



BARGE "FMT 1410"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 CENTER	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
3 CENTER	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS - 00-1/2"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/2'

LENGTH BETWEEN DRAFT MARKS: 163'-09"

November 21, 2019

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

<http://www.pmacorp.net>



BARGE "FMT 1410"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	4.07	0	221.24	0	469.72	0	714.81	0	959.61	0	1,207.34	0	1,455.06	0	1,702.68	0	1,949.80	0	2,197.60
1/4	4.94	1/4	226.42	1/4	474.90	1/4	719.81	1/4	964.77	1/4	1,212.50	1/4	1,460.23	1/4	1,707.83	1/4	1,954.97	1/4	2,202.76
1/2	5.80	1/2	231.60	1/2	480.07	1/2	724.82	1/2	969.93	1/2	1,217.66	1/2	1,465.39	1/2	1,712.97	1/2	1,960.13	1/2	2,207.92
3/4	6.66	3/4	236.77	3/4	485.25	3/4	729.82	3/4	975.09	3/4	1,222.82	3/4	1,470.55	3/4	1,718.12	3/4	1,965.29	3/4	2,213.09
1	7.52	1	241.95	1	490.43	1	734.83	1	980.25	1	1,227.98	1	1,475.71	1	1,723.27	1	1,970.45	1	2,218.25
1/4	10.11	1/4	247.13	1/4	495.60	1/4	739.83	1/4	985.41	1/4	1,233.14	1/4	1,480.87	1/4	1,728.41	1/4	1,975.61	1/4	2,223.41
1/2	12.70	1/2	252.30	1/2	500.78	1/2	744.84	1/2	990.57	1/2	1,238.30	1/2	1,486.03	1/2	1,733.56	1/2	1,980.78	1/2	2,228.57
3/4	15.28	3/4	257.48	3/4	505.96	3/4	749.84	3/4	995.74	3/4	1,243.46	3/4	1,491.19	3/4	1,738.70	3/4	1,985.94	3/4	2,233.73
2	17.87	2	262.66	2	511.13	2	754.85	2	1,000.90	2	1,248.62	2	1,496.35	2	1,743.85	2	1,991.10	2	2,238.90
1/4	22.18	1/4	267.83	1/4	516.31	1/4	759.85	1/4	1,006.06	1/4	1,253.79	1/4	1,501.51	1/4	1,748.99	1/4	1,996.26	1/4	2,244.06
1/2	26.49	1/2	273.01	1/2	521.49	1/2	764.86	1/2	1,011.22	1/2	1,258.95	1/2	1,506.67	1/2	1,754.14	1/2	2,001.43	1/2	2,249.22
3/4	30.81	3/4	278.19	3/4	526.66	3/4	769.86	3/4	1,016.38	3/4	1,264.11	3/4	1,511.82	3/4	1,759.28	3/4	2,006.59	3/4	2,254.38
3	35.12	3	283.36	3	531.84	3	774.87	3	1,021.54	3	1,269.27	3	1,516.98	3	1,764.43	3	2,011.75	3	2,259.55
1/4	40.25	1/4	288.54	1/4	537.02	1/4	779.89	1/4	1,026.70	1/4	1,274.43	1/4	1,522.14	1/4	1,769.58	1/4	2,016.91	1/4	2,264.71
1/2	45.38	1/2	293.72	1/2	542.19	1/2	784.92	1/2	1,031.86	1/2	1,279.59	1/2	1,527.30	1/2	1,774.72	1/2	2,022.08	1/2	2,269.87
3/4	50.51	3/4	298.89	3/4	547.37	3/4	789.95	3/4	1,037.02	3/4	1,284.75	3/4	1,532.45	3/4	1,779.87	3/4	2,027.24	3/4	2,275.03
4	55.64	4	304.07	4	552.55	4	794.98	4	1,042.18	4	1,289.91	4	1,537.61	4	1,785.01	4	2,032.40	4	2,280.20
1/4	60.81	1/4	309.25	1/4	557.72	1/4	800.01	1/4	1,047.35	1/4	1,295.07	1/4	1,542.77	1/4	1,790.16	1/4	2,037.56	1/4	2,285.36
1/2	65.97	1/2	314.42	1/2	562.90	1/2	805.04	1/2	1,052.51	1/2	1,300.23	1/2	1,547.92	1/2	1,795.30	1/2	2,042.73	1/2	2,290.52
3/4	71.14	3/4	319.60	3/4	568.08	3/4	810.07	3/4	1,057.67	3/4	1,305.40	3/4	1,553.08	3/4	1,800.45	3/4	2,047.89	3/4	2,295.68
5	76.30	5	324.77	5	573.25	5	815.10	5	1,062.83	5	1,310.56	5	1,558.24	5	1,805.59	5	2,053.05	5	2,300.85
1/4	81.47	1/4	329.95	1/4	578.42	1/4	820.26	1/4	1,067.99	1/4	1,315.72	1/4	1,563.40	1/4	1,810.74	1/4	2,058.21	1/4	2,306.01
1/2	86.65	1/2	335.13	1/2	583.59	1/2	825.42	1/2	1,073.15	1/2	1,320.88	1/2	1,568.55	1/2	1,815.88	1/2	2,063.38	1/2	2,311.17
3/4	91.82	3/4	340.30	3/4	588.76	3/4	830.58	3/4	1,078.31	3/4	1,326.04	3/4	1,573.71	3/4	1,821.03	3/4	2,068.54	3/4	2,316.33
6	97.00	6	345.48	6	593.93	6	835.74	6	1,083.47	6	1,331.20	6	1,578.87	6	1,826.18	6	2,073.70	6	2,321.50
1/4	102.18	1/4	350.66	1/4	599.09	1/4	840.91	1/4	1,088.63	1/4	1,336.36	1/4	1,584.02	1/4	1,831.32	1/4	2,078.86	1/4	2,326.66
1/2	107.35	1/2	355.83	1/2	604.26	1/2	846.07	1/2	1,093.79	1/2	1,341.52	1/2	1,589.18	1/2	1,836.47	1/2	2,084.03	1/2	2,331.82
3/4	112.53	3/4	361.01	3/4	609.43	3/4	851.23	3/4	1,098.96	3/4	1,346.68	3/4	1,594.34	3/4	1,841.61	3/4	2,089.19	3/4	2,336.98
7	117.71	7	366.19	7	614.60	7	856.39	7	1,104.12	7	1,351.84	7	1,599.50	7	1,846.76	7	2,094.35	7	2,342.15
1/4	122.88	1/4	371.36	1/4	619.62	1/4	861.55	1/4	1,109.28	1/4	1,357.01	1/4	1,604.65	1/4	1,851.90	1/4	2,099.51	1/4	2,347.30
1/2	128.06	1/2	376.54	1/2	624.64	1/2	866.71	1/2	1,114.44	1/2	1,362.17	1/2	1,609.81	1/2	1,857.05	1/2	2,104.67	1/2	2,352.46
3/4	133.24	3/4	381.72	3/4	629.66	3/4	871.87	3/4	1,119.60	3/4	1,367.33	3/4	1,614.97	3/4	1,862.19	3/4	2,109.84	3/4	2,357.62
8	138.41	8	386.89	8	634.68	8	877.03	8	1,124.76	8	1,372.49	8	1,620.13	8	1,867.34	8	2,115.00	8	2,362.77
1/4	143.59	1/4	392.07	1/4	639.70	1/4	882.19	1/4	1,129.92	1/4	1,377.65	1/4	1,625.29	1/4	1,872.49	1/4	2,120.16	1/4	2,367.93
1/2	148.77	1/2	397.25	1/2	644.71	1/2	887.35	1/2	1,135.08	1/2	1,382.81	1/2	1,630.45	1/2	1,877.63	1/2	2,125.32	1/2	2,373.09
3/4	153.94	3/4	402.42	3/4	649.73	3/4	892.52	3/4	1,140.24	3/4	1,387.97	3/4	1,635.60	3/4	1,882.78	3/4	2,130.49	3/4	2,378.25
9	159.12	9	407.60	9	654.75	9	897.68	9	1,145.40	9	1,393.13	9	1,640.76	9	1,887.92	9	2,135.65	9	2,383.40
1/4	164.30	1/4	412.78	1/4	659.75	1/4	902.84	1/4	1,150.57	1/4	1,398.29	1/4	1,645.92	1/4	1,893.07	1/4	2,140.81	1/4	2,388.56
1/2	169.47	1/2	417.95	1/2	664.76	1/2	908.00	1/2	1,155.73	1/2	1,403.45	1/2	1,651.08	1/2	1,898.21	1/2	2,145.97	1/2	2,393.72
3/4	174.65	3/4	423.13	3/4	669.76	3/4	913.16	3/4	1,160.89	3/4	1,408.62	3/4	1,656.24	3/4	1,903.36	3/4	2,151.14	3/4	2,398.87
10	179.83	10	428.31	10	674.77	10	918.32	10	1,166.05	10	1,413.78	10	1,661.40	10	1,908.50	10	2,156.30	10	2,404.03
1/4	185.00	1/4	433.48	1/4	679.77	1/4	923.48	1/4	1,171.21	1/4	1,418.94	1/4	1,666.56	1/4	1,913.67	1/4	2,161.46	1/4	2,409.19
1/2	190.18	1/2	438.66	1/2	684.78	1/2	928.64	1/2	1,176.37	1/2	1,424.10	1/2	1,671.72	1/2	1,918.83	1/2	2,166.62	1/2	2,414.35
3/4	195.36	3/4	443.84	3/4	689.78	3/4	933.80	3/4	1,181.53	3/4	1,429.26	3/4	1,676.88	3/4	1,923.99	3/4	2,171.79	3/4	2,419.50
11	200.54	11	449.01	11	694.79	11	938.96	11	1,186.69	11	1,434.42	11	1,682.04	11	1,929.15	11	2,176.95	11	2,424.66
1/4	205.71	1/4	454.19	1/4	699.79	1/4	944.13	1/4	1,191.85	1/4	1,439.58	1/4	1,687.20	1/4	1,934.32	1/4	2,182.11	1/4	2,429.82
1/2	210.89	1/2	459.37	1/2	704.80	1/2	949.29	1/2	1,197.01	1/2	1,444.74	1/2	1,692.36	1/2	1,939.48	1/2	2,187.27	1/2	2,434.97
3/4	216.07	3/4	464.54	3/4	709.80	3/4	954.45	3/4	1,202.18	3/4	1,449.90	3/4	1,697.52	3/4	1,944.64	3/4	2,192.44	3/4	2,440.13

