



BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

ULLAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 7'-00"
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

August 5, 2020

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

1 PORT
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,872.49	0	4,531.86	0	4,190.61	0	3,848.06	0	3,505.54	0	3,163.08	0	2,820.58	0	2,478.01
1/4		1/4		1/4	4,865.43	1/4	4,524.76	1/4	4,183.48	1/4	3,840.92	1/4	3,498.41	1/4	3,155.95	1/4	2,813.44	1/4	2,470.88
1/2		1/2		1/2	4,858.37	1/2	4,517.65	1/2	4,176.34	1/2	3,833.79	1/2	3,491.27	1/2	3,148.81	1/2	2,806.30	1/2	2,463.74
3/4		3/4		3/4	4,851.31	3/4	4,510.55	3/4	4,169.20	3/4	3,826.65	3/4	3,484.14	3/4	3,141.68	3/4	2,799.17	3/4	2,456.60
1		1		1	4,844.25	1	4,503.44	1	4,162.07	1	3,819.51	1	3,477.00	1	3,134.55	1	2,792.03	1	2,449.47
1/4		1/4		1/4	4,837.19	1/4	4,496.34	1/4	4,154.93	1/4	3,812.38	1/4	3,469.87	1/4	3,127.41	1/4	2,784.89	1/4	2,442.33
1/2		1/2		1/2	4,830.13	1/2	4,489.24	1/2	4,147.79	1/2	3,805.24	1/2	3,462.73	1/2	3,120.28	1/2	2,777.76	1/2	2,435.19
3/4		3/4		3/4	4,823.07	3/4	4,482.13	3/4	4,140.66	3/4	3,798.10	3/4	3,455.60	3/4	3,113.14	3/4	2,770.62	3/4	2,428.06
2		2		2	4,816.02	2	4,475.03	2	4,133.52	2	3,790.97	2	3,448.46	2	3,106.01	2	2,763.48	2	2,420.92
1/4		1/4		1/4	4,808.91	1/4	4,467.92	1/4	4,126.38	1/4	3,783.83	1/4	3,441.33	1/4	3,098.87	1/4	2,756.35	1/4	2,413.78
1/2		1/2		1/2	4,801.81	1/2	4,460.82	1/2	4,119.25	1/2	3,776.69	1/2	3,434.19	1/2	3,091.74	1/2	2,749.21	1/2	2,406.65
3/4		3/4		3/4	4,794.70	3/4	4,453.72	3/4	4,112.11	3/4	3,769.56	3/4	3,427.06	3/4	3,084.60	3/4	2,742.07	3/4	2,399.51
3		3		3	4,787.60	3	4,446.61	3	4,104.97	3	3,762.42	3	3,419.93	3	3,077.47	3	2,734.94	3	2,392.37
1/4		1/4		1/4	4,780.50	1/4	4,439.51	1/4	4,097.84	1/4	3,755.29	1/4	3,412.79	1/4	3,070.34	1/4	2,727.80	1/4	2,385.23
1/2		1/2		1/2	4,773.39	1/2	4,432.41	1/2	4,090.70	1/2	3,748.15	1/2	3,405.66	1/2	3,063.20	1/2	2,720.66	1/2	2,378.10
3/4		3/4		3/4	4,766.29	3/4	4,425.30	3/4	4,083.56	3/4	3,741.01	3/4	3,398.52	3/4	3,056.07	3/4	2,713.53	3/4	2,370.96
4		4		4	4,759.18	4	4,418.20	4	4,076.43	4	3,733.88	4	3,391.39	4	3,048.93	4	2,706.39	4	2,363.82
1/4		1/4		1/4	4,752.08	1/4	4,411.09	1/4	4,069.29	1/4	3,726.74	1/4	3,384.25	1/4	3,041.80	1/4	2,699.25	1/4	2,356.69
1/2		1/2		1/2	4,744.98	1/2	4,403.99	1/2	4,062.15	1/2	3,719.60	1/2	3,377.12	1/2	3,034.66	1/2	2,692.12	1/2	2,349.55
3/4		3/4		3/4	4,737.87	3/4	4,396.89	3/4	4,055.02	3/4	3,712.47	3/4	3,369.98	3/4	3,027.53	3/4	2,684.98	3/4	2,342.41
5		5		5	4,730.77	5	4,389.78	5	4,047.88	5	3,705.33	5	3,362.85	5	3,020.39	5	2,677.85	5	2,335.28
1/4		1/4		1/4	4,723.66	1/4	4,382.68	1/4	4,040.75	1/4	3,698.19	1/4	3,355.72	1/4	3,013.26	1/4	2,670.71	1/4	2,328.14
1/2		1/2		1/2	4,716.56	1/2	4,375.57	1/2	4,033.61	1/2	3,691.06	1/2	3,348.58	1/2	3,006.12	1/2	2,663.57	1/2	2,321.00
3/4		3/4		3/4	4,709.46	3/4	4,368.47	3/4	4,026.47	3/4	3,683.92	3/4	3,341.45	3/4	2,998.99	3/4	2,656.44	3/4	2,313.87
6		6	5,016.59	6	4,702.35	6	4,361.37	6	4,019.34	6	3,676.78	6	3,334.31	6	2,991.86	6	2,649.30	6	2,306.73
1/4		1/4	5,012.80	1/4	4,695.25	1/4	4,354.26	1/4	4,012.20	1/4	3,669.65	1/4	3,327.18	1/4	2,984.72	1/4	2,642.16	1/4	2,299.59
1/2		1/2	5,009.01	1/2	4,688.15	1/2	4,347.16	1/2	4,005.06	1/2	3,662.51	1/2	3,320.04	1/2	2,977.58	1/2	2,635.03	1/2	2,292.46
3/4		3/4	5,005.23	3/4	4,681.04	3/4	4,340.05	3/4	3,997.93	3/4	3,655.37	3/4	3,312.91	3/4	2,970.45	3/4	2,627.89	3/4	2,285.32
7		7	5,001.44	7	4,673.94	7	4,332.95	7	3,990.79	7	3,648.24	7	3,305.77	7	2,963.31	7	2,620.75	7	2,278.18
1/4		1/4	4,996.46	1/4	4,666.83	1/4	4,325.85	1/4	3,983.65	1/4	3,641.10	1/4	3,298.64	1/4	2,956.17	1/4	2,613.62	1/4	2,271.04
1/2		1/2	4,991.48	1/2	4,659.73	1/2	4,318.74	1/2	3,976.52	1/2	3,633.96	1/2	3,291.50	1/2	2,949.04	1/2	2,606.48	1/2	2,263.91
3/4		3/4	4,986.51	3/4	4,652.63	3/4	4,311.64	3/4	3,969.38	3/4	3,626.83	3/4	3,284.37	3/4	2,941.90	3/4	2,599.34	3/4	2,256.77
8		8	4,981.53	8	4,645.52	8	4,304.53	8	3,962.24	8	3,619.69	8	3,277.24	8	2,934.76	8	2,592.20	8	2,249.63
1/4		1/4	4,975.36	1/4	4,638.42	1/4	4,297.43	1/4	3,955.11	1/4	3,612.56	1/4	3,270.10	1/4	2,927.63	1/4	2,585.07	1/4	2,242.50
1/2		1/2	4,969.20	1/2	4,631.31	1/2	4,290.33	1/2	3,947.97	1/2	3,605.42	1/2	3,262.97	1/2	2,920.49	1/2	2,577.93	1/2	2,235.36
3/4		3/4	4,963.03	3/4	4,624.21	3/4	4,283.22	3/4	3,940.83	3/4	3,598.29	3/4	3,255.83	3/4	2,913.35	3/4	2,570.79	3/4	2,228.22
9		9	4,956.86	9	4,617.11	9	4,276.12	9	3,933.70	9	3,591.15	9	3,248.70	9	2,906.22	9	2,563.66	9	2,221.09
1/4		1/4	4,949.87	1/4	4,610.00	1/4	4,269.02	1/4	3,926.56	1/4	3,584.02	1/4	3,241.56	1/4	2,899.08	1/4	2,556.52	1/4	2,213.95
1/2		1/2	4,942.88	1/2	4,602.90	1/2	4,261.91	1/2	3,919.42	1/2	3,576.88	1/2	3,234.43	1/2	2,891.94	1/2	2,549.38	1/2	2,206.81
3/4		3/4	4,935.89	3/4	4,595.79	3/4	4,254.81	3/4	3,912.29	3/4	3,569.75	3/4	3,227.29	3/4	2,884.81	3/4	2,542.25	3/4	2,199.68
10		10	4,928.90	10	4,588.69	10	4,247.70	10	3,905.15	10	3,562.62	10	3,220.16	10	2,877.67	10	2,535.11	10	2,192.54
1/4		1/4	4,921.86	1/4	4,581.59	1/4	4,240.57	1/4	3,898.02	1/4	3,555.48	1/4	3,213.03	1/4	2,870.53	1/4	2,527.97	1/4	2,185.40
1/2		1/2	4,914.81	1/2	4,574.48	1/2	4,233.43	1/2	3,890.88	1/2	3,548.35	1/2	3,205.89	1/2	2,863.40	1/2	2,520.84	1/2	2,178.26
3/4		3/4	4,907.77	3/4	4,567.38	3/4	4,226.29	3/4	3,883.74	3/4	3,541.21	3/4	3,198.76	3/4	2,856.26	3/4	2,513.70	3/4	2,171.13
11		11	4,900.72	11	4,560.28	11	4,219.16	11	3,876.61	11	3,534.08	11	3,191.62	11	2,849.12	11	2,506.56	11	2,163.99
1/4		1/4	4,893.66	1/4	4,553.17	1/4	4,212.02	1/4	3,869.47	1/4	3,526.94	1/4	3,184.49	1/4	2,841.99	1/4	2,499.43	1/4	2,156.85
1/2		1/2	4,886.60	1/2	4,546.07	1/2	4,204.88	1/2	3,862.33	1/2	3,519.81	1/2	3,177.35	1/2	2,834.85	1/2	2,492.29	1/2	2,149.72
3/4		3/4	4,879.55	3/4	4,538.96	3/4	4,197.75	3/4	3,855.20	3/4	3,512.67	3/4	3,170.22	3/4	2,827.71	3/4	2,485.15	3/4	2,142.58

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" 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 "HSM 3316"
formerly the
BARGE "FMT 3316"

1 PORT
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,135.44	0	1,792.87	0	1,450.30	0	1,107.73	0	767.65	0	425.93	0	115.39	0		0			
1/4	2,128.31	1/4	1,785.74	1/4	1,443.16	1/4	1,100.59	1/4	760.54	1/4	419.00	1/4	109.46	1/4	1/4				
1/2	2,121.17	1/2	1,778.60	1/2	1,436.03	1/2	1,093.46	1/2	753.44	1/2	412.07	1/2	103.53	1/2	1/2				
3/4	2,114.03	3/4	1,771.46	3/4	1,428.89	3/4	1,086.32	3/4	746.34	3/4	405.14	3/4	97.61	3/4	3/4				
1	2,106.90	1	1,764.32	1	1,421.75	1	1,079.18	1	739.23	1	398.22	1	91.68	1	1				
1/4	2,099.76	1/4	1,757.19	1/4	1,414.62	1/4	1,072.08	1/4	732.10	1/4	391.37	1/4	85.85	1/4	1/4				
1/2	2,092.62	1/2	1,750.05	1/2	1,407.48	1/2	1,064.98	1/2	724.96	1/2	384.53	1/2	80.01	1/2	1/2				
3/4	2,085.48	3/4	1,742.91	3/4	1,400.34	3/4	1,057.87	3/4	717.82	3/4	377.68	3/4	74.18	3/4	3/4				
2	2,078.35	2	1,735.78	2	1,393.21	2	1,050.77	2	710.69	2	370.84	2	68.35	2	2				
1/4	2,071.21	1/4	1,728.64	1/4	1,386.07	1/4	1,043.69	1/4	703.55	1/4	364.07	1/4	62.62	1/4	1/4				
1/2	2,064.07	1/2	1,721.50	1/2	1,378.93	1/2	1,036.60	1/2	696.41	1/2	357.31	1/2	56.90	1/2	1/2				
3/4	2,056.94	3/4	1,714.37	3/4	1,371.79	3/4	1,029.52	3/4	689.28	3/4	350.55	3/4	51.17	3/4	3/4				
3	2,049.80	3	1,707.23	3	1,364.66	3	1,022.43	3	682.14	3	343.79	3	45.45	3	3				
1/4	2,042.66	1/4	1,700.09	1/4	1,357.52	1/4	1,015.35	1/4	675.00	1/4	337.11	1/4	40.66	1/4	1/4				
1/2	2,035.53	1/2	1,692.96	1/2	1,350.38	1/2	1,008.28	1/2	667.87	1/2	330.43	1/2	35.88	1/2	1/2				
3/4	2,028.39	3/4	1,685.82	3/4	1,343.25	3/4	1,001.20	3/4	660.73	3/4	323.76	3/4	31.10	3/4	3/4				
4	2,021.25	4	1,678.68	4	1,336.11	4	994.13	4	653.59	4	317.08	4	26.31	4	4				
1/4	2,014.12	1/4	1,671.54	1/4	1,328.97	1/4	987.05	1/4	646.46	1/4	310.48	1/4	23.40	1/4	1/4				
1/2	2,006.98	1/2	1,664.41	1/2	1,321.84	1/2	979.97	1/2	639.32	1/2	303.89	1/2	20.48	1/2	1/2				
3/4	1,999.84	3/4	1,657.27	3/4	1,314.70	3/4	972.90	3/4	632.18	3/4	297.29	3/4	17.56	3/4	3/4				
5	1,992.71	5	1,650.13	5	1,307.56	5	965.82	5	625.05	5	290.70	5	14.64	5	5				
1/4	1,985.57	1/4	1,643.00	1/4	1,300.43	1/4	958.74	1/4	617.91	1/4	284.19	1/4		1/4	1/4				
1/2	1,978.43	1/2	1,635.86	1/2	1,293.29	1/2	951.67	1/2	610.77	1/2	277.68	1/2		1/2	1/2				
3/4	1,971.29	3/4	1,628.72	3/4	1,286.15	3/4	944.59	3/4	603.64	3/4	271.16	3/4		3/4	3/4				
6	1,964.16	6	1,621.59	6	1,279.02	6	937.51	6	596.50	6	264.65	6		6	6				
1/4	1,957.02	1/4	1,614.45	1/4	1,271.88	1/4	930.44	1/4	589.36	1/4	258.23	1/4		1/4	1/4				
1/2	1,949.88	1/2	1,607.31	1/2	1,264.74	1/2	923.36	1/2	582.23	1/2	251.80	1/2		1/2	1/2				
3/4	1,942.75	3/4	1,600.18	3/4	1,257.60	3/4	916.28	3/4	575.09	3/4	245.37	3/4		3/4	3/4				
7	1,935.61	7	1,593.04	7	1,250.47	7	909.21	7	567.95	7	238.94	7		7	7				
1/4	1,928.47	1/4	1,585.90	1/4	1,243.33	1/4	902.13	1/4	560.82	1/4	232.60	1/4		1/4	1/4				
1/2	1,921.34	1/2	1,578.77	1/2	1,236.19	1/2	895.05	1/2	553.68	1/2	226.25	1/2		1/2	1/2				
3/4	1,914.20	3/4	1,571.63	3/4	1,229.06	3/4	887.98	3/4	546.54	3/4	219.91	3/4		3/4	3/4				
8	1,907.06	8	1,564.49	8	1,221.92	8	880.90	8	539.41	8	213.56	8		8	8				
1/4	1,899.93	1/4	1,557.35	1/4	1,214.78	1/4	873.82	1/4	532.27	1/4	207.30	1/4		1/4	1/4				
1/2	1,892.79	1/2	1,550.22	1/2	1,207.65	1/2	866.75	1/2	525.13	1/2	201.04	1/2		1/2	1/2				
3/4	1,885.65	3/4	1,543.08	3/4	1,200.51	3/4	859.67	3/4	518.00	3/4	194.78	3/4		3/4	3/4				
9	1,878.51	9	1,535.94	9	1,193.37	9	852.60	9	510.86	9	188.52	9		9	9				
1/4	1,871.38	1/4	1,528.81	1/4	1,186.24	1/4	845.52	1/4	503.73	1/4	182.34	1/4		1/4	1/4				
1/2	1,864.24	1/2	1,521.67	1/2	1,179.10	1/2	838.44	1/2	496.59	1/2	176.16	1/2		1/2	1/2				
3/4	1,857.10	3/4	1,514.53	3/4	1,171.96	3/4	831.37	3/4	489.45	3/4	169.99	3/4		3/4	3/4				
10	1,849.97	10	1,507.40	10	1,164.82	10	824.29	10	482.32	10	163.81	10		10	10				
1/4	1,842.83	1/4	1,500.26	1/4	1,157.69	1/4	817.21	1/4	475.23	1/4	157.71	1/4		1/4	1/4				
1/2	1,835.69	1/2	1,493.12	1/2	1,150.55	1/2	810.14	1/2	468.14	1/2	151.62	1/2		1/2	1/2				
3/4	1,828.56	3/4	1,485.99	3/4	1,143.41	3/4	803.06	3/4	461.05	3/4	145.52	3/4		3/4	3/4				
11	1,821.42	11	1,478.85	11	1,136.28	11	795.98	11	453.96	11	139.43	11		11	11				
1/4	1,814.28	1/4	1,471.71	1/4	1,129.14	1/4	788.90	1/4	446.95	1/4	133.42	1/4		1/4	1/4				
1/2	1,807.15	1/2	1,464.57	1/2	1,122.00	1/2	781.82	1/2	439.94	1/2	127.41	1/2		1/2	1/2				
3/4	1,800.01	3/4	1,457.44	3/4	1,114.87	3/4	774.73	3/4	432.94	3/4	121.40	3/4		3/4	3/4				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"
 formerly the
BARGE "FMT 3316"

