056.17	1/2	781.65	1/2	509.36	1/2	243.42	1/2		1/2		1/2	
3/4	1,874.00	3/4	1,599.49	3/4	1,324.97	3/4	1,050.45	3/4	775.94	3/4	503.86	3/4	237.70	3/4		3/4		3/4	
3	1,868.28	3	1,593.77	3	1,319.25	3	1,044.73	3	770.22	3	498.36	3	231.98	3		3		3	
1/4	1,862.56	1/4	1,588.05	1/4	1,313.53	1/4	1,039.01	1/4	764.50	1/4	492.86	1/4	226.26	1/4		1/4		1/4	
1/2	1,856.85	1/2	1,582.33	1/2	1,307.81	1/2	1,033.30	1/2	758.78	1/2	487.37	1/2	220.54	1/2		1/2		1/2	
3/4	1,851.13	3/4	1,576.61	3/4	1,302.09	3/4	1,027.58	3/4	753.06	3/4	481.87	3/4	214.82	3/4		3/4		3/4	
4	1,845.41	4	1,570.89	4	1,296.37	4	1,021.86	4	747.34	4	476.37	4	209.11	4		4		4	
1/4	1,839.69	1/4	1,565.17	1/4	1,290.65	1/4	1,016.14	1/4	741.62	1/4	470.88	1/4	203.39	1/4		1/4		1/4	
1/2	1,833.97	1/2	1,559.45	1/2	1,284.94	1/2	1,010.42	1/2	735.90	1/2	465.39	1/2	197.67	1/2		1/2		1/2	
3/4	1,828.25	3/4	1,553.73	3/4	1,279.22	3/4	1,004.70	3/4	730.18	3/4	459.90	3/4	191.95	3/4		3/4		3/4	
5	1,822.53	5	1,548.01	5	1,273.50	5	998.98	5	724.46	5	454.41	5	186.23	5		5		5	
1/4	1,816.81	1/4	1,542.29	1/4	1,267.78	1/4	993.26	1/4	718.74	1/4	448.93	1/4	180.51	1/4		1/4		1/4	
1/2	1,811.09	1/2	1,536.58	1/2	1,262.06	1/2	987.54	1/2	713.03	1/2	443.44	1/2	174.79	1/2		1/2		1/2	
3/4	1,805.37	3/4	1,530.86	3/4	1,256.34	3/4	981.82	3/4	707.31	3/4	437.95	3/4	169.07	3/4		3/4		3/4	
6	1,799.65	6	1,525.14	6	1,250.62	6	976.10	6	701.59	6	432.46	6	163.35	6		6		6	
1/4	1,793.94	1/4	1,519.42	1/4	1,244.90	1/4	970.38	1/4	695.87	1/4	426.97	1/4	157.64	1/4		1/4		1/4	
1/2	1,788.22	1/2	1,513.70	1/2	1,239.18	1/2	964.67	1/2	690.15	1/2	421.48	1/2	151.92	1/2		1/2		1/2	
3/4	1,782.50	3/4	1,507.98	3/4	1,233.46	3/4	958.95	3/4	684.43	3/4	415.99	3/4	146.20	3/4		3/4		3/4	
7	1,776.78	7	1,502.26	7	1,227.74	7	953.23	7	678.71	7	410.50	7	140.48	7		7		7	
1/4	1,771.06	1/4	1,496.54	1/4	1,222.03	1/4	947.51	1/4	672.99	1/4	405.01	1/4	134.76	1/4		1/4		1/4	
1/2	1,765.34	1/2	1,490.82	1/2	1,216.31	1/2	941.79	1/2	667.27	1/2	399.52	1/2	129.04	1/2		1/2		1/2	
3/4	1,759.62	3/4	1,485.10	3/4	1,210.59	3/4	936.07	3/4	661.55	3/4	394.04	3/4	123.32	3/4		3/4		3/4	
8	1,753.90	8	1,479.38	8	1,204.87	8	930.35	8	655.83	8	388.55	8	117.60	8		8		8	
1/4	1,748.18	1/4	1,473.67	1/4	1,199.15	1/4	924.63	1/4	650.12	1/4	383.06	1/4	111.89	1/4		1/4		1/4	
1/2	1,742.46	1/2	1,467.95	1/2	1,193.43	1/2	918.91	1/2	644.40	1/2	377.57	1/2	106.17	1/2		1/2		1/2	
3/4	1,736.74	3/4	1,462.23	3/4	1,187.71	3/4	913.19	3/4	638.68	3/4	372.08	3/4	100.45	3/4		3/4		3/4	
9	1,731.03	9	1,456.51	9	1,181.99	9	907.47	9	632.96	9	366.59	9	94.73	9		9		9	
1/4	1,725.31	1/4	1,450.79	1/4	1,176.27	1/4	901.76	1/4	627.24	1/4	361.10	1/4	89.03	1/4		1/4		1/4	
1/2	1,719.59	1/2	1,445.07	1/2	1,170.55	1/2	896.04	1/2	621.52	1/2	355.61	1/2	83.32	1/2		1/2		1/2	
3/4	1,713.87	3/4	1,439.35	3/4	1,164.83	3/4	890.32	3/4	615.80	3/4	350.12	3/4	77.62	3/4		3/4		3/4	
10	1,708.15	10	1,433.63	10	1,159.12	10	884.60	10	610.08	10	344.63	10	71.92	10		10		10	
1/4	1,702.43	1/4	1,427.91	1/4	1,153.40	1/4	878.88	1/4	604.36	1/4	339.15	1/4	66.44	1/4		1/4		1/4	
1/2	1,696.71	1/2	1,422.19	1/2	1,147.68	1/2	873.16	1/2	598.64	1/2	333.66	1/2	60.97	1/2		1/2		1/2	
3/4	1,690.99	3/4	1,416.47	3/4	1,141.96	3/4	867.44	3/4	592.92	3/4	328.17	3/4	55.49	3/4		3/4		3/4	
11	1,685.27	11	1,410.76	11	1,136.24	11	861.72	11	587.21	11	322.68	11	50.02	11		11		11	
1/4	1,679.55	1/4	1,405.04	1/4	1,130.52	1/4	856.00	1/4	581.51	1/4	317.16	1/4	45.47	1/4		1/4		1/4	
1/2	1,673.83	1/2	1,399.32	1/2	1,124.80	1/2	850.28	1/2	575.82	1/2	311.64	1/2	40.92	1/2		1/2		1/2	
3/4	1,668.12	3/4	1,393.60	3/4	1,119.08	3/4	844.56	3/4	570.13	3/4	306.12	3/4	36.37	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

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ALL PRIOR TO 02/2017

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BARGE "KELSO"