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD

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



BARGE "FMT 1410"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,445.29	0	2,674.09	0	2,885.48	0	3,096.88	0	3,308.28	0		0		0		0		0	
1/4	2,450.45	1/4	2,678.49	1/4	2,889.89	1/4	3,101.28	1/4	3,312.68	1/4		1/4		1/4		1/4		1/4	
1/2	2,455.60	1/2	2,682.89	1/2	2,894.29	1/2	3,105.69	1/2	3,317.08	1/2		1/2		1/2		1/2		1/2	
3/4	2,460.76	3/4	2,687.30	3/4	2,898.69	3/4	3,110.09	3/4	3,321.49	3/4		3/4		3/4		3/4		3/4	
1	2,465.92	1	2,691.70	1	2,903.10	1	3,114.50	1	3,325.89	1		1		1		1		1	
1/4	2,471.08	1/4	2,696.11	1/4	2,907.50	1/4	3,118.90	1/4	3,330.30	1/4		1/4		1/4		1/4		1/4	
1/2	2,476.23	1/2	2,700.51	1/2	2,911.91	1/2	3,123.30	1/2	3,334.70	1/2		1/2		1/2		1/2		1/2	
3/4	2,481.39	3/4	2,704.91	3/4	2,916.31	3/4	3,127.71	3/4	3,339.10	3/4		3/4		3/4		3/4		3/4	
2	2,486.55	2	2,709.32	2	2,920.71	2	3,132.11	2	3,343.51	2		2		2		2		2	
1/4	2,491.70	1/4	2,713.72	1/4	2,925.12	1/4	3,136.52	1/4	3,347.91	1/4		1/4		1/4		1/4		1/4	
1/2	2,496.86	1/2	2,718.13	1/2	2,929.52	1/2	3,140.92	1/2	3,352.32	1/2		1/2		1/2		1/2		1/2	
3/4	2,502.02	3/4	2,722.53	3/4	2,933.93	3/4	3,145.32	3/4	3,356.72	3/4		3/4		3/4		3/4		3/4	
3	2,507.18	3	2,726.93	3	2,938.33	3	3,149.73	3	3,361.13	3		3		3		3		3	
1/4	2,512.33	1/4	2,731.34	1/4	2,942.74	1/4	3,154.13	1/4	3,365.52	1/4		1/4		1/4		1/4		1/4	
1/2	2,517.49	1/2	2,735.74	1/2	2,947.14	1/2	3,158.54	1/2	3,369.91	1/2		1/2		1/2		1/2		1/2	
3/4	2,522.65	3/4	2,740.15	3/4	2,951.54	3/4	3,162.94	3/4	3,374.30	3/4		3/4		3/4		3/4		3/4	
4	2,527.80	4	2,744.55	4	2,955.95	4	3,167.34	4	3,378.69	4		4		4		4		4	
1/4	2,532.95	1/4	2,748.95	1/4	2,960.35	1/4	3,171.75	1/4	3,383.05	1/4		1/4		1/4		1/4		1/4	
1/2	2,538.09	1/2	2,753.36	1/2	2,964.76	1/2	3,176.15	1/2	3,387.41	1/2		1/2		1/2		1/2		1/2	
3/4	2,543.23	3/4	2,757.76	3/4	2,969.16	3/4	3,180.56	3/4	3,391.77	3/4		3/4		3/4		3/4		3/4	
5	2,548.37	5	2,762.17	5	2,973.56	5	3,184.96	5	3,396.13	5		5		5		5		5	
1/4	2,553.51	1/4	2,766.57	1/4	2,977.97	1/4	3,189.36	1/4	3,400.44	1/4		1/4		1/4		1/4		1/4	
1/2	2,558.66	1/2	2,770.98	1/2	2,982.37	1/2	3,193.77	1/2	3,404.76	1/2		1/2		1/2		1/2		1/2	
3/4	2,563.80	3/4	2,775.38	3/4	2,986.78	3/4	3,198.17	3/4	3,409.07	3/4		3/4		3/4		3/4		3/4	
6	2,568.94	6	2,779.78	6	2,991.18	6	3,202.58	6	3,413.38	6		6		6		6		6	
1/4	2,573.31	1/4	2,784.19	1/4	2,995.58	1/4	3,206.98	1/4	3,415.97	1/4		1/4		1/4		1/4		1/4	
1/2	2,577.68	1/2	2,788.59	1/2	2,999.99	1/2	3,211.39	1/2	3,418.55	1/2		1/2		1/2		1/2		1/2	
3/4	2,582.05	3/4	2,793.00	3/4	3,004.39	3/4	3,215.79	3/4	3,421.14	3/4		3/4		3/4		3/4		3/4	
7	2,586.42	7	2,797.40	7	3,008.80	7	3,220.19	7	3,423.73	7		7		7		7		7	
1/4	2,590.79	1/4	2,801.80	1/4	3,013.20	1/4	3,224.60	1/4	3,424.59	1/4		1/4		1/4		1/4		1/4	
1/2	2,595.16	1/2	2,806.21	1/2	3,017.61	1/2	3,229.00	1/2	3,425.45	1/2		1/2		1/2		1/2		1/2	
3/4	2,599.53	3/4	2,810.61	3/4	3,022.01	3/4	3,233.41	3/4	3,426.31	3/4		3/4		3/4		3/4		3/4	
8	2,603.90	8	2,815.02	8	3,026.41	8	3,237.81	8	3,427.18	8		8		8		8		8	
1/4	2,608.27	1/4	2,819.42	1/4	3,030.82	1/4	3,242.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,612.63	1/2	2,823.82	1/2	3,035.22	1/2	3,246.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,617.00	3/4	2,828.23	3/4	3,039.63	3/4	3,251.02	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,621.37	9	2,832.63	9	3,044.03	9	3,255.43	9		9		9		9		9		9	
1/4	2,625.74	1/4	2,837.04	1/4	3,048.43	1/4	3,259.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,630.11	1/2	2,841.44	1/2	3,052.84	1/2	3,264.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,634.48	3/4	2,845.85	3/4	3,057.24	3/4	3,268.64	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,638.85	10	2,850.25	10	3,061.65	10	3,273.04	10		10		10		10		10		10	
1/4	2,643.26	1/4	2,854.65	1/4	3,066.05	1/4	3,277.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,647.66	1/2	2,859.06	1/2	3,070.45	1/2	3,281.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,652.06	3/4	2,863.46	3/4	3,074.86	3/4	3,286.26	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,656.47	11	2,867.87	11	3,079.26	11	3,290.66	11		11		11		11		11		11	
1/4	2,660.87	1/4	2,872.27	1/4	3,083.67	1/4	3,295.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,665.28	1/2	2,876.67	1/2	3,088.07	1/2	3,299.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,669.68	3/4	2,881.08	3/4	3,092.47	3/4	3,303.87	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2019 JS
CALCULATED: 11/21/2019 CL
PRINTED: 11/21/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "FMT 1410"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 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	0.73	0	241.26	0	516.47	0	788.26	0	1,060.05	0	1,335.27	0	1,610.50	0	1,885.72	0	2,160.94	0	2,436.16
1/4	1.69	1/4	246.99	1/4	522.21	1/4	793.82	1/4	1,065.79	1/4	1,341.01	1/4	1,616.23	1/4	1,891.45	1/4	2,166.68	1/4	2,441.90
1/2	2.64	1/2	252.73	1/2	527.94	1/2	799.38	1/2	1,071.52	1/2	1,346.74	1/2	1,621.96	1/2	1,897.19	1/2	2,172.41	1/2	2,447.63
3/4	3.59	3/4	258.46	3/4	533.67	3/4	804.95	3/4	1,077.25	3/4	1,352.48	3/4	1,627.70	3/4	1,902.92	3/4	2,178.14	3/4	2,453.37
1	4.55	1	264.20	1	539.41	1	810.51	1	1,082.99	1	1,358.21	1	1,633.43	1	1,908.65	1	2,183.88	1	2,459.10
1/4	7.42	1/4	269.93	1/4	545.14	1/4	816.07	1/4	1,088.72	1/4	1,363.94	1/4	1,639.17	1/4	1,914.39	1/4	2,189.61	1/4	2,464.83
1/2	10.28	1/2	275.66	1/2	550.88	1/2	821.63	1/2	1,094.45	1/2	1,369.68	1/2	1,644.90	1/2	1,920.12	1/2	2,195.34	1/2	2,470.57
3/4	13.15	3/4	281.40	3/4	556.61	3/4	827.19	3/4	1,100.19	3/4	1,375.41	3/4	1,650.63	3/4	1,925.86	3/4	2,201.08	3/4	2,476.30
2	16.01	2	287.13	2	562.34	2	832.75	2	1,105.92	2	1,381.14	2	1,656.37	2	1,931.59	2	2,206.81	2	2,482.03
1/4	20.79	1/4	292.86	1/4	568.08	1/4	838.31	1/4	1,111.66	1/4	1,386.88	1/4	1,662.10	1/4	1,937.32	1/4	2,212.55	1/4	2,487.77
1/2	25.56	1/2	298.60	1/2	573.81	1/2	843.87	1/2	1,117.39	1/2	1,392.61	1/2	1,667.83	1/2	1,943.06	1/2	2,218.28	1/2	2,493.50
3/4	30.34	3/4	304.33	3/4	579.54	3/4	849.43	3/4	1,123.12	3/4	1,398.35	3/4	1,673.57	3/4	1,948.79	3/4	2,224.01	3/4	2,499.24
3	35.12	3	310.06	3	585.28	3	855.00	3	1,128.86	3	1,404.08	3	1,679.30	3	1,954.52	3	2,229.75	3	2,504.97
1/4	40.80	1/4	315.80	1/4	591.01	1/4	860.56	1/4	1,134.59	1/4	1,409.81	1/4	1,685.04	1/4	1,960.26	1/4	2,235.48	1/4	2,510.70
1/2	46.48	1/2	321.53	1/2	596.74	1/2	866.12	1/2	1,140.32	1/2	1,415.55	1/2	1,690.77	1/2	1,965.99	1/2	2,241.21	1/2	2,516.44
3/4	52.17	3/4	327.27	3/4	602.48	3/4	871.68	3/4	1,146.06	3/4	1,421.28	3/4	1,696.50	3/4	1,971.73	3/4	2,246.95	3/4	2,522.17
4	57.85	4	333.00	4	608.21	4	877.24	4	1,151.79	4	1,427.01	4	1,702.24	4	1,977.46	4	2,252.68	4	2,527.90
1/4	63.57	1/4	338.73	1/4	613.95	1/4	882.81	1/4	1,157.53	1/4	1,432.75	1/4	1,707.97	1/4	1,983.19	1/4	2,258.42	1/4	2,533.64
1/2	69.29	1/2	344.47	1/2	619.68	1/2	888.37	1/2	1,163.26	1/2	1,438.48	1/2	1,713.70	1/2	1,988.93	1/2	2,264.15	1/2	2,539.37
3/4	75.01	3/4	350.20	3/4	625.41	3/4	893.94	3/4	1,168.99	3/4	1,444.22	3/4	1,719.44	3/4	1,994.66	3/4	2,269.88	3/4	2,545.11
5	80.73	5	355.93	5	631.15	5	899.51	5	1,174.73	5	1,449.95	5	1,725.17	5	2,000.39	5	2,275.62	5	2,550.84
1/4	86.46	1/4	361.67	1/4	636.88	1/4	905.24	1/4	1,180.46	1/4	1,455.68	1/4	1,730.91	1/4	2,006.13	1/4	2,281.35	1/4	2,556.57
1/2	92.19	1/2	367.40	1/2	642.61	1/2	910.97	1/2	1,186.20	1/2	1,461.42	1/2	1,736.64	1/2	2,011.86	1/2	2,287.08	1/2	2,562.31
3/4	97.92	3/4	373.13	3/4	648.35	3/4	916.71	3/4	1,191.93	3/4	1,467.15	3/4	1,742.37	3/4	2,017.60	3/4	2,292.82	3/4	2,568.04
6	103.65	6	378.87	6	654.08	6	922.44	6	1,197.66	6	1,472.89	6	1,748.11	6	2,023.33	6	2,298.55	6	2,573.77
1/4	109.39	1/4	384.60	1/4	659.81	1/4	928.17	1/4	1,203.40	1/4	1,478.62	1/4	1,753.84	1/4	2,029.06	1/4	2,304.29	1/4	2,579.51
1/2	115.12	1/2	390.33	1/2	665.55	1/2	933.91	1/2	1,209.13	1/2	1,484.35	1/2	1,759.58	1/2	2,034.80	1/2	2,310.02	1/2	2,585.24
3/4	120.86	3/4	396.07	3/4	671.28	3/4	939.64	3/4	1,214.86	3/4	1,490.09	3/4	1,765.31	3/4	2,040.53	3/4	2,315.75	3/4	2,590.98
7	126.59	7	401.80	7	677.01	7	945.38	7	1,220.60	7	1,495.82	7	1,771.04	7	2,046.27	7	2,321.49	7	2,596.71
1/4	132.32	1/4	407.54	1/4	682.58	1/4	951.11	1/4	1,226.33	1/4	1,501.55	1/4	1,776.78	1/4	2,052.00	1/4	2,327.22	1/4	2,602.44
1/2	138.06	1/2	413.27	1/2	688.15	1/2	956.84	1/2	1,232.07	1/2	1,507.29	1/2	1,782.51	1/2	2,057.73	1/2	2,332.96	1/2	2,608.18
3/4	143.79	3/4	419.00	3/4	693.72	3/4	962.58	3/4	1,237.80	3/4	1,513.02	3/4	1,788.24	3/4	2,063.47	3/4	2,338.69	3/4	2,613.91
8	149.52	8	424.74	8	699.28	8	968.31	8	1,243.53	8	1,518.76	8	1,793.98	8	2,069.20	8	2,344.42	8	2,619.65
1/4	155.26	1/4	430.47	1/4	704.84	1/4	974.04	1/4	1,249.27	1/4	1,524.49	1/4	1,799.71	1/4	2,074.93	1/4	2,350.16	1/4	2,625.38
1/2	160.99	1/2	436.20	1/2	710.40	1/2	979.78	1/2	1,255.00	1/2	1,530.22	1/2	1,805.45	1/2	2,080.67	1/2	2,355.89	1/2	2,631.11
3/4	166.72	3/4	441.94	3/4	715.97	3/4	985.51	3/4	1,260.73	3/4	1,535.96	3/4	1,811.18	3/4	2,086.40	3/4	2,361.62	3/4	2,636.85
9	172.46	9	447.67	9	721.53	9	991.25	9	1,266.47	9	1,541.69	9	1,816.91	9	2,092.14	9	2,367.36	9	2,642.58
1/4	178.19	1/4	453.40	1/4	727.09	1/4	996.98	1/4	1,272.20	1/4	1,547.42	1/4	1,822.65	1/4	2,097.87	1/4	2,373.09	1/4	2,648.31
1/2	183.93	1/2	459.14	1/2	732.65	1/2	1,002.71	1/2	1,277.94	1/2	1,553.16	1/2	1,828.38	1/2	2,103.60	1/2	2,378.83	1/2	2,654.05
3/4	189.66	3/4	464.87	3/4	738.21	3/4	1,008.45	3/4	1,283.67	3/4	1,558.89	3/4	1,834.11	3/4	2,109.34	3/4	2,384.56	3/4	2,659.78
10	195.39	10	470.61	10	743.77	10	1,014.18	10	1,289.40	10	1,564.63	10	1,839.85	10	2,115.07	10	2,390.29	10	2,665.52
1/4	201.13	1/4	476.34	1/4	749.33	1/4	1,019.92	1/4	1,295.14	1/4	1,570.36	1/4	1,845.58	1/4	2,120.80	1/4	2,396.03	1/4	2,671.25
1/2	206.86	1/2	482.07	1/2	754.89	1/2	1,025.65	1/2	1,300.87	1/2	1,576.09	1/2	1,851.32	1/2	2,126.54	1/2	2,401.76	1/2	2,676.98
3/4	212.59	3/4	487.81	3/4	760.46	3/4	1,031.38	3/4	1,306.61	3/4	1,581.83	3/4	1,857.05	3/4	2,132.27	3/4	2,407.49	3/4	2,682.72
11	218.33	11	493.54	11	766.02	11	1,037.12	11	1,312.34	11	1,587.56	11	1,862.78	11	2,138.01	11	2,413.23	11	2,688.45
1/4	224.06	1/4	499.27	1/4	771.58	1/4	1,042.85	1/4	1,318.07	1/4	1,593.30	1/4	1,868.52	1/4	2,143.74	1/4	2,418.96	1/4	2,694.18
1/2	229.79	1/2	505.01	1/2	777.14	1/2	1,048.58	1/2	1,323.81	1/2	1,599.03	1/2	1,874.25	1/2	2,149.47	1/2	2,424.70	1/2	2,699.92
3/4	235.53	3/4	510.74	3/4	782.70	3/4	1,054.32	3/4	1,329.54	3/4	1,604.76	3/4	1,879.99	3/4	2,155.21	3/4	2,430.43	3/4	2,705.65

