



BARGE "FMT 1416"

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"

December 5, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "FMT 1416"

1 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	4.07	0	221.11	0	469.44	0	714.38	0	959.03	0	1,206.61	0	1,454.19	0	1,701.66	0	1,948.64	0	2,196.29
1/4	4.93	1/4	226.28	1/4	474.62	1/4	719.38	1/4	964.19	1/4	1,211.77	1/4	1,459.35	1/4	1,706.81	1/4	1,953.80	1/4	2,201.44
1/2	5.79	1/2	231.46	1/2	479.79	1/2	724.38	1/2	969.35	1/2	1,216.93	1/2	1,464.51	1/2	1,711.95	1/2	1,958.96	1/2	2,206.60
3/4	6.65	3/4	236.63	3/4	484.96	3/4	729.39	3/4	974.51	3/4	1,222.09	3/4	1,469.67	3/4	1,717.09	3/4	1,964.12	3/4	2,211.76
1	7.52	1	241.80	1	490.14	1	734.39	1	979.67	1	1,227.24	1	1,474.82	1	1,722.23	1	1,969.28	1	2,216.92
1/4	10.10	1/4	246.98	1/4	495.31	1/4	739.39	1/4	984.82	1/4	1,232.40	1/4	1,479.98	1/4	1,727.38	1/4	1,974.44	1/4	2,222.08
1/2	12.69	1/2	252.15	1/2	500.48	1/2	744.39	1/2	989.98	1/2	1,237.56	1/2	1,485.14	1/2	1,732.52	1/2	1,979.59	1/2	2,227.24
3/4	15.27	3/4	257.32	3/4	505.66	3/4	749.39	3/4	995.14	3/4	1,242.72	3/4	1,490.30	3/4	1,737.66	3/4	1,984.75	3/4	2,232.40
2	17.86	2	262.50	2	510.83	2	754.40	2	1,000.30	2	1,247.88	2	1,495.46	2	1,742.80	2	1,989.91	2	2,237.56
1/4	22.17	1/4	267.67	1/4	516.00	1/4	759.40	1/4	1,005.46	1/4	1,253.03	1/4	1,500.61	1/4	1,747.95	1/4	1,995.07	1/4	2,242.72
1/2	26.48	1/2	272.85	1/2	521.18	1/2	764.40	1/2	1,010.61	1/2	1,258.19	1/2	1,505.76	1/2	1,753.09	1/2	2,000.23	1/2	2,247.88
3/4	30.79	3/4	278.02	3/4	526.35	3/4	769.40	3/4	1,015.77	3/4	1,263.35	3/4	1,510.92	3/4	1,758.23	3/4	2,005.39	3/4	2,253.04
3	35.10	3	283.19	3	531.53	3	774.40	3	1,020.93	3	1,268.51	3	1,516.07	3	1,763.37	3	2,010.55	3	2,258.20
1/4	40.22	1/4	288.37	1/4	536.70	1/4	779.43	1/4	1,026.09	1/4	1,273.67	1/4	1,521.23	1/4	1,768.52	1/4	2,015.71	1/4	2,263.36
1/2	45.35	1/2	293.54	1/2	541.87	1/2	784.45	1/2	1,031.24	1/2	1,278.82	1/2	1,526.38	1/2	1,773.66	1/2	2,020.87	1/2	2,268.52
3/4	50.48	3/4	298.71	3/4	547.05	3/4	789.48	3/4	1,036.40	3/4	1,283.98	3/4	1,531.53	3/4	1,778.80	3/4	2,026.03	3/4	2,273.67
4	55.61	4	303.89	4	552.22	4	794.50	4	1,041.56	4	1,289.14	4	1,536.69	4	1,783.94	4	2,031.19	4	2,278.83
1/4	60.77	1/4	309.06	1/4	557.39	1/4	799.53	1/4	1,046.72	1/4	1,294.30	1/4	1,541.84	1/4	1,789.09	1/4	2,036.35	1/4	2,283.99
1/2	65.93	1/2	314.23	1/2	562.57	1/2	804.56	1/2	1,051.88	1/2	1,299.46	1/2	1,547.00	1/2	1,794.23	1/2	2,041.51	1/2	2,289.15
3/4	71.09	3/4	319.41	3/4	567.74	3/4	809.58	3/4	1,057.03	3/4	1,304.61	3/4	1,552.15	3/4	1,799.37	3/4	2,046.67	3/4	2,294.31
5	76.25	5	324.58	5	572.91	5	814.61	5	1,062.19	5	1,309.77	5	1,557.30	5	1,804.51	5	2,051.82	5	2,299.47
1/4	81.43	1/4	329.75	1/4	578.08	1/4	819.77	1/4	1,067.35	1/4	1,314.93	1/4	1,562.46	1/4	1,809.66	1/4	2,056.98	1/4	2,304.63
1/2	86.60	1/2	334.93	1/2	583.24	1/2	824.93	1/2	1,072.51	1/2	1,320.09	1/2	1,567.61	1/2	1,814.80	1/2	2,062.14	1/2	2,309.79
3/4	91.77	3/4	340.10	3/4	588.41	3/4	830.09	3/4	1,077.67	3/4	1,325.24	3/4	1,572.77	3/4	1,819.94	3/4	2,067.30	3/4	2,314.95
6	96.94	6	345.28	6	593.57	6	835.24	6	1,082.82	6	1,330.40	6	1,577.92	6	1,825.08	6	2,072.46	6	2,320.11
1/4	102.11	1/4	350.45	1/4	598.74	1/4	840.40	1/4	1,087.98	1/4	1,335.56	1/4	1,583.08	1/4	1,830.23	1/4	2,077.62	1/4	2,325.27
1/2	107.29	1/2	355.62	1/2	603.90	1/2	845.56	1/2	1,093.14	1/2	1,340.72	1/2	1,588.23	1/2	1,835.37	1/2	2,082.78	1/2	2,330.43
3/4	112.46	3/4	360.80	3/4	609.07	3/4	850.72	3/4	1,098.30	3/4	1,345.88	3/4	1,593.38	3/4	1,840.51	3/4	2,087.94	3/4	2,335.59
7	117.64	7	365.97	7	614.23	7	855.88	7	1,103.46	7	1,351.03	7	1,598.54	7	1,845.65	7	2,093.10	7	2,340.75
1/4	122.81	1/4	371.14	1/4	619.25	1/4	861.03	1/4	1,108.61	1/4	1,356.19	1/4	1,603.69	1/4	1,850.80	1/4	2,098.26	1/4	2,345.90
1/2	127.98	1/2	376.32	1/2	624.27	1/2	866.19	1/2	1,113.77	1/2	1,361.35	1/2	1,608.85	1/2	1,855.94	1/2	2,103.42	1/2	2,351.05
3/4	133.16	3/4	381.49	3/4	629.28	3/4	871.35	3/4	1,118.93	3/4	1,366.51	3/4	1,614.00	3/4	1,861.08	3/4	2,108.58	3/4	2,356.21
8	138.33	8	386.66	8	634.30	8	876.51	8	1,124.09	8	1,371.67	8	1,619.15	8	1,866.22	8	2,113.74	8	2,361.36
1/4	143.50	1/4	391.84	1/4	639.31	1/4	881.67	1/4	1,129.24	1/4	1,376.82	1/4	1,624.31	1/4	1,871.37	1/4	2,118.90	1/4	2,366.52
1/2	148.68	1/2	397.01	1/2	644.33	1/2	886.82	1/2	1,134.40	1/2	1,381.98	1/2	1,629.47	1/2	1,876.51	1/2	2,124.05	1/2	2,371.67
3/4	153.85	3/4	402.19	3/4	649.34	3/4	891.98	3/4	1,139.56	3/4	1,387.14	3/4	1,634.62	3/4	1,881.65	3/4	2,129.21	3/4	2,376.82
9	159.02	9	407.36	9	654.36	9	897.14	9	1,144.72	9	1,392.30	9	1,639.78	9	1,886.79	9	2,134.37	9	2,381.98
1/4	164.20	1/4	412.53	1/4	659.36	1/4	902.30	1/4	1,149.88	1/4	1,397.46	1/4	1,644.94	1/4	1,891.94	1/4	2,139.53	1/4	2,387.13
1/2	169.37	1/2	417.71	1/2	664.36	1/2	907.46	1/2	1,155.03	1/2	1,402.61	1/2	1,650.10	1/2	1,897.08	1/2	2,144.69	1/2	2,392.29
3/4	174.55	3/4	422.88	3/4	669.36	3/4	912.61	3/4	1,160.19	3/4	1,407.77	3/4	1,655.25	3/4	1,902.22	3/4	2,149.85	3/4	2,397.44
10	179.72	10	428.05	10	674.36	10	917.77	10	1,165.35	10	1,412.93	10	1,660.41	10	1,907.36	10	2,155.01	10	2,402.59
1/4	184.89	1/4	433.23	1/4	679.37	1/4	922.93	1/4	1,170.51	1/4	1,418.09	1/4	1,665.57	1/4	1,912.52	1/4	2,160.17	1/4	2,407.75
1/2	190.07	1/2	438.40	1/2	684.37	1/2	928.09	1/2	1,175.67	1/2	1,423.25	1/2	1,670.72	1/2	1,917.68	1/2	2,165.33	1/2	2,412.90
3/4	195.24	3/4	443.57	3/4	689.37	3/4	933.24	3/4	1,180.82	3/4	1,428.40	3/4	1,675.88	3/4	1,922.84	3/4	2,170.49	3/4	2,418.06
11	200.41	11	448.75	11	694.37	11	938.40	11	1,185.98	11	1,433.56	11	1,681.04	11	1,928.00	11	2,175.65	11	2,423.21
1/4	205.59	1/4	453.92	1/4	699.37	1/4	943.56	1/4	1,191.14	1/4	1,438.72	1/4	1,686.19	1/4	1,933.16	1/4	2,180.81	1/4	2,428.36
1/2	210.76	1/2	459.09	1/2	704.38	1/2	948.72	1/2	1,196.30	1/2	1,443.88	1/2	1,691.35	1/2	1,938.32	1/2	2,185.97	1/2	2,433.52
3/4	215.94	3/4	464.27	3/4	709.38	3/4	953.88	3/4	1,201.46	3/4	1,449.03	3/4	1,696.51	3/4	1,943.48	3/4	2,191.13	3/4	2,438.67

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "FMT 1416"