4 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	3,579.82	0	3,311.20	0	3,037.43	0	2,763.19	0	2,488.95	0	2,214.69
1/4		1/4		1/4		1/4		1/4	3,575.14	1/4	3,305.51	1/4	3,031.71	1/4	2,757.47	1/4	2,483.24	1/4	2,208.97
1/2		1/2		1/2		1/2		1/2	3,570.46	1/2	3,299.81	1/2	3,026.00	1/2	2,751.76	1/2	2,477.52	1/2	2,203.26
3/4		3/4		3/4		3/4		3/4	3,565.78	3/4	3,294.11	3/4	3,020.29	3/4	2,746.05	3/4	2,471.81	3/4	2,197.54
1		1		1		1		1	3,560.56	1	3,288.41	1	3,014.57	1	2,740.33	1	2,466.10	1	2,191.83
1/4		1/4		1/4		1/4		1/4	3,555.33	1/4	3,282.71	1/4	3,008.86	1/4	2,734.62	1/4	2,460.38	1/4	2,186.11
1/2		1/2		1/2		1/2		1/2	3,550.11	1/2	3,277.01	1/2	3,003.15	1/2	2,728.91	1/2	2,454.67	1/2	2,180.39
3/4		3/4		3/4		3/4		3/4	3,544.89	3/4	3,271.32	3/4	2,997.43	3/4	2,723.19	3/4	2,448.96	3/4	2,174.68
2		2		2		2		2	3,539.19	2	3,265.62	2	2,991.72	2	2,717.48	2	2,443.24	2	2,168.96
1/4		1/4		1/4		1/4		1/4	3,533.48	1/4	3,259.92	1/4	2,986.01	1/4	2,711.77	1/4	2,437.53	1/4	2,163.25
1/2		1/2		1/2		1/2		1/2	3,527.78	1/2	3,254.22	1/2	2,980.29	1/2	2,706.05	1/2	2,431.82	1/2	2,157.53
3/4		3/4		3/4		3/4		3/4	3,522.08	3/4	3,248.52	3/4	2,974.58	3/4	2,700.34	3/4	2,426.10	3/4	2,151.82
3		3		3		3		3	3,516.38	3	3,242.83	3	2,968.87	3	2,694.63	3	2,420.39	3	2,146.10
1/4		1/4		1/4		1/4		1/4	3,510.68	1/4	3,237.13	1/4	2,963.15	1/4	2,688.91	1/4	2,414.68	1/4	2,140.38
1/2		1/2		1/2		1/2		1/2	3,504.98	1/2	3,231.43	1/2	2,957.44	1/2	2,683.20	1/2	2,408.96	1/2	2,134.67
3/4		3/4		3/4		3/4		3/4	3,499.28	3/4	3,225.73	3/4	2,951.73	3/4	2,677.49	3/4	2,403.25	3/4	2,128.95
4		4		4		4		4	3,493.58	4	3,220.03	4	2,946.01	4	2,671.77	4	2,397.54	4	2,123.24
1/4		1/4		1/4		1/4		1/4	3,487.88	1/4	3,214.33	1/4	2,940.30	1/4	2,666.06	1/4	2,391.82	1/4	2,117.52
1/2		1/2		1/2		1/2		1/2	3,482.18	1/2	3,208.64	1/2	2,934.59	1/2	2,660.35	1/2	2,386.11	1/2	2,111.81
3/4		3/4		3/4		3/4		3/4	3,476.48	3/4	3,202.94	3/4	2,928.87	3/4	2,654.63	3/4	2,380.40	3/4	2,106.09
5		5		5		5		5	3,470.78	5	3,197.24	5	2,923.16	5	2,648.92	5	2,374.68	5	2,100.37
1/4		1/4		1/4		1/4		1/4	3,465.08	1/4	3,191.54	1/4	2,917.45	1/4	2,643.21	1/4	2,368.97	1/4	2,094.66
1/2		1/2		1/2		1/2		1/2	3,459.38	1/2	3,185.84	1/2	2,911.73	1/2	2,637.49	1/2	2,363.26	1/2	2,088.94
3/4		3/4		3/4		3/4		3/4	3,453.67	3/4	3,180.14	3/4	2,906.02	3/4	2,631.78	3/4	2,357.54	3/4	2,083.23
6		6		6		6		6	3,447.97	6	3,174.45	6	2,900.31	6	2,626.07	6	2,351.83	6	2,077.51
1/4		1/4		1/4		1/4		1/4	3,442.27	1/4	3,168.75	1/4	2,894.59	1/4	2,620.36	1/4	2,346.12	1/4	2,071.79
1/2		1/2		1/2		1/2		1/2	3,436.57	1/2	3,163.05	1/2	2,888.88	1/2	2,614.64	1/2	2,340.40	1/2	2,066.08
3/4		3/4		3/4		3/4		3/4	3,430.87	3/4	3,157.35	3/4	2,883.17	3/4	2,608.93	3/4	2,334.69	3/4	2,060.36
7		7		7		7		7	3,425.17	7	3,151.65	7	2,877.45	7	2,603.22	7	2,328.98	7	2,054.65
1/4		1/4		1/4		1/4		1/4	3,419.47	1/4	3,145.95	1/4	2,871.74	1/4	2,597.50	1/4	2,323.26	1/4	2,048.93
1/2		1/2		1/2		1/2		1/2	3,413.77	1/2	3,140.25	1/2	2,866.03	1/2	2,591.79	1/2	2,317.55	1/2	2,043.22
3/4		3/4		3/4		3/4		3/4	3,408.07	3/4	3,134.55	3/4	2,860.31	3/4	2,586.08	3/4	2,311.84	3/4	2,037.50
8		8		8		8		8	3,402.37	8	3,128.84	8	2,854.60	8	2,580.36	8	2,306.12	8	2,031.78
1/4		1/4		1/4		1/4		1/4	3,396.68	1/4	3,123.13	1/4	2,848.89	1/4	2,574.65	1/4	2,300.41	1/4	2,026.07
1/2		1/2		1/2		1/2		1/2	3,390.98	1/2	3,117.41	1/2	2,843.17	1/2	2,568.94	1/2	2,294.70	1/2	2,020.35
3/4		3/4		3/4		3/4		3/4	3,385.28	3/4	3,111.70	3/4	2,837.46	3/4	2,563.22	3/4	2,288.98	3/4	2,014.64
9		9		9		9	3,624.55	9	3,379.58	9	3,105.99	9	2,831.75	9	2,557.51	9	2,283.27	9	2,008.92
1/4		1/4		1/4		1/4	3,621.50	1/4	3,373.88	1/4	3,100.27	1/4	2,826.03	1/4	2,551.80	1/4	2,277.56	1/4	2,003.20
1/2		1/2		1/2		1/2	3,618.46	1/2	3,368.19	1/2	3,094.56	1/2	2,820.32	1/2	2,546.08	1/2	2,271.84	1/2	1,997.49
3/4		3/4		3/4		3/4	3,615.41	3/4	3,362.49	3/4	3,088.85	3/4	2,814.61	3/4	2,540.37	3/4	2,266.13	3/4	1,991.77
10		10		10		10	3,611.82	10	3,356.79	10	3,083.13	10	2,808.89	10	2,534.66	10	2,260.41	10	1,986.06
1/4		1/4		1/4		1/4	3,608.23	1/4	3,351.09	1/4	3,077.42	1/4	2,803.18	1/4	2,528.94	1/4	2,254.70	1/4	1,980.34
1/2		1/2		1/2		1/2	3,604.63	1/2	3,345.39	1/2	3,071.71	1/2	2,797.47	1/2	2,523.23	1/2	2,248.98	1/2	1,974.63
3/4		3/4		3/4		3/4	3,601.04	3/4	3,339.69	3/4	3,065.99	3/4	2,791.75	3/4	2,517.52	3/4	2,243.27	3/4	1,968.91
11		11		11		11	3,596.91	11	3,334.00	11	3,060.28	11	2,786.04	11	2,511.80	11	2,237.55	11	1,963.19
1/4		1/4		1/4		1/4	3,592.77	1/4	3,328.30	1/4	3,054.57	1/4	2,780.33	1/4	2,506.09	1/4	2,231.84	1/4	1,957.48
1/2		1/2		1/2		1/2	3,588.63	1/2	3,322.60	1/2	3,048.85	1/2	2,774.61	1/2	2,500.38	1/2	2,226.12	1/2	1,951.76
3/4		3/4		3/4		3/4	3,584.50	3/4	3,316.90	3/4	3,043.14	3/4	2,768.90	3/4	2,494.66	3/4	2,220.41	3/4	1,946.05