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-06" FORWARD OF AFT BULKHEAD

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



BARGE "FMT 1410"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,711.39	0	2,986.61	0	3,261.83	0	3,537.05	0	3,812.28	0		0		0		0		0	
1/4	2,717.12	1/4	2,992.34	1/4	3,267.56	1/4	3,542.79	1/4	3,818.01	1/4		1/4		1/4		1/4		1/4	
1/2	2,722.85	1/2	2,998.08	1/2	3,273.30	1/2	3,548.52	1/2	3,823.74	1/2		1/2		1/2		1/2		1/2	
3/4	2,728.59	3/4	3,003.81	3/4	3,279.03	3/4	3,554.25	3/4	3,829.48	3/4		3/4		3/4		3/4		3/4	
1	2,734.32	1	3,009.54	1	3,284.77	1	3,559.99	1	3,835.21	1		1		1		1		1	
1/4	2,740.06	1/4	3,015.28	1/4	3,290.50	1/4	3,565.72	1/4	3,840.94	1/4		1/4		1/4		1/4		1/4	
1/2	2,745.79	1/2	3,021.01	1/2	3,296.23	1/2	3,571.46	1/2	3,846.68	1/2		1/2		1/2		1/2		1/2	
3/4	2,751.52	3/4	3,026.75	3/4	3,301.97	3/4	3,577.19	3/4	3,852.41	3/4		3/4		3/4		3/4		3/4	
2	2,757.26	2	3,032.48	2	3,307.70	2	3,582.92	2	3,858.15	2		2		2		2		2	
1/4	2,762.99	1/4	3,038.21	1/4	3,313.44	1/4	3,588.66	1/4	3,863.88	1/4		1/4		1/4		1/4		1/4	
1/2	2,768.72	1/2	3,043.95	1/2	3,319.17	1/2	3,594.39	1/2	3,869.62	1/2		1/2		1/2		1/2		1/2	
3/4	2,774.46	3/4	3,049.68	3/4	3,324.90	3/4	3,600.13	3/4	3,875.36	3/4		3/4		3/4		3/4		3/4	
3	2,780.19	3	3,055.41	3	3,330.64	3	3,605.86	3	3,881.10	3		3		3		3		3	
1/4	2,785.93	1/4	3,061.15	1/4	3,336.37	1/4	3,611.59	1/4	3,886.82	1/4		1/4		1/4		1/4		1/4	
1/2	2,791.66	1/2	3,066.88	1/2	3,342.10	1/2	3,617.33	1/2	3,892.53	1/2		1/2		1/2		1/2		1/2	
3/4	2,797.39	3/4	3,072.62	3/4	3,347.84	3/4	3,623.06	3/4	3,898.25	3/4		3/4		3/4		3/4		3/4	
4	2,803.13	4	3,078.35	4	3,353.57	4	3,628.79	4	3,903.97	4		4		4		4		4	
1/4	2,808.86	1/4	3,084.08	1/4	3,359.31	1/4	3,634.53	1/4	3,909.66	1/4		1/4		1/4		1/4		1/4	
1/2	2,814.59	1/2	3,089.82	1/2	3,365.04	1/2	3,640.26	1/2	3,915.34	1/2		1/2		1/2		1/2		1/2	
3/4	2,820.33	3/4	3,095.55	3/4	3,370.77	3/4	3,646.00	3/4	3,921.03	3/4		3/4		3/4		3/4		3/4	
5	2,826.06	5	3,101.28	5	3,376.51	5	3,651.73	5	3,926.71	5		5		5		5		5	
1/4	2,831.80	1/4	3,107.02	1/4	3,382.24	1/4	3,657.46	1/4	3,931.49	1/4		1/4		1/4		1/4		1/4	
1/2	2,837.53	1/2	3,112.75	1/2	3,387.97	1/2	3,663.20	1/2	3,936.26	1/2		1/2		1/2		1/2		1/2	
3/4	2,843.26	3/4	3,118.49	3/4	3,393.71	3/4	3,668.93	3/4	3,941.04	3/4		3/4		3/4		3/4		3/4	
6	2,849.00	6	3,124.22	6	3,399.44	6	3,674.66	6	3,945.81	6		6		6		6		6	
1/4	2,854.73	1/4	3,129.95	1/4	3,405.18	1/4	3,680.40	1/4	3,948.68	1/4		1/4		1/4		1/4		1/4	
1/2	2,860.46	1/2	3,135.69	1/2	3,410.91	1/2	3,686.13	1/2	3,951.54	1/2		1/2		1/2		1/2		1/2	
3/4	2,866.20	3/4	3,141.42	3/4	3,416.64	3/4	3,691.87	3/4	3,954.41	3/4		3/4		3/4		3/4		3/4	
7	2,871.93	7	3,147.15	7	3,422.38	7	3,697.60	7	3,957.28	7		7		7		7		7	
1/4	2,877.67	1/4	3,152.89	1/4	3,428.11	1/4	3,703.33	1/4	3,958.23	1/4		1/4		1/4		1/4		1/4	
1/2	2,883.40	1/2	3,158.62	1/2	3,433.84	1/2	3,709.07	1/2	3,959.19	1/2		1/2		1/2		1/2		1/2	
3/4	2,889.13	3/4	3,164.36	3/4	3,439.58	3/4	3,714.80	3/4	3,960.14	3/4		3/4		3/4		3/4		3/4	
8	2,894.87	8	3,170.09	8	3,445.31	8	3,720.53	8	3,961.09	8		8		8		8		8	
1/4	2,900.60	1/4	3,175.82	1/4	3,451.05	1/4	3,726.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,906.34	1/2	3,181.56	1/2	3,456.78	1/2	3,732.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,912.07	3/4	3,187.29	3/4	3,462.51	3/4	3,737.74	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,917.80	9	3,193.03	9	3,468.25	9	3,743.47	9		9		9		9		9		9	
1/4	2,923.54	1/4	3,198.76	1/4	3,473.98	1/4	3,749.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,929.27	1/2	3,204.49	1/2	3,479.72	1/2	3,754.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,935.00	3/4	3,210.23	3/4	3,485.45	3/4	3,760.67	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,940.74	10	3,215.96	10	3,491.18	10	3,766.41	10		10		10		10		10		10	
1/4	2,946.47	1/4	3,221.69	1/4	3,496.92	1/4	3,772.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,952.21	1/2	3,227.43	1/2	3,502.65	1/2	3,777.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,957.94	3/4	3,233.16	3/4	3,508.38	3/4	3,783.61	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,963.67	11	3,238.90	11	3,514.12	11	3,789.34	11		11		11		11		11		11	
1/4	2,969.41	1/4	3,244.63	1/4	3,519.85	1/4	3,795.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,975.14	1/2	3,250.36	1/2	3,525.59	1/2	3,800.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,980.87	3/4	3,256.10	3/4	3,531.32	3/4	3,806.54	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2019 JS
CALCULATED: 11/21/2019 CL
PRINTED: 11/21/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "FMT 1410"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	0.73	0	216.32	0	463.00	0	709.44	0	955.88	0	1,202.56	0	1,449.25	0	1,695.94	0	1,942.62	0	2,189.31
1/4	1.59	1/4	221.46	1/4	468.14	1/4	714.56	1/4	961.02	1/4	1,207.70	1/4	1,454.39	1/4	1,701.08	1/4	1,947.76	1/4	2,194.45
1/2	2.44	1/2	226.60	1/2	473.28	1/2	719.69	1/2	966.16	1/2	1,212.84	1/2	1,459.53	1/2	1,706.22	1/2	1,952.90	1/2	2,199.59
3/4	3.30	3/4	231.74	3/4	478.42	3/4	724.82	3/4	971.30	3/4	1,217.98	3/4	1,464.67	3/4	1,711.36	3/4	1,958.04	3/4	2,204.73
1	4.15	1	236.88	1	483.56	1	729.94	1	976.44	1	1,223.12	1	1,469.81	1	1,716.49	1	1,963.18	1	2,209.87
1/4	6.72	1/4	242.02	1/4	488.69	1/4	735.07	1/4	981.57	1/4	1,228.26	1/4	1,474.95	1/4	1,721.63	1/4	1,968.32	1/4	2,215.01
1/2	9.29	1/2	247.16	1/2	493.83	1/2	740.20	1/2	986.71	1/2	1,233.40	1/2	1,480.09	1/2	1,726.77	1/2	1,973.46	1/2	2,220.15
3/4	11.86	3/4	252.30	3/4	498.97	3/4	745.32	3/4	991.85	3/4	1,238.54	3/4	1,485.23	3/4	1,731.91	3/4	1,978.60	3/4	2,225.29
2	14.43	2	257.44	2	504.11	2	750.45	2	996.99	2	1,243.68	2	1,490.37	2	1,737.05	2	1,983.74	2	2,230.42
1/4	18.71	1/4	262.57	1/4	509.25	1/4	755.57	1/4	1,002.13	1/4	1,248.82	1/4	1,495.50	1/4	1,742.19	1/4	1,988.88	1/4	2,235.56
1/2	22.99	1/2	267.71	1/2	514.39	1/2	760.70	1/2	1,007.27	1/2	1,253.96	1/2	1,500.64	1/2	1,747.33	1/2	1,994.02	1/2	2,240.70
3/4	27.27	3/4	272.85	3/4	519.53	3/4	765.83	3/4	1,012.41	3/4	1,259.10	3/4	1,505.78	3/4	1,752.47	3/4	1,999.16	3/4	2,245.84
3	31.55	3	277.99	3	524.67	3	770.95	3	1,017.55	3	1,264.24	3	1,510.92	3	1,757.61	3	2,004.30	3	2,250.98
1/4	36.64	1/4	283.13	1/4	529.81	1/4	776.08	1/4	1,022.69	1/4	1,269.38	1/4	1,516.06	1/4	1,762.75	1/4	2,009.43	1/4	2,256.12
1/2	41.74	1/2	288.27	1/2	534.95	1/2	781.20	1/2	1,027.83	1/2	1,274.51	1/2	1,521.20	1/2	1,767.89	1/2	2,014.57	1/2	2,261.26
3/4	46.83	3/4	293.41	3/4	540.09	3/4	786.33	3/4	1,032.97	3/4	1,279.65	3/4	1,526.34	3/4	1,773.03	3/4	2,019.71	3/4	2,266.40
4	51.93	4	298.55	4	545.22	4	791.46	4	1,038.11	4	1,284.79	4	1,531.48	4	1,778.17	4	2,024.85	4	2,271.54
1/4	57.05	1/4	303.69	1/4	550.36	1/4	796.59	1/4	1,043.25	1/4	1,289.93	1/4	1,536.62	1/4	1,783.31	1/4	2,029.99	1/4	2,276.68
1/2	62.18	1/2	308.83	1/2	555.50	1/2	801.72	1/2	1,048.39	1/2	1,295.07	1/2	1,541.76	1/2	1,788.44	1/2	2,035.13	1/2	2,281.82
3/4	67.31	3/4	313.97	3/4	560.64	3/4	806.85	3/4	1,053.52	3/4	1,300.21	3/4	1,546.90	3/4	1,793.58	3/4	2,040.27	3/4	2,286.96
5	72.43	5	319.10	5	565.78	5	811.98	5	1,058.66	5	1,305.35	5	1,552.04	5	1,798.72	5	2,045.41	5	2,292.10
1/4	77.57	1/4	324.24	1/4	570.92	1/4	817.12	1/4	1,063.80	1/4	1,310.49	1/4	1,557.18	1/4	1,803.86	1/4	2,050.55	1/4	2,297.24
1/2	82.71	1/2	329.38	1/2	576.06	1/2	822.26	1/2	1,068.94	1/2	1,315.63	1/2	1,562.32	1/2	1,809.00	1/2	2,055.69	1/2	2,302.37
3/4	87.85	3/4	334.52	3/4	581.20	3/4	827.40	3/4	1,074.08	3/4	1,320.77	3/4	1,567.45	3/4	1,814.14	3/4	2,060.83	3/4	2,307.51
6	92.98	6	339.66	6	586.34	6	832.53	6	1,079.22	6	1,325.91	6	1,572.59	6	1,819.28	6	2,065.97	6	2,312.65
1/4	98.12	1/4	344.80	1/4	591.48	1/4	837.67	1/4	1,084.36	1/4	1,331.05	1/4	1,577.73	1/4	1,824.42	1/4	2,071.11	1/4	2,317.79
1/2	103.26	1/2	349.94	1/2	596.62	1/2	842.81	1/2	1,089.50	1/2	1,336.19	1/2	1,582.87	1/2	1,829.56	1/2	2,076.25	1/2	2,322.93
3/4	108.40	3/4	355.08	3/4	601.75	3/4	847.95	3/4	1,094.64	3/4	1,341.33	3/4	1,588.01	3/4	1,834.70	3/4	2,081.38	3/4	2,328.07
7	113.54	7	360.22	7	606.89	7	853.09	7	1,099.78	7	1,346.47	7	1,593.15	7	1,839.84	7	2,086.52	7	2,333.21
1/4	118.68	1/4	365.36	1/4	612.03	1/4	858.23	1/4	1,104.92	1/4	1,351.60	1/4	1,598.29	1/4	1,844.98	1/4	2,091.66	1/4	2,338.35
1/2	123.82	1/2	370.50	1/2	617.16	1/2	863.37	1/2	1,110.06	1/2	1,356.74	1/2	1,603.43	1/2	1,850.12	1/2	2,096.80	1/2	2,343.49
3/4	128.96	3/4	375.63	3/4	622.29	3/4	868.51	3/4	1,115.20	3/4	1,361.88	3/4	1,608.57	3/4	1,855.26	3/4	2,101.94	3/4	2,348.63
8	134.10	8	380.77	8	627.42	8	873.65	8	1,120.34	8	1,367.02	8	1,613.71	8	1,860.40	8	2,107.08	8	2,353.77
1/4	139.24	1/4	385.91	1/4	632.55	1/4	878.79	1/4	1,125.48	1/4	1,372.16	1/4	1,618.85	1/4	1,865.53	1/4	2,112.22	1/4	2,358.91
1/2	144.37	1/2	391.05	1/2	637.67	1/2	883.93	1/2	1,130.61	1/2	1,377.30	1/2	1,623.99	1/2	1,870.67	1/2	2,117.36	1/2	2,364.05
3/4	149.51	3/4	396.19	3/4	642.80	3/4	889.07	3/4	1,135.75	3/4	1,382.44	3/4	1,629.13	3/4	1,875.81	3/4	2,122.50	3/4	2,369.19
9	154.65	9	401.33	9	647.93	9	894.21	9	1,140.89	9	1,387.58	9	1,634.27	9	1,880.95	9	2,127.64	9	2,374.33
1/4	159.79	1/4	406.47	1/4	653.05	1/4	899.35	1/4	1,146.03	1/4	1,392.72	1/4	1,639.41	1/4	1,886.09	1/4	2,132.78	1/4	2,379.46
1/2	164.93	1/2	411.61	1/2	658.18	1/2	904.49	1/2	1,151.17	1/2	1,397.86	1/2	1,644.54	1/2	1,891.23	1/2	2,137.92	1/2	2,384.60
3/4	170.07	3/4	416.75	3/4	663.30	3/4	909.62	3/4	1,156.31	3/4	1,403.00	3/4	1,649.68	3/4	1,896.37	3/4	2,143.06	3/4	2,389.74
10	175.21	10	421.89	10	668.43	10	914.76	10	1,161.45	10	1,408.14	10	1,654.82	10	1,901.51	10	2,148.20	10	2,394.88
1/4	180.35	1/4	427.03	1/4	673.56	1/4	919.90	1/4	1,166.59	1/4	1,413.28	1/4	1,659.96	1/4	1,906.65	1/4	2,153.34	1/4	2,400.02
1/2	185.49	1/2	432.16	1/2	678.68	1/2	925.04	1/2	1,171.73	1/2	1,418.42	1/2	1,665.10	1/2	1,911.79	1/2	2,158.47	1/2	2,405.16
3/4	190.63	3/4	437.30	3/4	683.81	3/4	930.18	3/4	1,176.87	3/4	1,423.55	3/4	1,670.24	3/4	1,916.93	3/4	2,163.61	3/4	2,410.30
11	195.77	11	442.44	11	688.93	11	935.32	11	1,182.01	11	1,428.69	11	1,675.38	11	1,922.07	11	2,168.75	11	2,415.44
1/4	200.90	1/4	447.58	1/4	694.06	1/4	940.46	1/4	1,187.15	1/4	1,433.83	1/4	1,680.52	1/4	1,927.21	1/4	2,173.89	1/4	2,420.58
1/2	206.04	1/2	452.72	1/2	699.19	1/2	945.60	1/2	1,192.29	1/2	1,438.97	1/2	1,685.66	1/2	1,932.35	1/2	2,179.03	1/2	2,425.72
3/4	211.18	3/4	457.86	3/4	704.31	3/4	950.74	3/4	1,197.43	3/4	1,444.11	3/4	1,690.80	3/4	1,937.48	3/4	2,184.17	3/4	2,430.86