1 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	2,443.83	0	2,672.48	0	2,883.75	0	3,095.02	0	3,306.29	0		0		0		0		0	
1/4	2,448.98	1/4	2,676.89	1/4	2,888.15	1/4	3,099.42	1/4	3,310.69	1/4		1/4		1/4		1/4		1/4	
1/2	2,454.13	1/2	2,681.29	1/2	2,892.55	1/2	3,103.82	1/2	3,315.09	1/2		1/2		1/2		1/2		1/2	
3/4	2,459.29	3/4	2,685.69	3/4	2,896.96	3/4	3,108.22	3/4	3,319.49	3/4		3/4		3/4		3/4		3/4	
1	2,464.44	1	2,690.09	1	2,901.36	1	3,112.62	1	3,323.89	1		1		1		1		1	
1/4	2,469.60	1/4	2,694.49	1/4	2,905.76	1/4	3,117.03	1/4	3,328.29	1/4		1/4		1/4		1/4		1/4	
1/2	2,474.75	1/2	2,698.89	1/2	2,910.16	1/2	3,121.43	1/2	3,332.69	1/2		1/2		1/2		1/2		1/2	
3/4	2,479.90	3/4	2,703.29	3/4	2,914.56	3/4	3,125.83	3/4	3,337.10	3/4		3/4		3/4		3/4		3/4	
2	2,485.06	2	2,707.70	2	2,918.96	2	3,130.23	2	3,341.50	2		2		2		2		2	
1/4	2,490.21	1/4	2,712.10	1/4	2,923.36	1/4	3,134.63	1/4	3,345.90	1/4		1/4		1/4		1/4		1/4	
1/2	2,495.37	1/2	2,716.50	1/2	2,927.77	1/2	3,139.03	1/2	3,350.31	1/2		1/2		1/2		1/2		1/2	
3/4	2,500.52	3/4	2,720.90	3/4	2,932.17	3/4	3,143.43	3/4	3,354.71	3/4		3/4		3/4		3/4		3/4	
3	2,505.67	3	2,725.30	3	2,936.57	3	3,147.84	3	3,359.12	3		3		3		3		3	
1/4	2,510.83	1/4	2,729.70	1/4	2,940.97	1/4	3,152.24	1/4	3,363.51	1/4		1/4		1/4		1/4		1/4	
1/2	2,515.98	1/2	2,734.10	1/2	2,945.37	1/2	3,156.64	1/2	3,367.90	1/2		1/2		1/2		1/2		1/2	
3/4	2,521.14	3/4	2,738.51	3/4	2,949.77	3/4	3,161.04	3/4	3,372.28	3/4		3/4		3/4		3/4		3/4	
4	2,526.29	4	2,742.91	4	2,954.17	4	3,165.44	4	3,376.67	4		4		4		4		4	
1/4	2,531.43	1/4	2,747.31	1/4	2,958.58	1/4	3,169.84	1/4	3,381.03	1/4		1/4		1/4		1/4		1/4	
1/2	2,536.57	1/2	2,751.71	1/2	2,962.98	1/2	3,174.24	1/2	3,385.39	1/2		1/2		1/2		1/2		1/2	
3/4	2,541.71	3/4	2,756.11	3/4	2,967.38	3/4	3,178.65	3/4	3,389.74	3/4		3/4		3/4		3/4		3/4	
5	2,546.85	5	2,760.51	5	2,971.78	5	3,183.05	5	3,394.10	5		5		5		5		5	
1/4	2,551.98	1/4	2,764.91	1/4	2,976.18	1/4	3,187.45	1/4	3,398.41	1/4		1/4		1/4		1/4		1/4	
1/2	2,557.12	1/2	2,769.32	1/2	2,980.58	1/2	3,191.85	1/2	3,402.72	1/2		1/2		1/2		1/2		1/2	
3/4	2,562.26	3/4	2,773.72	3/4	2,984.98	3/4	3,196.25	3/4	3,407.03	3/4		3/4		3/4		3/4		3/4	
6	2,567.40	6	2,778.12	6	2,989.39	6	3,200.65	6	3,411.34	6		6		6		6		6	
1/4	2,571.77	1/4	2,782.52	1/4	2,993.79	1/4	3,205.05	1/4	3,415.92	1/4		1/4		1/4		1/4		1/4	
1/2	2,576.14	1/2	2,786.92	1/2	2,998.19	1/2	3,209.46	1/2	3,416.51	1/2		1/2		1/2		1/2		1/2	
3/4	2,580.50	3/4	2,791.32	3/4	3,002.59	3/4	3,213.86	3/4	3,419.09	3/4		3/4		3/4		3/4		3/4	
7	2,584.87	7	2,795.72	7	3,006.99	7	3,218.26	7	3,421.68	7		7		7		7		7	
1/4	2,589.24	1/4	2,800.13	1/4	3,011.39	1/4	3,222.66	1/4	3,422.54	1/4		1/4		1/4		1/4		1/4	
1/2	2,593.60	1/2	2,804.53	1/2	3,015.79	1/2	3,227.06	1/2	3,423.40	1/2		1/2		1/2		1/2		1/2	
3/4	2,597.97	3/4	2,808.93	3/4	3,020.20	3/4	3,231.46	3/4	3,424.26	3/4		3/4		3/4		3/4		3/4	
8	2,602.34	8	2,813.33	8	3,024.60	8	3,235.86	8	3,425.12	8		8		8		8		8	
1/4	2,606.70	1/4	2,817.73	1/4	3,029.00	1/4	3,240.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,611.07	1/2	2,822.13	1/2	3,033.40	1/2	3,244.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,615.44	3/4	2,826.53	3/4	3,037.80	3/4	3,249.07	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,619.81	9	2,830.94	9	3,042.20	9	3,253.47	9		9		9		9		9		9	
1/4	2,624.17	1/4	2,835.34	1/4	3,046.60	1/4	3,257.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,628.54	1/2	2,839.74	1/2	3,051.01	1/2	3,262.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,632.91	3/4	2,844.14	3/4	3,055.41	3/4	3,266.67	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,637.27	10	2,848.54	10	3,059.81	10	3,271.08	10		10		10		10		10		10	
1/4	2,641.67	1/4	2,852.94	1/4	3,064.21	1/4	3,275.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,646.08	1/2	2,857.34	1/2	3,068.61	1/2	3,279.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,650.48	3/4	2,861.74	3/4	3,073.01	3/4	3,284.28	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,654.88	11	2,866.15	11	3,077.41	11	3,288.68	11		11		11		11		11		11	
1/4	2,659.28	1/4	2,870.55	1/4	3,081.82	1/4	3,293.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,663.68	1/2	2,874.95	1/2	3,086.22	1/2	3,297.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,668.08	3/4	2,879.35	3/4	3,090.62	3/4	3,301.89	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/05/2019 CL
PRINTED: 12/05/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "FMT 1416"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.73	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

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "FMT 1416"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,711.39	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	3,198.76	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: 12/04/2019 CL
CALCULATED: 12/05/2019 CL
PRINTED: 12/05/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "FMT 1416"