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 LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KELSO"

4 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	1,940.33	0	1,665.97	0	1,391.61	0	1,117.26	0	842.90	0	568.54	0	294.72	0	28.29	0		0	
1/4	1,934.62	1/4	1,660.26	1/4	1,385.90	1/4	1,111.54	1/4	837.18	1/4	562.82	1/4	289.01	1/4	24.79	1/4		1/4	
1/2	1,928.90	1/2	1,654.54	1/2	1,380.18	1/2	1,105.82	1/2	831.47	1/2	557.11	1/2	283.29	1/2	21.28	1/2		1/2	
3/4	1,923.18	3/4	1,648.83	3/4	1,374.47	3/4	1,100.11	3/4	825.75	3/4	551.39	3/4	277.57	3/4	17.77	3/4		3/4	
1	1,917.47	1	1,643.11	1	1,368.75	1	1,094.39	1	820.03	1	545.68	1	271.86	1		1		1	
1/4	1,911.75	1/4	1,637.39	1/4	1,363.04	1/4	1,088.68	1/4	814.32	1/4	539.96	1/4	266.14	1/4		1/4		1/4	
1/2	1,906.04	1/2	1,631.68	1/2	1,357.32	1/2	1,082.96	1/2	808.60	1/2	534.25	1/2	260.43	1/2		1/2		1/2	
3/4	1,900.32	3/4	1,625.96	3/4	1,351.60	3/4	1,077.25	3/4	802.89	3/4	528.53	3/4	254.71	3/4		3/4		3/4	
2	1,894.60	2	1,620.25	2	1,345.89	2	1,071.53	2	797.17	2	522.82	2	249.00	2	2	2		2	
1/4	1,888.89	1/4	1,614.53	1/4	1,340.17	1/4	1,065.81	1/4	791.46	1/4	517.11	1/4	243.28	1/4		1/4		1/4	
1/2	1,883.17	1/2	1,608.81	1/2	1,334.46	1/2	1,060.10	1/2	785.74	1/2	511.40	1/2	237.57	1/2		1/2		1/2	
3/4	1,877.46	3/4	1,603.10	3/4	1,328.74	3/4	1,054.38	3/4	780.02	3/4	505.69	3/4	231.85	3/4		3/4		3/4	
3	1,871.74	3	1,597.38	3	1,323.02	3	1,048.67	3	774.31	3	499.98	3	226.13	3	3	3		3	
1/4	1,866.03	1/4	1,591.67	1/4	1,317.31	1/4	1,042.95	1/4	768.59	1/4	494.27	1/4	220.42	1/4		1/4		1/4	
1/2	1,860.31	1/2	1,585.95	1/2	1,311.59	1/2	1,037.23	1/2	762.88	1/2	488.56	1/2	214.70	1/2		1/2		1/2	
3/4	1,854.59	3/4	1,580.24	3/4	1,305.88	3/4	1,031.52	3/4	757.16	3/4	482.85	3/4	208.99	3/4		3/4		3/4	
4	1,848.88	4	1,574.52	4	1,300.16	4	1,025.80	4	751.44	4	477.15	4	203.27	4	4	4		4	
1/4	1,843.16	1/4	1,568.80	1/4	1,294.45	1/4	1,020.09	1/4	745.73	1/4	471.45	1/4	197.56	1/4		1/4		1/4	
1/2	1,837.45	1/2	1,563.09	1/2	1,288.73	1/2	1,014.37	1/2	740.01	1/2	465.75	1/2	191.84	1/2		1/2		1/2	
3/4	1,831.73	3/4	1,557.37	3/4	1,283.01	3/4	1,008.66	3/4	734.30	3/4	460.05	3/4	186.13	3/4		3/4		3/4	
5	1,826.02	5	1,551.66	5	1,277.30	5	1,002.94	5	728.58	5	454.35	5	180.41	5	5	5		5	
1/4	1,820.30	1/4	1,545.94	1/4	1,271.58	1/4	997.22	1/4	722.87	1/4	448.65	1/4	174.69	1/4		1/4		1/4	
1/2	1,814.58	1/2	1,540.23	1/2	1,265.87	1/2	991.51	1/2	717.15	1/2	442.95	1/2	168.98	1/2		1/2		1/2	
3/4	1,808.87	3/4	1,534.51	3/4	1,260.15	3/4	985.79	3/4	711.43	3/4	437.25	3/4	163.26	3/4		3/4		3/4	
6	1,803.15	6	1,528.79	6	1,254.44	6	980.08	6	705.72	6	431.55	6	157.55	6	6	6		6	
1/4	1,797.44	1/4	1,523.08	1/4	1,248.72	1/4	974.36	1/4	700.00	1/4	425.85	1/4	151.83	1/4		1/4		1/4	
1/2	1,791.72	1/2	1,517.36	1/2	1,243.00	1/2	968.65	1/2	694.29	1/2	420.15	1/2	146.12	1/2		1/2		1/2	
3/4	1,786.00	3/4	1,511.65	3/4	1,237.29	3/4	962.93	3/4	688.57	3/4	414.45	3/4	140.40	3/4		3/4		3/4	
7	1,780.29	7	1,505.93	7	1,231.57	7	957.21	7	682.86	7	408.75	7	134.68	7	7	7		7	
1/4	1,774.57	1/4	1,500.21	1/4	1,225.86	1/4	951.50	1/4	677.14	1/4	403.05	1/4	128.97	1/4		1/4		1/4	
1/2	1,768.86	1/2	1,494.50	1/2	1,220.14	1/2	945.78	1/2	671.42	1/2	397.35	1/2	123.25	1/2		1/2		1/2	
3/4	1,763.14	3/4	1,488.78	3/4	1,214.42	3/4	940.07	3/4	665.71	3/4	391.65	3/4	117.54	3/4		3/4		3/4	
8	1,757.43	8	1,483.07	8	1,208.71	8	934.35	8	659.99	8	385.95	8	111.82	8	8	8		8	
1/4	1,751.71	1/4	1,477.35	1/4	1,202.99	1/4	928.63	1/4	654.28	1/4	380.25	1/4	106.11	1/4		1/4		1/4	
1/2	1,745.99	1/2	1,471.64	1/2	1,197.28	1/2	922.92	1/2	648.56	1/2	374.55	1/2	100.39	1/2		1/2		1/2	
3/4	1,740.28	3/4	1,465.92	3/4	1,191.56	3/4	917.20	3/4	642.84	3/4	368.85	3/4	94.68	3/4		3/4		3/4	
9	1,734.56	9	1,460.20	9	1,185.85	9	911.49	9	637.13	9	363.15	9	88.98	9	9	9		9	
1/4	1,728.85	1/4	1,454.49	1/4	1,180.13	1/4	905.77	1/4	631.41	1/4	357.45	1/4	83.28	1/4		1/4		1/4	
1/2	1,723.13	1/2	1,448.77	1/2	1,174.41	1/2	900.06	1/2	625.70	1/2	351.75	1/2	77.58	1/2		1/2		1/2	
3/4	1,717.41	3/4	1,443.06	3/4	1,168.70	3/4	894.34	3/4	619.98	3/4	346.05	3/4	71.88	3/4		3/4		3/4	
10	1,711.70	10	1,437.34	10	1,162.98	10	888.62	10	614.27	10	340.35	10	66.41	10	10	10		10	
1/4	1,705.98	1/4	1,431.62	1/4	1,157.27	1/4	882.91	1/4	608.55	1/4	334.65	1/4	60.93	1/4		1/4		1/4	
1/2	1,700.27	1/2	1,425.91	1/2	1,151.55	1/2	877.19	1/2	602.83	1/2	328.95	1/2	55.46	1/2		1/2		1/2	
3/4	1,694.55	3/4	1,420.19	3/4	1,145.83	3/4	871.48	3/4	597.12	3/4	323.25	3/4	49.99	3/4		3/4		3/4	
11	1,688.84	11	1,414.48	11	1,140.12	11	865.76	11	591.40	11	317.54	11	45.44	11	11	11		11	
1/4	1,683.12	1/4	1,408.76	1/4	1,134.40	1/4	860.04	1/4	585.69	1/4	311.84	1/4	40.89	1/4		1/4		1/4	
1/2	1,677.40	1/2	1,403.05	1/2	1,128.69	1/2	854.33	1/2	579.97	1/2	306.14	1/2	36.35	1/2		1/2		1/2	
3/4	1,671.69	3/4	1,397.33	3/4	1,122.97	3/4	848.61	3/4	574.25	3/4	300.44	3/4	31.80	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