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

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



BARGE "FMT 1410"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,436.00	0	2,682.68	0	2,929.37	0	3,176.06	0	3,422.74	0		0		0		0		0	
1/4	2,441.14	1/4	2,687.82	1/4	2,934.51	1/4	3,181.20	1/4	3,427.88	1/4		1/4		1/4		1/4		1/4	
1/2	2,446.28	1/2	2,692.96	1/2	2,939.65	1/2	3,186.33	1/2	3,433.02	1/2		1/2		1/2		1/2		1/2	
3/4	2,451.41	3/4	2,698.10	3/4	2,944.79	3/4	3,191.47	3/4	3,438.16	3/4		3/4		3/4		3/4		3/4	
1	2,456.55	1	2,703.24	1	2,949.93	1	3,196.61	1	3,443.30	1		1		1		1		1	
1/4	2,461.69	1/4	2,708.38	1/4	2,955.07	1/4	3,201.75	1/4	3,448.44	1/4		1/4		1/4		1/4		1/4	
1/2	2,466.83	1/2	2,713.52	1/2	2,960.21	1/2	3,206.89	1/2	3,453.58	1/2		1/2		1/2		1/2		1/2	
3/4	2,471.97	3/4	2,718.66	3/4	2,965.34	3/4	3,212.03	3/4	3,458.72	3/4		3/4		3/4		3/4		3/4	
2	2,477.11	2	2,723.80	2	2,970.48	2	3,217.17	2	3,463.86	2		2		2		2		2	
1/4	2,482.25	1/4	2,728.94	1/4	2,975.62	1/4	3,222.31	1/4	3,469.00	1/4		1/4		1/4		1/4		1/4	
1/2	2,487.39	1/2	2,734.08	1/2	2,980.76	1/2	3,227.45	1/2	3,474.14	1/2		1/2		1/2		1/2		1/2	
3/4	2,492.53	3/4	2,739.22	3/4	2,985.90	3/4	3,232.59	3/4	3,479.29	3/4		3/4		3/4		3/4		3/4	
3	2,497.67	3	2,744.35	3	2,991.04	3	3,237.73	3	3,484.43	3		3		3		3		3	
1/4	2,502.81	1/4	2,749.49	1/4	2,996.18	1/4	3,242.87	1/4	3,489.56	1/4		1/4		1/4		1/4		1/4	
1/2	2,507.95	1/2	2,754.63	1/2	3,001.32	1/2	3,248.01	1/2	3,494.68	1/2		1/2		1/2		1/2		1/2	
3/4	2,513.09	3/4	2,759.77	3/4	3,006.46	3/4	3,253.15	3/4	3,499.81	3/4		3/4		3/4		3/4		3/4	
4	2,518.23	4	2,764.91	4	3,011.60	4	3,258.28	4	3,504.94	4		4		4		4		4	
1/4	2,523.36	1/4	2,770.05	1/4	3,016.74	1/4	3,263.42	1/4	3,510.03	1/4		1/4		1/4		1/4		1/4	
1/2	2,528.50	1/2	2,775.19	1/2	3,021.88	1/2	3,268.56	1/2	3,515.13	1/2		1/2		1/2		1/2		1/2	
3/4	2,533.64	3/4	2,780.33	3/4	3,027.02	3/4	3,273.70	3/4	3,520.22	3/4		3/4		3/4		3/4		3/4	
5	2,538.78	5	2,785.47	5	3,032.16	5	3,278.84	5	3,525.32	5		5		5		5		5	
1/4	2,543.92	1/4	2,790.61	1/4	3,037.29	1/4	3,283.98	1/4	3,529.60	1/4		1/4		1/4		1/4		1/4	
1/2	2,549.06	1/2	2,795.75	1/2	3,042.43	1/2	3,289.12	1/2	3,533.88	1/2		1/2		1/2		1/2		1/2	
3/4	2,554.20	3/4	2,800.89	3/4	3,047.57	3/4	3,294.26	3/4	3,538.16	3/4		3/4		3/4		3/4		3/4	
6	2,559.34	6	2,806.03	6	3,052.71	6	3,299.40	6	3,542.44	6		6		6		6		6	
1/4	2,564.48	1/4	2,811.17	1/4	3,057.85	1/4	3,304.54	1/4	3,545.01	1/4		1/4		1/4		1/4		1/4	
1/2	2,569.62	1/2	2,816.30	1/2	3,062.99	1/2	3,309.68	1/2	3,547.58	1/2		1/2		1/2		1/2		1/2	
3/4	2,574.76	3/4	2,821.44	3/4	3,068.13	3/4	3,314.82	3/4	3,550.14	3/4		3/4		3/4		3/4		3/4	
7	2,579.90	7	2,826.58	7	3,073.27	7	3,319.96	7	3,552.71	7		7		7		7		7	
1/4	2,585.04	1/4	2,831.72	1/4	3,078.41	1/4	3,325.10	1/4	3,553.57	1/4		1/4		1/4		1/4		1/4	
1/2	2,590.18	1/2	2,836.86	1/2	3,083.55	1/2	3,330.23	1/2	3,554.42	1/2		1/2		1/2		1/2		1/2	
3/4	2,595.31	3/4	2,842.00	3/4	3,088.69	3/4	3,335.37	3/4	3,555.28	3/4		3/4		3/4		3/4		3/4	
8	2,600.45	8	2,847.14	8	3,093.83	8	3,340.51	8	3,556.13	8		8		8		8		8	
1/4	2,605.59	1/4	2,852.28	1/4	3,098.97	1/4	3,345.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,610.73	1/2	2,857.42	1/2	3,104.11	1/2	3,350.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,615.87	3/4	2,862.56	3/4	3,109.24	3/4	3,355.93	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,621.01	9	2,867.70	9	3,114.38	9	3,361.07	9		9		9		9		9		9	
1/4	2,626.15	1/4	2,872.84	1/4	3,119.52	1/4	3,366.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,631.29	1/2	2,877.98	1/2	3,124.66	1/2	3,371.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,636.43	3/4	2,883.12	3/4	3,129.80	3/4	3,376.49	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,641.57	10	2,888.25	10	3,134.94	10	3,381.63	10		10		10		10		10		10	
1/4	2,646.71	1/4	2,893.39	1/4	3,140.08	1/4	3,386.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,651.85	1/2	2,898.53	1/2	3,145.22	1/2	3,391.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,656.99	3/4	2,903.67	3/4	3,150.36	3/4	3,397.05	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,662.13	11	2,908.81	11	3,155.50	11	3,402.18	11		11		11		11		11		11	
1/4	2,667.27	1/4	2,913.95	1/4	3,160.64	1/4	3,407.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,672.40	1/2	2,919.09	1/2	3,165.78	1/2	3,412.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,677.54	3/4	2,924.23	3/4	3,170.92	3/4	3,417.60	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2019 JS
CALCULATED: 11/21/2019 CL
PRINTED: 11/21/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "FMT 1410"

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 CENTER	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 CENTER	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 163'-09"