3 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	216.37	0	463.10	0	709.59	0	956.08	0	1,202.82	0	1,449.56	0	1,696.30	0	1,943.04	0	2,189.78
1/4	1.59	1/4	221.51	1/4	468.24	1/4	714.72	1/4	961.22	1/4	1,207.96	1/4	1,454.70	1/4	1,701.44	1/4	1,948.18	1/4	2,194.92
1/2	2.44	1/2	226.65	1/2	473.38	1/2	719.84	1/2	966.36	1/2	1,213.10	1/2	1,459.84	1/2	1,706.58	1/2	1,953.32	1/2	2,200.06
3/4	3.30	3/4	231.79	3/4	478.52	3/4	724.97	3/4	971.50	3/4	1,218.24	3/4	1,464.98	3/4	1,711.72	3/4	1,958.46	3/4	2,205.20
1	4.15	1	236.93	1	483.66	1	730.10	1	976.64	1	1,223.38	1	1,470.12	1	1,716.86	1	1,963.60	1	2,210.34
1/4	6.72	1/4	242.07	1/4	488.80	1/4	735.23	1/4	981.78	1/4	1,228.52	1/4	1,475.26	1/4	1,722.00	1/4	1,968.74	1/4	2,215.48
1/2	9.29	1/2	247.21	1/2	493.94	1/2	740.35	1/2	986.93	1/2	1,233.66	1/2	1,480.40	1/2	1,727.14	1/2	1,973.88	1/2	2,220.62
3/4	11.86	3/4	252.35	3/4	499.08	3/4	745.48	3/4	992.07	3/4	1,238.80	3/4	1,485.54	3/4	1,732.28	3/4	1,979.02	3/4	2,225.76
2	14.43	2	257.49	2	504.22	2	750.61	2	997.21	2	1,243.95	2	1,490.68	2	1,737.42	2	1,984.16	2	2,230.90
1/4	18.71	1/4	262.63	1/4	509.36	1/4	755.74	1/4	1,002.35	1/4	1,249.09	1/4	1,495.82	1/4	1,742.56	1/4	1,989.30	1/4	2,236.04
1/2	22.99	1/2	267.77	1/2	514.50	1/2	760.86	1/2	1,007.49	1/2	1,254.23	1/2	1,500.97	1/2	1,747.70	1/2	1,994.44	1/2	2,241.18
3/4	27.28	3/4	272.91	3/4	519.64	3/4	765.99	3/4	1,012.63	3/4	1,259.37	3/4	1,506.11	3/4	1,752.84	3/4	1,999.58	3/4	2,246.32
3	31.56	3	278.05	3	524.78	3	771.12	3	1,017.77	3	1,264.51	3	1,511.25	3	1,757.99	3	2,004.72	3	2,251.46
1/4	36.65	1/4	283.19	1/4	529.92	1/4	776.24	1/4	1,022.91	1/4	1,269.65	1/4	1,516.39	1/4	1,763.13	1/4	2,009.86	1/4	2,256.60
1/2	41.75	1/2	288.33	1/2	535.06	1/2	781.37	1/2	1,028.05	1/2	1,274.79	1/2	1,521.53	1/2	1,768.27	1/2	2,015.01	1/2	2,261.74
3/4	46.84	3/4	293.47	3/4	540.20	3/4	786.50	3/4	1,033.19	3/4	1,279.93	3/4	1,526.67	3/4	1,773.41	3/4	2,020.15	3/4	2,266.88
4	51.94	4	298.61	4	545.34	4	791.63	4	1,038.33	4	1,285.07	4	1,531.81	4	1,778.55	4	2,025.29	4	2,272.03
1/4	57.07	1/4	303.75	1/4	550.48	1/4	796.76	1/4	1,043.47	1/4	1,290.21	1/4	1,536.95	1/4	1,783.69	1/4	2,030.43	1/4	2,277.17
1/2	62.19	1/2	308.89	1/2	555.62	1/2	801.89	1/2	1,048.61	1/2	1,295.35	1/2	1,542.09	1/2	1,788.83	1/2	2,035.57	1/2	2,282.31
3/4	67.32	3/4	314.03	3/4	560.76	3/4	807.02	3/4	1,053.75	3/4	1,300.49	3/4	1,547.23	3/4	1,793.97	3/4	2,040.71	3/4	2,287.45
5	72.45	5	319.17	5	565.90	5	812.15	5	1,058.89	5	1,305.63	5	1,552.37	5	1,799.11	5	2,045.85	5	2,292.59
1/4	77.59	1/4	324.31	1/4	571.04	1/4	817.29	1/4	1,064.03	1/4	1,310.77	1/4	1,557.51	1/4	1,804.25	1/4	2,050.99	1/4	2,297.73
1/2	82.73	1/2	329.45	1/2	576.18	1/2	822.43	1/2	1,069.17	1/2	1,315.91	1/2	1,562.65	1/2	1,809.39	1/2	2,056.13	1/2	2,302.87
3/4	87.87	3/4	334.59	3/4	581.32	3/4	827.57	3/4	1,074.31	3/4	1,321.05	3/4	1,567.79	3/4	1,814.53	3/4	2,061.27	3/4	2,308.01
6	93.00	6	339.73	6	586.46	6	832.71	6	1,079.45	6	1,326.19	6	1,572.93	6	1,819.67	6	2,066.41	6	2,313.15
1/4	98.14	1/4	344.87	1/4	591.60	1/4	837.85	1/4	1,084.59	1/4	1,331.33	1/4	1,578.07	1/4	1,824.81	1/4	2,071.55	1/4	2,318.29
1/2	103.28	1/2	350.01	1/2	596.74	1/2	842.99	1/2	1,089.73	1/2	1,336.47	1/2	1,583.21	1/2	1,829.95	1/2	2,076.69	1/2	2,323.43
3/4	108.42	3/4	355.15	3/4	601.88	3/4	848.13	3/4	1,094.87	3/4	1,341.61	3/4	1,588.35	3/4	1,835.09	3/4	2,081.83	3/4	2,328.57
7	113.56	7	360.29	7	607.02	7	853.27	7	1,100.01	7	1,346.75	7	1,593.49	7	1,840.23	7	2,086.97	7	2,333.71
1/4	118.71	1/4	365.43	1/4	612.16	1/4	858.42	1/4	1,105.15	1/4	1,351.89	1/4	1,598.63	1/4	1,845.37	1/4	2,092.11	1/4	2,338.85
1/2	123.85	1/2	370.57	1/2	617.29	1/2	863.56	1/2	1,110.29	1/2	1,357.03	1/2	1,603.77	1/2	1,850.51	1/2	2,097.25	1/2	2,343.99
3/4	128.99	3/4	375.72	3/4	622.42	3/4	868.70	3/4	1,115.44	3/4	1,362.17	3/4	1,608.91	3/4	1,855.65	3/4	2,102.39	3/4	2,349.13
8	134.13	8	380.86	8	627.56	8	873.84	8	1,120.58	8	1,367.31	8	1,614.05	8	1,860.79	8	2,107.53	8	2,354.27
1/4	139.27	1/4	386.00	1/4	632.68	1/4	878.98	1/4	1,125.72	1/4	1,372.46	1/4	1,619.19	1/4	1,865.93	1/4	2,112.67	1/4	2,359.41
1/2	144.41	1/2	391.14	1/2	637.81	1/2	884.12	1/2	1,130.86	1/2	1,377.60	1/2	1,624.33	1/2	1,871.07	1/2	2,117.81	1/2	2,364.55
3/4	149.55	3/4	396.28	3/4	642.94	3/4	889.26	3/4	1,136.00	3/4	1,382.74	3/4	1,629.48	3/4	1,876.21	3/4	2,122.95	3/4	2,369.69
9	154.69	9	401.42	9	648.06	9	894.40	9	1,141.14	9	1,387.88	9	1,634.62	9	1,881.35	9	2,128.09	9	2,374.83
1/4	159.83	1/4	406.56	1/4	653.19	1/4	899.54	1/4	1,146.28	1/4	1,393.02	1/4	1,639.76	1/4	1,886.50	1/4	2,133.23	1/4	2,379.97
1/2	164.97	1/2	411.70	1/2	658.32	1/2	904.68	1/2	1,151.42	1/2	1,398.16	1/2	1,644.90	1/2	1,891.64	1/2	2,138.37	1/2	2,385.11
3/4	170.11	3/4	416.84	3/4	663.45	3/4	909.82	3/4	1,156.56	3/4	1,403.30	3/4	1,650.04	3/4	1,896.78	3/4	2,143.52	3/4	2,390.25
10	175.25	10	421.98	10	668.57	10	914.96	10	1,161.70	10	1,408.44	10	1,655.18	10	1,901.92	10	2,148.66	10	2,395.39
1/4	180.39	1/4	427.12	1/4	673.70	1/4	920.10	1/4	1,166.84	1/4	1,413.58	1/4	1,660.32	1/4	1,907.06	1/4	2,153.80	1/4	2,400.54
1/2	185.53	1/2	432.26	1/2	678.83	1/2	925.24	1/2	1,171.98	1/2	1,418.72	1/2	1,665.46	1/2	1,912.20	1/2	2,158.94	1/2	2,405.68