1 STBD
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
					4,872.65		4,531.10		4,188.95		3,845.55		3,502.19		3,158.89		2,815.54		2,472.14
1/4		1/4		1/4	4,865.58	1/4	4,523.98	1/4	4,181.79	1/4	3,838.40	1/4	3,495.04	1/4	3,151.74	1/4	2,808.38	1/4	2,464.98
1/2		1/2		1/2	4,858.50	1/2	4,516.85	1/2	4,174.64	1/2	3,831.24	1/2	3,487.89	1/2	3,144.58	1/2	2,801.23	1/2	2,457.83
3/4		3/4		3/4	4,851.42	3/4	4,509.73	3/4	4,167.48	3/4	3,824.09	3/4	3,480.73	3/4	3,137.43	3/4	2,794.08	3/4	2,450.67
1	1	1	1	1	4,844.35	1	4,502.61	1	4,160.33	1	3,816.93	1	3,473.58	1	3,130.28	1	2,786.92	1	2,443.52
1/4		1/4		1/4	4,837.27	1/4	4,495.49	1/4	4,153.18	1/4	3,809.78	1/4	3,466.43	1/4	3,123.13	1/4	2,779.77	1/4	2,436.36
1/2		1/2		1/2	4,830.19	1/2	4,488.37	1/2	4,146.02	1/2	3,802.63	1/2	3,459.28	1/2	3,115.98	1/2	2,772.61	1/2	2,429.21
3/4		3/4		3/4	4,823.07	3/4	4,481.25	3/4	4,138.87	3/4	3,795.47	3/4	3,452.12	3/4	3,108.82	3/4	2,765.46	3/4	2,422.05
2	2	2	2	2	4,815.95	2	4,474.13	2	4,131.71	2	3,788.32	2	3,444.97	2	3,101.67	2	2,758.31	2	2,414.90
1/4		1/4		1/4	4,808.83	1/4	4,467.01	1/4	4,124.56	1/4	3,781.16	1/4	3,437.82	1/4	3,094.52	1/4	2,751.15	1/4	2,407.74
1/2		1/2		1/2	4,801.71	1/2	4,459.88	1/2	4,117.41	1/2	3,774.01	1/2	3,430.67	1/2	3,087.37	1/2	2,744.00	1/2	2,400.59
3/4		3/4		3/4	4,794.59	3/4	4,452.76	3/4	4,110.25	3/4	3,766.86	3/4	3,423.52	3/4	3,080.22	3/4	2,736.84	3/4	2,393.44
3	3	3	3	3	4,787.46	3	4,445.64	3	4,103.10	3	3,759.70	3	3,416.36	3	3,073.06	3	2,729.69	3	2,386.28
1/4		1/4		1/4	4,780.34	1/4	4,438.52	1/4	4,095.94	1/4	3,752.55	1/4	3,409.21	1/4	3,065.91	1/4	2,722.54	1/4	2,379.13
1/2		1/2		1/2	4,773.22	1/2	4,431.40	1/2	4,088.79	1/2	3,745.39	1/2	3,402.06	1/2	3,058.76	1/2	2,715.38	1/2	2,371.97
3/4		3/4		3/4	4,766.10	3/4	4,424.28	3/4	4,081.64	3/4	3,738.24	3/4	3,394.91	3/4	3,051.61	3/4	2,708.23	3/4	2,364.82
4	4	4	4	4	4,758.98	4	4,417.16	4	4,074.48	4	3,731.08	4	3,387.76	4	3,044.46	4	2,701.07	4	2,357.66
1/4		1/4		1/4	4,751.86	1/4	4,410.04	1/4	4,067.33	1/4	3,723.93	1/4	3,380.60	1/4	3,037.30	1/4	2,693.92	1/4	2,350.51
1/2		1/2		1/2	4,744.74	1/2	4,402.91	1/2	4,060.17	1/2	3,716.78	1/2	3,373.45	1/2	3,030.15	1/2	2,686.77	1/2	2,343.35
3/4		3/4		3/4	4,737.62	3/4	4,395.79	3/4	4,053.02	3/4	3,709.62	3/4	3,366.30	3/4	3,023.00	3/4	2,679.61	3/4	2,336.20
5	5	5	5	5	4,730.49	5	4,388.67	5	4,045.87	5	3,702.47	5	3,359.15	5	3,015.85	5	2,672.46	5	2,329.05
1/4		1/4		1/4	4,723.37	1/4	4,381.55	1/4	4,038.71	1/4	3,695.31	1/4	3,352.00	1/4	3,008.69	1/4	2,665.30	1/4	2,321.89
1/2		1/2		1/2	5,031.26	1/2	4,716.25	1/2	4,374.43	1/2	4,031.56	1/2	3,688.16	1/2	3,344.84	1/2	2,658.15	1/2	2,314.74
3/4		3/4		3/4	5,027.46	3/4	4,709.13	3/4	4,367.31	3/4	4,024.40	3/4	3,681.01	3/4	3,337.69	3/4	2,994.39	3/4	2,651.00
6	6	6	6	6	4,702.01	6	4,360.19	6	4,017.25	6	3,673.85	6	3,330.54	6	2,987.23	6	2,643.84	6	2,300.43
1/4		1/4		1/4	5,019.87	1/4	4,694.89	1/4	4,353.06	1/4	4,010.09	1/4	3,323.39	1/4	2,980.08	1/4	2,636.69	1/4	2,293.27
1/2		1/2		1/2	5,016.07	1/2	4,687.77	1/2	4,345.94	1/2	4,002.94	1/2	3,659.54	1/2	3,316.23	1/2	2,972.93	1/2	2,629.53
3/4		3/4		3/4	5,011.08	3/4	4,680.64	3/4	4,338.82	3/4	3,995.79	3/4	3,652.39	3/4	3,309.08	3/4	2,965.77	3/4	2,622.38
7	7	7	7	7	4,673.52	7	4,331.70	7	3,988.63	7	3,645.24	7	3,301.93	7	2,958.62	7	2,615.23	7	2,271.81
1/4		1/4		1/4	5,001.10	1/4	4,666.40	1/4	4,324.58	1/4	3,981.48	1/4	3,638.08	1/4	3,294.78	1/4	2,951.46	1/4	2,608.07
1/2		1/2		1/2	4,996.11	1/2	4,659.28	1/2	4,317.46	1/2	3,974.32	1/2	3,630.93	1/2	3,287.63	1/2	2,944.31	1/2	2,600.92
3/4		3/4		3/4	4,989.93	3/4	4,652.16	3/4	4,310.34	3/4	3,967.17	3/4	3,623.78	3/4	3,280.47	3/4	2,937.16	3/4	2,593.76
8	8	8	8	8	4,983.75	8	4,645.04	8	4,303.22	8	3,960.02	8	3,616.62	8	3,273.32	8	2,930.00	8	2,586.61
1/4		1/4		1/4	4,977.57	1/4	4,637.92	1/4	4,296.09	1/4	3,952.86	1/4	3,609.47	1/4	3,266.17	1/4	2,922.85	1/4	2,579.45
1/2		1/2		1/2	4,971.38	1/2	4,630.80	1/2	4,288.97	1/2	3,945.71	1/2	3,602.32	1/2	3,259.02	1/2	2,915.69	1/2	2,572.30
3/4		3/4		3/4	4,964.38	3/4	4,623.67	3/4	4,281.85	3/4	3,938.55	3/4	3,595.17	3/4	3,251.87	3/4	2,908.54	3/4	2,565.14
9	9	9	9	9	4,957.37	9	4,616.55	9	4,274.73	9	3,931.40	9	3,588.01	9	3,244.71	9	2,901.39	9	2,557.99
1/4		1/4		1/4	4,950.36	1/4	4,609.43	1/4	4,267.61	1/4	3,924.25	1/4	3,580.86	1/4	3,237.56	1/4	2,894.23	1/4	2,550.83
1/2		1/2		1/2	4,943.35	1/2	4,602.31	1/2	4,260.49	1/2	3,917.09	1/2	3,573.71	1/2	3,230.41	1/2	2,887.08	1/2	2,543.68
3/4		3/4		3/4	4,936.29	3/4	4,595.19	3/4	4,253.33	3/4	3,909.94	3/4	3,566.56	3/4	3,223.26	3/4	2,879.92	3/4	2,536.53
10	10	10	10	10	4,929.23	10	4,588.07	10	4,246.18	10	3,902.78	10	3,559.41	10	3,216.11	10	2,872.77	10	2,529.37
1/4		1/4		1/4	4,922.17	1/4	4,580.95	1/4	4,239.03	1/4	3,895.63	1/4	3,552.25	1/4	3,208.95	1/4	2,865.62	1/4	2,522.22
1/2		1/2		1/2	4,915.11	1/2	4,573.83	1/2	4,231.87	1/2	3,888.47	1/2	3,545.10	1/2	3,201.80	1/2	2,858.46	1/2	2,515.06
3/4		3/4		3/4	4,908.03	3/4	4,566.70	3/4	4,224.72	3/4	3,881.32	3/4	3,537.95	3/4	3,194.65	3/4	2,851.31	3/4	2,507.91
11	11	11	11	11	4,900.96	11	4,559.58	11	4,217.56	11	3,874.17	11	3,530.80	11	3,187.50	11	2,844.15	11	2,500.75
1/4		1/4		1/4	4,893.88	1/4	4,552.46	1/4	4,210.41	1/4	3,867.01	1/4	3,523.65	1/4	3,180.34	1/4	2,837.00	1/4	2,493.60
1/2		1/2		1/2	4,886.81	1/2	4,545.34	1/2	4,203.26	1/2	3,859.86	1/2	3,516.49	1/2	3,173.19	1/2	2,829.85	1/2	2,486.44
3/4		3/4		3/4	4,879.73	3/4	4,538.22	3/4	4,196.10	3/4	3,852.70	3/4	3,509.34	3/4	3,166.04	3/4	2,822.69	3/4	2,479.29

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" 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 "HSM 3316"

formerly the
BARGE "FMT 3316"

1 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,128.72	0	1,785.30	0	1,441.89	0	1,098.47	0	755.35	0	413.03	0	103.76	0		0		0	
1/4	2,121.56	1/4	1,778.15	1/4	1,434.73	1/4	1,091.32	1/4	748.19	1/4	406.09	1/4	97.82	1/4	1/4	1/4		1/4	
1/2	2,114.41	1/2	1,770.99	1/2	1,427.58	1/2	1,084.16	1/2	741.04	1/2	399.14	1/2	91.88	1/2	1/2	1/2		1/2	
3/4	2,107.26	3/4	1,763.84	3/4	1,420.42	3/4	1,077.01	3/4	733.88	3/4	392.28	3/4	86.03	3/4	3/4	3/4		3/4	
1	2,100.10	1	1,756.69	1	1,413.27	1	1,069.85	1	726.73	1	385.42	1	80.19	1	1	1		1	
1/4	2,092.95	1/4	1,749.53	1/4	1,406.11	1/4	1,062.70	1/4	719.57	1/4	378.56	1/4	74.34	1/4	1/4	1/4		1/4	
1/2	2,085.79	1/2	1,742.38	1/2	1,398.96	1/2	1,055.54	1/2	712.42	1/2	371.69	1/2	68.49	1/2	1/2	1/2		1/2	
3/4	2,078.64	3/4	1,735.22	3/4	1,391.81	3/4	1,048.39	3/4	705.27	3/4	364.92	3/4	62.76	3/4	3/4	3/4		3/4	
2	2,071.48	2	1,728.07	2	1,384.65	2	1,041.24	2	698.11	2	358.14	2	57.02	2	2	2		2	
1/4	2,064.33	1/4	1,720.91	1/4	1,377.50	1/4	1,034.08	1/4	690.96	1/4	351.36	1/4	51.28	1/4	1/4	1/4		1/4	
1/2	2,057.17	1/2	1,713.76	1/2	1,370.34	1/2	1,026.93	1/2	683.80	1/2	344.58	1/2	45.54	1/2	1/2	1/2		1/2	
3/4	2,050.02	3/4	1,706.60	3/4	1,363.19	3/4	1,019.78	3/4	676.65	3/4	337.89	3/4	40.75	3/4	3/4	3/4		3/4	
3	2,042.87	3	1,699.45	3	1,356.03	3	1,012.64	3	669.50	3	331.20	3	35.95	3	3	3		3	
1/4	2,035.71	1/4	1,692.29	1/4	1,348.88	1/4	1,005.49	1/4	662.34	1/4	324.50	1/4	31.16	1/4	1/4	1/4		1/4	
1/2	2,028.56	1/2	1,685.14	1/2	1,341.72	1/2	998.35	1/2	655.19	1/2	317.81	1/2	26.36	1/2	1/2	1/2		1/2	
3/4	2,021.40	3/4	1,677.99	3/4	1,334.57	3/4	991.20	3/4	648.03	3/4	311.20	3/4	23.44	3/4	3/4	3/4		3/4	
4	2,014.25	4	1,670.83	4	1,327.42	4	984.05	4	640.88	4	304.59	4	20.52	4	4	4		4	
1/4	2,007.09	1/4	1,663.68	1/4	1,320.26	1/4	976.91	1/4	633.72	1/4	297.98	1/4	17.59	1/4	1/4	1/4		1/4	
1/2	1,999.94	1/2	1,656.52	1/2	1,313.11	1/2	969.76	1/2	626.57	1/2	291.37	1/2	14.67	1/2	1/2	1/2		1/2	
3/4	1,992.78	3/4	1,649.37	3/4	1,305.95	3/4	962.62	3/4	619.42	3/4	284.84	3/4		3/4	3/4	3/4		3/4	
5	1,985.63	5	1,642.21	5	1,298.80	5	955.47	5	612.26	5	278.31	5		5	5	5		5	
1/4	1,978.47	1/4	1,635.06	1/4	1,291.64	1/4	948.33	1/4	605.11	1/4	271.78	1/4		1/4	1/4	1/4		1/4	
1/2	1,971.32	1/2	1,627.90	1/2	1,284.49	1/2	941.18	1/2	597.95	1/2	265.26	1/2		1/2	1/2	1/2		1/2	
3/4	1,964.17	3/4	1,620.75	3/4	1,277.33	3/4	934.04	3/4	590.80	3/4	258.81	3/4		3/4	3/4	3/4		3/4	
6	1,957.01	6	1,613.60	6	1,270.18	6	926.89	6	583.64	6	252.37	6		6	6	6		6	
1/4	1,949.86	1/4	1,606.44	1/4	1,263.02	1/4	919.74	1/4	576.49	1/4	245.93	1/4		1/4	1/4	1/4		1/4	
1/2	1,942.70	1/2	1,599.29	1/2	1,255.87	1/2	912.60	1/2	569.34	1/2	239.49	1/2		1/2	1/2	1/2		1/2	
3/4	1,935.55	3/4	1,592.13	3/4	1,248.72	3/4	905.45	3/4	562.18	3/4	233.13	3/4		3/4	3/4	3/4		3/4	
7	1,928.39	7	1,584.98	7	1,241.56	7	898.31	7	555.03	7	226.77	7		7	7	7		7	
1/4	1,921.24	1/4	1,577.82	1/4	1,234.41	1/4	891.16	1/4	547.87	1/4	220.41	1/4		1/4	1/4	1/4		1/4	
1/2	1,914.08	1/2	1,570.67	1/2	1,227.25	1/2	884.02	1/2	540.72	1/2	214.05	1/2		1/2	1/2	1/2		1/2	
3/4	1,906.93	3/4	1,563.51	3/4	1,220.10	3/4	876.87	3/4	533.57	3/4	207.77	3/4		3/4	3/4	3/4		3/4	
8	1,899.78	8	1,556.36	8	1,212.94	8	869.73	8	526.41	8	201.50	8		8	8	8		8	
1/4	1,892.62	1/4	1,549.20	1/4	1,205.79	1/4	862.58	1/4	519.26	1/4	195.22	1/4		1/4	1/4	1/4		1/4	
1/2	1,885.47	1/2	1,542.05	1/2	1,198.63	1/2	855.43	1/2	512.10	1/2	188.94	1/2		1/2	1/2	1/2		1/2	
3/4	1,878.31	3/4	1,534.90	3/4	1,191.48	3/4	848.29	3/4	504.95	3/4	182.75	3/4		3/4	3/4	3/4		3/4	
9	1,871.16	9	1,527.74	9	1,184.33	9	841.14	9	497.79	9	176.56	9		9	9	9		9	
1/4	1,864.00	1/4	1,520.59	1/4	1,177.17	1/4	834.00	1/4	490.64	1/4	170.37	1/4		1/4	1/4	1/4		1/4	
1/2	1,856.85	1/2	1,513.43	1/2	1,170.02	1/2	826.85	1/2	483.49	1/2	164.17	1/2		1/2	1/2	1/2		1/2	
3/4	1,849.69	3/4	1,506.28	3/4	1,162.86	3/4	819.71	3/4	476.37	3/4	158.07	3/4		3/4	3/4	3/4		3/4	
10	1,842.54	10	1,499.12	10	1,155.71	10	812.56	10	469.26	10	151.96	10		10	10	10		10	
1/4	1,835.38	1/4	1,491.97	1/4	1,148.55	1/4	805.42	1/4	462.15	1/4	145.85	1/4		1/4	1/4	1/4		1/4	
1/2	1,828.23	1/2	1,484.81	1/2	1,141.40	1/2	798.27	1/2	455.04	1/2	139.74	1/2		1/2	1/2	1/2		1/2	
3/4	1,821.08	3/4	1,477.66	3/4	1,134.24	3/4	791.12	3/4	448.01	3/4	133.72	3/4		3/4	3/4	3/4		3/4	
11	1,813.92	11	1,470.51	11	1,127.09	11	783.96	11	440.98	11	127.69	11		11	11	11		11	
1/4	1,806.77	1/4	1,463.35	1/4	1,119.93	1/4	776.81	1/4	433.95	1/4	121.67	1/4		1/4	1/4	1/4		1/4	
1/2	1,799.61	1/2	1,456.20	1/2	1,112.78	1/2	769.65	1/2	426.92	1/2	115.64	1/2		1/2	1/2	1/2		1/2	
3/4	1,792.46	3/4	1,449.04	3/4	1,105.63	3/4	762.50	3/4	419.98	3/4	109.70	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

2 PORT
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,939.66	0	4,598.33	0	4,256.37	0	3,913.06	0	3,569.76	0	3,226.46	0	2,883.11	0	2,539.71
1/4		1/4		1/4	4,932.58	1/4	4,591.21	1/4	4,249.21	1/4	3,905.91	1/4	3,562.61	1/4	3,219.31	1/4	2,875.96	1/4	2,532.55
1/2		1/2		1/2	4,925.51	1/2	4,584.09	1/2	4,242.06	1/2	3,898.76	1/2	3,555.46	1/2	3,212.16	1/2	2,868.80	1/2	2,525.40
3/4		3/4		3/4	4,918.43	3/4	4,576.97	3/4	4,234.91	3/4	3,891.61	3/4	3,548.31	3/4	3,205.01	3/4	2,861.65	3/4	2,518.24
1		1		1	4,911.36	1	4,569.85	1	4,227.76	1	3,884.46	1	3,541.16	1	3,197.85	1	2,854.49	1	2,511.09
1/4		1/4		1/4	4,904.28	1/4	4,562.73	1/4	4,220.60	1/4	3,877.30	1/4	3,534.00	1/4	3,190.70	1/4	2,847.34	1/4	2,503.93
1/2		1/2		1/2	4,897.21	1/2	4,555.61	1/2	4,213.45	1/2	3,870.15	1/2	3,526.85	1/2	3,183.55	1/2	2,840.19	1/2	2,496.78
3/4		3/4		3/4	4,890.13	3/4	4,548.49	3/4	4,206.30	3/4	3,863.00	3/4	3,519.70	3/4	3,176.40	3/4	2,833.03	3/4	2,489.63
2		2		2	4,883.06	2	4,541.37	2	4,199.15	2	3,855.85	2	3,512.55	2	3,169.25	2	2,825.88	2	2,482.47
1/4		1/4		1/4	4,875.98	1/4	4,534.25	1/4	4,192.00	1/4	3,848.70	1/4	3,505.39	1/4	3,162.09	1/4	2,818.72	1/4	2,475.32
1/2		1/2		1/2	4,868.86	1/2	4,527.13	1/2	4,184.84	1/2	3,841.54	1/2	3,498.24	1/2	3,154.94	1/2	2,811.57	1/2	2,468.16
3/4		3/4		3/4	4,861.74	3/4	4,520.01	3/4	4,177.69	3/4	3,834.39	3/4	3,491.09	3/4	3,147.79	3/4	2,804.41	3/4	2,461.01
3		3		3	4,854.62	3	4,512.89	3	4,170.54	3	3,827.24	3	3,483.94	3	3,140.64	3	2,797.26	3	2,453.85
1/4		1/4		1/4	4,847.50	1/4	4,505.77	1/4	4,163.39	1/4	3,820.09	1/4	3,476.79	1/4	3,133.49	1/4	2,790.11	1/4	2,446.70
1/2		1/2		1/2	4,840.39	1/2	4,498.65	1/2	4,156.24	1/2	3,812.94	1/2	3,469.63	1/2	3,126.33	1/2	2,782.95	1/2	2,439.54
3/4		3/4		3/4	4,833.27	3/4	4,491.53	3/4	4,149.08	3/4	3,805.78	3/4	3,462.48	3/4	3,119.18	3/4	2,775.80	3/4	2,432.39
4		4		4	4,826.15	4	4,484.42	4	4,141.93	4	3,798.63	4	3,455.33	4	3,112.03	4	2,768.64	4	2,425.24
1/4		1/4		1/4	4,819.03	1/4	4,477.30	1/4	4,134.78	1/4	3,791.48	1/4	3,448.18	1/4	3,104.88	1/4	2,761.49	1/4	2,418.08
1/2		1/2		1/2	4,811.91	1/2	4,470.18	1/2	4,127.63	1/2	3,784.33	1/2	3,441.03	1/2	3,097.73	1/2	2,754.33	1/2	2,410.93
3/4		3/4		3/4	4,804.79	3/4	4,463.06	3/4	4,120.48	3/4	3,777.17	3/4	3,433.87	3/4	3,090.57	3/4	2,747.18	3/4	2,403.77
5		5		5	4,797.67	5	4,455.94	5	4,113.32	5	3,770.02	5	3,426.72	5	3,083.42	5	2,740.03	5	2,396.62
1/4		1/4		1/4	4,790.55	1/4	4,448.82	1/4	4,106.17	1/4	3,762.87	1/4	3,419.57	1/4	3,076.27	1/4	2,732.87	1/4	2,389.46
1/2		1/2		1/2	4,783.43	1/2	4,441.70	1/2	4,099.02	1/2	3,755.72	1/2	3,412.42	1/2	3,069.12	1/2	2,725.72	1/2	2,382.31
3/4		3/4		3/4	4,776.31	3/4	4,434.58	3/4	4,091.87	3/4	3,748.57	3/4	3,405.27	3/4	3,061.96	3/4	2,718.56	3/4	2,375.16
6		6		6	4,769.19	6	4,427.46	6	4,084.71	6	3,741.41	6	3,398.11	6	3,054.81	6	2,711.41	6	2,368.00
1/4		1/4	5,076.99	1/4	4,762.07	1/4	4,420.34	1/4	4,077.56	1/4	3,734.26	1/4	3,390.96	1/4	3,047.66	1/4	2,704.25	1/4	2,360.85
1/2		1/2	5,073.19	1/2	4,754.95	1/2	4,413.22	1/2	4,070.41	1/2	3,727.11	1/2	3,383.81	1/2	3,040.51	1/2	2,697.10	1/2	2,353.69
3/4		3/4	5,069.40	3/4	4,747.83	3/4	4,406.10	3/4	4,063.26	3/4	3,719.96	3/4	3,376.66	3/4	3,033.35	3/4	2,689.95	3/4	2,346.54
7		7	5,065.60	7	4,740.71	7	4,398.98	7	4,056.11	7	3,712.81	7	3,369.50	7	3,026.20	7	2,682.79	7	2,339.38
1/4		1/4	5,061.81	1/4	4,733.59	1/4	4,391.86	1/4	4,048.95	1/4	3,705.65	1/4	3,362.35	1/4	3,019.04	1/4	2,675.64	1/4	2,332.23
1/2		1/2	5,056.82	1/2	4,726.47	1/2	4,384.74	1/2	4,041.80	1/2	3,698.50	1/2	3,355.20	1/2	3,011.89	1/2	2,668.48	1/2	2,325.08
3/4		3/4	5,051.83	3/4	4,719.36	3/4	4,377.62	3/4	4,034.65	3/4	3,691.35	3/4	3,348.05	3/4	3,004.73	3/4	2,661.33	3/4	2,317.92
8		8	5,046.84	8	4,712.24	8	4,370.50	8	4,027.50	8	3,684.20	8	3,340.90	8	2,997.58	8	2,654.17	8	2,310.77
1/4		1/4	5,041.86	1/4	4,705.12	1/4	4,363.39	1/4	4,020.35	1/4	3,677.05	1/4	3,333.74	1/4	2,990.43	1/4	2,647.02	1/4	2,303.61
1/2		1/2	5,035.67	1/2	4,698.00	1/2	4,356.27	1/2	4,013.19	1/2	3,669.89	1/2	3,326.59	1/2	2,983.27	1/2	2,639.87	1/2	2,296.46
3/4		3/4	5,029.49	3/4	4,690.88	3/4	4,349.15	3/4	4,006.04	3/4	3,662.74	3/4	3,319.44	3/4	2,976.12	3/4	2,632.71	3/4	2,289.30
9		9	5,023.31	9	4,683.76	9	4,342.03	9	3,998.89	9	3,655.59	9	3,312.29	9	2,968.96	9	2,625.56	9	2,282.15
1/4		1/4	5,017.13	1/4	4,676.64	1/4	4,334.91	1/4	3,991.74	1/4	3,648.44	1/4	3,305.14	1/4	2,961.81	1/4	2,618.40	1/4	2,275.00
1/2		1/2	5,010.13	1/2	4,669.52	1/2	4,327.79	1/2	3,984.59	1/2	3,641.28	1/2	3,297.98	1/2	2,954.65	1/2	2,611.25	1/2	2,267.84
3/4		3/4	5,003.12	3/4	4,662.40	3/4	4,320.67	3/4	3,977.43	3/4	3,634.13	3/4	3,290.83	3/4	2,947.50	3/4	2,604.09	3/4	2,260.69
10		10	4,996.12	10	4,655.28	10	4,313.55	10	3,970.28	10	3,626.98	10	3,283.68	10	2,940.35	10	2,596.94	10	2,253.53
1/4		1/4	4,989.11	1/4	4,648.16	1/4	4,306.43	1/4	3,963.13	1/4	3,619.83	1/4	3,276.53	1/4	2,933.19	1/4	2,589.79	1/4	2,246.38
1/2		1/2	4,982.05	1/2	4,641.04	1/2	4,299.28	1/2	3,955.98	1/2	3,612.68	1/2	3,269.38	1/2	2,926.04	1/2	2,582.63	1/2	2,239.22
3/4		3/4	4,974.99	3/4	4,633.92	3/4	4,292.13	3/4	3,948.83	3/4	3,605.52	3/4	3,262.22	3/4	2,918.88	3/4	2,575.48	3/4	2,232.07
11		11	4,967.93	11	4,626.80	11	4,284.97	11	3,941.67	11	3,598.37	11	3,255.07	11	2,911.73	11	2,568.32	11	2,224.92
1/4		1/4	4,960.87	1/4	4,619.68	1/4	4,277.82	1/4	3,934.52	1/4	3,591.22	1/4	3,247.92	1/4	2,904.57	1/4	2,561.17	1/4	2,217.76
1/2		1/2	4,953.80	1/2	4,612.56	1/2	4,270.67	1/2	3,927.37	1/2	3,584.07	1/2	3,240.77	1/2	2,897.42	1/2	2,554.01	1/2	2,210.61
3/4		3/4	4,946.73	3/4	4,605.44	3/4	4,263.52	3/4	3,920.22	3/4	3,576.92	3/4	3,233.62	3/4	2,890.27	3/4	2,546.86	3/4	2,203.45