November 21, 2019

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

<http://www.pmacorp.net>



BARGE "FMT 1410"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	3,427.18	0	3,237.81	0	3,026.41	0	2,815.02	0	2,603.90	0	2,362.77	0	2,115.00	0	1,867.34	0	1,620.13	
1/4	1/4	3,426.31	1/4	3,233.41	1/4	3,022.01	1/4	2,810.61	1/4	2,599.53	1/4	2,357.62	1/4	2,109.84	1/4	1,862.19	1/4	1,614.97	
1/2	1/2	3,425.45	1/2	3,229.00	1/2	3,017.60	1/2	2,806.21	1/2	2,595.16	1/2	2,352.46	1/2	2,104.67	1/2	1,857.05	1/2	1,609.81	
3/4	3/4	3,424.59	3/4	3,224.60	3/4	3,013.20	3/4	2,801.80	3/4	2,590.79	3/4	2,347.30	3/4	2,099.51	3/4	1,851.90	3/4	1,604.65	
1	1	3,423.73	1	3,220.19	1	3,008.80	1	2,797.40	1	2,586.42	1	2,342.15	1	2,094.35	1	1,846.76	1	1,599.50	
1/4	1/4	3,421.14	1/4	3,215.79	1/4	3,004.39	1/4	2,793.00	1/4	2,582.05	1/4	2,336.98	1/4	2,089.19	1/4	1,841.61	1/4	1,594.34	
1/2	1/2	3,418.55	1/2	3,211.39	1/2	2,999.99	1/2	2,788.59	1/2	2,577.68	1/2	2,331.82	1/2	2,084.03	1/2	1,836.47	1/2	1,589.18	
3/4	3/4	3,415.97	3/4	3,206.98	3/4	2,995.58	3/4	2,784.19	3/4	2,573.31	3/4	2,326.66	3/4	2,078.86	3/4	1,831.32	3/4	1,584.02	
2	2	3,413.38	2	3,202.58	2	2,991.18	2	2,779.78	2	2,568.94	2	2,321.50	2	2,073.70	2	1,826.18	2	1,578.87	
1/4	1/4	3,409.07	1/4	3,198.17	1/4	2,986.78	1/4	2,775.38	1/4	2,563.80	1/4	2,316.33	1/4	2,068.54	1/4	1,821.03	1/4	1,573.71	
1/2	1/2	3,404.76	1/2	3,193.77	1/2	2,982.37	1/2	2,770.98	1/2	2,558.66	1/2	2,311.17	1/2	2,063.38	1/2	1,815.88	1/2	1,568.55	
3/4	3/4	3,400.44	3/4	3,189.36	3/4	2,977.97	3/4	2,766.57	3/4	2,553.51	3/4	2,306.01	3/4	2,058.21	3/4	1,810.74	3/4	1,563.40	
3	3	3,396.13	3	3,184.96	3	2,973.56	3	2,762.17	3	2,548.37	3	2,300.85	3	2,053.05	3	1,805.59	3	1,558.24	
1/4	1/4	3,391.77	1/4	3,180.56	1/4	2,969.16	1/4	2,757.76	1/4	2,543.23	1/4	2,295.68	1/4	2,047.89	1/4	1,800.45	1/4	1,553.08	
1/2	1/2	3,387.41	1/2	3,176.15	1/2	2,964.76	1/2	2,753.36	1/2	2,538.09	1/2	2,290.52	1/2	2,042.73	1/2	1,795.30	1/2	1,547.92	
3/4	3/4	3,383.05	3/4	3,171.75	3/4	2,960.35	3/4	2,748.95	3/4	2,532.95	3/4	2,285.36	3/4	2,037.56	3/4	1,790.16	3/4	1,542.77	
4	4	3,378.69	4	3,167.34	4	2,955.95	4	2,744.55	4	2,527.80	4	2,280.20	4	2,032.40	4	1,785.01	4	1,537.61	
1/4	1/4	3,374.30	1/4	3,162.94	1/4	2,951.54	1/4	2,740.15	1/4	2,522.65	1/4	2,275.03	1/4	2,027.24	1/4	1,779.87	1/4	1,532.45	
1/2	1/2	3,369.91	1/2	3,158.54	1/2	2,947.14	1/2	2,735.74	1/2	2,517.49	1/2	2,269.87	1/2	2,022.08	1/2	1,774.72	1/2	1,527.30	
3/4	3/4	3,365.52	3/4	3,154.13	3/4	2,942.74	3/4	2,731.34	3/4	2,512.33	3/4	2,264.71	3/4	2,016.91	3/4	1,769.58	3/4	1,522.14	
5	5	3,361.13	5	3,149.73	5	2,938.33	5	2,726.93	5	2,507.18	5	2,259.55	5	2,011.75	5	1,764.43	5	1,516.98	
1/4	1/4	3,356.72	1/4	3,145.32	1/4	2,933.93	1/4	2,722.53	1/4	2,502.02	1/4	2,254.38	1/4	2,006.59	1/4	1,759.28	1/4	1,511.82	
1/2	1/2	3,352.32	1/2	3,140.92	1/2	2,929.52	1/2	2,718.13	1/2	2,496.86	1/2	2,249.22	1/2	2,001.43	1/2	1,754.14	1/2	1,506.67	
3/4	3/4	3,347.91	3/4	3,136.52	3/4	2,925.12	3/4	2,713.72	3/4	2,491.70	3/4	2,244.06	3/4	1,996.26	3/4	1,748.99	3/4	1,501.51	
6	6	3,343.51	6	3,132.11	6	2,920.71	6	2,709.32	6	2,486.55	6	2,238.90	6	1,991.10	6	1,743.85	6	1,496.35	
1/4	1/4	3,339.10	1/4	3,127.71	1/4	2,916.31	1/4	2,704.91	1/4	2,481.39	1/4	2,233.73	1/4	1,985.94	1/4	1,738.70	1/4	1,491.19	
1/2	1/2	3,334.70	1/2	3,123.30	1/2	2,911.91	1/2	2,700.51	1/2	2,476.23	1/2	2,228.57	1/2	1,980.78	1/2	1,733.56	1/2	1,486.03	
3/4	3/4	3,330.30	3/4	3,118.90	3/4	2,907.50	3/4	2,696.11	3/4	2,471.08	3/4	2,223.41	3/4	1,975.61	3/4	1,728.41	3/4	1,480.87	
7	7	3,325.89	7	3,114.50	7	2,903.10	7	2,691.70	7	2,465.92	7	2,218.25	7	1,970.45	7	1,723.27	7	1,475.71	
1/4	1/4	3,321.49	1/4	3,110.09	1/4	2,898.69	1/4	2,687.30	1/4	2,460.76	1/4	2,213.09	1/4	1,965.29	1/4	1,718.12	1/4	1,470.55	
1/2	1/2	3,317.08	1/2	3,105.69	1/2	2,894.29	1/2	2,682.89	1/2	2,455.60	1/2	2,207.92	1/2	1,960.13	1/2	1,712.97	1/2	1,465.39	
3/4	3/4	3,312.68	3/4	3,101.28	3/4	2,889.89	3/4	2,678.49	3/4	2,450.45	3/4	2,202.76	3/4	1,954.97	3/4	1,707.83	3/4	1,460.23	
8	8	3,308.28	8	3,096.88	8	2,885.48	8	2,674.09	8	2,445.29	8	2,197.60	8	1,949.80	8	1,702.68	8	1,455.06	
1/4	1/4	3,303.87	1/4	3,092.47	1/4	2,881.08	1/4	2,669.68	1/4	2,440.13	1/4	2,192.44	1/4	1,944.64	1/4	1,697.52	1/4	1,449.90	
1/2	1/2	3,299.47	1/2	3,088.07	1/2	2,876.67	1/2	2,665.28	1/2	2,434.97	1/2	2,187.27	1/2	1,939.48	1/2	1,692.36	1/2	1,444.74	
3/4	3/4	3,295.06	3/4	3,083.67	3/4	2,872.27	3/4	2,660.87	3/4	2,429.82	3/4	2,182.11	3/4	1,934.32	3/4	1,687.20	3/4	1,439.58	
9	9	3,290.66	9	3,079.26	9	2,867.87	9	2,656.47	9	2,424.66	9	2,176.95	9	1,929.15	9	1,682.04	9	1,434.42	
1/4	1/4	3,286.26	1/4	3,074.86	1/4	2,863.46	1/4	2,652.06	1/4	2,419.50	1/4	2,171.79	1/4	1,923.99	1/4	1,676.88	1/4	1,429.26	
1/2	1/2	3,281.85	1/2	3,070.45	1/2	2,859.06	1/2	2,647.66	1/2	2,414.35	1/2	2,166.62	1/2	1,918.83	1/2	1,671.72	1/2	1,424.10	
3/4	3/4	3,277.45	3/4	3,066.05	3/4	2,854.65	3/4	2,643.26	3/4	2,409.19	3/4	2,161.46	3/4	1,913.67	3/4	1,666.56	3/4	1,418.94	
10	10	3,273.04	10	3,061.65	10	2,850.25	10	2,638.85	10	2,404.03	10	2,156.30	10	1,908.50	10	1,661.40	10	1,413.78	
1/4	1/4	3,268.64	1/4	3,057.24	1/4	2,845.85	1/4	2,634.48	1/4	2,398.87	1/4	2,151.14	1/4	1,903.36	1/4	1,656.24	1/4	1,408.62	
1/2	1/2	3,264.23	1/2	3,052.84	1/2	2,841.44	1/2	2,630.11	1/2	2,393.72	1/2	2,145.97	1/2	1,898.21	1/2	1,651.08	1/2	1,403.45	
3/4	3/4	3,259.83	3/4	3,048.43	3/4	2,837.04	3/4	2,625.74	3/4	2,388.56	3/4	2,140.81	3/4	1,893.07	3/4	1,645.92	3/4	1,398.29	
11	11	3,255.43	11	3,044.03	11	2,832.63	11	2,621.37	11	2,383.40	11	2,135.65	11	1,887.92	11	1,640.76	11	1,393.13	
1/4	1/4	3,251.02	1/4	3,039.63	1/4	2,828.23	1/4	2,617.00	1/4	2,378.25	1/4	2,130.49	1/4	1,882.78	1/4	1,635.60	1/4	1,387.97	
1/2	1/2	3,246.62	1/2	3,035.22	1/2	2,823.82	1/2	2,612.63	1/2	2,373.09	1/2	2,125.32	1/2	1,877.63	1/2	1,630.44	1/2	1,382.81	
3/4	3/4	3,242.21	3/4	3,030.82	3/4	2,819.42	3/4	2,608.27	3/4	2,367.93	3/4	2,120.16	3/4	1,872.49	3/4	1,625.29	3/4	1,377.65	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "FMT 1410"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,372.49	0	1,124.76	0	877.03	0	634.68	0	386.89	0	138.41	0		0		0		0	
1/4	1,367.33	1/4	1,119.60	1/4	871.87	1/4	629.66	1/4	381.72	1/4	133.24	1/4		1/4		1/4		1/4	
1/2	1,362.17	1/2	1,114.44	1/2	866.71	1/2	624.64	1/2	376.54	1/2	128.06	1/2		1/2		1/2		1/2	
3/4	1,357.01	3/4	1,109.28	3/4	861.55	3/4	619.62	3/4	371.36	3/4	122.88	3/4		3/4		3/4		3/4	
1	1,351.84	1	1,104.12	1	856.39	1	614.60	1	366.19	1	117.71	1		1		1		1	
1/4	1,346.68	1/4	1,098.96	1/4	851.23	1/4	609.43	1/4	361.01	1/4	112.53	1/4		1/4		1/4		1/4	
1/2	1,341.52	1/2	1,093.79	1/2	846.07	1/2	604.26	1/2	355.83	1/2	107.35	1/2		1/2		1/2		1/2	
3/4	1,336.36	3/4	1,088.63	3/4	840.91	3/4	599.09	3/4	350.66	3/4	102.18	3/4		3/4		3/4		3/4	
2	1,331.20	2	1,083.47	2	835.74	2	593.93	2	345.48	2	97.00	2		2		2		2	
1/4	1,326.04	1/4	1,078.31	1/4	830.58	1/4	588.76	1/4	340.30	1/4	91.82	1/4		1/4		1/4		1/4	
1/2	1,320.88	1/2	1,073.15	1/2	825.42	1/2	583.59	1/2	335.13	1/2	86.65	1/2		1/2		1/2		1/2	
3/4	1,315.72	3/4	1,067.99	3/4	820.26	3/4	578.42	3/4	329.95	3/4	81.47	3/4		3/4		3/4		3/4	
3	1,310.56	3	1,062.83	3	815.10	3	573.25	3	324.77	3	76.30	3		3		3		3	
1/4	1,305.40	1/4	1,057.67	1/4	810.07	1/4	568.07	1/4	319.60	1/4	71.14	1/4		1/4		1/4		1/4	
1/2	1,300.23	1/2	1,052.51	1/2	805.04	1/2	562.90	1/2	314.42	1/2	65.97	1/2		1/2		1/2		1/2	
3/4	1,295.07	3/4	1,047.35	3/4	800.01	3/4	557.72	3/4	309.24	3/4	60.81	3/4		3/4		3/4		3/4	
4	1,289.91	4	1,042.18	4	794.98	4	552.55	4	304.07	4	55.64	4		4		4		4	
1/4	1,284.75	1/4	1,037.02	1/4	789.95	1/4	547.37	1/4	298.89	1/4	50.51	1/4		1/4		1/4		1/4	
1/2	1,279.59	1/2	1,031.86	1/2	784.92	1/2	542.19	1/2	293.72	1/2	45.38	1/2		1/2		1/2		1/2	
3/4	1,274.43	3/4	1,026.70	3/4	779.89	3/4	537.02	3/4	288.54	3/4	40.25	3/4		3/4		3/4		3/4	
5	1,269.27	5	1,021.54	5	774.87	5	531.84	5	283.36	5	35.12	5		5		5		5	
1/4	1,264.11	1/4	1,016.38	1/4	769.86	1/4	526.66	1/4	278.19	1/4	30.81	1/4		1/4		1/4		1/4	
1/2	1,258.95	1/2	1,011.22	1/2	764.86	1/2	521.49	1/2	273.01	1/2	26.49	1/2		1/2		1/2		1/2	
3/4	1,253.79	3/4	1,006.06	3/4	759.85	3/4	516.31	3/4	267.83	3/4	22.18	3/4		3/4		3/4		3/4	
6	1,248.62	6	1,000.90	6	754.85	6	511.13	6	262.66	6	17.87	6		6		6		6	