3/4	190.67	3/4	437.40	3/4	683.95	3/4	930.38	3/4	1,177.12	3/4	1,423.86	3/4	1,670.60	3/4	1,917.34	3/4	2,164.08	3/4	2,410.82
11	195.81	11	442.54	11	689.08	11	935.52	11	1,182.26	11	1,429.00	11	1,675.74	11	1,922.48	11	2,169.22	11	2,415.96
1/4	200.95	1/4	447.68	1/4	694.21	1/4	940.66	1/4	1,187.40	1/4	1,434.14	1/4	1,680.88	1/4	1,927.62	1/4	2,174.36	1/4	2,421.10
1/2	206.09	1/2	452.82	1/2	699.34	1/2	945.80	1/2	1,192.54	1/2	1,439.28	1/2	1,686.02	1/2	1,932.76	1/2	2,179.50	1/2	2,426.24
3/4	211.23	3/4	457.96	3/4	704.46	3/4	950.94	3/4	1,197.68	3/4	1,444.42	3/4	1,691.16	3/4	1,937.90	3/4	2,184.64	3/4	2,431.38

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "FMT 1416"

3 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	2,436.52	0	2,683.26	0	2,930.00	0	3,176.74	0	3,423.47	0		0		0		0		0	
1/4	2,441.66	1/4	2,688.40	1/4	2,935.14	1/4	3,181.88	1/4	3,428.62	1/4		1/4		1/4		1/4		1/4	
1/2	2,446.80	1/2	2,693.54	1/2	2,940.28	1/2	3,187.02	1/2	3,433.76	1/2		1/2		1/2		1/2		1/2	
3/4	2,451.94	3/4	2,698.68	3/4	2,945.42	3/4	3,192.16	3/4	3,438.90	3/4		3/4		3/4		3/4		3/4	
1	2,457.08	1	2,703.82	1	2,950.56	1	3,197.30	1	3,444.04	1		1		1		1		1	
1/4	2,462.22	1/4	2,708.96	1/4	2,955.70	1/4	3,202.44	1/4	3,449.18	1/4		1/4		1/4		1/4		1/4	
1/2	2,467.36	1/2	2,714.10	1/2	2,960.84	1/2	3,207.58	1/2	3,454.32	1/2		1/2		1/2		1/2		1/2	
3/4	2,472.50	3/4	2,719.24	3/4	2,965.98	3/4	3,212.72	3/4	3,459.46	3/4		3/4		3/4		3/4		3/4	
2	2,477.64	2	2,724.38	2	2,971.12	2	3,217.86	2	3,464.60	2		2		2		2		2	
1/4	2,482.78	1/4	2,729.52	1/4	2,976.26	1/4	3,223.00	1/4	3,469.74	1/4		1/4		1/4		1/4		1/4	
1/2	2,487.92	1/2	2,734.66	1/2	2,981.40	1/2	3,228.14	1/2	3,474.89	1/2		1/2		1/2		1/2		1/2	
3/4	2,493.06	3/4	2,739.80	3/4	2,986.54	3/4	3,233.28	3/4	3,480.03	3/4		3/4		3/4		3/4		3/4	
3	2,498.20	3	2,744.94	3	2,991.68	3	3,238.42	3	3,485.18	3		3		3		3		3	
1/4	2,503.34	1/4	2,750.08	1/4	2,996.82	1/4	3,243.56	1/4	3,490.31	1/4		1/4		1/4		1/4		1/4	
1/2	2,508.48	1/2	2,755.22	1/2	3,001.96	1/2	3,248.70	1/2	3,495.43	1/2		1/2		1/2		1/2		1/2	
3/4	2,513.62	3/4	2,760.36	3/4	3,007.10	3/4	3,253.84	3/4	3,500.56	3/4		3/4		3/4		3/4		3/4	
4	2,518.76	4	2,765.50	4	3,012.24	4	3,258.98	4	3,505.69	4		4		4		4		4	
1/4	2,523.90	1/4	2,770.64	1/4	3,017.38	1/4	3,264.12	1/4	3,510.78	1/4		1/4		1/4		1/4		1/4	
1/2	2,529.05	1/2	2,775.78	1/2	3,022.52	1/2	3,269.26	1/2	3,515.88	1/2		1/2		1/2		1/2		1/2	
3/4	2,534.19	3/4	2,780.92	3/4	3,027.66	3/4	3,274.40	3/4	3,520.98	3/4		3/4		3/4		3/4		3/4	
5	2,539.33	5	2,786.07	5	3,032.80	5	3,279.54	5	3,526.07	5		5		5		5		5	
1/4	2,544.47	1/4	2,791.21	1/4	3,037.94	1/4	3,284.68	1/4	3,530.35	1/4		1/4		1/4		1/4		1/4	
1/2	2,549.61	1/2	2,796.35	1/2	3,043.09	1/2	3,289.82	1/2	3,534.63	1/2		1/2		1/2		1/2		1/2	
3/4	2,554.75	3/4	2,801.49	3/4	3,048.23	3/4	3,294.96	3/4	3,538.92	3/4		3/4		3/4		3/4		3/4	
6	2,559.89	6	2,806.63	6	3,053.37	6	3,300.11	6	3,543.20	6		6		6		6		6	
1/4	2,565.03	1/4	2,811.77	1/4	3,058.51	1/4	3,305.25	1/4	3,545.77	1/4		1/4		1/4		1/4		1/4	
1/2	2,570.17	1/2	2,816.91	1/2	3,063.65	1/2	3,310.39	1/2	3,548.34	1/2		1/2		1/2		1/2		1/2	
3/4	2,575.31	3/4	2,822.05	3/4	3,068.79	3/4	3,315.53	3/4	3,550.90	3/4		3/4		3/4		3/4		3/4	
7	2,580.45	7	2,827.19	7	3,073.93	7	3,320.67	7	3,553.47	7		7		7		7		7	
1/4	2,585.59	1/4	2,832.33	1/4	3,079.07	1/4	3,325.81	1/4	3,554.33	1/4		1/4		1/4		1/4		1/4	
1/2	2,590.73	1/2	2,837.47	1/2	3,084.21	1/2	3,330.95	1/2	3,555.19	1/2		1/2		1/2		1/2		1/2	
3/4	2,595.87	3/4	2,842.61	3/4	3,089.35	3/4	3,336.09	3/4	3,556.04	3/4		3/4		3/4		3/4		3/4	
8	2,601.01	8	2,847.75	8	3,094.49	8	3,341.23	8	3,556.90	8		8		8		8		8	
1/4	2,606.15	1/4	2,852.89	1/4	3,099.63	1/4	3,346.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,611.29	1/2	2,858.03	1/2	3,104.77	1/2	3,351.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,616.43	3/4	2,863.17	3/4	3,109.91	3/4	3,356.65	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,621.57	9	2,868.31	9	3,115.05	9	3,361.79	9		9		9		9		9		9	
1/4	2,626.71	1/4	2,873.45	1/4	3,120.19	1/4	3,366.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,631.85	1/2	2,878.59	1/2	3,125.33	1/2	3,372.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,636.99	3/4	2,883.73	3/4	3,130.47	3/4	3,377.21	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,642.13	10	2,888.87	10	3,135.61	10	3,382.35	10		10		10		10		10		10	
1/4	2,647.27	1/4	2,894.01	1/4	3,140.75	1/4	3,387.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,652.41	1/2	2,899.15	1/2	3,145.89	1/2	3,392.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,657.56	3/4	2,904.29	3/4	3,151.03	3/4	3,397.77	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,662.70	11	2,909.43	11	3,156.17	11	3,402.91	11		11		11		11		11		11	
1/4	2,667.84	1/4	2,914.58	1/4	3,161.31	1/4	3,408.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,672.98	1/2	2,919.72	1/2	3,166.45	1/2	3,413.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,678.12	3/4	2,924.86	3/4	3,171.60	3/4	3,418.33	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/05/2019 CL
PRINTED: 12/05/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "FMT 1416"