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-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 "HSM 3316"

formerly the
BARGE "FMT 3316"

2 PORT
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,196.30	0	1,852.89	0	1,509.49	0	1,166.08	0	835.75	0	493.79	0	150.40	0		0		0	
1/4	2,189.14	1/4	1,845.74	1/4	1,502.33	1/4	1,158.93	1/4	828.90	1/4	486.64	1/4	143.25	1/4		1/4		1/4	
1/2	2,181.99	1/2	1,838.58	1/2	1,495.18	1/2	1,151.77	1/2	822.03	1/2	479.48	1/2	136.09	1/2		1/2		1/2	
3/4	2,174.84	3/4	1,831.43	3/4	1,488.02	3/4	1,144.62	3/4	815.16	3/4	472.33	3/4	128.94	3/4		3/4		3/4	
1	2,167.68	1	1,824.28	1	1,480.87	1	1,137.46	1	808.29	1	465.18	1	121.79	1		1		1	
1/4	2,160.53	1/4	1,817.12	1/4	1,473.71	1/4	1,130.31	1/4	801.41	1/4	458.02	1/4	114.64	1/4		1/4		1/4	
1/2	2,153.37	1/2	1,809.97	1/2	1,466.56	1/2	1,123.44	1/2	794.26	1/2	450.87	1/2	107.49	1/2		1/2		1/2	
3/4	2,146.22	3/4	1,802.81	3/4	1,459.41	3/4	1,116.56	3/4	787.11	3/4	443.71	3/4	100.35	3/4		3/4		3/4	
2	2,139.06	2	1,795.66	2	1,452.25	2	1,109.69	2	779.95	2	436.56	2	93.21	2		2		2	
1/4	2,131.91	1/4	1,788.50	1/4	1,445.10	1/4	1,102.82	1/4	772.80	1/4	429.41	1/4	86.06	1/4		1/4		1/4	
1/2	2,124.76	1/2	1,781.35	1/2	1,437.94	1/2	1,095.97	1/2	765.64	1/2	422.25	1/2	78.94	1/2		1/2		1/2	
3/4	2,117.60	3/4	1,774.20	3/4	1,430.79	3/4	1,089.11	3/4	758.49	3/4	415.10	3/4	71.83	3/4		3/4		3/4	
3	2,110.45	3	1,767.04	3	1,423.63	3	1,082.26	3	751.34	3	407.94	3	64.71	3		3		3	
1/4	2,103.29	1/4	1,759.89	1/4	1,416.48	1/4	1,075.40	1/4	744.18	1/4	400.79	1/4	57.59	1/4		1/4		1/4	
1/2	2,096.14	1/2	1,752.73	1/2	1,409.33	1/2	1,068.56	1/2	737.03	1/2	393.64	1/2	51.33	1/2		1/2		1/2	
3/4	2,088.98	3/4	1,745.58	3/4	1,402.17	3/4	1,061.71	3/4	729.87	3/4	386.48	3/4	45.08	3/4		3/4		3/4	
4	2,081.83	4	1,738.42	4	1,395.02	4	1,054.86	4	722.72	4	379.33	4	38.82	4		4		4	
1/4	2,074.68	1/4	1,731.27	1/4	1,387.86	1/4	1,048.02	1/4	715.57	1/4	372.17	1/4	32.56	1/4		1/4		1/4	
1/2	2,067.52	1/2	1,724.11	1/2	1,380.71	1/2	1,041.17	1/2	708.41	1/2	365.02	1/2	28.09	1/2		1/2		1/2	
3/4	2,060.37	3/4	1,716.96	3/4	1,373.55	3/4	1,034.32	3/4	701.26	3/4	357.87	3/4	23.62	3/4		3/4		3/4	
5	2,053.21	5	1,709.81	5	1,366.40	5	1,027.48	5	694.10	5	350.71	5	19.15	5		5		5	
1/4	2,046.06	1/4	1,702.65	1/4	1,359.25	1/4	1,020.63	1/4	686.95	1/4	343.56	1/4	14.67	1/4		1/4		1/4	
1/2	2,038.90	1/2	1,695.50	1/2	1,352.09	1/2	1,013.78	1/2	679.80	1/2	336.40	1/2		1/2		1/2		1/2	
3/4	2,031.75	3/4	1,688.34	3/4	1,344.94	3/4	1,006.94	3/4	672.64	3/4	329.25	3/4		3/4		3/4		3/4	
6	2,024.60	6	1,681.19	6	1,337.78	6	1,000.09	6	665.49	6	322.10	6		6		6		6	
1/4	2,017.44	1/4	1,674.03	1/4	1,330.63	1/4	993.24	1/4	658.33	1/4	314.94	1/4		1/4		1/4		1/4	
1/2	2,010.29	1/2	1,666.88	1/2	1,323.47	1/2	986.40	1/2	651.18	1/2	307.79	1/2		1/2		1/2		1/2	
3/4	2,003.13	3/4	1,659.73	3/4	1,316.32	3/4	979.55	3/4	644.03	3/4	300.63	3/4		3/4		3/4		3/4	
7	1,995.98	7	1,652.57	7	1,309.17	7	972.70	7	636.87	7	293.48	7		7		7		7	
1/4	1,988.82	1/4	1,645.42	1/4	1,302.01	1/4	965.86	1/4	629.72	1/4	286.33	1/4		1/4		1/4		1/4	
1/2	1,981.67	1/2	1,638.26	1/2	1,294.86	1/2	959.01	1/2	622.56	1/2	279.17	1/2		1/2		1/2		1/2	
3/4	1,974.52	3/4	1,631.11	3/4	1,287.70	3/4	952.17	3/4	615.41	3/4	272.02	3/4		3/4		3/4		3/4	
8	1,967.36	8	1,623.95	8	1,280.55	8	945.32	8	608.26	8	264.86	8		8		8		8	
1/4	1,960.21	1/4	1,616.80	1/4	1,273.39	1/4	938.47	1/4	601.10	1/4	257.71	1/4		1/4		1/4		1/4	
1/2	1,953.05	1/2	1,609.65	1/2	1,266.24	1/2	931.63	1/2	593.95	1/2	250.56	1/2		1/2		1/2		1/2	
3/4	1,945.90	3/4	1,602.49	3/4	1,259.09	3/4	924.78	3/4	586.79	3/4	243.40	3/4		3/4		3/4		3/4	
9	1,938.74	9	1,595.34	9	1,251.93	9	917.93	9	579.64	9	236.25	9		9		9		9	
1/4	1,931.59	1/4	1,588.18	1/4	1,244.78	1/4	911.09	1/4	572.49	1/4	229.09	1/4		1/4		1/4		1/4	
1/2	1,924.44	1/2	1,581.03	1/2	1,237.62	1/2	904.24	1/2	565.33	1/2	221.94	1/2		1/2		1/2		1/2	
3/4	1,917.28	3/4	1,573.87	3/4	1,230.47	3/4	897.39	3/4	558.18	3/4	214.79	3/4		3/4		3/4		3/4	
10	1,910.13	10	1,566.72	10	1,223.31	10	890.55	10	551.02	10	207.63	10		10		10		10	
1/4	1,902.97	1/4	1,559.57	1/4	1,216.16	1/4	883.70	1/4	543.87	1/4	200.48	1/4		1/4		1/4		1/4	
1/2	1,895.82	1/2	1,552.41	1/2	1,209.01	1/2	876.86	1/2	536.72	1/2	193.32	1/2		1/2		1/2		1/2	
3/4	1,888.66	3/4	1,545.26	3/4	1,201.85	3/4	870.01	3/4	529.56	3/4	186.17	3/4		3/4		3/4		3/4	
11	1,881.51	11	1,538.10	11	1,194.70	11	863.16	11	522.41	11	179.02	11		11		11		11	
1/4	1,874.36	1/4	1,530.95	1/4	1,187.54	1/4	856.32	1/4	515.25	1/4	171.86	1/4		1/4		1/4		1/4	
1/2	1,867.20	1/2	1,523.79	1/2	1,180.39	1/2	849.46	1/2	508.10	1/2	164.71	1/2		1/2		1/2		1/2	
3/4	1,860.05	3/4	1,516.64	3/4	1,173.23	3/4	842.61	3/4	500.95	3/4	157.55	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

2 STBD
ULLAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,955.05	0	4,613.01	0	4,270.36	0	3,926.39	0	3,582.47	0	3,238.61	0	2,894.70	0	2,550.73
1/4		1/4		1/4	4,947.96	1/4	4,605.88	1/4	4,263.19	1/4	3,919.23	1/4	3,575.30	1/4	3,231.45	1/4	2,887.53	1/4	2,543.56
1/2		1/2		1/2	4,940.87	1/2	4,598.75	1/2	4,256.03	1/2	3,912.06	1/2	3,568.14	1/2	3,224.28	1/2	2,880.36	1/2	2,536.40
3/4		3/4		3/4	4,933.78	3/4	4,591.61	3/4	4,248.86	3/4	3,904.90	3/4	3,560.98	3/4	3,217.12	3/4	2,873.20	3/4	2,529.23
1		1		1	4,926.69	1	4,584.48	1	4,241.69	1	3,897.73	1	3,553.81	1	3,209.95	1	2,866.03	1	2,522.06
1/4		1/4		1/4	4,919.61	1/4	4,577.35	1/4	4,234.53	1/4	3,890.57	1/4	3,546.65	1/4	3,202.79	1/4	2,858.87	1/4	2,514.90
1/2		1/2		1/2	4,912.52	1/2	4,570.21	1/2	4,227.36	1/2	3,883.40	1/2	3,539.48	1/2	3,195.63	1/2	2,851.70	1/2	2,507.73
3/4		3/4		3/4	4,905.43	3/4	4,563.08	3/4	4,220.20	3/4	3,876.23	3/4	3,532.32	3/4	3,188.46	3/4	2,844.53	3/4	2,500.57
2		2		2	4,898.34	2	4,555.95	2	4,213.03	2	3,869.07	2	3,525.16	2	3,181.30	2	2,837.37	2	2,493.40
1/4		1/4		1/4	4,891.21	1/4	4,548.81	1/4	4,205.86	1/4	3,861.90	1/4	3,517.99	1/4	3,174.14	1/4	2,830.20	1/4	2,486.23
1/2		1/2		1/2	4,884.07	1/2	4,541.68	1/2	4,198.70	1/2	3,854.74	1/2	3,510.83	1/2	3,166.97	1/2	2,823.04	1/2	2,479.07
3/4		3/4		3/4	4,876.94	3/4	4,534.55	3/4	4,191.53	3/4	3,847.57	3/4	3,503.67	3/4	3,159.81	3/4	2,815.87	3/4	2,471.90
3		3		3	4,869.81	3	4,527.41	3	4,184.37	3	3,840.40	3	3,496.50	3	3,152.64	3	2,808.70	3	2,464.74
1/4		1/4		1/4	4,862.68	1/4	4,520.28	1/4	4,177.20	1/4	3,833.24	1/4	3,489.34	1/4	3,145.48	1/4	2,801.54	1/4	2,457.57
1/2		1/2		1/2	4,855.54	1/2	4,513.15	1/2	4,170.04	1/2	3,826.07	1/2	3,482.17	1/2	3,138.32	1/2	2,794.37	1/2	2,450.40
3/4		3/4		3/4	4,848.41	3/4	4,506.02	3/4	4,162.87	3/4	3,818.91	3/4	3,475.01	3/4	3,131.15	3/4	2,787.21	3/4	2,443.24
4		4		4	4,841.28	4	4,498.88	4	4,155.70	4	3,811.74	4	3,467.85	4	3,123.99	4	2,780.04	4	2,436.07
1/4		1/4		1/4	4,834.14	1/4	4,491.75	1/4	4,148.54	1/4	3,804.57	1/4	3,460.68	1/4	3,116.83	1/4	2,772.87	1/4	2,428.91
1/2		1/2		1/2	4,827.01	1/2	4,484.62	1/2	4,141.37	1/2	3,797.41	1/2	3,453.52	1/2	3,109.66	1/2	2,765.71	1/2	2,421.74
3/4		3/4		3/4	4,819.88	3/4	4,477.48	3/4	4,134.21	3/4	3,790.24	3/4	3,446.36	3/4	3,102.50	3/4	2,758.54	3/4	2,414.57
5		5		5	4,812.74	5	4,470.35	5	4,127.04	5	3,783.08	5	3,439.19	5	3,095.34	5	2,751.38	5	2,407.41
1/4		1/4		1/4	4,805.61	1/4	4,463.22	1/4	4,119.87	1/4	3,775.91	1/4	3,432.03	1/4	3,088.17	1/4	2,744.21	1/4	2,400.24
1/2		1/2		1/2	4,798.48	1/2	4,456.08	1/2	4,112.71	1/2	3,768.74	1/2	3,424.87	1/2	3,081.01	1/2	2,737.04	1/2	2,393.08
3/4		3/4		3/4	4,791.34	3/4	4,448.95	3/4	4,105.54	3/4	3,761.58	3/4	3,417.70	3/4	3,073.84	3/4	2,729.88	3/4	2,385.91
6		6	5,099.74	6	4,784.21	6	4,441.82	6	4,098.38	6	3,754.41	6	3,410.54	6	3,066.68	6	2,722.71	6	2,378.74
1/4		1/4	5,095.94	1/4	4,777.08	1/4	4,434.68	1/4	4,091.21	1/4	3,747.25	1/4	3,403.37	1/4	3,059.51	1/4	2,715.55	1/4	2,371.58
1/2		1/2	5,092.13	1/2	4,769.94	1/2	4,427.55	1/2	4,084.04	1/2	3,740.08	1/2	3,396.21	1/2	3,052.35	1/2	2,708.38	1/2	2,364.41
3/4		3/4	5,088.33	3/4	4,762.81	3/4	4,420.42	3/4	4,076.88	3/4	3,732.92	3/4	3,389.05	3/4	3,045.18	3/4	2,701.21	3/4	2,357.25
7		7	5,084.53	7	4,755.68	7	4,413.28	7	4,069.71	7	3,725.75	7	3,381.88	7	3,038.02	7	2,694.05	7	2,350.08
1/4		1/4	5,079.53	1/4	4,748.54	1/4	4,406.15	1/4	4,062.55	1/4	3,718.58	1/4	3,374.72	1/4	3,030.85	1/4	2,686.88	1/4	2,342.91
1/2		1/2	5,074.53	1/2	4,741.41	1/2	4,399.02	1/2	4,055.38	1/2	3,711.42	1/2	3,367.56	1/2	3,023.68	1/2	2,679.72	1/2	2,335.75
3/4		3/4	5,069.53	3/4	4,734.28	3/4	4,391.88	3/4	4,048.22	3/4	3,704.25	3/4	3,360.39	3/4	3,016.52	3/4	2,672.55	3/4	2,328.58
8		8	5,064.53	8	4,727.14	8	4,384.75	8	4,041.05	8	3,697.09	8	3,353.23	8	3,009.35	8	2,665.38	8	2,321.42
1/4		1/4	5,058.34	1/4	4,720.01	1/4	4,377.62	1/4	4,033.88	1/4	3,689.92	1/4	3,346.06	1/4	3,002.19	1/4	2,658.22	1/4	2,314.25
1/2		1/2	5,052.15	1/2	4,712.88	1/2	4,370.48	1/2	4,026.72	1/2	3,682.76	1/2	3,338.90	1/2	2,995.02	1/2	2,651.05	1/2	2,307.08
3/4		3/4	5,045.96	3/4	4,705.74	3/4	4,363.35	3/4	4,019.55	3/4	3,675.59	3/4	3,331.74	3/4	2,987.85	3/4	2,643.89	3/4	2,299.92
9		9	5,039.76	9	4,698.61	9	4,356.22	9	4,012.39	9	3,668.43	9	3,324.57	9	2,980.69	9	2,636.72	9	2,292.75
1/4		1/4	5,032.74	1/4	4,691.48	1/4	4,349.08	1/4	4,005.22	1/4	3,661.27	1/4	3,317.41	1/4	2,973.52	1/4	2,629.55	1/4	2,285.59
1/2		1/2	5,025.72	1/2	4,684.35	1/2	4,341.95	1/2	3,998.05	1/2	3,654.10	1/2	3,310.25	1/2	2,966.36	1/2	2,622.39	1/2	2,278.42
3/4		3/4	5,018.71	3/4	4,677.21	3/4	4,334.82	3/4	3,990.89	3/4	3,646.94	3/4	3,303.08	3/4	2,959.19	3/4	2,615.22	3/4	2,271.25
10		10	5,011.69	10	4,670.08	10	4,327.69	10	3,983.72	10	3,639.78	10	3,295.92	10	2,952.02	10	2,608.06	10	2,264.09
1/4		1/4	5,004.61	1/4	4,662.95	1/4	4,320.52	1/4	3,976.56	1/4	3,632.61	1/4	3,288.76	1/4	2,944.86	1/4	2,600.89	1/4	2,256.92
1/2		1/2	4,997.54	1/2	4,655.81	1/2	4,313.35	1/2	3,969.39	1/2	3,625.45	1/2	3,281.59	1/2	2,937.69	1/2	2,593.72	1/2	2,249.76
3/4		3/4	4,990.47	3/4	4,648.68	3/4	4,306.19	3/4	3,962.22	3/4	3,618.29	3/4	3,274.43	3/4	2,930.53	3/4	2,586.56	3/4	2,242.59
11		11	4,983.39	11	4,641.55	11	4,299.02	11	3,955.06	11	3,611.12	11	3,267.26	11	2,923.36	11	2,579.39	11	2,235.42
1/4		1/4	4,976.31	1/4	4,634.41	1/4	4,291.86	1/4	3,947.89	1/4	3,603.96	1/4	3,260.10	1/4	2,916.19	1/4	2,572.23	1/4	2,228.26
1/2		1/2	4,969.22	1/2	4,627.28	1/2	4,284.69	1/2	3,940.73	1/2	3,596.79	1/2	3,252.94	1/2	2,909.03	1/2	2,565.06	1/2	2,221.09
3/4		3/4	4,962.13	3/4	4,620.15	3/4	4,277.52	3/4	3,933.56	3/4	3,589.63	3/4	3,245.77	3/4	2,901.86	3/4	2,557.89	3/4	2,213.93