1/4	1,243.46	1/4	995.74	1/4	749.84	1/4	505.96	1/4	257.48	1/4	15.28	1/4		1/4		1/4		1/4	
1/2	1,238.30	1/2	990.57	1/2	744.84	1/2	500.78	1/2	252.30	1/2	12.70	1/2		1/2		1/2		1/2	
3/4	1,233.14	3/4	985.41	3/4	739.83	3/4	495.60	3/4	247.13	3/4	10.11	3/4		3/4		3/4		3/4	
7	1,227.98	7	980.25	7	734.83	7	490.43	7	241.95	7	7.52	7		7		7		7	
1/4	1,222.82	1/4	975.09	1/4	729.82	1/4	485.25	1/4	236.77	1/4	6.66	1/4		1/4		1/4		1/4	
1/2	1,217.66	1/2	969.93	1/2	724.82	1/2	480.07	1/2	231.60	1/2	5.80	1/2		1/2		1/2		1/2	
3/4	1,212.50	3/4	964.77	3/4	719.81	3/4	474.90	3/4	226.42	3/4	4.94	3/4		3/4		3/4		3/4	
8	1,207.34	8	959.61	8	714.81	8	469.72	8	221.24	8	4.07	8		8		8		8	
1/4	1,202.18	1/4	954.45	1/4	709.80	1/4	464.54	1/4	216.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,197.01	1/2	949.29	1/2	704.80	1/2	459.37	1/2	210.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,191.85	3/4	944.13	3/4	699.79	3/4	454.19	3/4	205.71	3/4		3/4		3/4		3/4		3/4	
9	1,186.69	9	938.96	9	694.79	9	449.01	9	200.54	9		9		9		9		9	
1/4	1,181.53	1/4	933.80	1/4	689.78	1/4	443.84	1/4	195.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,176.37	1/2	928.64	1/2	684.78	1/2	438.66	1/2	190.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,171.21	3/4	923.48	3/4	679.77	3/4	433.48	3/4	185.00	3/4		3/4		3/4		3/4		3/4	
10	1,166.05	10	918.32	10	674.77	10	428.31	10	179.83	10		10		10		10		10	
1/4	1,160.89	1/4	913.16	1/4	669.76	1/4	423.13	1/4	174.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,155.73	1/2	908.00	1/2	664.76	1/2	417.95	1/2	169.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,150.57	3/4	902.84	3/4	659.75	3/4	412.78	3/4	164.30	3/4		3/4		3/4		3/4		3/4	
11	1,145.40	11	897.68	11	654.75	11	407.60	11	159.12	11		11		11		11		11	
1/4	1,140.24	1/4	892.52	1/4	649.73	1/4	402.42	1/4	153.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,135.08	1/2	887.35	1/2	644.71	1/2	397.25	1/2	148.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,129.92	3/4	882.19	3/4	639.70	3/4	392.07	3/4	143.59	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2019 JS
CALCULATED: 11/21/2019 CL
PRINTED: 11/21/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "FMT 1410"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 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	3,959.19	0	3,709.07	0	3,433.84	0	3,158.62	0	2,883.40	0	2,608.18	0	2,332.96	0	2,057.73	0	1,782.51	
1/4	1/4	3,958.23	1/4	3,703.33	1/4	3,428.11	1/4	3,152.89	1/4	2,877.67	1/4	2,602.44	1/4	2,327.22	1/4	2,052.00	1/4	1,776.78	
1/2	1/2	3,957.28	1/2	3,697.60	1/2	3,422.38	1/2	3,147.15	1/2	2,871.93	1/2	2,596.71	1/2	2,321.49	1/2	2,046.27	1/2	1,771.04	
3/4	3/4	3,954.41	3/4	3,691.87	3/4	3,416.64	3/4	3,141.42	3/4	2,866.20	3/4	2,590.98	3/4	2,315.75	3/4	2,040.53	3/4	1,765.31	
1	1	3,951.54	1	3,686.13	1	3,410.91	1	3,135.69	1	2,860.46	1	2,585.24	1	2,310.02	1	2,034.80	1	1,759.58	
1/4	1/4	3,948.68	1/4	3,680.40	1/4	3,405.18	1/4	3,129.95	1/4	2,854.73	1/4	2,579.51	1/4	2,304.29	1/4	2,029.06	1/4	1,753.84	
1/2	1/2	3,945.81	1/2	3,674.66	1/2	3,399.44	1/2	3,124.22	1/2	2,849.00	1/2	2,573.77	1/2	2,298.55	1/2	2,023.33	1/2	1,748.11	
3/4	3/4	3,941.04	3/4	3,668.93	3/4	3,393.71	3/4	3,118.49	3/4	2,843.26	3/4	2,568.04	3/4	2,292.82	3/4	2,017.60	3/4	1,742.37	
2	2	3,936.26	2	3,663.20	2	3,387.97	2	3,112.75	2	2,837.53	2	2,562.31	2	2,287.08	2	2,011.86	2	1,736.64	
1/4	1/4	3,931.49	1/4	3,657.46	1/4	3,382.24	1/4	3,107.02	1/4	2,831.80	1/4	2,556.57	1/4	2,281.35	1/4	2,006.13	1/4	1,730.91	
1/2	1/2	3,926.71	1/2	3,651.73	1/2	3,376.51	1/2	3,101.28	1/2	2,826.06	1/2	2,550.84	1/2	2,275.62	1/2	2,000.39	1/2	1,725.17	
3/4	3/4	3,921.03	3/4	3,646.00	3/4	3,370.77	3/4	3,095.55	3/4	2,820.33	3/4	2,545.11	3/4	2,269.88	3/4	1,994.66	3/4	1,719.44	
3	3	3,915.34	3	3,640.26	3	3,365.04	3	3,089.82	3	2,814.59	3	2,539.37	3	2,264.15	3	1,988.93	3	1,713.70	
1/4	1/4	3,909.66	1/4	3,634.53	1/4	3,359.31	1/4	3,084.08	1/4	2,808.86	1/4	2,533.64	1/4	2,258.42	1/4	1,983.19	1/4	1,707.97	
1/2	1/2	3,903.97	1/2	3,628.79	1/2	3,353.57	1/2	3,078.35	1/2	2,803.13	1/2	2,527.90	1/2	2,252.68	1/2	1,977.46	1/2	1,702.24	
3/4	3/4	3,898.25	3/4	3,623.06	3/4	3,347.84	3/4	3,072.62	3/4	2,797.39	3/4	2,522.17	3/4	2,246.95	3/4	1,971.73	3/4	1,696.50	
4	4	3,892.53	4	3,617.33	4	3,342.10	4	3,066.88	4	2,791.66	4	2,516.44	4	2,241.21	4	1,965.99	4	1,690.77	
1/4	1/4	3,886.82	1/4	3,611.59	1/4	3,336.37	1/4	3,061.15	1/4	2,785.93	1/4	2,510.70	1/4	2,235.48	1/4	1,960.26	1/4	1,685.04	
1/2	1/2	3,881.10	1/2	3,605.86	1/2	3,330.64	1/2	3,055.41	1/2	2,780.19	1/2	2,504.97	1/2	2,229.75	1/2	1,954.52	1/2	1,679.30	
3/4	3/4	3,875.36	3/4	3,600.13	3/4	3,324.90	3/4	3,049.68	3/4	2,774.46	3/4	2,499.24	3/4	2,224.01	3/4	1,948.79	3/4	1,673.57	
5	5	3,869.62	5	3,594.39	5	3,319.17	5	3,043.95	5	2,768.72	5	2,493.50	5	2,218.28	5	1,943.06	5	1,667.83	
1/4	1/4	3,863.88	1/4	3,588.66	1/4	3,313.44	1/4	3,038.21	1/4	2,762.99	1/4	2,487.77	1/4	2,212.55	1/4	1,937.32	1/4	1,662.10	
1/2	1/2	3,858.15	1/2	3,582.92	1/2	3,307.70	1/2	3,032.48	1/2	2,757.26	1/2	2,482.03	1/2	2,206.81	1/2	1,931.59	1/2	1,656.37	
3/4	3/4	3,852.41	3/4	3,577.19	3/4	3,301.97	3/4	3,026.75	3/4	2,751.52	3/4	2,476.30	3/4	2,201.08	3/4	1,925.86	3/4	1,650.63	
6	6	3,846.68	6	3,571.46	6	3,296.23	6	3,021.01	6	2,745.79	6	2,470.57	6	2,195.34	6	1,920.12	6	1,644.90	
1/4	1/4	3,840.94	1/4	3,565.72	1/4	3,290.50	1/4	3,015.28	1/4	2,740.06	1/4	2,464.83	1/4	2,189.61	1/4	1,914.39	1/4	1,639.17	
1/2	1/2	3,835.21	1/2	3,559.99	1/2	3,284.77	1/2	3,009.54	1/2	2,734.32	1/2	2,459.10	1/2	2,183.88	1/2	1,908.65	1/2	1,633.43	
3/4	3/4	3,829.48	3/4	3,554.25	3/4	3,279.03	3/4	3,003.81	3/4	2,728.59	3/4	2,453.37	3/4	2,178.14	3/4	1,902.92	3/4	1,627.70	
7	7	3,823.74	7	3,548.52	7	3,273.30	7	2,998.08	7	2,722.85	7	2,447.63	7	2,172.41	7	1,897.19	7	1,621.96	
1/4	1/4	3,818.01	1/4	3,542.79	1/4	3,267.56	1/4	2,992.34	1/4	2,717.12	1/4	2,441.90	1/4	2,166.68	1/4	1,891.45	1/4	1,616.23	
1/2	1/2	3,812.28	1/2	3,537.05	1/2	3,261.83	1/2	2,986.61	1/2	2,711.39	1/2	2,436.16	1/2	2,160.94	1/2	1,885.72	1/2	1,610.50	
3/4	3/4	3,806.54	3/4	3,531.32	3/4	3,256.10	3/4	2,980.87	3/4	2,705.65	3/4	2,430.43	3/4	2,155.21	3/4	1,879.99	3/4	1,604.76	
8	8	3,800.81	8	3,525.59	8	3,250.36	8	2,975.14	8	2,699.92	8	2,424.70	8	2,149.47	8	1,874.25	8	1,599.03	
1/4	1/4	3,795.07	1/4	3,519.85	1/4	3,244.63	1/4	2,969.41	1/4	2,694.18	1/4	2,418.96	1/4	2,143.74	1/4	1,868.52	1/4	1,593.30	
1/2	1/2	3,789.34	1/2	3,514.12	1/2	3,238.90	1/2	2,963.67	1/2	2,688.45	1/2	2,413.23	1/2	2,138.01	1/2	1,862.78	1/2	1,587.56	
3/4	3/4	3,783.61	3/4	3,508.38	3/4	3,233.16	3/4	2,957.94	3/4	2,682.72	3/4	2,407.49	3/4	2,132.27	3/4	1,857.05	3/4	1,581.83	
9	9	3,777.87	9	3,502.65	9	3,227.43	9	2,952.21	9	2,676.98	9	2,401.76	9	2,126.54	9	1,851.32	9	1,576.09	
1/4	1/4	3,772.14	1/4	3,496.92	1/4	3,221.69	1/4	2,946.47	1/4	2,671.25	1/4	2,396.03	1/4	2,120.80	1/4	1,845.58	1/4	1,570.36	
1/2	1/2	3,766.41	1/2	3,491.18	1/2	3,215.96	1/2	2,940.74	1/2	2,665.52	1/2	2,390.29	1/2	2,115.07	1/2	1,839.85	1/2	1,564.63	
3/4	3/4	3,760.67	3/4	3,485.45	3/4	3,210.23	3/4	2,935.00	3/4	2,659.78	3/4	2,384.56	3/4	2,109.34	3/4	1,834.11	3/4	1,558.89	
10	10	3,754.94	10	3,479.72	10	3,204.49	10	2,929.27	10	2,654.05	10	2,378.83	10	2,103.60	10	1,828.38	10	1,553.16	
1/4	1/4	3,749.20	1/4	3,473.98	1/4	3,198.76	1/4	2,923.54	1/4	2,648.31	1/4	2,373.09	1/4	2,097.87	1/4	1,822.65	1/4	1,547.42	
1/2	1/2	3,743.47	1/2	3,468.25	1/2	3,193.03	1/2	2,917.80	1/2	2,642.58	1/2	2,367.36	1/2	2,092.14	1/2	1,816.91	1/2	1,541.69	
3/4	3/4	3,737.74	3/4	3,462.51	3/4	3,187.29	3/4	2,912.07	3/4	2,636.85	3/4	2,361.62	3/4	2,086.40	3/4	1,811.18	3/4	1,535.96	
11	11	3,732.00	11	3,456.78	11	3,181.56	11	2,906.34	11	2,631.11	11	2,355.89	11	2,080.67	11	1,805.45	11	1,530.22	
1/4	1/4	3,726.27	1/4	3,451.05	1/4	3,175.82	1/4	2,900.60	1/4	2,625.38	1/4	2,350.16	1/4	2,074.93	1/4	1,799.71	1/4	1,524.49	
1/2	1/2	3,961.09	1/2	3,720.53	1/2	3,445.31	1/2	3,170.09	1/2	2,894.87	1/2	2,619.65	1/2	2,344.42	1/2	2,069.20	1/2	1,793.98	
3/4	3/4	3,960.14	3/4	3,714.80	3/4	3,439.58	3/4	3,164.36	3/4	2,889.13	3/4	2,613.91	3/4	2,338.69	3/4	2,063.47	3/4	1,788.24	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-06" FORWARD OF AFT BULKHEAD