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



BARGE "KELSO"

5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	3,469.92	0	3,203.87	0	2,932.70	0	2,661.07	0	2,389.43	0	2,117.78
1/4		1/4		1/4		1/4		1/4	3,465.29	1/4	3,198.23	1/4	2,927.05	1/4	2,655.41	1/4	2,383.77	1/4	2,112.12
1/2		1/2		1/2		1/2		1/2	3,460.66	1/2	3,192.59	1/2	2,921.39	1/2	2,649.75	1/2	2,378.11	1/2	2,106.46
3/4		3/4		3/4		3/4		3/4	3,456.02	3/4	3,186.94	3/4	2,915.73	3/4	2,644.09	3/4	2,372.45	3/4	2,100.80
1		1		1		1		1	3,450.85	1	3,181.30	1	2,910.07	1	2,638.43	1	2,366.79	1	2,095.13
1/4		1/4		1/4		1/4		1/4	3,445.68	1/4	3,175.65	1/4	2,904.41	1/4	2,632.77	1/4	2,361.14	1/4	2,089.47
1/2		1/2		1/2		1/2		1/2	3,440.51	1/2	3,170.01	1/2	2,898.75	1/2	2,627.11	1/2	2,355.48	1/2	2,083.81
3/4		3/4		3/4		3/4		3/4	3,435.33	3/4	3,164.37	3/4	2,893.09	3/4	2,621.45	3/4	2,349.82	3/4	2,078.15
2		2		2		2		2	3,429.69	2	3,158.72	2	2,887.43	2	2,615.79	2	2,344.16	2	2,072.49
1/4		1/4		1/4		1/4		1/4	3,424.04	1/4	3,153.08	1/4	2,881.77	1/4	2,610.14	1/4	2,338.50	1/4	2,066.83
1/2		1/2		1/2		1/2		1/2	3,418.39	1/2	3,147.44	1/2	2,876.11	1/2	2,604.48	1/2	2,332.84	1/2	2,061.16
3/4		3/4		3/4		3/4		3/4	3,412.75	3/4	3,141.79	3/4	2,870.45	3/4	2,598.82	3/4	2,327.18	3/4	2,055.50
3		3		3		3		3	3,407.10	3	3,136.15	3	2,864.80	3	2,593.16	3	2,321.52	3	2,049.84
1/4		1/4		1/4		1/4		1/4	3,401.46	1/4	3,130.50	1/4	2,859.14	1/4	2,587.50	1/4	2,315.86	1/4	2,044.18
1/2		1/2		1/2		1/2		1/2	3,395.81	1/2	3,124.86	1/2	2,853.48	1/2	2,581.84	1/2	2,310.20	1/2	2,038.52
3/4		3/4		3/4		3/4		3/4	3,390.16	3/4	3,119.22	3/4	2,847.82	3/4	2,576.18	3/4	2,304.54	3/4	2,032.86
4		4		4		4		4	3,384.52	4	3,113.57	4	2,842.16	4	2,570.52	4	2,298.89	4	2,027.19
1/4		1/4		1/4		1/4		1/4	3,378.87	1/4	3,107.93	1/4	2,836.50	1/4	2,564.86	1/4	2,293.23	1/4	2,021.53
1/2		1/2		1/2		1/2		1/2	3,373.22	1/2	3,102.28	1/2	2,830.84	1/2	2,559.20	1/2	2,287.57	1/2	2,015.87
3/4		3/4		3/4		3/4		3/4	3,367.58	3/4	3,096.64	3/4	2,825.18	3/4	2,553.54	3/4	2,281.91	3/4	2,010.21
5		5		5		5		5	3,361.93	5	3,091.00	5	2,819.52	5	2,547.89	5	2,276.25	5	2,004.55
1/4		1/4		1/4		1/4		1/4	3,356.28	1/4	3,085.35	1/4	2,813.86	1/4	2,542.23	1/4	2,270.59	1/4	1,998.89
1/2		1/2		1/2		1/2		1/2	3,350.64	1/2	3,079.71	1/2	2,808.20	1/2	2,536.57	1/2	2,264.93	1/2	1,993.23
3/4		3/4		3/4		3/4		3/4	3,344.99	3/4	3,074.06	3/4	2,802.55	3/4	2,530.91	3/4	2,259.27	3/4	1,987.56