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-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 "HSM 3316"

formerly the

BARGE "FMT 3316"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,206.76	0	1,862.79	0	1,518.82	0	1,174.86	0	831.39	0	487.44	0	143.48	0		0			
1/4	2,199.59	1/4	1,855.63	1/4	1,511.66	1/4	1,167.69	1/4	824.23	1/4	480.27	1/4	136.32	1/4		1/4			
1/2	2,192.43	1/2	1,848.46	1/2	1,504.49	1/2	1,160.52	1/2	817.06	1/2	473.11	1/2	129.16	1/2		1/2			
3/4	2,185.26	3/4	1,841.29	3/4	1,497.33	3/4	1,153.36	3/4	809.89	3/4	465.94	3/4	121.99	3/4		3/4			
1	2,178.10	1	1,834.13	1	1,490.16	1	1,146.19	1	802.73	1	458.78	1	114.83	1		1			
1/4	2,170.93	1/4	1,826.96	1/4	1,482.99	1/4	1,139.03	1/4	795.56	1/4	451.61	1/4	107.67	1/4		1/4			
1/2	2,163.76	1/2	1,819.80	1/2	1,475.83	1/2	1,131.86	1/2	788.40	1/2	444.44	1/2	100.52	1/2		1/2			
3/4	2,156.60	3/4	1,812.63	3/4	1,468.66	3/4	1,124.69	3/4	781.23	3/4	437.28	3/4	93.36	3/4		3/4			
2	2,149.43	2	1,805.46	2	1,461.50	2	1,117.53	2	774.07	2	430.11	2	86.21	2		2			
1/4	2,142.27	1/4	1,798.30	1/4	1,454.33	1/4	1,110.37	1/4	766.90	1/4	422.95	1/4	79.08	1/4		1/4			
1/2	2,135.10	1/2	1,791.13	1/2	1,447.16	1/2	1,103.21	1/2	759.73	1/2	415.78	1/2	71.95	1/2		1/2			
3/4	2,127.93	3/4	1,783.97	3/4	1,440.00	3/4	1,096.05	3/4	752.57	3/4	408.62	3/4	64.82	3/4		3/4			
3	2,120.77	3	1,776.80	3	1,432.83	3	1,088.89	3	745.40	3	401.45	3	57.69	3		3			
1/4	2,113.60	1/4	1,769.63	1/4	1,425.67	1/4	1,081.74	1/4	738.24	1/4	394.28	1/4	51.42	1/4		1/4			
1/2	2,106.44	1/2	1,762.47	1/2	1,418.50	1/2	1,074.58	1/2	731.07	1/2	387.12	1/2	45.15	1/2		1/2			
3/4	2,099.27	3/4	1,755.30	3/4	1,411.33	3/4	1,067.43	3/4	723.91	3/4	379.95	3/4	38.88	3/4		3/4			
4	2,092.10	4	1,748.14	4	1,404.17	4	1,060.28	4	716.74	4	372.79	4	32.61	4		4			
1/4	2,084.94	1/4	1,740.97	1/4	1,397.00	1/4	1,053.13	1/4	709.58	1/4	365.62	1/4	28.14	1/4		1/4			
1/2	2,077.77	1/2	1,733.80	1/2	1,389.84	1/2	1,045.98	1/2	702.41	1/2	358.46	1/2	23.66	1/2		1/2			
3/4	2,070.61	3/4	1,726.64	3/4	1,382.67	3/4	1,038.83	3/4	695.24	3/4	351.29	3/4	19.18	3/4		3/4			
5	2,063.44	5	1,719.47	5	1,375.50	5	1,031.67	5	688.08	5	344.12	5	14.70	5		5			
1/4	2,056.27	1/4	1,712.31	1/4	1,368.34	1/4	1,024.52	1/4	680.91	1/4	336.96	1/4		1/4		1/4			
1/2	2,049.11	1/2	1,705.14	1/2	1,361.17	1/2	1,017.37	1/2	673.75	1/2	329.79	1/2		1/2		1/2			
3/4	2,041.94	3/4	1,697.97	3/4	1,354.01	3/4	1,010.22	3/4	666.58	3/4	322.63	3/4		3/4		3/4			
6	2,034.78	6	1,690.81	6	1,346.84	6	1,003.07	6	659.42	6	315.46	6		6		6			
1/4	2,027.61	1/4	1,683.64	1/4	1,339.67	1/4	995.91	1/4	652.25	1/4	308.30	1/4		1/4		1/4			
1/2	2,020.44	1/2	1,676.48	1/2	1,332.51	1/2	988.76	1/2	645.08	1/2	301.13	1/2		1/2		1/2			
3/4	2,013.28	3/4	1,669.31	3/4	1,325.34	3/4	981.61	3/4	637.92	3/4	293.96	3/4		3/4		3/4			
7	2,006.11	7	1,662.14	7	1,318.18	7	974.46	7	630.75	7	286.80	7		7		7			
1/4	1,998.95	1/4	1,654.98	1/4	1,311.01	1/4	967.31	1/4	623.59	1/4	279.63	1/4		1/4		1/4			
1/2	1,991.78	1/2	1,647.81	1/2	1,303.84	1/2	960.15	1/2	616.42	1/2	272.47	1/2		1/2		1/2			
3/4	1,984.61	3/4	1,640.65	3/4	1,296.68	3/4	953.00	3/4	609.26	3/4	265.30	3/4		3/4		3/4			
8	1,977.45	8	1,633.48	8	1,289.51	8	945.85	8	602.09	8	258.14	8		8		8			
1/4	1,970.28	1/4	1,626.31	1/4	1,282.35	1/4	938.70	1/4	594.92	1/4	250.97	1/4		1/4		1/4			
1/2	1,963.12	1/2	1,619.15	1/2	1,275.18	1/2	931.55	1/2	587.76	1/2	243.80	1/2		1/2		1/2			
3/4	1,955.95	3/4	1,611.98	3/4	1,268.01	3/4	924.40	3/4	580.59	3/4	236.64	3/4		3/4		3/4			
9	1,948.78	9	1,604.82	9	1,260.85	9	917.24	9	573.43	9	229.47	9		9		9			
1/4	1,941.62	1/4	1,597.65	1/4	1,253.68	1/4	910.09	1/4	566.26	1/4	222.31	1/4		1/4		1/4			
1/2	1,934.45	1/2	1,590.48	1/2	1,246.52	1/2	902.94	1/2	559.10	1/2	215.14	1/2		1/2		1/2			
3/4	1,927.29	3/4	1,583.32	3/4	1,239.35	3/4	895.79	3/4	551.93	3/4	207.98	3/4		3/4		3/4			
10	1,920.12	10	1,576.15	10	1,232.18	10	888.64	10	544.76	10	200.81	10		10		10			
1/4	1,912.95	1/4	1,568.99	1/4	1,225.02	1/4	881.49	1/4	537.60	1/4	193.64	1/4		1/4		1/4			
1/2	1,905.79	1/2	1,561.82	1/2	1,217.85	1/2	874.33	1/2	530.43	1/2	186.48	1/2		1/2		1/2			
3/4	1,898.62	3/4	1,554.65	3/4	1,210.69	3/4	867.18	3/4	523.27	3/4	179.31	3/4		3/4		3/4			
11	1,891.46	11	1,547.49	11	1,203.52	11	860.03	11	516.10	11	172.15	11		11		11			
1/4	1,884.29	1/4	1,540.32	1/4	1,196.35	1/4	852.87	1/4	508.94	1/4	164.98	1/4		1/4		1/4			
1/2	1,877.12	1/2	1,533.16	1/2	1,189.19	1/2	845.71	1/2	501.77	1/2	157.82	1/2		1/2		1/2			
3/4	1,869.96	3/4	1,525.99	3/4	1,182.02	3/4	838.55	3/4	494.60	3/4	150.65	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

3 PORT ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,296.88	0	4,088.38	0	3,879.51	0	3,669.90	0	3,460.56	0	3,194.31	0	2,853.05	0	2,511.70
1/4		1/4		1/4	4,292.56	1/4	4,084.03	1/4	3,875.15	1/4	3,665.54	1/4	3,456.21	1/4	3,187.22	1/4	2,845.94	1/4	2,504.59
1/2		1/2		1/2	4,288.24	1/2	4,079.68	1/2	3,870.78	1/2	3,661.17	1/2	3,451.86	1/2	3,180.13	1/2	2,838.83	1/2	2,497.48
3/4		3/4		3/4	4,283.92	3/4	4,075.34	3/4	3,866.41	3/4	3,656.80	3/4	3,447.51	3/4	3,173.04	3/4	2,831.72	3/4	2,490.37
1		1		1	4,279.60	1	4,070.99	1	3,862.05	1	3,652.43	1	3,443.15	1	3,165.95	1	2,824.61	1	2,483.25
1/4		1/4		1/4	4,275.28	1/4	4,066.64	1/4	3,857.68	1/4	3,648.07	1/4	3,438.80	1/4	3,158.86	1/4	2,817.49	1/4	2,476.14
1/2		1/2		1/2	4,270.96	1/2	4,062.29	1/2	3,853.31	1/2	3,643.70	1/2	3,434.45	1/2	3,151.77	1/2	2,810.38	1/2	2,469.03
3/4		3/4		3/4	4,266.64	3/4	4,057.94	3/4	3,848.94	3/4	3,639.33	3/4	3,430.10	3/4	3,144.68	3/4	2,803.27	3/4	2,461.92
2		2		2	4,262.29	2	4,053.60	2	3,844.58	2	3,634.97	2	3,425.75	2	3,137.59	2	2,796.16	2	2,454.80
1/4		1/4		1/4	4,257.94	1/4	4,049.25	1/4	3,840.21	1/4	3,630.60	1/4	3,421.40	1/4	3,130.50	1/4	2,789.05	1/4	2,447.69
1/2		1/2		1/2	4,253.60	1/2	4,044.90	1/2	3,835.84	1/2	3,626.23	1/2	3,417.05	1/2	3,123.41	1/2	2,781.94	1/2	2,440.58
3/4		3/4		3/4	4,249.25	3/4	4,040.55	3/4	3,831.48	3/4	3,621.87	3/4	3,412.70	3/4	3,116.32	3/4	2,774.83	3/4	2,433.47
3		3		3	4,244.90	3	4,036.21	3	3,827.11	3	3,617.50	3	3,408.35	3	3,109.21	3	2,767.71	3	2,426.35
1/4		1/4		1/4	4,240.55	1/4	4,031.86	1/4	3,822.74	1/4	3,613.13	1/4	3,404.00	1/4	3,102.11	1/4	2,760.60	1/4	2,419.24
1/2		1/2		1/2	4,236.20	1/2	4,027.51	1/2	3,818.38	1/2	3,608.77	1/2	3,399.64	1/2	3,095.00	1/2	2,753.49	1/2	2,412.13
3/4		3/4		3/4	4,231.86	3/4	4,023.16	3/4	3,814.01	3/4	3,604.40	3/4	3,395.29	3/4	3,087.89	3/4	2,746.38	3/4	2,405.02
4		4		4	4,227.51	4	4,018.81	4	3,809.64	4	3,600.03	4	3,390.94	4	3,080.78	4	2,739.27	4	2,397.90
1/4		1/4		1/4	4,223.16	1/4	4,014.47	1/4	3,805.28	1/4	3,595.66	1/4	3,386.59	1/4	3,073.68	1/4	2,732.16	1/4	2,390.79
1/2		1/2		1/2	4,218.81	1/2	4,010.12	1/2	3,800.91	1/2	3,591.30	1/2	3,382.24	1/2	3,066.57	1/2	2,725.04	1/2	2,383.68
3/4		3/4		3/4	4,214.47	3/4	4,005.77	3/4	3,796.54	3/4	3,586.93	3/4	3,377.89	3/4	3,059.46	3/4	2,717.93	3/4	2,376.57
5		5		5	4,210.12	5	4,001.42	5	3,792.18	5	3,582.56	5	3,373.56	5	3,052.35	5	2,710.82	5	2,369.45
1/4		1/4		1/4	4,205.77	1/4	3,997.08	1/4	3,787.81	1/4	3,578.20	1/4	3,369.22	1/4	3,045.24	1/4	2,703.71	1/4	2,362.34
1/2		1/2		1/2	4,201.42	1/2	3,992.73	1/2	3,783.44	1/2	3,573.83	1/2	3,364.89	1/2	3,038.14	1/2	2,696.60	1/2	2,355.23
3/4		3/4		3/4	4,382.21	3/4	4,197.07	3/4	3,988.38	3/4	3,779.07	3/4	3,569.46	3/4	3,360.56	3/4	3,031.03	3/4	2,689.49
6		6		6	4,380.50	6	4,192.73	6	3,984.03	6	3,774.71	6	3,565.10	6	3,356.22	6	3,023.91	6	2,682.38
1/4		1/4		1/4	4,378.80	1/4	4,188.38	1/4	3,979.68	1/4	3,770.34	1/4	3,560.73	1/4	3,351.89	1/4	3,016.78	1/4	2,675.26
1/2		1/2		1/2	4,377.09	1/2	4,184.03	1/2	3,975.34	1/2	3,765.97	1/2	3,556.36	1/2	3,347.56	1/2	3,009.66	1/2	2,668.15
3/4		3/4		3/4	4,375.39	3/4	4,179.68	3/4	3,970.99	3/4	3,761.61	3/4	3,552.00	3/4	3,343.23	3/4	3,002.54	3/4	2,661.04
7		7		7	4,373.14	7	4,175.34	7	3,966.64	7	3,757.24	7	3,547.63	7	3,336.13	7	2,995.41	7	2,653.93
1/4		1/4		1/4	4,370.90	1/4	4,170.99	1/4	3,962.29	1/4	3,752.87	1/4	3,543.26	1/4	3,329.04	1/4	2,988.29	1/4	2,646.82
1/2		1/2		1/2	4,368.66	1/2	4,166.64	1/2	3,957.95	1/2	3,748.51	1/2	3,538.89	1/2	3,321.95	1/2	2,981.17	1/2	2,639.71
3/4		3/4		3/4	4,366.42	3/4	4,162.29	3/4	3,953.60	3/4	3,744.14	3/4	3,534.53	3/4	3,314.86	3/4	2,974.04	3/4	2,632.60
8		8		8	4,362.99	8	4,157.94	8	3,949.25	8	3,739.77	8	3,530.18	8	3,307.77	8	2,966.92	8	2,625.48
1/4		1/4		1/4	4,359.56	1/4	4,153.60	1/4	3,944.90	1/4	3,735.41	1/4	3,525.83	1/4	3,300.68	1/4	2,959.80	1/4	2,618.37
1/2		1/2		1/2	4,356.13	1/2	4,149.25	1/2	3,940.55	1/2	3,731.04	1/2	3,521.47	1/2	3,293.58	1/2	2,952.67	1/2	2,611.26
3/4		3/4		3/4	4,352.70	3/4	4,144.90	3/4	3,936.21	3/4	3,726.67	3/4	3,517.12	3/4	3,286.49	3/4	2,945.55	3/4	2,604.15
9		9		9	4,348.45	9	4,140.55	9	3,931.86	9	3,722.30	9	3,512.77	9	3,279.40	9	2,938.43	9	2,597.04
1/4		1/4		1/4	4,344.20	1/4	4,136.21	1/4	3,927.51	1/4	3,717.94	1/4	3,508.42	1/4	3,272.31	1/4	2,931.30	1/4	2,589.93
1/2		1/2		1/2	4,339.94	1/2	4,131.86	1/2	3,923.16	1/2	3,713.57	1/2	3,504.07	1/2	3,265.22	1/2	2,924.18	1/2	2,582.81
3/4		3/4		3/4	4,335.69	3/4	4,127.51	3/4	3,918.82	3/4	3,709.20	3/4	3,499.72	3/4	3,258.12	3/4	2,917.06	3/4	2,575.70
10		10		10	4,331.39	10	4,123.16	10	3,914.45	10	3,704.84	10	3,495.37	10	3,251.03	10	2,909.94	10	2,568.59
1/4		1/4		1/4	4,327.08	1/4	4,118.81	1/4	3,910.08	1/4	3,700.47	1/4	3,491.02	1/4	3,243.94	1/4	2,902.83	1/4	2,561.48
1/2		1/2		1/2	4,322.77	1/2	4,114.47	1/2	3,905.71	1/2	3,696.10	1/2	3,486.67	1/2	3,236.85	1/2	2,895.72	1/2	2,554.37
3/4		3/4		3/4	4,318.47	3/4	4,110.12	3/4	3,901.35	3/4	3,691.74	3/4	3,482.31	3/4	3,229.76	3/4	2,888.61	3/4	2,547.26
11		11		11	4,314.15	11	4,105.77	11	3,896.98	11	3,687.37	11	3,477.96	11	3,222.67	11	2,881.50	11	2,540.15
1/4		1/4		1/4	4,309.83	1/4	4,101.42	1/4	3,892.61	1/4	3,683.00	1/4	3,473.61	1/4	3,215.58	1/4	2,874.39	1/4	2,533.03
1/2		1/2		1/2	4,305.52	1/2	4,097.08	1/2	3,888.25	1/2	3,678.64	1/2	3,469.26	1/2	3,208.49	1/2	2,867.27	1/2	2,525.92
3/4		3/4		3/4	4,301.20	3/4	4,092.73	3/4	3,883.88	3/4	3,674.27	3/4	3,464.91	3/4	3,201.40	3/4	2,860.16	3/4	2,518.81

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-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 "HSM 3316" formerly the BARGE "FMT 3316"

3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Table with 18 columns (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.) and multiple rows of capacity data.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL CALCULATED: 08/06/2020 CL PRINTED: 08/06/2020 JS

CANCELS AND SUPERCEDES ALL PRIOR TO 08/2020

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





BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

3 STBD ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,319.10	0	4,110.03	0	3,900.60	0	3,690.45	0	3,480.30	0	3,210.48	0	2,868.86	0	2,526.79
1/4		1/4		1/4	4,314.77	1/4	4,105.67	1/4	3,896.23	1/4	3,686.07	1/4	3,475.92	1/4	3,203.37	1/4	2,861.74	1/4	2,519.65
1/2		1/2		1/2	4,310.44	1/2	4,101.31	1/2	3,891.85	1/2	3,681.69	1/2	3,471.54	1/2	3,196.27	1/2	2,854.62	1/2	2,512.51
3/4		3/4		3/4	4,306.11	3/4	4,096.95	3/4	3,887.47	3/4	3,677.32	3/4	3,467.16	3/4	3,189.17	3/4	2,847.50	3/4	2,505.37
1		1		1	4,301.78	1	4,092.60	1	3,883.09	1	3,672.94	1	3,462.78	1	3,182.06	1	2,840.38	1	2,498.23
1/4		1/4		1/4	4,297.45	1/4	4,088.24	1/4	3,878.71	1/4	3,668.56	1/4	3,458.41	1/4	3,174.96	1/4	2,833.26	1/4	2,491.09
1/2		1/2		1/2	4,293.11	1/2	4,083.88	1/2	3,874.33	1/2	3,664.18	1/2	3,454.03	1/2	3,167.85	1/2	2,826.13	1/2	2,483.95
3/4		3/4		3/4	4,288.75	3/4	4,079.52	3/4	3,869.96	3/4	3,659.80	3/4	3,449.65	3/4	3,160.75	3/4	2,819.01	3/4	2,476.81
2		2		2	4,284.40	2	4,075.16	2	3,865.58	2	3,655.42	2	3,445.27	2	3,153.65	2	2,811.89	2	2,469.67
1/4		1/4		1/4	4,280.04	1/4	4,070.80	1/4	3,861.20	1/4	3,651.05	1/4	3,440.89	1/4	3,146.54	1/4	2,804.77	1/4	2,462.54
1/2		1/2		1/2	4,275.68	1/2	4,066.44	1/2	3,856.82	1/2	3,646.67	1/2	3,436.51	1/2	3,139.44	1/2	2,797.65	1/2	2,455.40
3/4		3/4		3/4	4,271.32	3/4	4,062.08	3/4	3,852.44	3/4	3,642.29	3/4	3,432.14	3/4	3,132.32	3/4	2,790.53	3/4	2,448.26
3		3		3	4,266.96	3	4,057.72	3	3,848.07	3	3,637.91	3	3,427.76	3	3,125.20	3	2,783.41	3	2,441.12
1/4		1/4		1/4	4,262.60	1/4	4,053.36	1/4	3,843.69	1/4	3,633.53	1/4	3,423.38	1/4	3,118.08	1/4	2,776.29	1/4	2,433.98
1/2		1/2		1/2	4,258.24	1/2	4,049.00	1/2	3,839.31	1/2	3,629.16	1/2	3,419.00	1/2	3,110.96	1/2	2,769.17	1/2	2,426.84
3/4		3/4		3/4	4,253.88	3/4	4,044.65	3/4	3,834.93	3/4	3,624.78	3/4	3,414.62	3/4	3,103.84	3/4	2,762.05	3/4	2,419.70
4		4		4	4,249.52	4	4,040.29	4	3,830.55	4	3,620.40	4	3,410.25	4	3,096.72	4	2,754.93	4	2,412.56
1/4		1/4		1/4	4,245.16	1/4	4,035.93	1/4	3,826.17	1/4	3,616.02	1/4	3,405.87	1/4	3,089.60	1/4	2,747.81	1/4	2,405.42
1/2		1/2		1/2	4,240.80	1/2	4,031.57	1/2	3,821.80	1/2	3,611.64	1/2	3,401.49	1/2	3,082.48	1/2	2,740.69	1/2	2,398.29
3/4		3/4		3/4	4,236.45	3/4	4,027.21	3/4	3,817.42	3/4	3,607.26	3/4	3,397.15	3/4	3,075.36	3/4	2,733.57	3/4	2,391.15
5		5		5	4,232.09	5	4,022.85	5	3,813.04	5	3,602.89	5	3,392.80	5	3,068.24	5	2,726.45	5	2,384.01
1/4		1/4		1/4	4,227.73	1/4	4,018.49	1/4	3,808.66	1/4	3,598.51	1/4	3,388.46	1/4	3,061.11	1/4	2,719.33	1/4	2,376.87
1/2		1/2	4,408.99	1/2	4,223.37	1/2	4,014.13	1/2	3,804.28	1/2	3,594.13	1/2	3,384.12	1/2	3,053.99	1/2	2,712.21	1/2	2,369.73
3/4		3/4	4,407.28	3/4	4,219.01	3/4	4,009.77	3/4	3,799.91	3/4	3,589.75	3/4	3,379.78	3/4	3,046.87	3/4	2,705.08	3/4	2,362.59
6		6	4,405.57	6	4,214.65	6	4,005.41	6	3,795.53	6	3,585.37	6	3,375.43	6	3,039.75	6	2,697.96	6	2,355.45
1/4		1/4	4,403.86	1/4	4,210.29	1/4	4,001.05	1/4	3,791.15	1/4	3,581.00	1/4	3,371.09	1/4	3,032.63	1/4	2,690.84	1/4	2,348.31
1/2		1/2	4,402.15	1/2	4,205.93	1/2	3,996.70	1/2	3,786.77	1/2	3,576.62	1/2	3,366.75	1/2	3,025.51	1/2	2,683.72	1/2	2,341.18
3/4		3/4	4,399.90	3/4	4,201.57	3/4	3,992.34	3/4	3,782.39	3/4	3,572.24	3/4	3,359.65	3/4	3,018.39	3/4	2,676.60	3/4	2,334.04
7		7	4,397.65	7	4,197.21	7	3,987.98	7	3,778.01	7	3,567.86	7	3,352.54	7	3,011.27	7	2,669.48	7	2,326.90
1/4		1/4	4,395.40	1/4	4,192.85	1/4	3,983.62	1/4	3,773.64	1/4	3,563.48	1/4	3,345.44	1/4	3,004.15	1/4	2,662.36	1/4	2,319.76
1/2		1/2	4,393.15	1/2	4,188.50	1/2	3,979.26	1/2	3,769.26	1/2	3,559.10	1/2	3,338.34	1/2	2,997.03	1/2	2,655.24	1/2	2,312.62
3/4		3/4	4,389.71	3/4	4,184.14	3/4	3,974.90	3/4	3,764.88	3/4	3,554.73	3/4	3,331.23	3/4	2,989.91	3/4	2,648.12	3/4	2,305.48
8		8	4,386.27	8	4,179.78	8	3,970.54	8	3,760.50	8	3,550.35	8	3,324.13	8	2,982.79	8	2,641.00	8	2,298.34
1/4		1/4	4,382.83	1/4	4,175.42	1/4	3,966.18	1/4	3,756.12	1/4	3,545.97	1/4	3,317.03	1/4	2,975.67	1/4	2,633.88	1/4	2,291.20
1/2		1/2	4,379.39	1/2	4,171.06	1/2	3,961.82	1/2	3,751.75	1/2	3,541.59	1/2	3,309.92	1/2	2,968.55	1/2	2,626.76	1/2	2,284.07
3/4		3/4	4,375.13	3/4	4,166.70	3/4	3,957.46	3/4	3,747.37	3/4	3,537.21	3/4	3,302.82	3/4	2,961.43	3/4	2,619.62	3/4	2,276.93
9		9	4,370.87	9	4,162.34	9	3,953.10	9	3,742.99	9	3,532.84	9	3,295.72	9	2,954.31	9	2,612.48	9	2,269.79
1/4		1/4	4,366.61	1/4	4,157.98	1/4	3,948.75	1/4	3,738.61	1/4	3,528.46	1/4	3,288.61	1/4	2,947.18	1/4	2,605.34	1/4	2,262.65
1/2		1/2	4,362.34	1/2	4,153.62	1/2	3,944.39	1/2	3,734.23	1/2	3,524.08	1/2	3,281.51	1/2	2,940.06	1/2	2,598.20	1/2	2,255.51
3/4		3/4	4,358.03	3/4	4,149.26	3/4	3,940.01	3/4	3,729.85	3/4	3,519.70	3/4	3,274.41	3/4	2,932.94	3/4	2,591.05	3/4	2,248.37
10		10	4,353.71	10	4,144.90	10	3,935.63	10	3,725.48	10	3,515.32	10	3,267.30	10	2,925.82	10	2,583.91	10	2,241.23
1/4		1/4	4,349.39	1/4	4,140.55	1/4	3,931.25	1/4	3,721.10	1/4	3,510.94	1/4	3,260.20	1/4	2,918.70	1/4	2,576.77	1/4	2,234.09
1/2		1/2	4,345.07	1/2	4,136.19	1/2	3,926.87	1/2	3,716.72	1/2	3,506.57	1/2	3,253.10	1/2	2,911.58	1/2	2,569.63	1/2	2,226.95
3/4		3/4	4,340.75	3/4	4,131.83	3/4	3,922.50	3/4	3,712.34	3/4	3,502.19	3/4	3,245.99	3/4	2,904.46	3/4	2,562.49	3/4	2,219.82
11		11	4,336.42	11	4,127.47	11	3,918.12	11	3,707.96	11	3,497.81	11	3,238.89	11	2,897.34	11	2,555.35	11	2,212.68
1/4		1/4	4,332.09	1/4	4,123.11	1/4	3,913.74	1/4	3,703.59	1/4	3,493.43	1/4	3,231.79	1/4	2,890.22	1/4	2,548.21	1/4	2,205.54
1/2		1/2	4,327.76	1/2	4,118.75	1/2	3,909.36	1/2	3,699.21	1/2	3,489.05	1/2	3,224.68	1/2	2,883.10	1/2	2,541.07	1/2	2,198.40
3/4		3/4	4,323.43	3/4	4,114.39	3/4	3,904.98	3/4	3,694.83	3/4	3,484.68	3/4	3,217.58	3/4	2,875.98	3/4	2,533.93	3/4	2,191.26