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



BARGE "FMT 1410"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 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	1,507.29	0	1,232.07	0	956.84	0	688.15	0	413.27	0	138.06	0		0		0		0	
1/4	1,501.55	1/4	1,226.33	1/4	951.11	1/4	682.58	1/4	407.54	1/4	132.32	1/4		1/4		1/4		1/4	
1/2	1,495.82	1/2	1,220.60	1/2	945.38	1/2	677.01	1/2	401.80	1/2	126.59	1/2		1/2		1/2		1/2	
3/4	1,490.09	3/4	1,214.86	3/4	939.64	3/4	671.28	3/4	396.07	3/4	120.86	3/4		3/4		3/4		3/4	
1	1,484.35	1	1,209.13	1	933.91	1	665.55	1	390.33	1	115.12	1		1		1		1	
1/4	1,478.62	1/4	1,203.40	1/4	928.17	1/4	659.81	1/4	384.60	1/4	109.39	1/4		1/4		1/4		1/4	
1/2	1,472.89	1/2	1,197.66	1/2	922.44	1/2	654.08	1/2	378.87	1/2	103.65	1/2		1/2		1/2		1/2	
3/4	1,467.15	3/4	1,191.93	3/4	916.71	3/4	648.35	3/4	373.13	3/4	97.92	3/4		3/4		3/4		3/4	
2	1,461.42	2	1,186.20	2	910.97	2	642.61	2	367.40	2	92.19	2		2		2		2	
1/4	1,455.68	1/4	1,180.46	1/4	905.24	1/4	636.88	1/4	361.67	1/4	86.46	1/4		1/4		1/4		1/4	
1/2	1,449.95	1/2	1,174.73	1/2	899.51	1/2	631.15	1/2	355.93	1/2	80.73	1/2		1/2		1/2		1/2	
3/4	1,444.22	3/4	1,168.99	3/4	893.94	3/4	625.41	3/4	350.20	3/4	75.01	3/4		3/4		3/4		3/4	
3	1,438.48	3	1,163.26	3	888.37	3	619.68	3	344.47	3	69.29	3		3		3		3	
1/4	1,432.75	1/4	1,157.53	1/4	882.81	1/4	613.95	1/4	338.73	1/4	63.57	1/4		1/4		1/4		1/4	
1/2	1,427.01	1/2	1,151.79	1/2	877.24	1/2	608.21	1/2	333.00	1/2	57.85	1/2		1/2		1/2		1/2	
3/4	1,421.28	3/4	1,146.06	3/4	871.68	3/4	602.48	3/4	327.27	3/4	52.17	3/4		3/4		3/4		3/4	
4	1,415.55	4	1,140.32	4	866.12	4	602.48	4	321.53	4	46.48	4		4		4		4	
1/4	1,409.81	1/4	1,134.59	1/4	860.56	1/4	591.01	1/4	315.80	1/4	40.80	1/4		1/4		1/4		1/4	
1/2	1,404.08	1/2	1,128.86	1/2	855.00	1/2	585.28	1/2	310.06	1/2	35.12	1/2		1/2		1/2		1/2	
3/4	1,398.35	3/4	1,123.12	3/4	849.43	3/4	579.54	3/4	304.33	3/4	30.34	3/4		3/4		3/4		3/4	
5	1,392.61	5	1,117.39	5	843.87	5	573.81	5	298.60	5	25.56	5		5		5		5	
1/4	1,386.88	1/4	1,111.66	1/4	838.31	1/4	568.08	1/4	292.86	1/4	20.79	1/4		1/4		1/4		1/4	
1/2	1,381.14	1/2	1,105.92	1/2	832.75	1/2	562.34	1/2	287.13	1/2	16.01	1/2		1/2		1/2		1/2	
3/4	1,375.41	3/4	1,100.19	3/4	827.19	3/4	556.61	3/4	281.40	3/4	13.15	3/4		3/4		3/4		3/4	
6	1,369.68	6	1,094.45	6	821.63	6	550.88	6	275.66	6	10.28	6		6		6		6	
1/4	1,363.94	1/4	1,088.72	1/4	816.07	1/4	545.14	1/4	269.93	1/4	7.42	1/4		1/4		1/4		1/4	
1/2	1,358.21	1/2	1,082.99	1/2	810.51	1/2	539.41	1/2	264.20	1/2	4.55	1/2		1/2		1/2		1/2	
3/4	1,352.48	3/4	1,077.25	3/4	804.95	3/4	533.67	3/4	258.46	3/4	3.59	3/4		3/4		3/4		3/4	
7	1,346.74	7	1,071.52	7	799.38	7	527.94	7	252.73	7	2.64	7		7		7		7	
1/4	1,341.01	1/4	1,065.79	1/4	793.82	1/4	522.21	1/4	246.99	1/4	1.69	1/4		1/4		1/4		1/4	
1/2	1,335.27	1/2	1,060.05	1/2	788.26	1/2	516.47	1/2	241.26	1/2	0.73	1/2		1/2		1/2		1/2	
3/4	1,329.54	3/4	1,054.32	3/4	782.70	3/4	510.74	3/4	235.53	3/4		3/4		3/4		3/4		3/4	
8	1,323.81	8	1,048.58	8	777.14	8	505.01	8	229.79	8		8		8		8		8	
1/4	1,318.07	1/4	1,042.85	1/4	771.58	1/4	499.27	1/4	224.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,312.34	1/2	1,037.12	1/2	766.02	1/2	493.54	1/2	218.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,306.61	3/4	1,031.38	3/4	760.46	3/4	487.81	3/4	212.59	3/4		3/4		3/4		3/4		3/4	
9	1,300.87	9	1,025.65	9	754.89	9	482.07	9	206.86	9		9		9		9		9	
1/4	1,295.14	1/4	1,019.92	1/4	749.33	1/4	476.34	1/4	201.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,289.40	1/2	1,014.18	1/2	743.77	1/2	470.61	1/2	195.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,283.67	3/4	1,008.45	3/4	738.21	3/4	464.87	3/4	189.66	3/4		3/4		3/4		3/4		3/4	
10	1,277.94	10	1,002.71	10	732.65	10	459.14	10	183.93	10		10		10		10		10	
1/4	1,272.20	1/4	996.98	1/4	727.09	1/4	453.40	1/4	178.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,266.47	1/2	991.25	1/2	721.53	1/2	447.67	1/2	172.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,260.73	3/4	985.51	3/4	715.97	3/4	441.94	3/4	166.72	3/4		3/4		3/4		3/4		3/4	
11	1,255.00	11	979.78	11	710.40	11	436.20	11	160.99	11		11		11		11		11	
1/4	1,249.27	1/4	974.04	1/4	704.84	1/4	430.47	1/4	155.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,243.53	1/2	968.31	1/2	699.28	1/2	424.74	1/2	149.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,237.80	3/4	962.58	3/4	693.72	3/4	419.00	3/4	143.79	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2019 JS
CALCULATED: 11/21/2019 CL
PRINTED: 11/21/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "FMT 1410"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	3,556.13	0	3,340.51	0	3,093.83	0	2,847.14	0	2,600.45	0	2,353.77	0	2,107.08	0	1,860.40	0	1,613.71	
1/4	1/4	3,555.28	1/4	3,335.37	1/4	3,088.69	1/4	2,842.00	1/4	2,595.31	1/4	2,348.63	1/4	2,101.94	1/4	1,855.26	1/4	1,608.57	
1/2	1/2	3,554.42	1/2	3,330.23	1/2	3,083.55	1/2	2,836.86	1/2	2,590.18	1/2	2,343.49	1/2	2,096.80	1/2	1,850.12	1/2	1,603.43	
3/4	3/4	3,553.57	3/4	3,325.10	3/4	3,078.41	3/4	2,831.72	3/4	2,585.04	3/4	2,338.35	3/4	2,091.66	3/4	1,844.98	3/4	1,598.29	
1	1	3,552.71	1	3,319.96	1	3,073.27	1	2,826.58	1	2,579.90	1	2,333.21	1	2,086.52	1	1,839.84	1	1,593.15	
1/4	1/4	3,550.14	1/4	3,314.82	1/4	3,068.13	1/4	2,821.44	1/4	2,574.76	1/4	2,328.07	1/4	2,081.38	1/4	1,834.70	1/4	1,588.01	
1/2	1/2	3,547.58	1/2	3,309.68	1/2	3,062.99	1/2	2,816.30	1/2	2,569.62	1/2	2,322.93	1/2	2,076.25	1/2	1,829.56	1/2	1,582.87	
3/4	3/4	3,545.01	3/4	3,304.54	3/4	3,057.85	3/4	2,811.17	3/4	2,564.48	3/4	2,317.79	3/4	2,071.11	3/4	1,824.42	3/4	1,577.73	
2	2	3,542.44	2	3,299.40	2	3,052.71	2	2,806.03	2	2,559.34	2	2,312.65	2	2,065.97	2	1,819.28	2	1,572.59	
1/4	1/4	3,538.16	1/4	3,294.26	1/4	3,047.57	1/4	2,800.89	1/4	2,554.20	1/4	2,307.51	1/4	2,060.83	1/4	1,814.14	1/4	1,567.45	
1/2	1/2	3,533.88	1/2	3,289.12	1/2	3,042.43	1/2	2,795.75	1/2	2,549.06	1/2	2,302.37	1/2	2,055.69	1/2	1,809.00	1/2	1,562.32	
3/4	3/4	3,529.60	3/4	3,283.98	3/4	3,037.29	3/4	2,790.61	3/4	2,543.92	3/4	2,297.24	3/4	2,050.55	3/4	1,803.86	3/4	1,557.18	
3	3	3,525.32	3	3,278.84	3	3,032.16	3	2,785.47	3	2,538.78	3	2,292.10	3	2,045.41	3	1,798.72	3	1,552.04	
1/4	1/4	3,520.22	1/4	3,273.70	1/4	3,027.02	1/4	2,780.33	1/4	2,533.64	1/4	2,286.96	1/4	2,040.27	1/4	1,793.58	1/4	1,546.90	
1/2	1/2	3,515.13	1/2	3,268.56	1/2	3,021.88	1/2	2,775.19	1/2	2,528.50	1/2	2,281.82	1/2	2,035.13	1/2	1,788.44	1/2	1,541.76	
3/4	3/4	3,510.03	3/4	3,263.42	3/4	3,016.74	3/4	2,770.05	3/4	2,523.36	3/4	2,276.68	3/4	2,029.99	3/4	1,783.31	3/4	1,536.62	
4	4	3,504.94	4	3,258.28	4	3,011.60	4	2,764.91	4	2,518.23	4	2,271.54	4	2,024.85	4	1,778.17	4	1,531.48	
1/4	1/4	3,499.81	1/4	3,253.15	1/4	3,006.46	1/4	2,759.77	1/4	2,513.09	1/4	2,266.40	1/4	2,019.71	1/4	1,773.03	1/4	1,526.34	
1/2	1/2	3,494.68	1/2	3,248.01	1/2	3,001.32	1/2	2,754.63	1/2	2,507.95	1/2	2,261.26	1/2	2,014.57	1/2	1,767.89	1/2	1,521.20	
3/4	3/4	3,489.56	3/4	3,242.87	3/4	2,996.18	3/4	2,749.49	3/4	2,502.81	3/4	2,256.12	3/4	2,009.43	3/4	1,762.75	3/4	1,516.06	
5	5	3,484.43	5	3,237.73	5	2,991.04	5	2,744.35	5	2,497.67	5	2,250.98	5	2,004.30	5	1,757.61	5	1,510.92	
1/4	1/4	3,479.29	1/4	3,232.59	1/4	2,985.90	1/4	2,739.22	1/4	2,492.53	1/4	2,245.84	1/4	1,999.16	1/4	1,752.47	1/4	1,505.78	
1/2	1/2	3,474.14	1/2	3,227.45	1/2	2,980.76	1/2	2,734.08	1/2	2,487.39	1/2	2,240.70	1/2	1,994.02	1/2	1,747.33	1/2	1,500.64	
3/4	3/4	3,469.00	3/4	3,222.31	3/4	2,975.62	3/4	2,728.94	3/4	2,482.25	3/4	2,235.56	3/4	1,988.88	3/4	1,742.19	3/4	1,495.50	