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"

December 5, 2019

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "FMT 1416"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	3,423.40	0	3,227.06	0	3,015.79	0	2,804.52	0	2,593.60	0	2,351.05	0	2,103.41	0	1,855.93	0	1,608.84
1/4		1/4	3,422.54	1/4	3,226.66	1/4	3,011.39	1/4	2,800.12	1/4	2,589.23	1/4	2,345.90	1/4	2,098.25	1/4	1,850.79	1/4	1,603.69
1/2		1/2	3,421.68	1/2	3,218.25	1/2	3,006.99	1/2	2,795.72	1/2	2,584.87	1/2	2,340.74	1/2	2,093.09	1/2	1,845.65	1/2	1,598.53
3/4		3/4	3,419.09	3/4	3,213.85	3/4	3,002.59	3/4	2,791.32	3/4	2,580.50	3/4	2,335.58	3/4	2,087.94	3/4	1,840.51	3/4	1,593.38
1		1	3,416.50	1	3,209.45	1	2,998.18	1	2,786.92	1	2,576.13	1	2,330.42	1	2,082.78	1	1,835.36	1	1,588.22
1/4		1/4	3,413.92	1/4	3,205.05	1/4	2,993.78	1/4	2,782.52	1/4	2,571.76	1/4	2,325.26	1/4	2,077.62	1/4	1,830.22	1/4	1,583.07
1/2		1/2	3,411.33	1/2	3,200.65	1/2	2,989.38	1/2	2,778.11	1/2	2,567.40	1/2	2,320.10	1/2	2,072.46	1/2	1,825.08	1/2	1,577.92
3/4		3/4	3,407.02	3/4	3,196.25	3/4	2,984.98	3/4	2,773.71	3/4	2,562.26	3/4	2,314.94	3/4	2,067.30	3/4	1,819.94	3/4	1,572.76
2		2	3,402.71	2	3,191.85	2	2,980.58	2	2,769.31	2	2,557.12	2	2,309.79	2	2,062.14	2	1,814.79	2	1,567.61
1/4		1/4	3,398.40	1/4	3,187.44	1/4	2,976.18	1/4	2,764.91	1/4	2,551.98	1/4	2,304.63	1/4	2,056.98	1/4	1,809.65	1/4	1,562.45
1/2		1/2	3,394.10	1/2	3,183.04	1/2	2,971.78	1/2	2,760.51	1/2	2,546.84	1/2	2,299.47	1/2	2,051.82	1/2	1,804.51	1/2	1,557.30
3/4		3/4	3,389.74	3/4	3,178.64	3/4	2,967.37	3/4	2,756.11	3/4	2,541.70	3/4	2,294.31	3/4	2,046.66	3/4	1,799.37	3/4	1,552.15
3		3	3,385.38	3	3,174.24	3	2,962.97	3	2,751.71	3	2,536.56	3	2,289.15	3	2,041.50	3	1,794.22	3	1,546.99
1/4		1/4	3,381.02	1/4	3,169.84	1/4	2,958.57	1/4	2,747.30	1/4	2,531.42	1/4	2,283.99	1/4	2,036.34	1/4	1,789.08	1/4	1,541.84
1/2		1/2	3,376.67	1/2	3,165.44	1/2	2,954.17	1/2	2,742.90	1/2	2,526.29	1/2	2,278.83	1/2	2,031.18	1/2	1,783.94	1/2	1,536.68
3/4		3/4	3,372.28	3/4	3,161.04	3/4	2,949.77	3/4	2,738.50	3/4	2,521.13	3/4	2,273.67	3/4	2,026.02	3/4	1,778.80	3/4	1,531.53
4		4	3,367.89	4	3,156.63	4	2,945.37	4	2,734.10	4	2,515.98	4	2,268.51	4	2,020.86	4	1,773.65	4	1,526.38
1/4		1/4	3,363.50	1/4	3,152.23	1/4	2,940.97	1/4	2,729.70	1/4	2,510.82	1/4	2,263.35	1/4	2,015.71	1/4	1,768.51	1/4	1,521.22
1/2		1/2	3,359.11	1/2	3,147.83	1/2	2,936.56	1/2	2,725.30	1/2	2,505.67	1/2	2,258.19	1/2	2,010.55	1/2	1,763.37	1/2	1,516.07
3/4		3/4	3,354.71	3/4	3,143.43	3/4	2,932.16	3/4	2,720.90	3/4	2,500.52	3/4	2,253.03	3/4	2,005.39	3/4	1,758.23	3/4	1,510.91
5		5	3,350.30	5	3,139.03	5	2,927.76	5	2,716.49	5	2,495.36	5	2,247.87	5	2,000.23	5	1,753.08	5	1,505.76
1/4		1/4	3,345.90	1/4	3,134.63	1/4	2,923.36	1/4	2,712.09	1/4	2,490.21	1/4	2,242.71	1/4	1,995.07	1/4	1,747.94	1/4	1,500.61
1/2		1/2	3,341.49	1/2	3,130.23	1/2	2,918.96	1/2	2,707.69	1/2	2,485.05	1/2	2,237.56	1/2	1,989.91	1/2	1,742.80	1/2	1,495.45
3/4		3/4	3,337.09	3/4	3,125.82	3/4	2,914.56	3/4	2,703.29	3/4	2,479.90	3/4	2,232.40	3/4	1,984.75	3/4	1,737.66	3/4	1,490.29
6		6	3,332.69	6	3,121.42	6	2,910.16	6	2,698.89	6	2,474.75	6	2,227.24	6	1,979.59	6	1,732.51	6	1,485.14
1/4		1/4	3,328.29	1/4	3,117.02	1/4	2,905.75	1/4	2,694.49	1/4	2,469.59	1/4	2,222.08	1/4	1,974.43	1/4	1,727.37	1/4	1,479.98
1/2		1/2	3,323.89	1/2	3,112.62	1/2	2,901.35	1/2	2,690.09	1/2	2,464.44	1/2	2,216.92	1/2	1,969.27	1/2	1,722.23	1/2	1,474.82
3/4		3/4	3,319.49	3/4	3,108.22	3/4	2,896.95	3/4	2,685.68	3/4	2,459.28	3/4	2,211.76	3/4	1,964.11	3/4	1,717.09	3/4	1,469.66
7		7	3,315.08	7	3,103.82	7	2,892.55	7	2,681.28	7	2,454.13	7	2,206.60	7	1,958.95	7	1,711.94	7	1,464.50
1/4		1/4	3,310.68	1/4	3,099.42	1/4	2,888.15	1/4	2,676.88	1/4	2,448.98	1/4	2,201.44	1/4	1,953.79	1/4	1,706.80	1/4	1,459.35
1/2		1/2	3,306.28	1/2	3,095.01	1/2	2,883.75	1/2	2,672.48	1/2	2,443.82	1/2	2,196.28	1/2	1,948.63	1/2	1,701.66	1/2	1,454.19
3/4		3/4	3,301.88	3/4	3,090.61	3/4	2,879.35	3/4	2,668.08	3/4	2,438.67	3/4	2,191.12	3/4	1,943.48	3/4	1,696.50	3/4	1,449.03
8		8	3,297.48	8	3,086.21	8	2,874.94	8	2,663.68	8	2,433.51	8	2,185.96	8	1,938.32	8	1,691.35	8	1,443.87
1/4		1/4	3,293.08	1/4	3,081.81	1/4	2,870.54	1/4	2,659.28	1/4	2,428.36	1/4	2,180.80	1/4	1,933.16	1/4	1,686.19	1/4	1,438.71
1/2		1/2	3,288.68	1/2	3,077.41	1/2	2,866.14	1/2	2,654.87	1/2	2,423.21	1/2	2,175.64	1/2	1,928.00	1/2	1,681.03	1/2	1,433.56
3/4		3/4	3,284.28	3/4	3,073.01	3/4	2,861.74	3/4	2,650.47	3/4	2,418.05	3/4	2,170.48	3/4	1,922.84	3/4	1,675.88	3/4	1,428.40
9		9	3,279.87	9	3,068.61	9	2,857.34	9	2,646.07	9	2,412.90	9	2,165.32	9	1,917.68	9	1,670.72	9	1,423.24
1/4		1/4	3,275.47	1/4	3,064.20	1/4	2,852.94	1/4	2,641.67	1/4	2,407.74	1/4	2,160.17	1/4	1,912.52	1/4	1,665.56	1/4	1,418.08
1/2		1/2	3,271.07	1/2	3,059.80	1/2	2,848.54	1/2	2,637.27	1/2	2,402.59	1/2	2,155.01	1/2	1,907.36	1/2	1,660.40	1/2	1,412.92
3/4		3/4	3,266.67	3/4	3,055.40	3/4	2,844.13	3/4	2,632.90	3/4	2,397.44	3/4	2,149.85	3/4	1,902.22	3/4	1,655.25	3/4	1,407.77
10		10	3,262.27	10	3,051.00	10	2,839.73	10	2,628.54	10	2,392.28	10	2,144.69	10	1,897.07	10	1,650.09	10	1,402.61
1/4		1/4	3,257.87	1/4	3,046.60	1/4	2,835.33	1/4	2,624.17	1/4	2,387.13	1/4	2,139.53	1/4	1,891.93	1/4	1,644.93	1/4	1,397.45
1/2		1/2	3,253.47	1/2	3,042.20	1/2	2,830.93	1/2	2,619.80	1/2	2,381.97	1/2	2,134.37	1/2	1,886.79	1/2	1,639.78	1/2	1,392.29
3/4		3/4	3,249.06	3/4	3,037.80	3/4	2,826.53	3/4	2,615.43	3/4	2,376.82	3/4	2,129.21	3/4	1,881.65	3/4	1,634.62	3/4	1,387.14
11		11	3,244.66	11	3,033.40	11	2,822.13	11	2,611.07	11	2,371.67	11	2,124.05	11	1,876.50	11	1,629.46	11	1,381.98
1/4		1/4	3,240.26	1/4	3,028.99	1/4	2,817.73	1/4	2,606.70	1/4	2,366.51	1/4	2,118.89	1/4	1,871.36	1/4	1,624.31	1/4	1,376.82
1/2	3,425.12	1/2	3,235.86	1/2	3,024.59	1/2	2,813.33	1/2	2,602.33	1/2	2,361.36	1/2	2,113.73	1/2	1,866.22	1/2	1,619.15	1/2	1,371.66
3/4	3,424.26	3/4	3,231.46	3/4	3,020.19	3/4	2,808.92	3/4	2,597.97	3/4	2,356.20	3/4	2,108.57	3/4	1,861.08	3/4	1,614.00	3/4	1,366.50