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-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 "HSM 3316"

formerly the

BARGE "FMT 3316"

3 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,184.12	0	1,841.46	0	1,498.80	0	1,156.13	0	813.96	0	471.31	0	128.66	0		0			
1/4	2,176.98	1/4	1,834.32	1/4	1,491.66	1/4	1,149.00	1/4	806.83	1/4	464.17	1/4	121.52	1/4	1/4	1/4			
1/2	2,169.84	1/2	1,827.18	1/2	1,484.52	1/2	1,141.86	1/2	799.69	1/2	457.03	1/2	114.39	1/2	1/2	1/2			
3/4	2,162.71	3/4	1,820.04	3/4	1,477.38	3/4	1,134.72	3/4	792.55	3/4	449.90	3/4	107.26	3/4	3/4	3/4			
1	2,155.57	1	1,812.90	1	1,470.24	1	1,127.58	1	785.41	1	442.76	1	100.13	1	1	1			
1/4	2,148.43	1/4	1,805.77	1/4	1,463.10	1/4	1,120.44	1/4	778.27	1/4	435.62	1/4	93.00	1/4	1/4	1/4			
1/2	2,141.29	1/2	1,798.63	1/2	1,455.96	1/2	1,113.30	1/2	771.13	1/2	428.48	1/2	85.87	1/2	1/2	1/2			
3/4	2,134.15	3/4	1,791.49	3/4	1,448.83	3/4	1,106.17	3/4	763.99	3/4	421.34	3/4	78.77	3/4	3/4	3/4			
2	2,127.01	2	1,784.35	2	1,441.69	2	1,099.04	2	756.86	2	414.20	2	71.67	2	2	2			
1/4	2,119.87	1/4	1,777.21	1/4	1,434.55	1/4	1,091.90	1/4	749.72	1/4	407.06	1/4	64.57	1/4	1/4	1/4			
1/2	2,112.73	1/2	1,770.07	1/2	1,427.41	1/2	1,084.77	1/2	742.58	1/2	399.93	1/2	57.46	1/2	1/2	1/2			
3/4	2,105.60	3/4	1,762.93	3/4	1,420.27	3/4	1,077.65	3/4	735.44	3/4	392.79	3/4	51.22	3/4	3/4	3/4			
3	2,098.46	3	1,755.79	3	1,413.13	3	1,070.52	3	728.30	3	385.65	3	44.97	3	3	3			
1/4	2,091.32	1/4	1,748.66	1/4	1,405.99	1/4	1,063.40	1/4	721.16	1/4	378.51	1/4	38.73	1/4	1/4	1/4			
1/2	2,084.18	1/2	1,741.52	1/2	1,398.85	1/2	1,056.27	1/2	714.02	1/2	371.37	1/2	32.48	1/2	1/2	1/2			
3/4	2,077.04	3/4	1,734.38	3/4	1,391.72	3/4	1,049.15	3/4	706.89	3/4	364.23	3/4	28.02	3/4	3/4	3/4			
4	2,069.90	4	1,727.24	4	1,384.58	4	1,042.02	4	699.75	4	357.09	4	23.56	4	4	4			
1/4	2,062.76	1/4	1,720.10	1/4	1,377.44	1/4	1,034.90	1/4	692.61	1/4	349.96	1/4	19.10	1/4	1/4	1/4			
1/2	2,055.62	1/2	1,712.96	1/2	1,370.30	1/2	1,027.77	1/2	685.47	1/2	342.82	1/2	14.64	1/2	1/2	1/2			
3/4	2,048.48	3/4	1,705.82	3/4	1,363.16	3/4	1,020.65	3/4	678.33	3/4	335.68	3/4		3/4	3/4	3/4			
5	2,041.35	5	1,698.68	5	1,356.02	5	1,013.52	5	671.19	5	328.54	5		5	5	5			
1/4	2,034.21	1/4	1,691.54	1/4	1,348.88	1/4	1,006.40	1/4	664.05	1/4	321.40	1/4		1/4	1/4	1/4			
1/2	2,027.07	1/2	1,684.41	1/2	1,341.74	1/2	999.27	1/2	656.92	1/2	314.26	1/2		1/2	1/2	1/2			
3/4	2,019.93	3/4	1,677.27	3/4	1,334.60	3/4	992.15	3/4	649.78	3/4	307.12	3/4		3/4	3/4	3/4			
6	2,012.79	6	1,670.13	6	1,327.47	6	985.02	6	642.64	6	299.99	6		6	6	6			
1/4	2,005.65	1/4	1,662.99	1/4	1,320.33	1/4	977.90	1/4	635.50	1/4	292.85	1/4		1/4	1/4	1/4			
1/2	1,998.51	1/2	1,655.85	1/2	1,313.19	1/2	970.77	1/2	628.36	1/2	285.71	1/2		1/2	1/2	1/2			
3/4	1,991.37	3/4	1,648.71	3/4	1,306.05	3/4	963.65	3/4	621.22	3/4	278.57	3/4		3/4	3/4	3/4			
7	1,984.24	7	1,641.57	7	1,298.91	7	956.52	7	614.08	7	271.43	7		7	7	7			
1/4	1,977.10	1/4	1,634.43	1/4	1,291.77	1/4	949.40	1/4	606.94	1/4	264.29	1/4		1/4	1/4	1/4			
1/2	1,969.96	1/2	1,627.30	1/2	1,284.63	1/2	942.27	1/2	599.81	1/2	257.15	1/2		1/2	1/2	1/2			
3/4	1,962.82	3/4	1,620.16	3/4	1,277.49	3/4	935.15	3/4	592.67	3/4	250.01	3/4		3/4	3/4	3/4			
8	1,955.68	8	1,613.02	8	1,270.36	8	928.02	8	585.53	8	242.88	8		8	8	8			
1/4	1,948.54	1/4	1,605.88	1/4	1,263.22	1/4	920.90	1/4	578.39	1/4	235.74	1/4		1/4	1/4	1/4			
1/2	1,941.40	1/2	1,598.74	1/2	1,256.08	1/2	913.77	1/2	571.25	1/2	228.60	1/2		1/2	1/2	1/2			
3/4	1,934.26	3/4	1,591.60	3/4	1,248.94	3/4	906.65	3/4	564.11	3/4	221.46	3/4		3/4	3/4	3/4			
9	1,927.13	9	1,584.46	9	1,241.80	9	899.53	9	556.97	9	214.32	9		9	9	9			
1/4	1,919.99	1/4	1,577.32	1/4	1,234.66	1/4	892.40	1/4	549.84	1/4	207.18	1/4		1/4	1/4	1/4			
1/2	1,912.85	1/2	1,570.19	1/2	1,227.52	1/2	885.28	1/2	542.70	1/2	200.04	1/2		1/2	1/2	1/2			
3/4	1,905.71	3/4	1,563.05	3/4	1,220.38	3/4	878.15	3/4	535.56	3/4	192.91	3/4		3/4	3/4	3/4			
10	1,898.57	10	1,555.91	10	1,213.25	10	871.03	10	528.42	10	185.77	10		10	10	10			
1/4	1,891.43	1/4	1,548.77	1/4	1,206.11	1/4	863.90	1/4	521.28	1/4	178.63	1/4		1/4	1/4	1/4			
1/2	1,884.29	1/2	1,541.63	1/2	1,198.97	1/2	856.78	1/2	514.14	1/2	171.49	1/2		1/2	1/2	1/2			
3/4	1,877.15	3/4	1,534.49	3/4	1,191.83	3/4	849.64	3/4	507.00	3/4	164.35	3/4		3/4	3/4	3/4			
11	1,870.01	11	1,527.35	11	1,184.69	11	842.51	11	499.87	11	157.21	11		11	11	11			
1/4	1,862.88	1/4	1,520.21	1/4	1,177.55	1/4	835.38	1/4	492.73	1/4	150.07	1/4		1/4	1/4	1/4			
1/2	1,855.74	1/2	1,513.07	1/2	1,170.41	1/2	828.24	1/2	485.59	1/2	142.94	1/2		1/2	1/2	1/2			
3/4	1,848.60	3/4	1,505.94	3/4	1,163.27	3/4	821.10	3/4	478.45	3/4	135.80	3/4		3/4	3/4	3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

INNAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 7'-00"
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

August 5, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "HSM 3316"
 formerly the
BARGE "FMT 3316"

1 PORT
INNAGE TABLE

HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	14.64	0	290.70	0	625.04	0	965.82	0	1,307.56	0	1,650.13	0	1,992.70	0	2,335.27	0	2,677.84	0	3,020.39
1/4	17.56	1/4	297.29	1/4	632.18	1/4	972.89	1/4	1,314.70	1/4	1,657.27	1/4	1,999.84	1/4	2,342.41	1/4	2,684.98	1/4	3,027.52
1/2	20.47	1/2	303.88	1/2	639.32	1/2	979.97	1/2	1,321.83	1/2	1,664.40	1/2	2,006.98	1/2	2,349.55	1/2	2,692.12	1/2	3,034.66
3/4	23.39	3/4	310.48	3/4	646.45	3/4	987.05	3/4	1,328.97	3/4	1,671.54	3/4	2,014.11	3/4	2,356.68	3/4	2,699.25	3/4	3,041.79
1	26.31	1	317.07	1	653.59	1	994.12	1	1,336.11	1	1,678.68	1	2,021.25	1	2,363.82	1	2,706.39	1	3,048.93
1/4	31.09	1/4	323.75	1/4	660.73	1/4	1,001.20	1/4	1,343.24	1/4	1,685.82	1/4	2,028.39	1/4	2,370.96	1/4	2,713.53	1/4	3,056.06
1/2	35.88	1/2	330.43	1/2	667.86	1/2	1,008.28	1/2	1,350.38	1/2	1,692.95	1/2	2,035.52	1/2	2,378.09	1/2	2,720.66	1/2	3,063.20
3/4	40.66	3/4	337.11	3/4	675.00	3/4	1,015.35	3/4	1,357.52	3/4	1,700.09	3/4	2,042.66	3/4	2,385.23	3/4	2,727.80	3/4	3,070.33
2	45.44	2	343.79	2	682.14	2	1,022.43	2	1,364.65	2	1,707.23	2	2,049.80	2	2,392.37	2	2,734.93	2	3,077.47
1/4	51.17	1/4	350.55	1/4	689.27	1/4	1,029.51	1/4	1,371.79	1/4	1,714.36	1/4	2,056.93	1/4	2,399.51	1/4	2,742.07	1/4	3,084.60
1/2	56.89	1/2	357.31	1/2	696.41	1/2	1,036.60	1/2	1,378.93	1/2	1,721.50	1/2	2,064.07	1/2	2,406.64	1/2	2,749.21	1/2	3,091.74
3/4	62.62	3/4	364.07	3/4	703.55	3/4	1,043.68	3/4	1,386.07	3/4	1,728.64	3/4	2,071.21	3/4	2,413.78	3/4	2,756.34	3/4	3,098.87
3	68.34	3	370.83	3	710.68	3	1,050.77	3	1,393.20	3	1,735.77	3	2,078.34	3	2,420.92	3	2,763.48	3	3,106.00
1/4	74.18	1/4	377.68	1/4	717.82	1/4	1,057.87	1/4	1,400.34	1/4	1,742.91	1/4	2,085.48	1/4	2,428.05	1/4	2,770.62	1/4	3,113.14
1/2	80.01	1/2	384.52	1/2	724.96	1/2	1,064.97	1/2	1,407.48	1/2	1,750.05	1/2	2,092.62	1/2	2,435.19	1/2	2,777.75	1/2	3,120.27
3/4	85.84	3/4	391.37	3/4	732.09	3/4	1,072.08	3/4	1,414.61	3/4	1,757.18	3/4	2,099.76	3/4	2,442.33	3/4	2,784.89	3/4	3,127.41
4	91.68	4	398.21	4	739.23	4	1,079.18	4	1,421.75	4	1,764.32	4	2,106.89	4	2,449.46	4	2,792.03	4	3,134.54
1/4	97.60	1/4	405.14	1/4	746.33	1/4	1,086.32	1/4	1,428.89	1/4	1,771.46	1/4	2,114.03	1/4	2,456.60	1/4	2,799.16	1/4	3,141.68
1/2	103.53	1/2	412.07	1/2	753.44	1/2	1,093.45	1/2	1,436.02	1/2	1,778.60	1/2	2,121.17	1/2	2,463.74	1/2	2,806.30	1/2	3,148.81
3/4	109.46	3/4	419.00	3/4	760.54	3/4	1,100.59	3/4	1,443.16	3/4	1,785.73	3/4	2,128.30	3/4	2,470.87	3/4	2,813.44	3/4	3,155.95
5	115.38	5	425.93	5	767.64	5	1,107.73	5	1,450.30	5	1,792.87	5	2,135.44	5	2,478.01	5	2,820.57	5	3,163.08
1/4	121.39	1/4	432.93	1/4	774.73	1/4	1,114.86	1/4	1,457.43	1/4	1,800.01	1/4	2,142.58	1/4	2,485.15	1/4	2,827.71	1/4	3,170.21
1/2	127.41	1/2	439.94	1/2	781.81	1/2	1,122.00	1/2	1,464.57	1/2	1,807.14	1/2	2,149.71	1/2	2,492.29	1/2	2,834.85	1/2	3,177.35
3/4	133.42	3/4	446.95	3/4	788.90	3/4	1,129.14	3/4	1,471.71	3/4	1,814.28	3/4	2,156.85	3/4	2,499.42	3/4	2,841.98	3/4	3,184.48
6	139.43	6	453.95	6	795.98	6	1,136.27	6	1,478.85	6	1,821.42	6	2,163.99	6	2,506.56	6	2,849.12	6	3,191.62
1/4	145.52	1/4	461.04	1/4	803.06	1/4	1,143.41	1/4	1,485.98	1/4	1,828.55	1/4	2,171.12	1/4	2,513.70	1/4	2,856.26	1/4	3,198.75
1/2	151.62	1/2	468.13	1/2	810.13	1/2	1,150.55	1/2	1,493.12	1/2	1,835.69	1/2	2,178.26	1/2	2,520.83	1/2	2,863.39	1/2	3,205.89
3/4	157.71	3/4	475.22	3/4	817.21	3/4	1,157.68	3/4	1,500.26	3/4	1,842.83	3/4	2,185.40	3/4	2,527.97	3/4	2,870.53	3/4	3,213.02
7	163.80	7	482.31	7	824.29	7	1,164.82	7	1,507.39	7	1,849.96	7	2,192.54	7	2,535.11	7	2,877.67	7	3,220.16
1/4	169.98	1/4	489.45	1/4	831.36	1/4	1,171.96	1/4	1,514.53	1/4	1,857.10	1/4	2,199.67	1/4	2,542.24	1/4	2,884.80	1/4	3,227.29
1/2	176.16	1/2	496.59	1/2	838.44	1/2	1,179.10	1/2	1,521.67	1/2	1,864.24	1/2	2,206.81	1/2	2,549.38	1/2	2,891.94	1/2	3,234.43
3/4	182.34	3/4	503.72	3/4	845.52	3/4	1,186.23	3/4	1,528.80	3/4	1,871.37	3/4	2,213.95	3/4	2,556.52	3/4	2,899.08	3/4	3,241.56
8	188.52	8	510.86	8	852.59	8	1,193.37	8	1,535.94	8	1,878.51	8	2,221.08	8	2,563.65	8	2,906.21	8	3,248.69
1/4	194.78	1/4	518.00	1/4	859.67	1/4	1,200.51	1/4	1,543.08	1/4	1,885.65	1/4	2,228.22	1/4	2,570.79	1/4	2,913.35	1/4	3,255.83
1/2	201.04	1/2	525.13	1/2	866.75	1/2	1,207.64	1/2	1,550.21	1/2	1,892.79	1/2	2,235.36	1/2	2,577.93	1/2	2,920.49	1/2	3,262.96
3/4	207.30	3/4	532.27	3/4	873.82	3/4	1,214.78	3/4	1,557.35	3/4	1,899.92	3/4	2,242.49	3/4	2,585.06	3/4	2,927.62	3/4	3,270.10
9	213.56	9	539.40	9	880.90	9	1,221.92	9	1,564.49	9	1,907.06	9	2,249.63	9	2,592.20	9	2,934.76	9	3,277.23
1/4	219.90	1/4	546.54	1/4	887.97	1/4	1,229.05	1/4	1,571.63	1/4	1,914.20	1/4	2,256.77	1/4	2,599.34	1/4	2,941.90	1/4	3,284.37
1/2	226.25	1/2	553.68	1/2	895.05	1/2	1,236.19	1/2	1,578.76	1/2	1,921.33	1/2	2,263.90	1/2	2,606.48	1/2	2,949.03	1/2	3,291.50
3/4	232.59	3/4	560.81	3/4	902.13	3/4	1,243.33	3/4	1,585.90	3/4	1,928.47	3/4	2,271.04	3/4	2,613.61	3/4	2,956.17	3/4	3,298.64
10	238.94	10	567.95	10	909.20	10	1,250.46	10	1,593.04	10	1,935.61	10	2,278.18	10	2,620.75	10	2,963.31	10	3,305.77
1/4	245.37	1/4	575.09	1/4	916.28	1/4	1,257.60	1/4	1,600.17	1/4	1,942.74	1/4	2,285.32	1/4	2,627.89	1/4	2,970.44	1/4	3,312.90
1/2	251.79	1/2	582.22	1/2	923.36	1/2	1,264.74	1/2	1,607.31	1/2	1,949.88	1/2	2,292.45	1/2	2,635.02	1/2	2,977.58	1/2	3,320.04
3/4	258.22	3/4	589.36	3/4	930.43	3/4	1,271.88	3/4	1,614.45	3/4	1,957.02	3/4	2,299.59	3/4	2,642.16	3/4	2,984.72	3/4	3,327.17
11	264.65	11	596.50	11	937.51	11	1,279.01	11	1,621.58	11	1,964.15	11	2,306.73	11	2,649.30	11	2,991.85	11	3,334.31
1/4	271.16	1/4	603.63	1/4	944.59	1/4	1,286.15	1/4	1,628.72	1/4	1,971.29	1/4	2,313.86	1/4	2,656.43	1/4	2,998.99	1/4	3,341.44
1/2	277.67	1/2	610.77	1/2	951.66	1/2	1,293.29	1/2	1,635.86	1/2	1,978.43	1/2	2,321.00	1/2	2,663.57	1/2	3,006.12	1/2	3,348.58
3/4	284.18	3/4	617.91	3/4	958.74	3/4	1,300.42	3/4	1,642.99	3/4	1,985.57	3/4	2,328.14	3/4	2,670.71	3/4	3,013.26	3/4	3,355.71