6	6	3,463.86	6	3,217.17	6	2,970.48	6	2,723.80	6	2,477.11	6	2,230.42	6	1,983.74	6	1,737.05	6	1,490.37	
1/4	1/4	3,458.72	1/4	3,212.03	1/4	2,965.34	1/4	2,718.66	1/4	2,471.97	1/4	2,225.29	1/4	1,978.60	1/4	1,731.91	1/4	1,485.23	
1/2	1/2	3,453.58	1/2	3,206.89	1/2	2,960.21	1/2	2,713.52	1/2	2,466.83	1/2	2,220.15	1/2	1,973.46	1/2	1,726.77	1/2	1,480.09	
3/4	3/4	3,448.44	3/4	3,201.75	3/4	2,955.07	3/4	2,708.38	3/4	2,461.69	3/4	2,215.01	3/4	1,968.32	3/4	1,721.63	3/4	1,474.95	
7	7	3,443.30	7	3,196.61	7	2,949.93	7	2,703.24	7	2,456.55	7	2,209.87	7	1,963.18	7	1,716.49	7	1,469.81	
1/4	1/4	3,438.16	1/4	3,191.47	1/4	2,944.79	1/4	2,698.10	1/4	2,451.41	1/4	2,204.73	1/4	1,958.04	1/4	1,711.36	1/4	1,464.67	
1/2	1/2	3,433.02	1/2	3,186.33	1/2	2,939.65	1/2	2,692.96	1/2	2,446.28	1/2	2,199.59	1/2	1,952.90	1/2	1,706.22	1/2	1,459.53	
3/4	3/4	3,427.88	3/4	3,181.20	3/4	2,934.51	3/4	2,687.82	3/4	2,441.14	3/4	2,194.45	3/4	1,947.76	3/4	1,701.08	3/4	1,454.39	
8	8	3,422.74	8	3,176.06	8	2,929.37	8	2,682.68	8	2,436.00	8	2,189.31	8	1,942.62	8	1,695.94	8	1,449.25	
1/4	1/4	3,417.60	1/4	3,170.92	1/4	2,924.23	1/4	2,677.54	1/4	2,430.86	1/4	2,184.17	1/4	1,937.48	1/4	1,690.80	1/4	1,444.11	
1/2	1/2	3,412.46	1/2	3,165.78	1/2	2,919.09	1/2	2,672.40	1/2	2,425.72	1/2	2,179.03	1/2	1,932.35	1/2	1,685.66	1/2	1,438.97	
3/4	3/4	3,407.32	3/4	3,160.64	3/4	2,913.95	3/4	2,667.27	3/4	2,420.58	3/4	2,173.89	3/4	1,927.21	3/4	1,680.52	3/4	1,433.83	
9	9	3,402.19	9	3,155.50	9	2,908.81	9	2,662.13	9	2,415.44	9	2,168.75	9	1,922.07	9	1,675.38	9	1,428.69	
1/4	1/4	3,397.05	1/4	3,150.36	1/4	2,903.67	1/4	2,656.99	1/4	2,410.30	1/4	2,163.61	1/4	1,916.93	1/4	1,670.24	1/4	1,423.55	
1/2	1/2	3,391.91	1/2	3,145.22	1/2	2,898.53	1/2	2,651.85	1/2	2,405.16	1/2	2,158.47	1/2	1,911.79	1/2	1,665.10	1/2	1,418.42	
3/4	3/4	3,386.77	3/4	3,140.08	3/4	2,893.39	3/4	2,646.71	3/4	2,400.02	3/4	2,153.34	3/4	1,906.65	3/4	1,659.96	3/4	1,413.28	
10	10	3,381.63	10	3,134.94	10	2,888.26	10	2,641.57	10	2,394.88	10	2,148.20	10	1,901.51	10	1,654.82	10	1,408.14	
1/4	1/4	3,376.49	1/4	3,129.80	1/4	2,883.12	1/4	2,636.43	1/4	2,389.74	1/4	2,143.06	1/4	1,896.37	1/4	1,649.68	1/4	1,403.00	
1/2	1/2	3,371.35	1/2	3,124.66	1/2	2,877.98	1/2	2,631.29	1/2	2,384.60	1/2	2,137.92	1/2	1,891.23	1/2	1,644.54	1/2	1,397.86	
3/4	3/4	3,366.21	3/4	3,119.52	3/4	2,872.84	3/4	2,626.15	3/4	2,379.46	3/4	2,132.78	3/4	1,886.09	3/4	1,639.41	3/4	1,392.72	
11	11	3,361.07	11	3,114.38	11	2,867.70	11	2,621.01	11	2,374.33	11	2,127.64	11	1,880.95	11	1,634.27	11	1,387.58	
1/4	1/4	3,355.93	1/4	3,109.24	1/4	2,862.56	1/4	2,615.87	1/4	2,369.19	1/4	2,122.50	1/4	1,875.81	1/4	1,629.13	1/4	1,382.44	
1/2	1/2	3,350.79	1/2	3,104.11	1/2	2,857.42	1/2	2,610.73	1/2	2,364.05	1/2	2,117.36	1/2	1,870.67	1/2	1,623.99	1/2	1,377.30	
3/4	3/4	3,345.65	3/4	3,098.97	3/4	2,852.28	3/4	2,605.59	3/4	2,358.91	3/4	2,112.22	3/4	1,865.53	3/4	1,618.85	3/4	1,372.16	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "FMT 1410"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,367.02	0	1,120.34	0	873.65	0	627.42	0	380.77	0	134.10	0		0		0		0	
1/4	1,361.88	1/4	1,115.20	1/4	868.51	1/4	622.29	1/4	375.63	1/4	128.96	1/4		1/4		1/4		1/4	
1/2	1,356.74	1/2	1,110.06	1/2	863.37	1/2	617.16	1/2	370.50	1/2	123.82	1/2		1/2		1/2		1/2	
3/4	1,351.60	3/4	1,104.92	3/4	858.23	3/4	612.03	3/4	365.36	3/4	118.68	3/4		3/4		3/4		3/4	
1	1,346.47	1	1,099.78	1	853.09	1	606.89	1	360.22	1	113.54	1		1		1		1	
1/4	1,341.33	1/4	1,094.64	1/4	847.95	1/4	601.75	1/4	355.08	1/4	108.40	1/4		1/4		1/4		1/4	
1/2	1,336.19	1/2	1,089.50	1/2	842.81	1/2	596.62	1/2	349.94	1/2	103.26	1/2		1/2		1/2		1/2	
3/4	1,331.05	3/4	1,084.36	3/4	837.67	3/4	591.48	3/4	344.80	3/4	98.12	3/4		3/4		3/4		3/4	
2	1,325.91	2	1,079.22	2	832.54	2	586.34	2	339.66	2	92.98	2		2		2		2	
1/4	1,320.77	1/4	1,074.08	1/4	827.40	1/4	581.20	1/4	334.52	1/4	87.85	1/4		1/4		1/4		1/4	
1/2	1,315.63	1/2	1,068.94	1/2	822.26	1/2	576.06	1/2	329.38	1/2	82.71	1/2		1/2		1/2		1/2	
3/4	1,310.49	3/4	1,063.80	3/4	817.12	3/4	570.92	3/4	324.24	3/4	77.57	3/4		3/4		3/4		3/4	
3	1,305.35	3	1,058.66	3	811.98	3	565.78	3	319.10	3	72.43	3		3		3		3	
1/4	1,300.21	1/4	1,053.52	1/4	806.85	1/4	560.64	1/4	313.97	1/4	67.31	1/4		1/4		1/4		1/4	
1/2	1,295.07	1/2	1,048.39	1/2	801.72	1/2	555.50	1/2	308.83	1/2	62.18	1/2		1/2		1/2		1/2	
3/4	1,289.93	3/4	1,043.25	3/4	796.59	3/4	550.36	3/4	303.69	3/4	57.05	3/4		3/4		3/4		3/4	
4	1,284.79	4	1,038.11	4	791.46	4	545.22	4	298.55	4	51.93	4		4		4		4	
1/4	1,279.65	1/4	1,032.97	1/4	786.33	1/4	540.09	1/4	293.41	1/4	46.83	1/4		1/4		1/4		1/4	
1/2	1,274.51	1/2	1,027.83	1/2	781.20	1/2	534.95	1/2	288.27	1/2	41.74	1/2		1/2		1/2		1/2	
3/4	1,269.38	3/4	1,022.69	3/4	776.08	3/4	529.81	3/4	283.13	3/4	36.64	3/4		3/4		3/4		3/4	
5	1,264.24	5	1,017.55	5	770.95	5	524.67	5	277.99	5	31.55	5		5		5		5	
1/4	1,259.10	1/4	1,012.41	1/4	765.83	1/4	519.53	1/4	272.85	1/4	27.27	1/4		1/4		1/4		1/4	
1/2	1,253.96	1/2	1,007.27	1/2	760.70	1/2	514.39	1/2	267.71	1/2	22.99	1/2		1/2		1/2		1/2	
3/4	1,248.82	3/4	1,002.13	3/4	755.57	3/4	509.25	3/4	262.57	3/4	18.71	3/4		3/4		3/4		3/4	
6	1,243.68	6	996.99	6	750.45	6	504.11	6	257.44	6	14.43	6		6		6		6	
1/4	1,238.54	1/4	991.85	1/4	745.32	1/4	498.97	1/4	252.30	1/4	11.86	1/4		1/4		1/4		1/4	
1/2	1,233.40	1/2	986.71	1/2	740.20	1/2	493.83	1/2	247.16	1/2	9.29	1/2		1/2		1/2		1/2	
3/4	1,228.26	3/4	981.57	3/4	735.07	3/4	488.69	3/4	242.02	3/4	6.72	3/4		3/4		3/4		3/4	
7	1,223.12	7	976.44	7	729.94	7	483.56	7	236.88	7	4.15	7		7		7		7	
1/4	1,217.98	1/4	971.30	1/4	724.82	1/4	478.42	1/4	231.74	1/4	3.30	1/4		1/4		1/4		1/4	
1/2	1,212.84	1/2	966.16	1/2	719.69	1/2	473.28	1/2	226.60	1/2	2.44	1/2		1/2		1/2		1/2	
3/4	1,207.70	3/4	961.02	3/4	714.56	3/4	468.14	3/4	221.46	3/4	1.59	3/4		3/4		3/4		3/4	
8	1,202.56	8	955.88	8	709.44	8	463.00	8	216.32	8	0.73	8		8		8		8	
1/4	1,197.43	1/4	950.74	1/4	704.31	1/4	457.86	1/4	211.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,192.29	1/2	945.60	1/2	699.19	1/2	452.72	1/2	206.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,187.15	3/4	940.46	3/4	694.06	3/4	447.58	3/4	200.90	3/4		3/4		3/4		3/4		3/4	
9	1,182.01	9	935.32	9	688.93	9	442.44	9	195.77	9		9		9		9		9	
1/4	1,176.87	1/4	930.18	1/4	683.81	1/4	437.30	1/4	190.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,171.73	1/2	925.04	1/2	678.68	1/2	432.16	1/2	185.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,166.59	3/4	919.90	3/4	673.56	3/4	427.03	3/4	180.35	3/4		3/4		3/4		3/4		3/4	
10	1,161.45	10	914.76	10	668.43	10	421.89	10	175.21	10		10		10		10		10	
1/4	1,156.31	1/4	909.62	1/4	663.30	1/4	416.75	1/4	170.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,151.17	1/2	904.49	1/2	658.18	1/2	411.61	1/2	164.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,146.03	3/4	899.35	3/4	653.05	3/4	406.47	3/4	159.79	3/4		3/4		3/4		3/4		3/4	
11	1,140.89	11	894.21	11	647.93	11	401.33	11	154.65	11		11		11		11		11	
1/4	1,135.75	1/4	889.07	1/4	642.80	1/4	396.19	1/4	149.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,130.61	1/2	883.93	1/2	637.67	1/2	391.05	1/2	144.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,125.48	3/4	878.79	3/4	632.55	3/4	385.91	3/4	139.24	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/20/2019 JS
CALCULATED: 11/21/2019 CL
PRINTED: 11/21/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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