6		6		6		6		6	3,339.35	6	3,068.42	6	2,796.89	6	2,525.25	6	2,253.61	6	1,981.90
1/4		1/4		1/4		1/4		1/4	3,333.70	1/4	3,062.78	1/4	2,791.23	1/4	2,519.59	1/4	2,247.95	1/4	1,976.24
1/2		1/2		1/2		1/2		1/2	3,328.05	1/2	3,057.13	1/2	2,785.57	1/2	2,513.93	1/2	2,242.29	1/2	1,970.58
3/4		3/4		3/4		3/4		3/4	3,322.41	3/4	3,051.49	3/4	2,779.91	3/4	2,508.27	3/4	2,236.64	3/4	1,964.92
7		7		7		7		7	3,316.76	7	3,045.84	7	2,774.25	7	2,502.61	7	2,230.98	7	1,959.26
1/4		1/4		1/4		1/4		1/4	3,311.11	1/4	3,040.20	1/4	2,768.59	1/4	2,496.95	1/4	2,225.32	1/4	1,953.59
1/2		1/2		1/2		1/2		1/2	3,305.47	1/2	3,034.55	1/2	2,762.93	1/2	2,491.29	1/2	2,219.66	1/2	1,947.93
3/4		3/4		3/4		3/4		3/4	3,299.82	3/4	3,028.91	3/4	2,757.27	3/4	2,485.64	3/4	2,214.00	3/4	1,942.27
8		8		8		8		8	3,294.18	8	3,023.25	8	2,751.61	8	2,479.98	8	2,208.34	8	1,936.61
1/4		1/4		1/4		1/4		1/4	3,288.53	1/4	3,017.59	1/4	2,745.95	1/4	2,474.32	1/4	2,202.68	1/4	1,930.95
1/2		1/2		1/2		1/2		1/2	3,282.89	1/2	3,011.93	1/2	2,740.30	1/2	2,468.66	1/2	2,197.02	1/2	1,925.29
3/4		3/4		3/4		3/4		3/4	3,277.24	3/4	3,006.27	3/4	2,734.64	3/4	2,463.00	3/4	2,191.36	3/4	1,919.62
9		9		9		9	3,514.17	9	3,271.60	9	3,000.61	9	2,728.98	9	2,457.34	9	2,185.70	9	1,913.96
1/4		1/4		1/4		1/4	3,511.16	1/4	3,265.96	1/4	2,994.95	1/4	2,723.32	1/4	2,451.68	1/4	2,180.04	1/4	1,908.30
1/2		1/2		1/2		1/2	3,508.15	1/2	3,260.31	1/2	2,989.30	1/2	2,717.66	1/2	2,446.02	1/2	2,174.39	1/2	1,902.64
3/4		3/4		3/4		3/4	3,505.14	3/4	3,254.67	3/4	2,983.64	3/4	2,712.00	3/4	2,440.36	3/4	2,168.73	3/4	1,896.98
10		10		10		10	3,501.58	10	3,249.03	10	2,977.98	10	2,706.34	10	2,434.70	10	2,163.07	10	1,891.32
1/4		1/4		1/4		1/4	3,498.03	1/4	3,243.38	1/4	2,972.32	1/4	2,700.68	1/4	2,429.04	1/4	2,157.41	1/4	1,885.65
1/2		1/2		1/2		1/2	3,494.48	1/2	3,237.74	1/2	2,966.66	1/2	2,695.02	1/2	2,423.39	1/2	2,151.75	1/2	1,879.99
3/4		3/4		3/4		3/4	3,490.93	3/4	3,232.09	3/4	2,961.00	3/4	2,689.36	3/4	2,417.73	3/4	2,146.09	3/4	1,874.33
11		11		11		11	3,486.83	11	3,226.45	11	2,955.34	11	2,683.70	11	2,412.07	11	2,140.43	11	1,868.67
1/4		1/4		1/4		1/4	3,482.74	1/4	3,220.81	1/4	2,949.68	1/4	2,678.04	1/4	2,406.41	1/4	2,134.77	1/4	1,863.01
1/2		1/2		1/2		1/2	3,478.65	1/2	3,215.16	1/2	2,944.02	1/2	2,672.39	1/2	2,400.75	1/2	2,129.10	1/2	1,857.35
3/4		3/4		3/4		3/4	3,474.56	3/4	3,209.52	3/4	2,938.36	3/4	2,666.73	3/4	2,395.09	3/4	2,123.44	3/4	1,851.69