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" 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 "HSM 3316"

formerly the
BARGE "FMT 3316"

1 PORT
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,362.85	0	3,705.33	0	4,047.88	0	4,389.78	0	4,730.77	0		0		0		0		0	
1/4	3,369.98	1/4	3,712.46	1/4	4,055.02	1/4	4,396.88	1/4	4,737.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,377.12	1/2	3,719.60	1/2	4,062.15	1/2	4,403.99	1/2	4,744.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,384.25	3/4	3,726.74	3/4	4,069.29	3/4	4,411.09	3/4	4,752.08	3/4		3/4		3/4		3/4		3/4	
1	3,391.38	1	3,733.87	1	4,076.42	1	4,418.19	1	4,759.18	1		1		1		1		1	
1/4	3,398.52	1/4	3,741.01	1/4	4,083.56	1/4	4,425.30	1/4	4,766.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,405.65	1/2	3,748.15	1/2	4,090.70	1/2	4,432.40	1/2	4,773.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,412.79	3/4	3,755.28	3/4	4,097.83	3/4	4,439.51	3/4	4,780.49	3/4		3/4		3/4		3/4		3/4	
2	3,419.92	2	3,762.42	2	4,104.97	2	4,446.61	2	4,787.60	2		2		2		2		2	
1/4	3,427.06	1/4	3,769.56	1/4	4,112.11	1/4	4,453.71	1/4	4,794.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,434.19	1/2	3,776.69	1/2	4,119.24	1/2	4,460.82	1/2	4,801.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,441.33	3/4	3,783.83	3/4	4,126.38	3/4	4,467.92	3/4	4,808.91	3/4		3/4		3/4		3/4		3/4	
3	3,448.46	3	3,790.96	3	4,133.52	3	4,475.03	3	4,816.01	3		3		3		3		3	
1/4	3,455.59	1/4	3,798.10	1/4	4,140.65	1/4	4,482.13	1/4	4,823.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,462.73	1/2	3,805.24	1/2	4,147.79	1/2	4,489.23	1/2	4,830.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,469.86	3/4	3,812.37	3/4	4,154.93	3/4	4,496.34	3/4	4,837.19	3/4		3/4		3/4		3/4		3/4	
4	3,477.00	4	3,819.51	4	4,162.06	4	4,503.44	4	4,844.25	4		4		4		4		4	
1/4	3,484.13	1/4	3,826.65	1/4	4,169.20	1/4	4,510.54	1/4	4,851.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,491.27	1/2	3,833.78	1/2	4,176.34	1/2	4,517.65	1/2	4,858.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,498.40	3/4	3,840.92	3/4	4,183.47	3/4	4,524.75	3/4	4,865.42	3/4		3/4		3/4		3/4		3/4	
5	3,505.54	5	3,848.06	5	4,190.61	5	4,531.86	5	4,872.48	5		5		5		5		5	
1/4	3,512.67	1/4	3,855.19	1/4	4,197.75	1/4	4,538.96	1/4	4,879.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,519.81	1/2	3,862.33	1/2	4,204.88	1/2	4,546.06	1/2	4,886.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,526.94	3/4	3,869.47	3/4	4,212.02	3/4	4,553.17	3/4	4,893.66	3/4		3/4		3/4		3/4		3/4	
6	3,534.07	6	3,876.60	6	4,219.15	6	4,560.27	6	4,900.72	6		6		6		6		6	
1/4	3,541.21	1/4	3,883.74	1/4	4,226.29	1/4	4,567.38	1/4	4,907.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,548.34	1/2	3,890.88	1/2	4,233.43	1/2	4,574.48	1/2	4,914.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.48	3/4	3,898.01	3/4	4,240.56	3/4	4,581.58	3/4	4,921.85	3/4		3/4		3/4		3/4		3/4	
7	3,562.61	7	3,905.15	7	4,247.70	7	4,588.69	7	4,928.90	7		7		7		7		7	
1/4	3,569.75	1/4	3,912.29	1/4	4,254.80	1/4	4,595.79	1/4	4,935.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,576.88	1/2	3,919.42	1/2	4,261.91	1/2	4,602.90	1/2	4,942.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.02	3/4	3,926.56	3/4	4,269.01	3/4	4,610.00	3/4	4,949.87	3/4		3/4		3/4		3/4		3/4	
8	3,591.15	8	3,933.69	8	4,276.12	8	4,617.10	8	4,956.86	8		8		8		8		8	
1/4	3,598.29	1/4	3,940.83	1/4	4,283.22	1/4	4,624.21	1/4	4,963.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,605.42	1/2	3,947.97	1/2	4,290.32	1/2	4,631.31	1/2	4,969.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,612.55	3/4	3,955.10	3/4	4,297.43	3/4	4,638.42	3/4	4,975.36	3/4		3/4		3/4		3/4		3/4	
9	3,619.69	9	3,962.24	9	4,304.53	9	4,645.52	9	4,981.53	9		9		9		9		9	
1/4	3,626.83	1/4	3,969.38	1/4	4,311.64	1/4	4,652.62	1/4	4,986.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,633.96	1/2	3,976.51	1/2	4,318.74	1/2	4,659.73	1/2	4,991.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,641.10	3/4	3,983.65	3/4	4,325.84	3/4	4,666.83	3/4	4,996.46	3/4		3/4		3/4		3/4		3/4	
10	3,648.23	10	3,990.79	10	4,332.95	10	4,673.93	10	5,001.44	10		10		10		10		10	
1/4	3,655.37	1/4	3,997.92	1/4	4,340.05	1/4	4,681.04	1/4	5,005.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.51	1/2	4,005.06	1/2	4,347.16	1/2	4,688.14	1/2	5,009.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.64	3/4	4,012.20	3/4	4,354.26	3/4	4,695.25	3/4	5,012.80	3/4		3/4		3/4		3/4		3/4	
11	3,676.78	11	4,019.33	11	4,361.36	11	4,702.35	11	5,016.59	11		11		11		11		11	
1/4	3,683.92	1/4	4,026.47	1/4	4,368.47	1/4	4,709.45	1/4	=====	1/4		1/4		1/4		1/4		1/4	
1/2	3,691.05	1/2	4,033.61	1/2	4,375.57	1/2	4,716.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.19	3/4	4,040.74	3/4	4,382.67	3/4	4,723.66	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

**1 STBD
INNAGE TABLE**

**HERMETIC
GAUGE HEIGHT 16'-04 1/2"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	14.67	0	291.37	0	626.57	0	969.77	0	1,313.11	0	1,656.53	0	1,999.94	0	2,343.36	0	2,686.77	0	3,030.16
1/4	17.60	1/4	297.98	1/4	633.73	1/4	976.91	1/4	1,320.27	1/4	1,663.68	1/4	2,007.10	1/4	2,350.51	1/4	2,693.93	1/4	3,037.31
1/2	20.52	1/2	304.59	1/2	640.88	1/2	984.06	1/2	1,327.42	1/2	1,670.84	1/2	2,014.25	1/2	2,357.67	1/2	2,701.08	1/2	3,044.46
3/4	23.45	3/4	311.20	3/4	648.04	3/4	991.20	3/4	1,334.57	3/4	1,677.99	3/4	2,021.41	3/4	2,364.82	3/4	2,708.23	3/4	3,051.61
1	26.37	1	317.81	1	655.19	1	998.35	1	1,341.73	1	1,685.15	1	2,028.56	1	2,371.98	1	2,715.39	1	3,058.76
1/4	31.16	1/4	324.51	1/4	662.35	1/4	1,005.50	1/4	1,348.88	1/4	1,692.30	1/4	2,035.72	1/4	2,379.13	1/4	2,722.54	1/4	3,065.92
1/2	35.96	1/2	331.20	1/2	669.50	1/2	1,012.64	1/2	1,356.04	1/2	1,699.45	1/2	2,042.87	1/2	2,386.29	1/2	2,729.70	1/2	3,073.07
3/4	40.75	3/4	337.89	3/4	676.65	3/4	1,019.79	3/4	1,363.19	3/4	1,706.61	3/4	2,050.02	3/4	2,393.44	3/4	2,736.85	3/4	3,080.22
2	45.55	2	344.59	2	683.81	2	1,026.93	2	1,370.35	2	1,713.76	2	2,057.18	2	2,400.60	2	2,744.00	2	3,087.37
1/4	51.29	1/4	351.37	1/4	690.96	1/4	1,034.09	1/4	1,377.50	1/4	1,720.92	1/4	2,064.33	1/4	2,407.75	1/4	2,751.16	1/4	3,094.52
1/2	57.02	1/2	358.14	1/2	698.12	1/2	1,041.24	1/2	1,384.66	1/2	1,728.07	1/2	2,071.49	1/2	2,414.90	1/2	2,758.31	1/2	3,101.68
3/4	62.76	3/4	364.92	3/4	705.27	3/4	1,048.40	3/4	1,391.81	3/4	1,735.23	3/4	2,078.64	3/4	2,422.06	3/4	2,765.47	3/4	3,108.83
3	68.50	3	371.70	3	712.42	3	1,055.55	3	1,398.97	3	1,742.38	3	2,085.80	3	2,429.21	3	2,772.62	3	3,115.98
1/4	74.34	1/4	378.56	1/4	719.58	1/4	1,062.70	1/4	1,406.12	1/4	1,749.54	1/4	2,092.95	1/4	2,436.37	1/4	2,779.77	1/4	3,123.13
1/2	80.19	1/2	385.42	1/2	726.73	1/2	1,069.86	1/2	1,413.27	1/2	1,756.69	1/2	2,100.11	1/2	2,443.52	1/2	2,786.93	1/2	3,130.28
3/4	86.04	3/4	392.28	3/4	733.89	3/4	1,077.01	3/4	1,420.43	3/4	1,763.84	3/4	2,107.26	3/4	2,450.68	3/4	2,794.08	3/4	3,137.44
4	91.89	4	399.15	4	741.04	4	1,084.17	4	1,427.58	4	1,771.00	4	2,114.42	4	2,457.83	4	2,801.24	4	3,144.59
1/4	97.83	1/4	406.09	1/4	748.20	1/4	1,091.32	1/4	1,434.74	1/4	1,778.15	1/4	2,121.57	1/4	2,464.99	1/4	2,808.39	1/4	3,151.74
1/2	103.77	1/2	413.04	1/2	755.35	1/2	1,098.48	1/2	1,441.89	1/2	1,785.31	1/2	2,128.72	1/2	2,472.14	1/2	2,815.54	1/2	3,158.89
3/4	109.71	3/4	419.98	3/4	762.50	3/4	1,105.63	3/4	1,449.05	3/4	1,792.46	3/4	2,135.88	3/4	2,479.29	3/4	2,822.70	3/4	3,166.05
5	115.65	5	426.93	5	769.66	5	1,112.79	5	1,456.20	5	1,799.62	5	2,143.03	5	2,486.45	5	2,829.85	5	3,173.20
1/4	121.67	1/4	433.95	1/4	776.81	1/4	1,119.94	1/4	1,463.36	1/4	1,806.77	1/4	2,150.19	1/4	2,493.60	1/4	2,837.01	1/4	3,180.35
1/2	127.70	1/2	440.98	1/2	783.97	1/2	1,127.09	1/2	1,470.51	1/2	1,813.93	1/2	2,157.34	1/2	2,500.76	1/2	2,844.16	1/2	3,187.50
3/4	133.72	3/4	448.01	3/4	791.12	3/4	1,134.25	3/4	1,477.66	3/4	1,821.08	3/4	2,164.50	3/4	2,507.91	3/4	2,851.31	3/4	3,194.65
6	139.75	6	455.04	6	798.28	6	1,141.40	6	1,484.82	6	1,828.24	6	2,171.65	6	2,515.07	6	2,858.47	6	3,201.81
1/4	145.85	1/4	462.15	1/4	805.42	1/4	1,148.56	1/4	1,491.97	1/4	1,835.39	1/4	2,178.81	1/4	2,522.22	1/4	2,865.62	1/4	3,208.96
1/2	151.96	1/2	469.27	1/2	812.57	1/2	1,155.71	1/2	1,499.13	1/2	1,842.54	1/2	2,185.96	1/2	2,529.38	1/2	2,872.78	1/2	3,216.11
3/4	158.07	3/4	476.38	3/4	819.71	3/4	1,162.87	3/4	1,506.28	3/4	1,849.70	3/4	2,193.11	3/4	2,536.53	3/4	2,879.93	3/4	3,223.26
7	164.18	7	483.49	7	826.86	7	1,170.02	7	1,513.44	7	1,856.85	7	2,200.27	7	2,543.69	7	2,887.08	7	3,230.41
1/4	170.37	1/4	490.64	1/4	834.00	1/4	1,177.18	1/4	1,520.59	1/4	1,864.01	1/4	2,207.42	1/4	2,550.84	1/4	2,894.24	1/4	3,237.57
1/2	176.56	1/2	497.80	1/2	841.15	1/2	1,184.33	1/2	1,527.75	1/2	1,871.16	1/2	2,214.58	1/2	2,557.99	1/2	2,901.39	1/2	3,244.72
3/4	182.76	3/4	504.95	3/4	848.29	3/4	1,191.48	3/4	1,534.90	3/4	1,878.32	3/4	2,221.73	3/4	2,565.15	3/4	2,908.55	3/4	3,251.87
8	188.95	8	512.11	8	855.44	8	1,198.64	8	1,542.06	8	1,885.47	8	2,228.89	8	2,572.30	8	2,915.70	8	3,259.02
1/4	195.22	1/4	519.26	1/4	862.58	1/4	1,205.79	1/4	1,549.21	1/4	1,892.63	1/4	2,236.04	1/4	2,579.46	1/4	2,922.85	1/4	3,266.17
1/2	201.50	1/2	526.42	1/2	869.73	1/2	1,212.95	1/2	1,556.36	1/2	1,899.78	1/2	2,243.20	1/2	2,586.61	1/2	2,930.01	1/2	3,273.33
3/4	207.78	3/4	533.57	3/4	876.88	3/4	1,220.10	3/4	1,563.52	3/4	1,906.93	3/4	2,250.35	3/4	2,593.77	3/4	2,937.16	3/4	3,280.48
9	214.05	9	540.72	9	884.02	9	1,227.26	9	1,570.67	9	1,914.09	9	2,257.51	9	2,600.92	9	2,944.32	9	3,287.63
1/4	220.41	1/4	547.88	1/4	891.17	1/4	1,234.41	1/4	1,577.83	1/4	1,921.24	1/4	2,264.66	1/4	2,608.08	1/4	2,951.47	1/4	3,294.78
1/2	226.77	1/2	555.03	1/2	898.31	1/2	1,241.57	1/2	1,584.98	1/2	1,928.40	1/2	2,271.81	1/2	2,615.23	1/2	2,958.62	1/2	3,301.94
3/4	233.13	3/4	562.19	3/4	905.46	3/4	1,248.72	3/4	1,592.14	3/4	1,935.55	3/4	2,278.97	3/4	2,622.38	3/4	2,965.78	3/4	3,309.09
10	239.49	10	569.34	10	912.60	10	1,255.88	10	1,599.29	10	1,942.71	10	2,286.12	10	2,629.54	10	2,972.93	10	3,316.24
1/4	245.93	1/4	576.50	1/4	919.75	1/4	1,263.03	1/4	1,606.45	1/4	1,949.86	1/4	2,293.28	1/4	2,636.69	1/4	2,980.09	1/4	3,323.39
1/2	252.38	1/2	583.65	1/2	926.89	1/2	1,270.18	1/2	1,613.60	1/2	1,957.02	1/2	2,300.43	1/2	2,643.85	1/2	2,987.24	1/2	3,330.54
3/4	258.82	3/4	590.80	3/4	934.04	3/4	1,277.34	3/4	1,620.75	3/4	1,964.17	3/4	2,307.59	3/4	2,651.00	3/4	2,994.39	3/4	3,337.70
11	265.26	11	597.96	11	941.19	11	1,284.49	11	1,627.91	11	1,971.33	11	2,314.74	11	2,658.16	11	3,001.55	11	3,344.85
1/4	271.79	1/4	605.11	1/4	948.33	1/4	1,291.65	1/4	1,635.06	1/4	1,978.48	1/4	2,321.90	1/4	2,665.31	1/4	3,008.70	1/4	3,352.00
1/2	278.32	1/2	612.27	1/2	955.48	1/2	1,298.80	1/2	1,642.22	1/2	1,985.63	1/2	2,329.05	1/2	2,672.46	1/2	3,015.85	1/2	3,359.15
3/4	284.84	3/4	619.42	3/4	962.62	3/4	1,305.96	3/4	1,649.37	3/4	1,992.79	3/4	2,336.20	3/4	2,679.62	3/4	3,023.00	3/4	3,366.30

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" 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 "HSM 3316"

formerly the
BARGE "FMT 3316"

1 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,373.46	0	3,716.78	0	4,060.18	0	4,402.92	0	4,744.74	0		0		0		0		0	
1/4	3,380.61	1/4	3,723.94	1/4	4,067.33	1/4	4,410.04	1/4	4,751.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,387.76	1/2	3,731.09	1/2	4,074.49	1/2	4,417.16	1/2	4,758.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,394.91	3/4	3,738.24	3/4	4,081.64	3/4	4,424.28	3/4	4,766.10	3/4		3/4		3/4		3/4		3/4	
1	3,402.06	1	3,745.40	1	4,088.79	1	4,431.40	1	4,773.23	1		1		1		1		1	
1/4	3,409.22	1/4	3,752.55	1/4	4,095.95	1/4	4,438.53	1/4	4,780.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,416.37	1/2	3,759.71	1/2	4,103.10	1/2	4,445.65	1/2	4,787.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,423.52	3/4	3,766.86	3/4	4,110.26	3/4	4,452.77	3/4	4,794.59	3/4		3/4		3/4		3/4		3/4	
2	3,430.67	2	3,774.01	2	4,117.41	2	4,459.89	2	4,801.71	2		2		2		2		2	
1/4	3,437.83	1/4	3,781.17	1/4	4,124.56	1/4	4,467.01	1/4	4,808.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,444.98	1/2	3,788.32	1/2	4,131.72	1/2	4,474.13	1/2	4,815.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,452.13	3/4	3,795.48	3/4	4,138.87	3/4	4,481.25	3/4	4,823.08	3/4		3/4		3/4		3/4		3/4	
3	3,459.28	3	3,802.63	3	4,146.03	3	4,488.37	3	4,830.20	3		3		3		3		3	
1/4	3,466.43	1/4	3,809.78	1/4	4,153.18	1/4	4,495.50	1/4	4,837.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,473.59	1/2	3,816.94	1/2	4,160.34	1/2	4,502.62	1/2	4,844.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,480.74	3/4	3,824.09	3/4	4,167.49	3/4	4,509.74	3/4	4,851.43	3/4		3/4		3/4		3/4		3/4	
4	3,487.89	4	3,831.25	4	4,174.64	4	4,516.86	4	4,858.50	4		4		4		4		4	
1/4	3,495.04	1/4	3,838.40	1/4	4,181.80	1/4	4,523.98	1/4	4,865.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,502.19	1/2	3,845.55	1/2	4,188.95	1/2	4,531.10	1/2	4,872.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,509.35	3/4	3,852.71	3/4	4,196.11	3/4	4,538.22	3/4	4,879.73	3/4		3/4		3/4		3/4		3/4	
5	3,516.50	5	3,859.86	5	4,203.26	5	4,545.34	5	4,886.81	5		5		5		5		5	
1/4	3,523.65	1/4	3,867.02	1/4	4,210.41	1/4	4,552.47	1/4	4,893.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,530.80	1/2	3,874.17	1/2	4,217.57	1/2	4,559.59	1/2	4,900.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,537.95	3/4	3,881.33	3/4	4,224.72	3/4	4,566.71	3/4	4,908.04	3/4		3/4		3/4		3/4		3/4	
6	3,545.11	6	3,888.48	6	4,231.88	6	4,573.83	6	4,915.11	6		6		6		6		6	
1/4	3,552.26	1/4	3,895.63	1/4	4,239.03	1/4	4,580.95	1/4	4,922.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,559.41	1/2	3,902.79	1/2	4,246.18	1/2	4,588.07	1/2	4,929.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.56	3/4	3,909.94	3/4	4,253.34	3/4	4,595.19	3/4	4,936.30	3/4		3/4		3/4		3/4		3/4	
7	3,573.72	7	3,917.10	7	4,260.49	7	4,602.32	7	4,943.36	7		7		7		7		7	
1/4	3,580.87	1/4	3,924.25	1/4	4,267.61	1/4	4,609.44	1/4	4,950.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,588.02	1/2	3,931.40	1/2	4,274.74	1/2	4,616.56	1/2	4,957.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,595.17	3/4	3,938.56	3/4	4,281.86	3/4	4,623.68	3/4	4,964.38	3/4		3/4		3/4		3/4		3/4	
8	3,602.32	8	3,945.71	8	4,288.98	8	4,630.80	8	4,971.39	8		8		8		8		8	
1/4	3,609.48	1/4	3,952.87	1/4	4,296.10	1/4	4,637.92	1/4	4,977.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,616.63	1/2	3,960.02	1/2	4,303.22	1/2	4,645.04	1/2	4,983.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,623.78	3/4	3,967.17	3/4	4,310.34	3/4	4,652.16	3/4	4,989.93	3/4		3/4		3/4		3/4		3/4	
9	3,630.93	9	3,974.33	9	4,317.46	9	4,659.29	9	4,996.12	9		9		9		9		9	
1/4	3,638.09	1/4	3,981.48	1/4	4,324.58	1/4	4,666.41	1/4	5,001.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,645.24	1/2	3,988.64	1/2	4,331.71	1/2	4,673.53	1/2	5,006.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,652.39	3/4	3,995.79	3/4	4,338.83	3/4	4,680.65	3/4	5,011.09	3/4		3/4		3/4		3/4		3/4	
10	3,659.55	10	4,002.95	10	4,345.95	10	4,687.77	10	5,016.07	10		10		10		10		10	
1/4	3,666.70	1/4	4,010.10	1/4	4,353.07	1/4	4,694.89	1/4	5,019.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,673.86	1/2	4,017.25	1/2	4,360.19	1/2	4,702.01	1/2	5,023.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.01	3/4	4,024.41	3/4	4,367.31	3/4	4,709.13	3/4	5,027.47	3/4		3/4		3/4		3/4		3/4	
11	3,688.16	11	4,031.56	11	4,374.43	11	4,716.26	11	5,031.26	11		11		11		11		11	
1/4	3,695.32	1/4	4,038.72	1/4	4,381.55	1/4	4,723.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.47	1/2	4,045.87	1/2	4,388.68	1/2	4,730.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.63	3/4	4,053.02	3/4	4,395.80	3/4	4,737.62	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