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "FMT 1416"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,356.19	1/4	1,108.61	1/4	861.03	1/4	619.24	1/4	371.14	1/4	122.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,351.03	1/2	1,103.45	1/2	855.87	1/2	614.23	1/2	365.97	1/2	117.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,345.87	3/4	1,098.29	3/4	850.71	3/4	609.06	3/4	360.79	3/4	112.46	3/4		3/4		3/4		3/4		3/4	
1	1,340.71	1	1,093.13	1	845.56	1	603.90	1	355.62	1	107.28	1		1		1		1		1	
1/4	1,335.56	1/4	1,087.98	1/4	840.40	1/4	598.73	1/4	350.44	1/4	102.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,330.40	1/2	1,082.82	1/2	835.24	1/2	593.57	1/2	345.27	1/2	96.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,325.24	3/4	1,077.66	3/4	830.08	3/4	588.40	3/4	340.10	3/4	91.76	3/4		3/4		3/4		3/4		3/4	
2	1,320.08	2	1,072.50	2	824.92	2	583.24	2	334.92	2	86.59	2		2		2		2		2	
1/4	1,314.92	1/4	1,067.35	1/4	819.77	1/4	578.07	1/4	329.75	1/4	81.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,309.77	1/2	1,062.19	1/2	814.61	1/2	572.91	1/2	324.58	1/2	76.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,304.61	3/4	1,057.03	3/4	809.58	3/4	567.74	3/4	319.40	3/4	71.09	3/4		3/4		3/4		3/4		3/4	
3	1,299.45	3	1,051.87	3	804.55	3	562.56	3	314.23	3	65.93	3		3		3		3		3	
1/4	1,294.29	1/4	1,046.71	1/4	799.52	1/4	557.39	1/4	309.06	1/4	60.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,289.14	1/2	1,041.56	1/2	794.50	1/2	552.22	1/2	303.88	1/2	55.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,283.98	3/4	1,036.40	3/4	789.47	3/4	547.04	3/4	298.71	3/4	50.48	3/4		3/4		3/4		3/4		3/4	
4	1,278.82	4	1,031.24	4	784.45	4	541.87	4	293.54	4	45.35	4		4		4		4		4	
1/4	1,273.66	1/4	1,026.08	1/4	779.42	1/4	536.69	1/4	288.36	1/4	40.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,268.50	1/2	1,020.92	1/2	774.40	1/2	531.52	1/2	283.19	1/2	35.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,263.35	3/4	1,015.77	3/4	769.40	3/4	526.35	3/4	278.01	3/4	30.78	3/4		3/4		3/4		3/4		3/4	
5	1,258.19	5	1,010.61	5	764.39	5	521.17	5	272.84	5	26.47	5		5		5		5		5	
1/4	1,253.03	1/4	1,005.45	1/4	759.39	1/4	516.00	1/4	267.67	1/4	22.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,247.87	1/2	1,000.29	1/2	754.39	1/2	510.83	1/2	262.49	1/2	17.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,242.71	3/4	995.13	3/4	749.39	3/4	505.65	3/4	257.32	3/4	15.27	3/4		3/4		3/4		3/4		3/4	
6	1,237.56	6	989.98	6	744.39	6	500.48	6	252.15	6	12.68	6		6		6		6		6	
1/4	1,232.40	1/4	984.82	1/4	739.38	1/4	495.31	1/4	246.97	1/4	10.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,227.24	1/2	979.66	1/2	734.38	1/2	490.13	1/2	241.80	1/2	7.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,222.08	3/4	974.50	3/4	729.38	3/4	484.96	3/4	236.63	3/4	6.65	3/4		3/4		3/4		3/4		3/4	
7	1,216.92	7	969.35	7	724.38	7	479.78	7	231.45	7	5.79	7		7		7		7		7	
1/4	1,211.77	1/4	964.19	1/4	719.38	1/4	474.61	1/4	226.28	1/4	4.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,206.61	1/2	959.03	1/2	714.37	1/2	469.44	1/2	221.10	1/2	4.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,201.45	3/4	953.87	3/4	709.37	3/4	464.26	3/4	215.93	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,196.29	8	948.71	8	704.37	8	459.09	8	210.76	8		8		8		8		8		8	
1/4	1,191.14	1/4	943.56	1/4	699.37	1/4	453.92	1/4	205.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,185.98	1/2	938.40	1/2	694.37	1/2	448.74	1/2	200.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,180.82	3/4	933.24	3/4	689.36	3/4	443.57	3/4	195.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,175.66	9	928.08	9	684.36	9	438.40	9	190.06	9		9		9		9		9		9	
1/4	1,170.50	1/4	922.92	1/4	679.36	1/4	433.22	1/4	184.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,165.35	1/2	917.77	1/2	674.36	1/2	428.05	1/2	179.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,160.19	3/4	912.61	3/4	669.36	3/4	422.88	3/4	174.54	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,155.03	10	907.45	10	664.35	10	417.70	10	169.37	10		10		10		10		10		10	
1/4	1,149.87	1/4	902.29	1/4	659.35	1/4	412.53	1/4	164.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,144.71	1/2	897.13	1/2	654.35	1/2	407.35	1/2	159.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,139.56	3/4	891.98	3/4	649.34	3/4	402.18	3/4	153.85	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,134.40	11	886.82	11	644.32	11	397.01	11	148.67	11		11		11		11		11		11	
1/4	1,129.24	1/4	881.66	1/4	639.31	1/4	391.83	1/4	143.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,124.08	1/2	876.50	1/2	634.30	1/2	386.66	1/2	138.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,118.92	3/4	871.35	3/4	629.28	3/4	381.49	3/4	133.15	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/05/2019 CL
PRINTED: 12/05/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "FMT 1416"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	3,732.00	0	3,456.78	0	3,181.55	0	2,906.33	0	2,631.11	0	2,355.89	0	2,080.66	0	1,805.44
1/4		1/4		1/4	3,726.26	1/4	3,451.04	1/4	3,175.82	1/4	2,900.60	1/4	2,625.38	1/4	2,350.15	1/4	2,074.93	1/4	1,799.71
1/2		1/2	3,961.09	1/2	3,720.53	1/2	3,445.31	1/2	3,170.09	1/2	2,894.86	1/2	2,619.64	1/2	2,344.42	1/2	2,069.20	1/2	1,793.97
3/4		3/4	3,960.14	3/4	3,714.80	3/4	3,439.57	3/4	3,164.35	3/4	2,889.13	3/4	2,613.91	3/4	2,338.69	3/4	2,063.46	3/4	1,788.24
1		1	3,959.18	1	3,709.06	1	3,433.84	1	3,158.62	1	2,883.40	1	2,608.17	1	2,332.95	1	2,057.73	1	1,782.51
1/4		1/4	3,958.23	1/4	3,703.33	1/4	3,428.11	1/4	3,152.88	1/4	2,877.66	1/4	2,602.44	1/4	2,327.22	1/4	2,052.00	1/4	1,776.77
1/2		1/2	3,957.27	1/2	3,697.60	1/2	3,422.37	1/2	3,147.15	1/2	2,871.93	1/2	2,596.71	1/2	2,321.48	1/2	2,046.26	1/2	1,771.04
3/4		3/4	3,954.41	3/4	3,691.86	3/4	3,416.64	3/4	3,141.42	3/4	2,866.19	3/4	2,590.97	3/4	2,315.75	3/4	2,040.53	3/4	1,765.31
2		2	3,951.54	2	3,686.13	2	3,410.91	2	3,135.68	2	2,860.46	2	2,585.24	2	2,310.02	2	2,034.79	2	1,759.57
1/4		1/4	3,948.67	1/4	3,680.39	1/4	3,405.17	1/4	3,129.95	1/4	2,854.73	1/4	2,579.50	1/4	2,304.28	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	2,848.99	1/2	2,573.77	1/2	2,298.55	1/2	2,023.33	1/2	1,748.10
3/4		3/4	3,941.03	3/4	3,668.93	3/4	3,393.70	3/4	3,118.48	3/4	2,843.26	3/4	2,568.04	3/4	2,292.81	3/4	2,017.59	3/4	1,742.37
3		3	3,936.26	3	3,663.19	3	3,387.97	3	3,112.75	3	2,837.53	3	2,562.30	3	2,287.08	3	2,011.86	3	1,736.64
1/4		1/4	3,931.48	1/4	3,657.46	1/4	3,382.24	1/4	3,107.01	1/4	2,831.79	1/4	2,556.57	1/4	2,281.35	1/4	2,006.12	1/4	1,730.90
1/2		1/2	3,926.71	1/2	3,651.73	1/2	3,376.50	1/2	3,101.28	1/2	2,826.06	1/2	2,550.84	1/2	2,275.61	1/2	2,000.39	1/2	1,725.17
3/4		3/4	3,921.02	3/4	3,645.99	3/4	3,370.77	3/4	3,095.55	3/4	2,820.32	3/4	2,545.10	3/4	2,269.88	3/4	1,994.66	3/4	1,719.43
4		4	3,915.34	4	3,640.26	4	3,365.04	4	3,089.81	4	2,814.59	4	2,539.37	4	2,264.15	4	1,988.92	4	1,713.70
1/4		1/4	3,909.65	1/4	3,634.52	1/4	3,359.30	1/4	3,084.08	1/4	2,808.86	1/4	2,533.63	1/4	2,258.41	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	2,803.12	1/2	2,527.90	1/2	2,252.68	1/2	1,977.46	1/2	1,702.23
3/4		3/4	3,898.25	3/4	3,623.06	3/4	3,347.83	3/4	3,072.61	3/4	2,797.39	3/4	2,522.17	3/4	2,246.94	3/4	1,971.72	3/4	1,696.50
5		5	3,892.53	5	3,617.32	5	3,342.10	5	3,066.88	5	2,791.66	5	2,516.43	5	2,241.21	5	1,965.99	5	1,690.77
1/4		1/4	3,886.81	1/4	3,611.59	1/4	3,336.37	1/4	3,061.14	1/4	2,785.92	1/4	2,510.70	1/4	2,235.48	1/4	1,960.25	1/4	1,685.03
1/2		1/2	3,881.09	1/2	3,605.85	1/2	3,330.63	1/2	3,055.41	1/2	2,780.19	1/2	2,504.97	1/2	2,229.74	1/2	1,954.52	1/2	1,679.30
3/4		3/4	3,875.35	3/4	3,600.12	3/4	3,324.90	3/4	3,049.68	3/4	2,774.45	3/4	2,499.23	3/4	2,224.01	3/4	1,948.79	3/4	1,673.56
6		6	3,869.62	6	3,594.39	6	3,319.16	6	3,043.94	6	2,768.72	6	2,493.50	6	2,218.28	6	1,943.05	6	1,667.83
1/4		1/4	3,863.88	1/4	3,588.65	1/4	3,313.43	1/4	3,038.21	1/4	2,762.99	1/4	2,487.76	1/4	2,212.54	1/4	1,937.32	1/4	1,662.10
1/2		1/2	3,858.14	1/2	3,582.92	1/2	3,307.70	1/2	3,032.47	1/2	2,757.25	1/2	2,482.03	1/2	2,206.81	1/2	1,931.59	1/2	1,656.36
3/4		3/4	3,852.41	3/4	3,577.19	3/4	3,301.96	3/4	3,026.74	3/4	2,751.52	3/4	2,476.30	3/4	2,201.07	3/4	1,925.85	3/4	1,650.63
7		7	3,846.67	7	3,571.45	7	3,296.23	7	3,021.01	7	2,745.78	7	2,470.56	7	2,195.34	7	1,920.12	7	1,644.90
1/4		1/4	3,840.94	1/4	3,565.72	1/4	3,290.50	1/4	3,015.27	1/4	2,740.05	1/4	2,464.83	1/4	2,189.61	1/4	1,914.38	1/4	1,639.16
1/2		1/2	3,835.21	1/2	3,559.98	1/2	3,284.76	1/2	3,009.54	1/2	2,734.32	1/2	2,459.09	1/2	2,183.87	1/2	1,908.65	1/2	1,633.43
3/4		3/4	3,829.47	3/4	3,554.25	3/4	3,279.03	3/4	3,003.81	3/4	2,728.58	3/4	2,453.36	3/4	2,178.14	3/4	1,902.92	3/4	1,627.69
8		8	3,823.74	8	3,548.52	8	3,273.29	8	2,998.07	8	2,722.85	8	2,447.63	8	2,172.40	8	1,897.18	8	1,621.96
1/4		1/4	3,818.01	1/4	3,542.78	1/4	3,267.56	1/4	2,992.34	1/4	2,717.12	1/4	2,441.89	1/4	2,166.67	1/4	1,891.45	1/4	1,616.23
1/2		1/2	3,812.27	1/2	3,537.05	1/2	3,261.83	1/2	2,986.60	1/2	2,711.38	1/2	2,436.16	1/2	2,160.94	1/2	1,885.71	1/2	1,610.49
3/4		3/4	3,806.54	3/4	3,531.32	3/4	3,256.09	3/4	2,980.87	3/4	2,705.65	3/4	2,430.43	3/4	2,155.20	3/4	1,879.98	3/4	1,604.76
9		9	3,800.80	9	3,525.58	9	3,250.36	9	2,975.14	9	2,699.91	9	2,424.69	9	2,149.47	9	1,874.25	9	1,599.02
1/4		1/4	3,795.07	1/4	3,519.85	1/4	3,244.63	1/4	2,969.40	1/4	2,694.18	1/4	2,418.96	1/4	2,143.74	1/4	1,868.51	1/4	1,593.29
1/2		1/2	3,789.34	1/2	3,514.11	1/2	3,238.89	1/2	2,963.67	1/2	2,688.45	1/2	2,413.22	1/2	2,138.00	1/2	1,862.78	1/2	1,587.56
3/4		3/4	3,783.60	3/4	3,508.38	3/4	3,233.16	3/4	2,957.94	3/4	2,682.71	3/4	2,407.49	3/4	2,132.27	3/4	1,857.05	3/4	1,581.82
10		10	3,777.87	10	3,502.65	10	3,227.42	10	2,952.20	10	2,676.98	10	2,401.76	10	2,126.53	10	1,851.31	10	1,576.09
1/4		1/4	3,772.14	1/4	3,496.91	1/4	3,221.69	1/4	2,946.47	1/4	2,671.25	1/4	2,396.02	1/4	2,120.80	1/4	1,845.58	1/4	1,570.36
1/2		1/2	3,766.40	1/2	3,491.18	1/2	3,215.96	1/2	2,940.73	1/2	2,665.51	1/2	2,390.29	1/2	2,115.07	1/2	1,839.84	1/2	1,564.62
3/4		3/4	3,760.67	3/4	3,485.45	3/4	3,210.22	3/4	2,935.00	3/4	2,659.78	3/4	2,384.56	3/4	2,109.33	3/4	1,834.11	3/4	1,558.89
11		11	3,754.93	11	3,479.71	11	3,204.49	11	2,929.27	11	2,654.04	11	2,378.82	11	2,103.60	11	1,828.38	11	1,553.15
1/4		1/4	3,749.20	1/4	3,473.98	1/4	3,198.76	1/4	2,923.53	1/4	2,648.31	1/4	2,373.09	1/4	2,097.87	1/4	1,822.64	1/4	1,547.42
1/2		1/2	3,743.47	1/2	3,468.24	1/2	3,193.02	1/2	2,917.80	1/2	2,642.58	1/2	2,367.35	1/2	2,092.13	1/2	1,816.91	1/2	1,541.69
3/4		3/4	3,737.73	3/4	3,462.51	3/4	3,187.29	3/4	2,912.07	3/4	2,636.84	3/4	2,361.62	3/4	2,086.40	3/4	1,811.18	3/4	1,535.95