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KELSO"

5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-00 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	1,846.02	0	1,574.29	0	1,303.30	0	1,031.63	0	759.92	0	489.76	0	244.11	0	14.05	0		0	
1/4	1,840.36	1/4	1,568.65	1/4	1,297.65	1/4	1,025.97	1/4	754.26	1/4	484.43	1/4	238.97	1/4	11.48	1/4		1/4	
1/2	1,834.70	1/2	1,563.00	1/2	1,291.99	1/2	1,020.31	1/2	748.60	1/2	479.11	1/2	233.82	1/2	8.92	1/2		1/2	
3/4	1,829.04	3/4	1,557.36	3/4	1,286.33	3/4	1,014.65	3/4	742.94	3/4	473.79	3/4	228.68	3/4	6.36	3/4		3/4	
1	1,823.38	1	1,551.71	1	1,280.67	1	1,008.99	1	737.28	1	468.50	1	223.57	1		1		1	
1/4	1,817.72	1/4	1,546.07	1/4	1,275.01	1/4	1,003.33	1/4	731.62	1/4	463.22	1/4	218.46	1/4		1/4		1/4	
1/2	1,812.05	1/2	1,540.42	1/2	1,269.35	1/2	997.67	1/2	725.96	1/2	457.93	1/2	213.35	1/2		1/2		1/2	
3/4	1,806.39	3/4	1,534.78	3/4	1,263.70	3/4	992.01	3/4	720.30	3/4	452.64	3/4	208.24	3/4		3/4		3/4	
2	1,800.73	2	1,529.13	2	1,258.04	2	986.35	2	714.64	2	447.42	2	203.16	2		2		2	
1/4	1,795.07	1/4	1,523.49	1/4	1,252.38	1/4	980.69	1/4	708.98	1/4	442.19	1/4	198.08	1/4		1/4		1/4	
1/2	1,789.41	1/2	1,517.84	1/2	1,246.72	1/2	975.03	1/2	703.32	1/2	436.96	1/2	193.00	1/2		1/2		1/2	
3/4	1,783.75	3/4	1,512.20	3/4	1,241.06	3/4	969.37	3/4	697.66	3/4	431.73	3/4	187.93	3/4		3/4		3/4	
3	1,778.08	3	1,506.55	3	1,235.40	3	963.71	3	692.00	3	426.54	3	182.88	3		3		3	
1/4	1,772.42	1/4	1,500.91	1/4	1,229.75	1/4	958.05	1/4	686.34	1/4	421.34	1/4	177.84	1/4		1/4		1/4	
1/2	1,766.76	1/2	1,495.26	1/2	1,224.09	1/2	952.38	1/2	680.68	1/2	416.15	1/2	172.79	1/2		1/2		1/2	
3/4	1,761.10	3/4	1,489.62	3/4	1,218.43	3/4	946.72	3/4	675.02	3/4	410.95	3/4	167.75	3/4		3/4		3/4	
4	1,755.44	4	1,483.97	4	1,212.77	4	941.06	4	669.35	4	405.80	4	162.73	4		4		4	
1/4	1,749.78	1/4	1,478.33	1/4	1,207.11	1/4	935.40	1/4	663.69	1/4	400.65	1/4	157.72	1/4		1/4		1/4	
1/2	1,744.11	1/2	1,472.68	1/2	1,201.45	1/2	929.74	1/2	658.03	1/2	395.50	1/2	152.71	1/2		1/2		1/2	
3/4	1,738.45	3/4	1,467.03	3/4	1,195.79	3/4	924.08	3/4	652.37	3/4	390.35	3/4	147.70	3/4		3/4		3/4	
5	1,732.79	5	1,461.39	5	1,190.13	5	918.42	5	646.71	5	385.23	5	142.72	5		5		5	
1/4	1,727.13	1/4	1,455.74	1/4	1,184.47	1/4	912.76	1/4	641.05	1/4	380.11	1/4	137.74	1/4		1/4		1/4	
1/2	1,721.47	1/2	1,450.10	1/2	1,178.81	1/2	907.10	1/2	635.39	1/2	374.99	1/2	132.77	1/2		1/2		1/2	
3/4	1,715.81	3/4	1,444.45	3/4	1,173.15	3/4	901.44	3/4	629.73	3/4	369.87	3/4	127.79	3/4		3/4		3/4	
6	1,710.15	6	1,438.81	6	1,167.49	6	895.78	6	624.07	6	364.78	6	122.84	6		6		6	
1/4	1,704.48	1/4	1,433.16	1/4	1,161.83	1/4	890.12	1/4	618.41	1/4	359.70	1/4	117.90	1/4		1/4		1/4	
1/2	1,698.82	1/2	1,427.52	1/2	1,156.17	1/2	884.46	1/2	612.75	1/2	354.61	1/2	112.95	1/2		1/2		1/2	
3/4	1,693.16	3/4	1,421.87	3/4	1,150.51	3/4	878.80	3/4	607.09	3/4	349.53	3/4	108.01	3/4		3/4		3/4	
7	1,687.50	7	1,416.23	7	1,144.84	7	873.14	7	601.43	7	344.47	7	103.10	7		7		7	
1/4	1,681.84	1/4	1,410.58	1/4	1,139.18	1/4	867.48	1/4	595.77	1/4	339.42	1/4	98.18	1/4		1/4		1/4	
1/2	1,676.18	1/2	1,404.94	1/2	1,133.52	1/2	861.81	1/2	590.11	1/2	334.37	1/2	93.27	1/2		1/2		1/2	
3/4	1,670.51	3/4	1,399.29	3/4	1,127.86	3/4	856.15	3/4	584.45	3/4	329.32	3/4	88.36	3/4		3/4		3/4	
8	1,664.85	8	1,393.65	8	1,122.20	8	850.49	8	578.79	8	324.30	8	83.47	8		8		8	
1/4	1,659.19	1/4	1,388.00	1/4	1,116.54	1/4	844.83	1/4	573.13	1/4	319.28	1/4	78.59	1/4		1/4		1/4	
1/2	1,653.53	1/2	1,382.36	1/2	1,110.88	1/2	839.17	1/2	567.47	1/2	314.26	1/2	73.70	1/2		1/2		1/2	
3/4	1,647.87	3/4	1,376.71	3/4	1,105.22	3/4	833.51	3/4	561.81	3/4	309.24	3/4	68.82	3/4		3/4		3/4	
9	1,642.21	9	1,371.07	9	1,099.56	9	827.85	9	556.17	9	304.26	9	63.98	9		9		9	
1/4	1,636.54	1/4	1,365.42	1/4	1,093.90	1/4	822.19	1/4	550.53	1/4	299.27	1/4	59.14	1/4		1/4		1/4	
1/2	1,630.88	1/2	1,359.78	1/2	1,088.24	1/2	816.53	1/2	544.89	1/2	294.29	1/2	54.29	1/2		1/2		1/2	
3/4	1,625.22	3/4	1,354.13	3/4	1,082.58	3/4	810.87	3/4	539.25	3/4	289.30	3/4	49.45	3/4		3/4		3/4	
10	1,619.56	10	1,348.49	10	1,076.92	10	805.21	10	533.66	10	284.34	10	44.87	10		10		10	
1/4	1,613.90	1/4	1,342.84	1/4	1,071.26	1/4	799.55	1/4	528.07	1/4	279.37	1/4	40.29	1/4		1/4		1/4	
1/2	1,608.24	1/2	1,337.20	1/2	1,065.60	1/2	793.89	1/2	522.47	1/2	274.41	1/2	35.71	1/2		1/2		1/2	
3/4	1,602.57	3/4	1,331.55	3/4	1,059.94	3/4	788.23	3/4	516.88	3/4	269.44	3/4	31.13	3/4		3/4		3/4	
11	1,596.92	11	1,325.90	11	1,054.28	11	782.57	11	511.43	11	264.39	11	27.50	11		11		11	
1/4	1,591.26	1/4	1,320.26	1/4	1,048.61	1/4	776.91	1/4	505.98	1/4	259.35	1/4	23.87	1/4		1/4		1/4	
1/2	1,585.60	1/2	1,314.61	1/2	1,042.95	1/2	771.25	1/2	500.53	1/2	254.30	1/2	20.24	1/2		1/2		1/2	
3/4	1,579.94	3/4	1,308.96	3/4	1,037.29	3/4	765.58	3/4	495.08	3/4	249.25	3/4	16.61	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "KELSO"