2 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	14.67	0	343.56	0	686.95	0	1,020.63	0	1,359.24	0	1,702.65	0	2,046.06	0	2,389.46	0	2,732.87	0	3,076.27
1/4	19.14	1/4	350.71	1/4	694.10	1/4	1,027.48	1/4	1,366.40	1/4	1,709.81	1/4	2,053.21	1/4	2,396.62	1/4	2,740.02	1/4	3,083.42
1/2	23.62	1/2	357.87	1/2	701.26	1/2	1,034.32	1/2	1,373.55	1/2	1,716.96	1/2	2,060.37	1/2	2,403.77	1/2	2,747.18	1/2	3,090.57
3/4	28.09	3/4	365.02	3/4	708.41	3/4	1,041.17	3/4	1,380.71	3/4	1,724.11	3/4	2,067.52	3/4	2,410.93	3/4	2,754.33	3/4	3,097.72
1	32.56	1	372.17	1	715.57	1	1,048.02	1	1,387.86	1	1,731.27	1	2,074.67	1	2,418.08	1	2,761.49	1	3,104.88
1/4	38.82	1/4	379.33	1/4	722.72	1/4	1,054.86	1/4	1,395.02	1/4	1,738.42	1/4	2,081.83	1/4	2,425.24	1/4	2,768.64	1/4	3,112.03
1/2	45.07	1/2	386.48	1/2	729.87	1/2	1,061.71	1/2	1,402.17	1/2	1,745.58	1/2	2,088.98	1/2	2,432.39	1/2	2,775.80	1/2	3,119.18
3/4	51.33	3/4	393.64	3/4	737.03	3/4	1,068.55	3/4	1,409.32	3/4	1,752.73	3/4	2,096.14	3/4	2,439.54	3/4	2,782.95	3/4	3,126.33
2	57.59	2	400.79	2	744.18	2	1,075.40	2	1,416.48	2	1,759.89	2	2,103.29	2	2,446.70	2	2,790.10	2	3,133.48
1/4	64.71	1/4	407.94	1/4	751.34	1/4	1,082.26	1/4	1,423.63	1/4	1,767.04	1/4	2,110.45	1/4	2,453.85	1/4	2,797.26	1/4	3,140.64
1/2	71.83	1/2	415.10	1/2	758.49	1/2	1,089.11	1/2	1,430.79	1/2	1,774.19	1/2	2,117.60	1/2	2,461.01	1/2	2,804.41	1/2	3,147.79
3/4	78.94	3/4	422.25	3/4	765.64	3/4	1,095.97	3/4	1,437.94	3/4	1,781.35	3/4	2,124.75	3/4	2,468.16	3/4	2,811.57	3/4	3,154.94
3	86.06	3	429.41	3	772.80	3	1,102.82	3	1,445.10	3	1,788.50	3	2,131.91	3	2,475.32	3	2,818.72	3	3,162.09
1/4	93.21	1/4	436.56	1/4	779.95	1/4	1,109.69	1/4	1,452.25	1/4	1,795.66	1/4	2,139.06	1/4	2,482.47	1/4	2,825.88	1/4	3,169.25
1/2	100.35	1/2	443.71	1/2	787.11	1/2	1,116.56	1/2	1,459.40	1/2	1,802.81	1/2	2,146.22	1/2	2,489.62	1/2	2,833.03	1/2	3,176.40
3/4	107.49	3/4	450.87	3/4	794.26	3/4	1,123.44	3/4	1,466.56	3/4	1,809.97	3/4	2,153.37	3/4	2,496.78	3/4	2,840.18	3/4	3,183.55
4	114.64	4	458.02	4	801.41	4	1,130.31	4	1,473.71	4	1,817.12	4	2,160.53	4	2,503.93	4	2,847.34	4	3,190.70
1/4	121.79	1/4	465.18	1/4	808.28	1/4	1,137.46	1/4	1,480.87	1/4	1,824.27	1/4	2,167.68	1/4	2,511.09	1/4	2,854.49	1/4	3,197.85
1/2	128.94	1/2	472.33	1/2	815.16	1/2	1,144.62	1/2	1,488.02	1/2	1,831.43	1/2	2,174.83	1/2	2,518.24	1/2	2,861.65	1/2	3,205.01
3/4	136.09	3/4	479.48	3/4	822.03	3/4	1,151.77	3/4	1,495.18	3/4	1,838.58	3/4	2,181.99	3/4	2,525.40	3/4	2,868.80	3/4	3,212.16
5	143.25	5	486.64	5	828.90	5	1,158.92	5	1,502.33	5	1,845.74	5	2,189.14	5	2,532.55	5	2,875.96	5	3,219.31
1/4	150.40	1/4	493.79	1/4	835.75	1/4	1,166.08	1/4	1,509.49	1/4	1,852.89	1/4	2,196.30	1/4	2,539.70	1/4	2,883.11	1/4	3,226.46
1/2	157.55	1/2	500.95	1/2	842.61	1/2	1,173.23	1/2	1,516.64	1/2	1,860.05	1/2	2,203.45	1/2	2,546.86	1/2	2,890.26	1/2	3,233.61
3/4	164.71	3/4	508.10	3/4	849.46	3/4	1,180.39	3/4	1,523.79	3/4	1,867.20	3/4	2,210.61	3/4	2,554.01	3/4	2,897.42	3/4	3,240.77
6	171.86	6	515.25	6	856.32	6	1,187.54	6	1,530.95	6	1,874.35	6	2,217.76	6	2,561.17	6	2,904.57	6	3,247.92
1/4	179.02	1/4	522.41	1/4	863.16	1/4	1,194.70	1/4	1,538.10	1/4	1,881.51	1/4	2,224.91	1/4	2,568.32	1/4	2,911.73	1/4	3,255.07
1/2	186.17	1/2	529.56	1/2	870.01	1/2	1,201.85	1/2	1,545.26	1/2	1,888.66	1/2	2,232.07	1/2	2,575.48	1/2	2,918.88	1/2	3,262.22
3/4	193.32	3/4	536.72	3/4	876.85	3/4	1,209.00	3/4	1,552.41	3/4	1,895.82	3/4	2,239.22	3/4	2,582.63	3/4	2,926.04	3/4	3,269.37
7	200.48	7	543.87	7	883.70	7	1,216.16	7	1,559.57	7	1,902.97	7	2,246.38	7	2,589.78	7	2,933.19	7	3,276.53
1/4	207.63	1/4	551.02	1/4	890.55	1/4	1,223.31	1/4	1,566.72	1/4	1,910.13	1/4	2,253.53	1/4	2,596.94	1/4	2,940.35	1/4	3,283.68
1/2	214.79	1/2	558.18	1/2	897.39	1/2	1,230.47	1/2	1,573.87	1/2	1,917.28	1/2	2,260.69	1/2	2,604.09	1/2	2,947.50	1/2	3,290.83
3/4	221.94	3/4	565.33	3/4	904.24	3/4	1,237.62	3/4	1,581.03	3/4	1,924.43	3/4	2,267.84	3/4	2,611.25	3/4	2,954.65	3/4	3,297.98
8	229.09	8	572.49	8	911.09	8	1,244.78	8	1,588.18	8	1,931.59	8	2,275.00	8	2,618.40	8	2,961.81	8	3,305.14
1/4	236.25	1/4	579.64	1/4	917.93	1/4	1,251.93	1/4	1,595.34	1/4	1,938.74	1/4	2,282.15	1/4	2,625.56	1/4	2,968.96	1/4	3,312.29
1/2	243.40	1/2	586.79	1/2	924.78	1/2	1,259.08	1/2	1,602.49	1/2	1,945.90	1/2	2,289.30	1/2	2,632.71	1/2	2,976.12	1/2	3,319.44
3/4	250.56	3/4	593.95	3/4	931.62	3/4	1,266.24	3/4	1,609.65	3/4	1,953.05	3/4	2,296.46	3/4	2,639.86	3/4	2,983.27	3/4	3,326.59
9	257.71	9	601.10	9	938.47	9	1,273.39	9	1,616.80	9	1,960.21	9	2,303.61	9	2,647.02	9	2,990.43	9	3,333.74
1/4	264.86	1/4	608.26	1/4	945.32	1/4	1,280.55	1/4	1,623.95	1/4	1,967.36	1/4	2,310.77	1/4	2,654.17	1/4	2,997.58	1/4	3,340.90
1/2	272.02	1/2	615.41	1/2	952.16	1/2	1,287.70	1/2	1,631.11	1/2	1,974.51	1/2	2,317.92	1/2	2,661.33	1/2	3,004.73	1/2	3,348.05
3/4	279.17	3/4	622.56	3/4	959.01	3/4	1,294.86	3/4	1,638.26	3/4	1,981.67	3/4	2,325.08	3/4	2,668.48	3/4	3,011.89	3/4	3,355.20
10	286.33	10	629.72	10	965.86	10	1,302.01	10	1,645.42	10	1,988.82	10	2,332.23	10	2,675.64	10	3,019.04	10	3,362.35
1/4	293.48	1/4	636.87	1/4	972.70	1/4	1,309.16	1/4	1,652.57	1/4	1,995.98	1/4	2,339.38	1/4	2,682.79	1/4	3,026.20	1/4	3,369.50
1/2	300.63	1/2	644.03	1/2	979.55	1/2	1,316.32	1/2	1,659.73	1/2	2,003.13	1/2	2,346.54	1/2	2,689.94	1/2	3,033.35	1/2	3,376.66
3/4	307.79	3/4	651.18	3/4	986.40	3/4	1,323.47	3/4	1,666.88	3/4	2,010.29	3/4	2,353.69	3/4	2,697.10	3/4	3,040.51	3/4	3,383.81
11	314.94	11	658.33	11	993.24	11	1,330.63	11	1,674.03	11	2,017.44	11	2,360.85	11	2,704.25	11	3,047.66	11	3,390.96
1/4	322.10	1/4	665.49	1/4	1,000.09	1/4	1,337.78	1/4	1,681.19	1/4	2,024.59	1/4	2,368.00	1/4	2,711.41	1/4	3,054.81	1/4	3,398.11
1/2	329.25	1/2	672.64	1/2	1,006.94	1/2	1,344.94	1/2	1,688.34	1/2	2,031.75	1/2	2,375.16	1/2	2,718.56	1/2	3,061.96	1/2	3,405.26
3/4	336.40	3/4	679.80	3/4	1,013.78	3/4	1,352.09	3/4	1,695.50	3/4	2,038.90	3/4	2,382.31	3/4	2,725.72	3/4	3,069.12	3/4	3,412.42

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-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 "HSM 3316"
formerly the
BARGE "FMT 3316"

2 PORT
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,419.57	0	3,762.87	0	4,106.17	0	4,448.82	0	4,790.55	0		0		0		0		0	
1/4	3,426.72	1/4	3,770.02	1/4	4,113.32	1/4	4,455.94	1/4	4,797.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,433.87	1/2	3,777.17	1/2	4,120.47	1/2	4,463.06	1/2	4,804.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,441.03	3/4	3,784.33	3/4	4,127.63	3/4	4,470.18	3/4	4,811.91	3/4		3/4		3/4		3/4		3/4	
1	3,448.18	1	3,791.48	1	4,134.78	1	4,477.29	1	4,819.03	1		1		1		1		1	
1/4	3,455.33	1/4	3,798.63	1/4	4,141.93	1/4	4,484.41	1/4	4,826.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,462.48	1/2	3,805.78	1/2	4,149.08	1/2	4,491.53	1/2	4,833.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,469.63	3/4	3,812.93	3/4	4,156.23	3/4	4,498.65	3/4	4,840.38	3/4		3/4		3/4		3/4		3/4	
2	3,476.79	2	3,820.09	2	4,163.39	2	4,505.77	2	4,847.50	2		2		2		2		2	
1/4	3,483.94	1/4	3,827.24	1/4	4,170.54	1/4	4,512.89	1/4	4,854.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,491.09	1/2	3,834.39	1/2	4,177.69	1/2	4,520.01	1/2	4,861.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,498.24	3/4	3,841.54	3/4	4,184.84	3/4	4,527.13	3/4	4,868.86	3/4		3/4		3/4		3/4		3/4	
3	3,505.39	3	3,848.69	3	4,192.00	3	4,534.25	3	4,875.98	3		3		3		3		3	
1/4	3,512.55	1/4	3,855.85	1/4	4,199.15	1/4	4,541.37	1/4	4,883.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,519.70	1/2	3,863.00	1/2	4,206.30	1/2	4,548.49	1/2	4,890.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,526.85	3/4	3,870.15	3/4	4,213.45	3/4	4,555.61	3/4	4,897.21	3/4		3/4		3/4		3/4		3/4	
4	3,534.00	4	3,877.30	4	4,220.60	4	4,562.73	4	4,904.28	4		4		4		4		4	
1/4	3,541.15	1/4	3,884.46	1/4	4,227.76	1/4	4,569.85	1/4	4,911.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,548.31	1/2	3,891.61	1/2	4,234.91	1/2	4,576.97	1/2	4,918.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.46	3/4	3,898.76	3/4	4,242.06	3/4	4,584.09	3/4	4,925.51	3/4		3/4		3/4		3/4		3/4	
5	3,562.61	5	3,905.91	5	4,249.21	5	4,591.21	5	4,932.58	5		5		5		5		5	
1/4	3,569.76	1/4	3,913.06	1/4	4,256.36	1/4	4,598.32	1/4	4,939.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,576.91	1/2	3,920.22	1/2	4,263.52	1/2	4,605.44	1/2	4,946.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.07	3/4	3,927.37	3/4	4,270.67	3/4	4,612.56	3/4	4,953.80	3/4		3/4		3/4		3/4		3/4	
6	3,591.22	6	3,934.52	6	4,277.82	6	4,619.68	6	4,960.87	6		6		6		6		6	
1/4	3,598.37	1/4	3,941.67	1/4	4,284.97	1/4	4,626.80	1/4	4,967.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,605.52	1/2	3,948.82	1/2	4,292.12	1/2	4,633.92	1/2	4,974.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,612.68	3/4	3,955.98	3/4	4,299.28	3/4	4,641.04	3/4	4,982.05	3/4		3/4		3/4		3/4		3/4	
7	3,619.83	7	3,963.13	7	4,306.43	7	4,648.16	7	4,989.11	7		7		7		7		7	
1/4	3,626.98	1/4	3,970.28	1/4	4,313.55	1/4	4,655.28	1/4	4,996.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,634.13	1/2	3,977.43	1/2	4,320.67	1/2	4,662.40	1/2	5,003.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,641.28	3/4	3,984.58	3/4	4,327.79	3/4	4,669.52	3/4	5,010.13	3/4		3/4		3/4		3/4		3/4	
8	3,648.44	8	3,991.74	8	4,334.91	8	4,676.64	8	5,017.13	8		8		8		8		8	
1/4	3,655.59	1/4	3,998.89	1/4	4,342.03	1/4	4,683.76	1/4	5,023.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.74	1/2	4,006.04	1/2	4,349.15	1/2	4,690.88	1/2	5,029.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.89	3/4	4,013.19	3/4	4,356.26	3/4	4,698.00	3/4	5,035.67	3/4		3/4		3/4		3/4		3/4	
9	3,677.04	9	4,020.35	9	4,363.38	9	4,705.12	9	5,041.85	9		9		9		9		9	
1/4	3,684.20	1/4	4,027.50	1/4	4,370.50	1/4	4,712.23	1/4	5,046.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,691.35	1/2	4,034.65	1/2	4,377.62	1/2	4,719.35	1/2	5,051.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.50	3/4	4,041.80	3/4	4,384.74	3/4	4,726.47	3/4	5,056.82	3/4		3/4		3/4		3/4		3/4	
10	3,705.65	10	4,048.95	10	4,391.86	10	4,733.59	10	5,061.81	10		10		10		10		10	
1/4	3,712.80	1/4	4,056.11	1/4	4,398.98	1/4	4,740.71	1/4	5,066.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.96	1/2	4,063.26	1/2	4,406.10	1/2	4,747.83	1/2	5,069.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,727.11	3/4	4,070.41	3/4	4,413.22	3/4	4,754.95	3/4	5,073.19	3/4		3/4		3/4		3/4		3/4	
11	3,734.26	11	4,077.56	11	4,420.34	11	4,762.07	11	5,076.99	11		11		11		11		11	
1/4	3,741.41	1/4	4,084.71	1/4	4,427.46	1/4	4,769.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,748.57	1/2	4,091.87	1/2	4,434.58	1/2	4,776.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,755.72	3/4	4,099.02	3/4	4,441.70	3/4	4,783.43	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020