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "FMT 1416"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,530.22	0	1,255.00	0	979.77	0	710.40	0	436.20	0	160.99	0		0		0		0	
1/4	1,524.49	1/4	1,249.26	1/4	974.04	1/4	704.84	1/4	430.47	1/4	155.25	1/4		1/4		1/4		1/4	
1/2	1,518.75	1/2	1,243.53	1/2	968.31	1/2	699.28	1/2	424.73	1/2	149.52	1/2		1/2		1/2		1/2	
3/4	1,513.02	3/4	1,237.80	3/4	962.57	3/4	693.71	3/4	419.00	3/4	143.79	3/4		3/4		3/4		3/4	
1	1,507.28	1	1,232.06	1	956.84	1	688.14	1	413.27	1	138.05	1		1		1		1	
1/4	1,501.55	1/4	1,226.33	1/4	951.11	1/4	682.58	1/4	407.53	1/4	132.32	1/4		1/4		1/4		1/4	
1/2	1,495.82	1/2	1,220.59	1/2	945.37	1/2	677.01	1/2	401.80	1/2	126.59	1/2		1/2		1/2		1/2	
3/4	1,490.08	3/4	1,214.86	3/4	939.64	3/4	671.28	3/4	396.06	3/4	120.85	3/4		3/4		3/4		3/4	
2	1,484.35	2	1,209.13	2	933.90	2	665.54	2	390.33	2	115.12	2		2		2		2	
1/4	1,478.62	1/4	1,203.39	1/4	928.17	1/4	659.81	1/4	384.60	1/4	109.38	1/4		1/4		1/4		1/4	
1/2	1,472.88	1/2	1,197.66	1/2	922.44	1/2	654.08	1/2	378.86	1/2	103.65	1/2		1/2		1/2		1/2	
3/4	1,467.15	3/4	1,191.93	3/4	916.70	3/4	648.34	3/4	373.13	3/4	97.92	3/4		3/4		3/4		3/4	
3	1,461.41	3	1,186.19	3	910.97	3	642.61	3	367.40	3	92.19	3		3		3		3	
1/4	1,455.68	1/4	1,180.46	1/4	905.24	1/4	636.88	1/4	361.66	1/4	86.46	1/4		1/4		1/4		1/4	
1/2	1,449.95	1/2	1,174.72	1/2	899.50	1/2	631.14	1/2	355.93	1/2	80.72	1/2		1/2		1/2		1/2	
3/4	1,444.21	3/4	1,168.99	3/4	893.94	3/4	625.41	3/4	350.20	3/4	75.00	3/4		3/4		3/4		3/4	
4	1,438.48	4	1,163.26	4	888.37	4	619.67	4	344.46	4	69.28	4		4		4		4	
1/4	1,432.74	1/4	1,157.52	1/4	882.80	1/4	613.94	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	332.99	1/2	57.85	1/2		1/2		1/2		1/2	
3/4	1,421.28	3/4	1,146.05	3/4	871.68	3/4	602.47	3/4	327.26	3/4	52.16	3/4		3/4		3/4		3/4	
5	1,415.54	5	1,140.32	5	866.11	5	596.74	5	321.53	5	46.48	5		5		5		5	
1/4	1,409.81	1/4	1,134.59	1/4	860.55	1/4	591.01	1/4	315.79	1/4	40.80	1/4		1/4		1/4		1/4	
1/2	1,404.08	1/2	1,128.85	1/2	854.99	1/2	585.27	1/2	310.06	1/2	35.11	1/2		1/2		1/2		1/2	
3/4	1,398.34	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	
6	1,392.61	6	1,117.39	6	843.87	6	573.81	6	298.59	6	25.56	6		6		6		6	
1/4	1,386.87	1/4	1,111.65	1/4	838.31	1/4	568.07	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	1,100.18	3/4	827.19	3/4	556.61	3/4	281.39	3/4	13.14	3/4		3/4		3/4		3/4	
7	1,369.67	7	1,094.45	7	821.62	7	550.87	7	275.66	7	10.28	7		7		7		7	
1/4	1,363.94	1/4	1,088.72	1/4	816.06	1/4	545.14	1/4	269.93	1/4	7.41	1/4		1/4		1/4		1/4	
1/2	1,358.21	1/2	1,082.98	1/2	810.50	1/2	539.40	1/2	264.19	1/2	4.54	1/2		1/2		1/2		1/2	
3/4	1,352.47	3/4	1,077.25	3/4	804.94	3/4	533.67	3/4	258.46	3/4	3.59	3/4		3/4		3/4		3/4	
8	1,346.74	8	1,071.52	8	799.38	8	527.94	8	252.72	8	2.64	8		8		8		8	
1/4	1,341.00	1/4	1,065.78	1/4	793.82	1/4	522.20	1/4	246.99	1/4	1.68	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	1,054.31	3/4	782.70	3/4	510.74	3/4	235.52	3/4		3/4		3/4		3/4		3/4	
9	1,323.80	9	1,048.58	9	777.14	9	505.00	9	229.79	9		9		9		9		9	
1/4	1,318.07	1/4	1,042.85	1/4	771.57	1/4	499.27	1/4	224.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,312.33	1/2	1,037.11	1/2	766.01	1/2	493.54	1/2	218.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,306.60	3/4	1,031.38	3/4	760.45	3/4	487.80	3/4	212.59	3/4		3/4		3/4		3/4		3/4	
10	1,300.87	10	1,025.64	10	754.89	10	482.07	10	206.86	10		10		10		10		10	
1/4	1,295.13	1/4	1,019.91	1/4	749.33	1/4	476.33	1/4	201.12	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	470.60	1/2	195.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,283.67	3/4	1,008.44	3/4	738.21	3/4	464.87	3/4	189.65	3/4		3/4		3/4		3/4		3/4	
11	1,277.93	11	1,002.71	11	732.65	11	459.13	11	183.92	11		11		11		11		11	
1/4	1,272.20	1/4	996.98	1/4	727.08	1/4	453.40	1/4	178.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,266.46	1/2	991.24	1/2	721.52	1/2	447.67	1/2	172.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,260.73	3/4	985.51	3/4	715.96	3/4	441.93	3/4	166.72	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/05/2019 CL
PRINTED: 12/05/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
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P.O. Box 2092
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BARGE "FMT 1416"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	3,555.19	0	3,330.95	0	3,084.21	0	2,837.47	0	2,590.73	0	2,343.99	0	2,097.26	0	1,850.52	0	1,603.78
1/4		1/4	3,554.33	1/4	3,325.81	1/4	3,079.07	1/4	2,832.33	1/4	2,585.59	1/4	2,338.85	1/4	2,092.12	1/4	1,845.38	1/4	1,598.64
1/2		1/2	3,553.48	1/2	3,320.67	1/2	3,073.93	1/2	2,827.19	1/2	2,580.45	1/2	2,333.71	1/2	2,086.97	1/2	1,840.24	1/2	1,593.50
3/4		3/4	3,550.91	3/4	3,315.53	3/4	3,068.79	3/4	2,822.05	3/4	2,575.31	3/4	2,328.57	3/4	2,081.83	3/4	1,835.10	3/4	1,588.36
1		1	3,548.34	1	3,310.39	1	3,063.65	1	2,816.91	1	2,570.17	1	2,323.43	1	2,076.69	1	1,829.95	1	1,583.22
1/4		1/4	3,545.77	1/4	3,305.25	1/4	3,058.51	1/4	2,811.77	1/4	2,565.03	1/4	2,318.29	1/4	2,071.55	1/4	1,824.81	1/4	1,578.08
1/2		1/2	3,543.20	1/2	3,300.11	1/2	3,053.37	1/2	2,806.63	1/2	2,559.89	1/2	2,313.15	1/2	2,066.41	1/2	1,819.67	1/2	1,572.93
3/4		3/4	3,538.92	3/4	3,294.97	3/4	3,048.23	3/4	2,801.49	3/4	2,554.75	3/4	2,308.01	3/4	2,061.27	3/4	1,814.53	3/4	1,567.79
2		2	3,534.64	2	3,289.83	2	3,043.09	2	2,796.35	2	2,549.61	2	2,302.87	2	2,056.13	2	1,809.39	2	1,562.65
1/4		1/4	3,530.36	1/4	3,284.69	1/4	3,037.95	1/4	2,791.21	1/4	2,544.47	1/4	2,297.73	1/4	2,050.99	1/4	1,804.25	1/4	1,557.51
1/2		1/2	3,526.08	1/2	3,279.55	1/2	3,032.81	1/2	2,786.07	1/2	2,539.33	1/2	2,292.59	1/2	2,045.85	1/2	1,799.11	1/2	1,552.37
3/4		3/4	3,520.98	3/4	3,274.41	3/4	3,027.67	3/4	2,780.93	3/4	2,534.19	3/4	2,287.45	3/4	2,040.71	3/4	1,793.97	3/4	1,547.23
3		3	3,515.88	3	3,269.27	3	3,022.53	3	2,775.79	3	2,529.05	3	2,282.31	3	2,035.57	3	1,788.83	3	1,542.09
1/4		1/4	3,510.79	1/4	3,264.13	1/4	3,017.39	1/4	2,770.65	1/4	2,523.91	1/4	2,277.17	1/4	2,030.43	1/4	1,783.69	1/4	1,536.95
1/2		1/2	3,505.69	1/2	3,258.99	1/2	3,012.25	1/2	2,765.51	1/2	2,518.77	1/2	2,272.03	1/2	2,025.29	1/2	1,778.55	1/2	1,531.81
3/4		3/4	3,500.56	3/4	3,253.85	3/4	3,007.11	3/4	2,760.37	3/4	2,513.63	3/4	2,266.89	3/4	2,020.15	3/4	1,773.41	3/4	1,526.67
4		4	3,495.44	4	3,248.71	4	3,001.97	4	2,755.23	4	2,508.49	4	2,261.75	4	2,015.01	4	1,768.27	4	1,521.53
1/4		1/4	3,490.31	1/4	3,243.56	1/4	2,996.83	1/4	2,750.09	1/4	2,503.35	1/4	2,256.61	1/4	2,009.87	1/4	1,763.13	1/4	1,516.39
1/2		1/2	3,485.18	1/2	3,238.42	1/2	2,991.69	1/2	2,744.95	1/2	2,498.21	1/2	2,251.47	1/2	2,004.73	1/2	1,757.99	1/2	1,511.25
3/4		3/4	3,480.04	3/4	3,233.28	3/4	2,986.54	3/4	2,739.81	3/4	2,493.07	3/4	2,246.33	3/4	1,999.59	3/4	1,752.85	3/4	1,506.11
5		5	3,474.89	5	3,228.14	5	2,981.40	5	2,734.67	5	2,487.93	5	2,241.19	5	1,994.45	5	1,747.71	5	1,500.97
1/4		1/4	3,469.75	1/4	3,223.00	1/4	2,976.26	1/4	2,729.52	1/4	2,482.79	1/4	2,236.05	1/4	1,989.31	1/4	1,742.57	1/4	1,495.83
1/2		1/2	3,464.60	1/2	3,217.86	1/2	2,971.12	1/2	2,724.38	1/2	2,477.65	1/2	2,230.91	1/2	1,984.17	1/2	1,737.43	1/2	1,490.69
3/4		3/4	3,459.46	3/4	3,212.72	3/4	2,965.98	3/4	2,719.24	3/4	2,472.50	3/4	2,225.77	3/4	1,979.03	3/4	1,732.29	3/4	1,485.55
6		6	3,454.32	6	3,207.58	6	2,960.84	6	2,714.10	6	2,467.36	6	2,220.63	6	1,973.89	6	1,727.15	6	1,480.41
1/4		1/4	3,449.18	1/4	3,202.44	1/4	2,955.70	1/4	2,708.96	1/4	2,462.22	1/4	2,215.48	1/4	1,968.75	1/4	1,722.01	1/4	1,475.27
1/2		1/2	3,444.04	1/2	3,197.30	1/2	2,950.56	1/2	2,703.82	1/2	2,457.08	1/2	2,210.34	1/2	1,963.61	1/2	1,716.87	1/2	1,470.13
3/4		3/4	3,438.90	3/4	3,192.16	3/4	2,945.42	3/4	2,698.68	3/4	2,451.94	3/4	2,205.20	3/4	1,958.46	3/4	1,711.73	3/4	1,464.99
7		7	3,433.76	7	3,187.02	7	2,940.28	7	2,693.54	7	2,446.80	7	2,200.06	7	1,953.32	7	1,706.59	7	1,459.85
1/4		1/4	3,428.62	1/4	3,181.88	1/4	2,935.14	1/4	2,688.40	1/4	2,441.66	1/4	2,194.92	1/4	1,948.18	1/4	1,701.44	1/4	1,454.71
1/2		1/2	3,423.48	1/2	3,176.74	1/2	2,930.00	1/2	2,683.26	1/2	2,436.52	1/2	2,189.78	1/2	1,943.04	1/2	1,696.30	1/2	1,449.57
3/4		3/4	3,418.34	3/4	3,171.60	3/4	2,924.86	3/4	2,678.12	3/4	2,431.38	3/4	2,184.64	3/4	1,937.90	3/4	1,691.16	3/4	1,444.42
8		8	3,413.20	8	3,166.46	8	2,919.72	8	2,672.98	8	2,426.24	8	2,179.50	8	1,932.76	8	1,686.02	8	1,439.28
1/4		1/4	3,408.06	1/4	3,161.32	1/4	2,914.58	1/4	2,667.84	1/4	2,421.10	1/4	2,174.36	1/4	1,927.62	1/4	1,680.88	1/4	1,434.14
1/2		1/2	3,402.92	1/2	3,156.18	1/2	2,909.44	1/2	2,662.70	1/2	2,415.96	1/2	2,169.22	1/2	1,922.48	1/2	1,675.74	1/2	1,429.00
3/4		3/4	3,397.78	3/4	3,151.04	3/4	2,904.30	3/4	2,657.56	3/4	2,410.82	3/4	2,164.08	3/4	1,917.34	3/4	1,670.60	3/4	1,423.86
9		9	3,392.64	9	3,145.90	9	2,899.16	9	2,652.42	9	2,405.68	9	2,158.94	9	1,912.20	9	1,665.46	9	1,418.72
1/4		1/4	3,387.50	1/4	3,140.76	1/4	2,894.02	1/4	2,647.28	1/4	2,400.54	1/4	2,153.80	1/4	1,907.06	1/4	1,660.32	1/4	1,413.58
1/2		1/2	3,382.36	1/2	3,135.62	1/2	2,888.88	1/2	2,642.14	1/2	2,395.40	1/2	2,148.66	1/2	1,901.92	1/2	1,655.18	1/2	1,408.44
3/4		3/4	3,377.22	3/4	3,130.48	3/4	2,883.74	3/4	2,637.00	3/4	2,390.26	3/4	2,143.52	3/4	1,896.78	3/4	1,650.04	3/4	1,403.30
10		10	3,372.07	10	3,125.34	10	2,878.60	10	2,631.86	10	2,385.12	10	2,138.38	10	1,891.64	10	1,644.90	10	1,398.16
1/4		1/4	3,366.93	1/4	3,120.20	1/4	2,873.46	1/4	2,626.72	1/4	2,379.98	1/4	2,133.24	1/4	1,886.50	1/4	1,639.76	1/4	1,393.02
1/2		1/2	3,361.79	1/2	3,115.05	1/2	2,868.32	1/2	2,621.58	1/2	2,374.84	1/2	2,128.10	1/2	1,881.36	1/2	1,634.62	1/2	1,387.88
3/4		3/4	3,356.65	3/4	3,109.91	3/4	2,863.18	3/4	2,616.44	3/4	2,369.70	3/4	2,122.96	3/4	1,876.22	3/4	1,629.48	3/4	1,382.74
11		11	3,351.51	11	3,104.77	11	2,858.03	11	2,611.30	11	2,364.56	11	2,117.82	11	1,871.08	11	1,624.34	11	1,377.60
1/4		1/4	3,346.37	1/4	3,099.63	1/4	2,852.89	1/4	2,606.16	1/4	2,359.42	1/4	2,112.68	1/4	1,865.94	1/4	1,619.20	1/4	1,372.46
1/2		3,556.90	3,341.23	1/2	3,094.49	1/2	2,847.75	1/2	2,601.01	1/2	2,354.28	1/2	2,107.54	1/2	1,860.80	1/2	1,614.06	1/2	1,367.32
3/4		3,556.04	3,336.09	3/4	3,089.35	3/4	2,842.61	3/4	2,595.87	3/4	2,349.14	3/4	2,102.40	3/4	1,855.66	3/4	1,608.92	3/4	1,362.18