5 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	3,488.32	0	3,223.01	0	2,951.59	0	2,679.68	0	2,407.78	0	2,135.86
1/4		1/4		1/4		1/4		1/4	3,483.68	1/4	3,217.36	1/4	2,945.93	1/4	2,674.02	1/4	2,402.11	1/4	2,130.19
1/2		1/2		1/2		1/2		1/2	3,479.04	1/2	3,211.71	1/2	2,940.26	1/2	2,668.36	1/2	2,396.45	1/2	2,124.53
3/4		3/4		3/4		3/4		3/4	3,474.40	3/4	3,206.06	3/4	2,934.60	3/4	2,662.69	3/4	2,390.78	3/4	2,118.86
1		1		1		1		1	3,469.77	1	3,200.41	1	2,928.93	1	2,657.03	1	2,385.12	1	2,113.19
1/4		1/4		1/4		1/4		1/4	3,464.59	1/4	3,194.77	1/4	2,923.27	1/4	2,651.36	1/4	2,379.46	1/4	2,107.53
1/2		1/2		1/2		1/2		1/2	3,459.41	1/2	3,189.12	1/2	2,917.60	1/2	2,645.70	1/2	2,373.79	1/2	2,101.86
3/4		3/4		3/4		3/4		3/4	3,454.23	3/4	3,183.47	3/4	2,911.94	3/4	2,640.03	3/4	2,368.13	3/4	2,096.19
2		2		2		2		2	3,449.05	2	3,177.82	2	2,906.27	2	2,634.37	2	2,362.46	2	2,090.52
1/4		1/4		1/4		1/4		1/4	3,443.40	1/4	3,172.17	1/4	2,900.61	1/4	2,628.70	1/4	2,356.80	1/4	2,084.86
1/2		1/2		1/2		1/2		1/2	3,437.75	1/2	3,166.52	1/2	2,894.94	1/2	2,623.04	1/2	2,351.13	1/2	2,079.19
3/4		3/4		3/4		3/4		3/4	3,432.10	3/4	3,160.87	3/4	2,889.28	3/4	2,617.37	3/4	2,345.47	3/4	2,073.52
3		3		3		3		3	3,426.45	3	3,155.22	3	2,883.61	3	2,611.71	3	2,339.80	3	2,067.86
1/4		1/4		1/4		1/4		1/4	3,420.79	1/4	3,149.57	1/4	2,877.95	1/4	2,606.04	1/4	2,334.14	1/4	2,062.19
1/2		1/2		1/2		1/2		1/2	3,415.14	1/2	3,143.92	1/2	2,872.28	1/2	2,600.38	1/2	2,328.47	1/2	2,056.52
3/4		3/4		3/4		3/4		3/4	3,409.49	3/4	3,138.27	3/4	2,866.62	3/4	2,594.71	3/4	2,322.81	3/4	2,050.85
4		4		4		4		4	3,403.84	4	3,132.62	4	2,860.95	4	2,589.05	4	2,317.14	4	2,045.19
1/4		1/4		1/4		1/4		1/4	3,398.19	1/4	3,126.97	1/4	2,855.29	1/4	2,583.38	1/4	2,311.48	1/4	2,039.52
1/2		1/2		1/2		1/2		1/2	3,392.53	1/2	3,121.32	1/2	2,849.63	1/2	2,577.72	1/2	2,305.81	1/2	2,033.85
3/4		3/4		3/4		3/4		3/4	3,386.88	3/4	3,115.67	3/4	2,843.96	3/4	2,572.06	3/4	2,300.15	3/4	2,028.19
5		5		5		5		5	3,381.23	5	3,110.02	5	2,838.30	5	2,566.39	5	2,294.48	5	2,022.52
1/4		1/4		1/4		1/4		1/4	3,375.58	1/4	3,104.37	1/4	2,832.63	1/4	2,560.73	1/4	2,288.82	1/4	2,016.85
1/2		1/2		1/2		1/2		1/2	3,369.93	1/2	3,098.72	1/2	2,826.97	1/2	2,555.06	1/2	2,283.16	1/2	2,011.18
3/4		3/4		3/4		3/4		3/4	3,364.27	3/4	3,093.07	3/4	2,821.30	3/4	2,549.40	3/4	2,277.49	3/4	2,005.52
6		6		6		6		6	3,358.62	6	3,087.42	6	2,815.64	6	2,543.73	6	2,271.83	6	1,999.85
1/4		1/4		1/4		1/4		1/4	3,352.97	1/4	3,081.78	1/4	2,809.97	1/4	2,538.07	1/4	2,266.16	1/4	1,994.18
1/2		1/2		1/2		1/2		1/2	3,347.32	1/2	3,076.13	1/2	2,804.31	1/2	2,532.40	1/2	2,260.50	1/2	1,988.51
3/4		3/4		3/4		3/4		3/4	3,341.66	3/4	3,070.48	3/4	2,798.64	3/4	2,526.74	3/4	2,254.83	3/4	1,982.85
7		7		7		7		7	3,336.01	7	3,064.83	7	2,792.98	7	2,521.07	7	2,249.17	7	1,977.18
1/4		1/4		1/4		1/4		1/4	3,330.36	1/4	3,059.18	1/4	2,787.31	1/4	2,515.41	1/4	2,243.50	1/4	1,971.51
1/2		1/2		1/2		1/2		1/2	3,324.71	1/2	3,053.53	1/2	2,781.65	1/2	2,509.74	1/2	2,237.84	1/2	1,965.85
3/4		3/4		3/4		3/4		3/4	3,319.06	3/4	3,047.88	3/4	2,775.98	3/4	2,504.08	3/4	2,232.17	3/4	1,960.18
8		8		8		8		8	3,313.40	8	3,042.23	8	2,770.32	8	2,498.41	8	2,226.51	8	1,954.51
1/4		1/4		1/4		1/4		1/4	3,307.76	1/4	3,036.56	1/4	2,764.65	1/4	2,492.75	1/4	2,220.84	1/4	1,948.84
1/2		1/2		1/2		1/2		1/2	3,302.11	1/2	3,030.90	1/2	2,758.99	1/2	2,487.08	1/2	2,215.18	1/2	1,943.18
3/4		3/4		3/4		3/4		3/4	3,296.46	3/4	3,025.23	3/4	2,753.33	3/4	2,481.42	3/4	2,209.51	3/4	1,937.51
9		9		9		9		9	3,290.81	9	3,019.57	9	2,747.66	9	2,475.76	9	2,203.85	9	1,931.84
1/4		1/4		1/4		1/4		1/4	3,527.98	1/4	3,285.16	1/4	3,013.90	1/4	2,742.00	1/4	2,470.09	1/4	2,198.18
1/2		1/2		1/2		1/2		1/2	3,524.96	1/2	3,279.51	1/2	3,008.24	1/2	2,736.33	1/2	2,464.43	1/2	2,192.52
3/4		3/4		3/4		3/4		3/4	3,521.95	3/4	3,273.86	3/4	3,002.57	3/4	2,730.67	3/4	2,458.76	3/4	2,186.86
10		10		10		10		10	3,518.93	10	3,268.21	10	2,996.91	10	2,725.00	10	2,453.10	10	2,181.19
1/4		1/4		1/4		1/4		1/4	3,515.38	1/4	3,262.56	1/4	2,991.24	1/4	2,719.34	1/4	2,447.43	1/4	2,175.53
1/2		1/2		1/2		1/2		1/2	3,511.82	1/2	3,256.91	1/2	2,985.58	1/2	2,713.67	1/2	2,441.77	1/2	2,169.86
3/4		3/4		3/4		3/4		3/4	3,508.26	3/4	3,251.26	3/4	2,979.91	3/4	2,708.01	3/4	2,436.10	3/4	2,164.20
11		11		11		11		11	3,504.71	11	3,245.61	11	2,974.25	11	2,702.34	11	2,430.44	11	2,158.53
1/4		1/4		1/4		1/4		1/4	3,500.61	1/4	3,239.96	1/4	2,968.58	1/4	2,696.68	1/4	2,424.77	1/4	2,152.86
1/2		1/2		1/2		1/2		1/2	3,496.51	1/2	3,234.31	1/2	2,962.92	1/2	2,691.01	1/2	2,419.11	1/2	2,147.20
3/4		3/4		3/4		3/4		3/4	3,492.42	3/4	3,228.66	3/4	2,957.25	3/4	2,685.35	3/4	2,413.44	3/4	2,141.53

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF THE "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KELSO"

5 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-01"

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	1,863.84	0	1,591.82	0	1,320.58	0	1,048.71	0	776.84	0	505.67	0	249.43	0	16.63	0		0	
1/4	1,858.17	1/4	1,586.17	1/4	1,314.91	1/4	1,043.05	1/4	771.18	1/4	500.13	1/4	244.28	1/4	14.07	1/4		1/4	
1/2	1,852.50	1/2	1,580.52	1/2	1,309.25	1/2	1,037.38	1/2	765.51	1/2	494.60	1/2	239.13	1/2	11.50	1/2		1/2	
3/4	1,846.83	3/4	1,574.86	3/4	1,303.58	3/4	1,031.72	3/4	759.85	3/4	489.07	3/4	233.99	3/4	8.94	3/4		3/4	
1	1,841.17	1	1,569.21	1	1,297.92	1	1,026.05	1	754.19	1	483.54	1	228.84	1	6.37	1		1	
1/4	1,835.50	1/4	1,563.56	1/4	1,292.26	1/4	1,020.39	1/4	748.52	1/4	478.04	1/4	223.73	1/4		1/4		1/4	
1/2	1,829.83	1/2	1,557.91	1/2	1,286.59	1/2	1,014.73	1/2	742.86	1/2	472.54	1/2	218.61	1/2		1/2		1/2	
3/4	1,824.17	3/4	1,552.26	3/4	1,280.93	3/4	1,009.06	3/4	737.19	3/4	467.04	3/4	213.50	3/4		3/4		3/4	
2	1,818.50	2	1,546.61	2	1,275.27	2	1,003.40	2	731.53	2	461.55	2	208.39	2		2		2	
1/4	1,812.83	1/4	1,540.96	1/4	1,269.60	1/4	997.73	1/4	725.87	1/4	456.09	1/4	203.31	1/4		1/4		1/4	
1/2	1,807.16	1/2	1,535.31	1/2	1,263.94	1/2	992.07	1/2	720.20	1/2	450.63	1/2	198.22	1/2		1/2		1/2	
3/4	1,801.50	3/4	1,529.66	3/4	1,258.27	3/4	986.41	3/4	714.54	3/4	445.17	3/4	193.14	3/4		3/4		3/4	
3	1,795.83	3	1,524.01	3	1,252.61	3	980.74	3	708.88	3	439.71	3	188.06	3		3		3	
1/4	1,790.16	1/4	1,518.36	1/4	1,246.95	1/4	975.08	1/4	703.21	1/4	434.28	1/4	183.01	1/4		1/4		1/4	
1/2	1,784.50	1/2	1,512.71	1/2	1,241.28	1/2	969.41	1/2	697.55	1/2	428.86	1/2	177.97	1/2		1/2		1/2	
3/4	1,778.83	3/4	1,507.06	3/4	1,235.62	3/4	963.75	3/4	691.88	3/4	423.43	3/4	172.92	3/4		3/4		3/4	
4	1,773.16	4	1,501.41	4	1,229.95	4	958.09	4	686.22	4	418.01	4	167.87	4		4		4	
1/4	1,767.49	1/4	1,495.75	1/4	1,224.29	1/4	952.42	1/4	680.56	1/4	412.62	1/4	162.86	1/4		1/4		1/4	
1/2	1,761.83	1/2	1,490.10	1/2	1,218.63	1/2	946.76	1/2	674.89	1/2	407.24	1/2	157.84	1/2		1/2		1/2	
3/4	1,756.16	3/4	1,484.45	3/4	1,212.96	3/4	941.10	3/4	669.23	3/4	401.86	3/4	152.83	3/4		3/4		3/4	
5	1,750.49	5	1,478.80	5	1,207.30	5	935.43	5	663.56	5	396.47	5	147.81	5		5		5	
1/4	1,744.83	1/4	1,473.15	1/4	1,201.63	1/4	929.77	1/4	657.90	1/4	391.12	1/4	142.83	1/4		1/4		1/4	
1/2	1,739.16	1/2	1,467.50	1/2	1,195.97	1/2	924.10	1/2	652.24	1/2	385.77	1/2	137.85	1/2		1/2		1/2	
3/4	1,733.49	3/4	1,461.85	3/4	1,190.31	3/4	918.44	3/4	646.57	3/4	380.42	3/4	132.87	3/4		3/4		3/4	
6	1,727.82	6	1,456.20	6	1,184.64	6	912.78	6	640.91	6	375.07	6	127.89	6		6		6	
1/4	1,722.16	1/4	1,450.55	1/4	1,178.98	1/4	907.11	1/4	635.24	1/4	369.75	1/4	122.94	1/4		1/4		1/4	
1/2	1,716.49	1/2	1,444.90	1/2	1,173.32	1/2	901.45	1/2	629.58	1/2	364.44	1/2	117.99	1/2		1/2		1/2	
3/4	1,710.82	3/4	1,439.25	3/4	1,167.65	3/4	895.78	3/4	623.92	3/4	359.12	3/4	113.04	3/4		3/4		3/4	
7	1,705.15	7	1,433.60	7	1,161.99	7	890.12	7	618.25	7	353.80	7	108.09	7		7		7	
1/4	1,699.49	1/4	1,427.95	1/4	1,156.32	1/4	884.46	1/4	612.59	1/4	348.52	1/4	103.18	1/4		1/4		1/4	
1/2	1,693.82	1/2	1,422.30	1/2	1,150.66	1/2	878.79	1/2	606.93	1/2	343.24	1/2	98.26	1/2		1/2		1/2	
3/4	1,688.15	3/4	1,416.65	3/4	1,145.00	3/4	873.13	3/4	601.26	3/4	337.95	3/4	93.34	3/4		3/4		3/4	
8	1,682.49	8	1,410.99	8	1,139.33	8	867.46	8	595.60	8	332.67	8	88.43	8		8		8	
1/4	1,676.82	1/4	1,405.34	1/4	1,133.67	1/4	861.80	1/4	589.94	1/4	327.42	1/4	83.54	1/4		1/4		1/4	
1/2	1,671.15	1/2	1,399.69	1/2	1,128.00	1/2	856.14	1/2	584.27	1/2	322.17	1/2	78.65	1/2		1/2		1/2	
3/4	1,665.48	3/4	1,394.04	3/4	1,122.34	3/4	850.47	3/4	578.61	3/4	316.92	3/4	73.76	3/4		3/4		3/4	
9	1,659.82	9	1,388.39	9	1,116.68	9	844.81	9	572.95	9	311.67	9	68.88	9		9		9	
1/4	1,654.15	1/4	1,382.74	1/4	1,111.01	1/4	839.14	1/4	567.31	1/4	306.45	1/4	64.03	1/4		1/4		1/4	
1/2	1,648.48	1/2	1,377.09	1/2	1,105.35	1/2	833.48	1/2	561.66	1/2	301.24	1/2	59.19	1/2		1/2		1/2	
3/4	1,642.82	3/4	1,371.44	3/4	1,099.68	3/4	827.82	3/4	556.02	3/4	296.02	3/4	54.34	3/4		3/4		3/4	
10	1,637.15	10	1,365.79	10	1,094.02	10	822.15	10	550.38	10	290.81	10	49.50	10		10		10	
1/4	1,631.48	1/4	1,360.14	1/4	1,088.36	1/4	816.49	1/4	544.77	1/4	285.62	1/4	44.91	1/4		1/4		1/4	
1/2	1,625.81	1/2	1,354.49	1/2	1,082.69	1/2	810.83	1/2	539.16	1/2	280.44	1/2	40.33	1/2		1/2		1/2	
3/4	1,620.15	3/4	1,348.84	3/4	1,077.03	3/4	805.16	3/4	533.55	3/4	275.25	3/4	35.74	3/4		3/4		3/4	
11	1,614.48	11	1,343.19	11	1,071.36	11	799.50	11	527.94	11	270.07	11	31.16	11		11		11	
1/4	1,608.81	1/4	1,337.53	1/4	1,065.70	1/4	793.83	1/4	522.37	1/4	264.91	1/4	27.53	1/4		1/4		1/4	
1/2	1,603.15	1/2	1,331.88	1/2	1,060.04	1/2	788.17	1/2	516.80	1/2	259.75	1/2	23.90	1/2		1/2		1/2	
3/4	1,597.48	3/4	1,326.23	3/4	1,054.37	3/4	782.51	3/4	511.24	3/4	254.59	3/4	20.27	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2017 SW CL
CALCULATED: 02/10/2017 CL
PRINTED: 02/12/2017 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2017

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