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "FMT 1416"

3 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	1,357.04	0	1,110.30	0	863.56	0	617.29	0	370.58	0	123.85	0		0		0		0	
1/4	1,351.90	1/4	1,105.16	1/4	858.42	1/4	612.16	1/4	365.44	1/4	118.71	1/4		1/4		1/4		1/4	
1/2	1,346.76	1/2	1,100.02	1/2	853.28	1/2	607.03	1/2	360.30	1/2	113.57	1/2		1/2		1/2		1/2	
3/4	1,341.62	3/4	1,094.88	3/4	848.14	3/4	601.89	3/4	355.16	3/4	108.43	3/4		3/4		3/4		3/4	
1	1,336.48	1	1,089.74	1	843.00	1	596.75	1	350.02	1	103.29	1		1		1		1	
1/4	1,331.34	1/4	1,084.60	1/4	837.86	1/4	591.61	1/4	344.88	1/4	98.15	1/4		1/4		1/4		1/4	
1/2	1,326.20	1/2	1,079.46	1/2	832.72	1/2	586.47	1/2	339.74	1/2	93.01	1/2		1/2		1/2		1/2	
3/4	1,321.06	3/4	1,074.32	3/4	827.58	3/4	581.33	3/4	334.60	3/4	87.87	3/4		3/4		3/4		3/4	
2	1,315.91	2	1,069.18	2	822.44	2	576.19	2	329.46	2	82.73	2		2		2		2	
1/4	1,310.77	1/4	1,064.04	1/4	817.30	1/4	571.05	1/4	324.32	1/4	77.59	1/4		1/4		1/4		1/4	
1/2	1,305.63	1/2	1,058.89	1/2	812.16	1/2	565.91	1/2	319.18	1/2	72.45	1/2		1/2		1/2		1/2	
3/4	1,300.49	3/4	1,053.75	3/4	807.02	3/4	560.77	3/4	314.04	3/4	67.33	3/4		3/4		3/4		3/4	
3	1,295.35	3	1,048.61	3	801.89	3	555.63	3	308.90	3	62.20	3		3		3		3	
1/4	1,290.21	1/4	1,043.47	1/4	796.76	1/4	550.49	1/4	303.76	1/4	57.07	1/4		1/4		1/4		1/4	
1/2	1,285.07	1/2	1,038.33	1/2	791.63	1/2	545.35	1/2	298.62	1/2	51.94	1/2		1/2		1/2		1/2	
3/4	1,279.93	3/4	1,033.19	3/4	786.50	3/4	540.21	3/4	293.48	3/4	46.85	3/4		3/4		3/4		3/4	
4	1,274.79	4	1,028.05	4	781.38	4	535.07	4	288.34	4	41.75	4		4		4		4	
1/4	1,269.65	1/4	1,022.91	1/4	776.25	1/4	529.92	1/4	283.20	1/4	36.66	1/4		1/4		1/4		1/4	
1/2	1,264.51	1/2	1,017.77	1/2	771.12	1/2	524.78	1/2	278.06	1/2	31.56	1/2		1/2		1/2		1/2	
3/4	1,259.37	3/4	1,012.63	3/4	765.99	3/4	519.64	3/4	272.91	3/4	27.28	3/4		3/4		3/4		3/4	
5	1,254.23	5	1,007.49	5	760.87	5	514.50	5	267.77	5	23.00	5		5		5		5	
1/4	1,249.09	1/4	1,002.35	1/4	755.74	1/4	509.36	1/4	262.63	1/4	18.72	1/4		1/4		1/4		1/4	
1/2	1,243.95	1/2	997.21	1/2	750.61	1/2	504.22	1/2	257.49	1/2	14.44	1/2		1/2		1/2		1/2	
3/4	1,238.81	3/4	992.07	3/4	745.48	3/4	499.08	3/4	252.35	3/4	11.87	3/4		3/4		3/4		3/4	
6	1,233.67	6	986.93	6	740.36	6	493.94	6	247.21	6	9.30	6		6		6		6	
1/4	1,228.53	1/4	981.79	1/4	735.23	1/4	488.80	1/4	242.07	1/4	6.73	1/4		1/4		1/4		1/4	
1/2	1,223.39	1/2	976.65	1/2	730.10	1/2	483.66	1/2	236.93	1/2	4.16	1/2		1/2		1/2		1/2	
3/4	1,218.25	3/4	971.51	3/4	724.98	3/4	478.52	3/4	231.79	3/4	3.30	3/4		3/4		3/4		3/4	
7	1,213.11	7	966.37	7	719.85	7	473.38	7	226.65	7	2.45	7		7		7		7	
1/4	1,207.97	1/4	961.23	1/4	714.72	1/4	468.24	1/4	221.51	1/4	1.59	1/4		1/4		1/4		1/4	
1/2	1,202.83	1/2	956.09	1/2	709.59	1/2	463.10	1/2	216.37	1/2	0.73	1/2		1/2		1/2		1/2	
3/4	1,197.69	3/4	950.95	3/4	704.47	3/4	457.96	3/4	211.23	3/4		3/4		3/4		3/4		3/4	
8	1,192.55	8	945.81	8	699.34	8	452.82	8	206.09	8		8		8		8		8	
1/4	1,187.40	1/4	940.67	1/4	694.21	1/4	447.68	1/4	200.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,182.26	1/2	935.53	1/2	689.09	1/2	442.54	1/2	195.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,177.12	3/4	930.38	3/4	683.96	3/4	437.40	3/4	190.67	3/4		3/4		3/4		3/4		3/4	
9	1,171.98	9	925.24	9	678.83	9	432.26	9	185.53	9		9		9		9		9	
1/4	1,166.84	1/4	920.10	1/4	673.70	1/4	427.12	1/4	180.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,161.70	1/2	914.96	1/2	668.58	1/2	421.98	1/2	175.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,156.56	3/4	909.82	3/4	663.45	3/4	416.84	3/4	170.11	3/4		3/4		3/4		3/4		3/4	
10	1,151.42	10	904.68	10	658.32	10	411.70	10	164.97	10		10		10		10		10	
1/4	1,146.28	1/4	899.54	1/4	653.20	1/4	406.56	1/4	159.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,141.14	1/2	894.40	1/2	648.07	1/2	401.42	1/2	154.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,136.00	3/4	889.26	3/4	642.94	3/4	396.28	3/4	149.55	3/4		3/4		3/4		3/4		3/4	
11	1,130.86	11	884.12	11	637.81	11	391.14	11	144.41	11		11		11		11		11	
1/4	1,125.72	1/4	878.98	1/4	632.69	1/4	386.00	1/4	139.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,120.58	1/2	873.84	1/2	627.56	1/2	380.86	1/2	134.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,115.44	3/4	868.70	3/4	622.43	3/4	375.72	3/4	128.99	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/05/2019 CL
PRINTED: 12/05/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
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