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





BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

2 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	14.70	0	344.12	0	688.07	0	1,031.67	0	1,375.50	0	1,719.47	0	2,063.44	0	2,407.40	0	2,751.37	0	3,095.33
1/4	19.18	1/4	351.29	1/4	695.24	1/4	1,038.82	1/4	1,382.67	1/4	1,726.63	1/4	2,070.60	1/4	2,414.57	1/4	2,758.54	1/4	3,102.50
1/2	23.65	1/2	358.45	1/2	702.41	1/2	1,045.97	1/2	1,389.83	1/2	1,733.80	1/2	2,077.77	1/2	2,421.74	1/2	2,765.70	1/2	3,109.66
3/4	28.13	3/4	365.62	3/4	709.57	3/4	1,053.13	3/4	1,397.00	3/4	1,740.97	3/4	2,084.93	3/4	2,428.90	3/4	2,772.87	3/4	3,116.82
1	32.61	1	372.78	1	716.74	1	1,060.28	1	1,404.16	1	1,748.13	1	2,092.10	1	2,436.07	1	2,780.04	1	3,123.99
1/4	38.88	1/4	379.95	1/4	723.90	1/4	1,067.43	1/4	1,411.33	1/4	1,755.30	1/4	2,099.27	1/4	2,443.23	1/4	2,787.20	1/4	3,131.15
1/2	45.15	1/2	387.12	1/2	731.07	1/2	1,074.58	1/2	1,418.50	1/2	1,762.46	1/2	2,106.43	1/2	2,450.40	1/2	2,794.37	1/2	3,138.31
3/4	51.42	3/4	394.28	3/4	738.23	3/4	1,081.73	3/4	1,425.66	3/4	1,769.63	3/4	2,113.60	3/4	2,457.57	3/4	2,801.53	3/4	3,145.48
2	57.69	2	401.45	2	745.40	2	1,088.88	2	1,432.83	2	1,776.80	2	2,120.76	2	2,464.73	2	2,808.70	2	3,152.64
1/4	64.82	1/4	408.61	1/4	752.57	1/4	1,096.04	1/4	1,439.99	1/4	1,783.96	1/4	2,127.93	1/4	2,471.90	1/4	2,815.87	1/4	3,159.81
1/2	71.94	1/2	415.78	1/2	759.73	1/2	1,103.20	1/2	1,447.16	1/2	1,791.13	1/2	2,135.10	1/2	2,479.06	1/2	2,823.03	1/2	3,166.97
3/4	79.07	3/4	422.94	3/4	766.90	3/4	1,110.36	3/4	1,454.33	3/4	1,798.29	3/4	2,142.26	3/4	2,486.23	3/4	2,830.20	3/4	3,174.13
3	86.20	3	430.11	3	774.06	3	1,117.52	3	1,461.49	3	1,805.46	3	2,149.43	3	2,493.40	3	2,837.36	3	3,181.30
1/4	93.36	1/4	437.28	1/4	781.23	1/4	1,124.69	1/4	1,468.66	1/4	1,812.63	1/4	2,156.59	1/4	2,500.56	1/4	2,844.53	1/4	3,188.46
1/2	100.51	1/2	444.44	1/2	788.39	1/2	1,131.86	1/2	1,475.82	1/2	1,819.79	1/2	2,163.76	1/2	2,507.73	1/2	2,851.70	1/2	3,195.62
3/4	107.67	3/4	451.61	3/4	795.56	3/4	1,139.02	3/4	1,482.99	3/4	1,826.96	3/4	2,170.93	3/4	2,514.89	3/4	2,858.86	3/4	3,202.79
4	114.82	4	458.77	4	802.73	4	1,146.19	4	1,490.16	4	1,834.12	4	2,178.09	4	2,522.06	4	2,866.03	4	3,209.95
1/4	121.99	1/4	465.94	1/4	809.89	1/4	1,153.35	1/4	1,497.32	1/4	1,841.29	1/4	2,185.26	1/4	2,529.23	1/4	2,873.19	1/4	3,217.11
1/2	129.15	1/2	473.10	1/2	817.06	1/2	1,160.52	1/2	1,504.49	1/2	1,848.46	1/2	2,192.42	1/2	2,536.39	1/2	2,880.36	1/2	3,224.28
3/4	136.32	3/4	480.27	3/4	824.22	3/4	1,167.69	3/4	1,511.65	3/4	1,855.62	3/4	2,199.59	3/4	2,543.56	3/4	2,887.53	3/4	3,231.44
5	143.48	5	487.43	5	831.39	5	1,174.85	5	1,518.82	5	1,862.79	5	2,206.76	5	2,550.72	5	2,894.69	5	3,238.61
1/4	150.65	1/4	494.60	1/4	838.55	1/4	1,182.02	1/4	1,525.99	1/4	1,869.95	1/4	2,213.92	1/4	2,557.89	1/4	2,901.86	1/4	3,245.77
1/2	157.81	1/2	501.77	1/2	845.71	1/2	1,189.18	1/2	1,533.15	1/2	1,877.12	1/2	2,221.09	1/2	2,565.06	1/2	2,909.02	1/2	3,252.93
3/4	164.98	3/4	508.93	3/4	852.87	3/4	1,196.35	3/4	1,540.32	3/4	1,884.29	3/4	2,228.25	3/4	2,572.22	3/4	2,916.19	3/4	3,260.10
6	172.14	6	516.10	6	860.03	6	1,203.52	6	1,547.48	6	1,891.45	6	2,235.42	6	2,579.39	6	2,923.36	6	3,267.26
1/4	179.31	1/4	523.26	1/4	867.18	1/4	1,210.68	1/4	1,554.65	1/4	1,898.62	1/4	2,242.59	1/4	2,586.55	1/4	2,930.52	1/4	3,274.42
1/2	186.48	1/2	530.43	1/2	874.33	1/2	1,217.85	1/2	1,561.82	1/2	1,905.78	1/2	2,249.75	1/2	2,593.72	1/2	2,937.69	1/2	3,281.59
3/4	193.64	3/4	537.59	3/4	881.48	3/4	1,225.01	3/4	1,568.98	3/4	1,912.95	3/4	2,256.92	3/4	2,600.89	3/4	2,944.85	3/4	3,288.75
7	200.81	7	544.76	7	888.63	7	1,232.18	7	1,576.15	7	1,920.12	7	2,264.08	7	2,608.05	7	2,952.02	7	3,295.92
1/4	207.97	1/4	551.93	1/4	895.79	1/4	1,239.35	1/4	1,583.31	1/4	1,927.28	1/4	2,271.25	1/4	2,615.22	1/4	2,959.19	1/4	3,303.08
1/2	215.14	1/2	559.09	1/2	902.94	1/2	1,246.51	1/2	1,590.48	1/2	1,934.45	1/2	2,278.42	1/2	2,622.38	1/2	2,966.35	1/2	3,310.24
3/4	222.30	3/4	566.26	3/4	910.09	3/4	1,253.68	3/4	1,597.65	3/4	1,941.61	3/4	2,285.58	3/4	2,629.55	3/4	2,973.52	3/4	3,317.41
8	229.47	8	573.42	8	917.24	8	1,260.84	8	1,604.81	8	1,948.78	8	2,292.75	8	2,636.72	8	2,980.68	8	3,324.57
1/4	236.64	1/4	580.59	1/4	924.39	1/4	1,268.01	1/4	1,611.98	1/4	1,955.95	1/4	2,299.91	1/4	2,643.88	1/4	2,987.85	1/4	3,331.73
1/2	243.80	1/2	587.75	1/2	931.54	1/2	1,275.18	1/2	1,619.14	1/2	1,963.11	1/2	2,307.08	1/2	2,651.05	1/2	2,995.02	1/2	3,338.90
3/4	250.97	3/4	594.92	3/4	938.70	3/4	1,282.34	3/4	1,626.31	3/4	1,970.28	3/4	2,314.25	3/4	2,658.21	3/4	3,002.18	3/4	3,346.06
9	258.13	9	602.09	9	945.85	9	1,289.51	9	1,633.48	9	1,977.44	9	2,321.41	9	2,665.38	9	3,009.35	9	3,353.22
1/4	265.30	1/4	609.25	1/4	953.00	1/4	1,296.67	1/4	1,640.64	1/4	1,984.61	1/4	2,328.58	1/4	2,672.55	1/4	3,016.51	1/4	3,360.39
1/2	272.46	1/2	616.42	1/2	960.15	1/2	1,303.84	1/2	1,647.81	1/2	1,991.78	1/2	2,335.74	1/2	2,679.71	1/2	3,023.68	1/2	3,367.55
3/4	279.63	3/4	623.58	3/4	967.30	3/4	1,311.01	3/4	1,654.97	3/4	1,998.94	3/4	2,342.91	3/4	2,686.88	3/4	3,030.85	3/4	3,374.72
10	286.80	10	630.75	10	974.45	10	1,318.17	10	1,662.14	10	2,006.11	10	2,350.08	10	2,694.04	10	3,038.01	10	3,381.88
1/4	293.96	1/4	637.91	1/4	981.61	1/4	1,325.34	1/4	1,669.31	1/4	2,013.27	1/4	2,357.24	1/4	2,701.21	1/4	3,045.18	1/4	3,389.04
1/2	301.13	1/2	645.08	1/2	988.76	1/2	1,332.50	1/2	1,676.47	1/2	2,020.44	1/2	2,364.41	1/2	2,708.38	1/2	3,052.34	1/2	3,396.21
3/4	308.29	3/4	652.25	3/4	995.91	3/4	1,339.67	3/4	1,683.64	3/4	2,027.61	3/4	2,371.57	3/4	2,715.54	3/4	3,059.51	3/4	3,403.37
11	315.46	11	659.41	11	1,003.06	11	1,346.84	11	1,690.80	11	2,034.77	11	2,378.74	11	2,722.71	11	3,066.68	11	3,410.53
1/4	322.62	1/4	666.58	1/4	1,010.21	1/4	1,354.00	1/4	1,697.97	1/4	2,041.94	1/4	2,385.91	1/4	2,729.87	1/4	3,073.84	1/4	3,417.70
1/2	329.79	1/2	673.74	1/2	1,017.37	1/2	1,361.17	1/2	1,705.14	1/2	2,049.10	1/2	2,393.07	1/2	2,737.04	1/2	3,081.00	1/2	3,424.86
3/4	336.96	3/4	680.91	3/4	1,024.52	3/4	1,368.33	3/4	1,712.30	3/4	2,056.27	3/4	2,400.24	3/4	2,744.21	3/4	3,088.17	3/4	3,432.03

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

Paul Stearns



BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

2 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,439.19	0	3,783.07	0	4,127.04	0	4,470.35	0	4,812.74	0		0		0		0		0	
1/4	3,446.35	1/4	3,790.24	1/4	4,134.20	1/4	4,477.48	1/4	4,819.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,453.52	1/2	3,797.41	1/2	4,141.37	1/2	4,484.61	1/2	4,827.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,460.68	3/4	3,804.57	3/4	4,148.53	3/4	4,491.75	3/4	4,834.14	3/4		3/4		3/4		3/4		3/4	
1	3,467.84	1	3,811.74	1	4,155.70	1	4,498.88	1	4,841.27	1		1		1		1		1	
1/4	3,475.01	1/4	3,818.90	1/4	4,162.87	1/4	4,506.01	1/4	4,848.41	1/4		1/4		1/4		1/4		1/4	
1/2	3,482.17	1/2	3,826.07	1/2	4,170.03	1/2	4,513.14	1/2	4,855.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,489.34	3/4	3,833.23	3/4	4,177.20	3/4	4,520.28	3/4	4,862.67	3/4		3/4		3/4		3/4		3/4	
2	3,496.50	2	3,840.40	2	4,184.36	2	4,527.41	2	4,869.80	2		2		2		2		2	
1/4	3,503.66	1/4	3,847.57	1/4	4,191.53	1/4	4,534.54	1/4	4,876.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,510.83	1/2	3,854.73	1/2	4,198.70	1/2	4,541.68	1/2	4,884.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,517.99	3/4	3,861.90	3/4	4,205.86	3/4	4,548.81	3/4	4,891.20	3/4		3/4		3/4		3/4		3/4	
3	3,525.15	3	3,869.06	3	4,213.03	3	4,555.94	3	4,898.34	3		3		3		3		3	
1/4	3,532.32	1/4	3,876.23	1/4	4,220.19	1/4	4,563.08	1/4	4,905.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,539.48	1/2	3,883.40	1/2	4,227.36	1/2	4,570.21	1/2	4,912.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,546.64	3/4	3,890.56	3/4	4,234.53	3/4	4,577.34	3/4	4,919.60	3/4		3/4		3/4		3/4		3/4	
4	3,553.81	4	3,897.73	4	4,241.69	4	4,584.48	4	4,926.69	4		4		4		4		4	
1/4	3,560.97	1/4	3,904.89	1/4	4,248.86	1/4	4,591.61	1/4	4,933.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,568.14	1/2	3,912.06	1/2	4,256.02	1/2	4,598.74	1/2	4,940.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,575.30	3/4	3,919.23	3/4	4,263.19	3/4	4,605.88	3/4	4,947.95	3/4		3/4		3/4		3/4		3/4	
5	3,582.46	5	3,926.39	5	4,270.35	5	4,613.01	5	4,955.04	5		5		5		5		5	
1/4	3,589.63	1/4	3,933.56	1/4	4,277.52	1/4	4,620.14	1/4	4,962.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,596.79	1/2	3,940.72	1/2	4,284.69	1/2	4,627.28	1/2	4,969.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,603.95	3/4	3,947.89	3/4	4,291.85	3/4	4,634.41	3/4	4,976.30	3/4		3/4		3/4		3/4		3/4	
6	3,611.12	6	3,955.05	6	4,299.02	6	4,641.54	6	4,983.39	6		6		6		6		6	
1/4	3,618.28	1/4	3,962.22	1/4	4,306.18	1/4	4,648.68	1/4	4,990.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,625.45	1/2	3,969.39	1/2	4,313.35	1/2	4,655.81	1/2	4,997.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,632.61	3/4	3,976.55	3/4	4,320.52	3/4	4,662.94	3/4	5,004.61	3/4		3/4		3/4		3/4		3/4	
7	3,639.77	7	3,983.72	7	4,327.68	7	4,670.08	7	5,011.68	7		7		7		7		7	
1/4	3,646.94	1/4	3,990.88	1/4	4,334.81	1/4	4,677.21	1/4	5,018.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,654.10	1/2	3,998.05	1/2	4,341.95	1/2	4,684.34	1/2	5,025.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,661.26	3/4	4,005.22	3/4	4,349.08	3/4	4,691.47	3/4	5,032.74	3/4		3/4		3/4		3/4		3/4	
8	3,668.43	8	4,012.38	8	4,356.21	8	4,698.61	8	5,039.76	8		8		8		8		8	
1/4	3,675.59	1/4	4,019.55	1/4	4,363.35	1/4	4,705.74	1/4	5,045.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,682.76	1/2	4,026.71	1/2	4,370.48	1/2	4,712.87	1/2	5,052.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,689.92	3/4	4,033.88	3/4	4,377.61	3/4	4,720.01	3/4	5,058.34	3/4		3/4		3/4		3/4		3/4	
9	3,697.08	9	4,041.05	9	4,384.75	9	4,727.14	9	5,064.53	9		9		9		9		9	
1/4	3,704.25	1/4	4,048.21	1/4	4,391.88	1/4	4,734.27	1/4	5,069.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,711.41	1/2	4,055.38	1/2	4,399.01	1/2	4,741.41	1/2	5,074.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,718.58	3/4	4,062.54	3/4	4,406.15	3/4	4,748.54	3/4	5,079.52	3/4		3/4		3/4		3/4		3/4	
10	3,725.75	10	4,069.71	10	4,413.28	10	4,755.67	10	5,084.52	10		10		10		10		10	
1/4	3,732.91	1/4	4,076.88	1/4	4,420.41	1/4	4,762.81	1/4	5,088.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,740.08	1/2	4,084.04	1/2	4,427.55	1/2	4,769.94	1/2	5,092.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,747.24	3/4	4,091.21	3/4	4,434.68	3/4	4,777.07	3/4	5,095.93	3/4		3/4		3/4		3/4		3/4	
11	3,754.41	11	4,098.37	11	4,441.81	11	4,784.21	11	5,099.74	11		11		11		11		11	
1/4	3,761.58	1/4	4,105.54	1/4	4,448.95	1/4	4,791.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,768.74	1/2	4,112.70	1/2	4,456.08	1/2	4,798.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,775.91	3/4	4,119.87	3/4	4,463.21	3/4	4,805.61	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

3 PORT
INNAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Table with 18 columns (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.) and 36 rows of capacity data.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

**3 PORT
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,377.88	0	3,586.93	0	3,796.54	0	4,005.77	0	4,214.46	0		0		0		0		0	
1/4	3,382.24	1/4	3,591.29	1/4	3,800.90	1/4	4,010.11	1/4	4,218.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,386.59	1/2	3,595.66	1/2	3,805.27	1/2	4,014.46	1/2	4,223.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,390.94	3/4	3,600.03	3/4	3,809.64	3/4	4,018.81	3/4	4,227.50	3/4		3/4		3/4		3/4		3/4	
1	3,395.29	1	3,604.39	1	3,814.01	1	4,023.16	1	4,231.85	1		1		1		1		1	
1/4	3,399.64	1/4	3,608.76	1/4	3,818.37	1/4	4,027.51	1/4	4,236.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,403.99	1/2	3,613.13	1/2	3,822.74	1/2	4,031.85	1/2	4,240.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,408.34	3/4	3,617.49	3/4	3,827.11	3/4	4,036.20	3/4	4,244.90	3/4		3/4		3/4		3/4		3/4	
2	3,412.69	2	3,621.86	2	3,831.47	2	4,040.55	2	4,249.24	2		2		2		2		2	
1/4	3,417.04	1/4	3,626.23	1/4	3,835.84	1/4	4,044.90	1/4	4,253.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,421.39	1/2	3,630.60	1/2	3,840.21	1/2	4,049.24	1/2	4,257.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,425.75	3/4	3,634.96	3/4	3,844.57	3/4	4,053.59	3/4	4,262.29	3/4		3/4		3/4		3/4		3/4	
3	3,430.10	3	3,639.33	3	3,848.94	3	4,057.94	3	4,266.63	3		3		3		3		3	
1/4	3,434.45	1/4	3,643.70	1/4	3,853.31	1/4	4,062.29	1/4	4,270.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.80	1/2	3,648.06	1/2	3,857.67	1/2	4,066.64	1/2	4,275.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,443.15	3/4	3,652.43	3/4	3,862.04	3/4	4,070.98	3/4	4,279.60	3/4		3/4		3/4		3/4		3/4	
4	3,447.50	4	3,656.80	4	3,866.41	4	4,075.33	4	4,283.92	4		4		4		4		4	
1/4	3,451.85	1/4	3,661.16	1/4	3,870.77	1/4	4,079.68	1/4	4,288.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,456.20	1/2	3,665.53	1/2	3,875.14	1/2	4,084.03	1/2	4,292.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,460.55	3/4	3,669.90	3/4	3,879.51	3/4	4,088.37	3/4	4,296.88	3/4		3/4		3/4		3/4		3/4	
5	3,464.91	5	3,674.26	5	3,883.88	5	4,092.72	5	4,301.20	5		5		5		5		5	
1/4	3,469.26	1/4	3,678.63	1/4	3,888.24	1/4	4,097.07	1/4	4,305.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,473.61	1/2	3,683.00	1/2	3,892.61	1/2	4,101.42	1/2	4,309.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,477.96	3/4	3,687.37	3/4	3,896.98	3/4	4,105.77	3/4	4,314.15	3/4		3/4		3/4		3/4		3/4	
6	3,482.31	6	3,691.73	6	3,901.34	6	4,110.11	6	4,318.46	6		6		6		6		6	
1/4	3,486.66	1/4	3,696.10	1/4	3,905.71	1/4	4,114.46	1/4	4,322.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,491.01	1/2	3,700.47	1/2	3,910.08	1/2	4,118.81	1/2	4,327.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,495.36	3/4	3,704.83	3/4	3,914.44	3/4	4,123.16	3/4	4,331.38	3/4		3/4		3/4		3/4		3/4	
7	3,499.71	7	3,709.20	7	3,918.81	7	4,127.51	7	4,335.69	7		7		7		7		7	
1/4	3,504.07	1/4	3,713.57	1/4	3,923.16	1/4	4,131.85	1/4	4,339.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,508.42	1/2	3,717.93	1/2	3,927.51	1/2	4,136.20	1/2	4,344.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,512.77	3/4	3,722.30	3/4	3,931.85	3/4	4,140.55	3/4	4,348.44	3/4		3/4		3/4		3/4		3/4	
8	3,517.12	8	3,726.67	8	3,936.20	8	4,144.90	8	4,352.69	8		8		8		8		8	
1/4	3,521.47	1/4	3,731.03	1/4	3,940.55	1/4	4,149.24	1/4	4,356.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,525.82	1/2	3,735.40	1/2	3,944.90	1/2	4,153.59	1/2	4,359.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,530.17	3/4	3,739.77	3/4	3,949.25	3/4	4,157.94	3/4	4,362.98	3/4		3/4		3/4		3/4		3/4	
9	3,534.52	9	3,744.13	9	3,953.59	9	4,162.29	9	4,366.41	9		9		9		9		9	
1/4	3,538.89	1/4	3,748.50	1/4	3,957.94	1/4	4,166.64	1/4	4,368.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,543.26	1/2	3,752.87	1/2	3,962.29	1/2	4,170.98	1/2	4,370.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,547.62	3/4	3,757.24	3/4	3,966.64	3/4	4,175.33	3/4	4,373.14	3/4		3/4		3/4		3/4		3/4	
10	3,551.99	10	3,761.60	10	3,970.98	10	4,179.68	10	4,375.38	10		10		10		10		10	
1/4	3,556.36	1/4	3,765.97	1/4	3,975.33	1/4	4,184.03	1/4	4,377.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.72	1/2	3,770.34	1/2	3,979.68	1/2	4,188.37	1/2	4,378.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,565.09	3/4	3,774.70	3/4	3,984.03	3/4	4,192.72	3/4	4,380.50	3/4		3/4		3/4		3/4		3/4	
11	3,569.46	11	3,779.07	11	3,988.38	11	4,197.07	11	4,382.21	11		11		11		11		11	
1/4	3,573.83	1/4	3,783.44	1/4	3,992.72	1/4	4,201.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,578.19	1/2	3,787.80	1/2	3,997.07	1/2	4,205.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,582.56	3/4	3,792.17	3/4	4,001.42	3/4	4,210.11	3/4		3/4		3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

**3 STBD
INNAGE TABLE**

**HERMETIC
GAUGE HEIGHT 16'-04 1/2"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	14.64	0	342.82	0	685.47	0	1,027.78	0	1,370.30	0	1,712.97	0	2,055.63	0	2,398.29	0	2,740.69	0	3,082.48
1/4	19.10	1/4	349.96	1/4	692.61	1/4	1,034.90	1/4	1,377.44	1/4	1,720.10	1/4	2,062.77	1/4	2,405.43	1/4	2,747.81	1/4	3,089.60
1/2	23.57	1/2	357.10	1/2	699.75	1/2	1,042.03	1/2	1,384.58	1/2	1,727.24	1/2	2,069.91	1/2	2,412.57	1/2	2,754.93	1/2	3,096.72
3/4	28.03	3/4	364.24	3/4	706.89	3/4	1,049.15	3/4	1,391.72	3/4	1,734.38	3/4	2,077.04	3/4	2,419.71	3/4	2,762.05	3/4	3,103.84
1	32.49	1	371.38	1	714.03	1	1,056.28	1	1,398.86	1	1,741.52	1	2,084.18	1	2,426.85	1	2,769.17	1	3,110.96
1/4	38.73	1/4	378.51	1/4	721.17	1/4	1,063.40	1/4	1,406.00	1/4	1,748.66	1/4	2,091.32	1/4	2,433.98	1/4	2,776.29	1/4	3,118.08
1/2	44.98	1/2	385.65	1/2	728.31	1/2	1,070.53	1/2	1,413.14	1/2	1,755.80	1/2	2,098.46	1/2	2,441.12	1/2	2,783.42	1/2	3,125.20
3/4	51.22	3/4	392.79	3/4	735.44	3/4	1,077.65	3/4	1,420.27	3/4	1,762.94	3/4	2,105.60	3/4	2,448.26	3/4	2,790.54	3/4	3,132.32
2	57.47	2	399.93	2	742.58	2	1,084.78	2	1,427.41	2	1,770.08	2	2,112.74	2	2,455.40	2	2,797.66	2	3,139.45
1/4	64.57	1/4	407.07	1/4	749.72	1/4	1,091.91	1/4	1,434.55	1/4	1,777.21	1/4	2,119.88	1/4	2,462.54	1/4	2,804.78	1/4	3,146.55
1/2	71.67	1/2	414.21	1/2	756.86	1/2	1,099.04	1/2	1,441.69	1/2	1,784.35	1/2	2,127.02	1/2	2,469.68	1/2	2,811.90	1/2	3,153.65
3/4	78.78	3/4	421.35	3/4	764.00	3/4	1,106.17	3/4	1,448.83	3/4	1,791.49	3/4	2,134.15	3/4	2,476.82	3/4	2,819.02	3/4	3,160.76
3	85.88	3	428.48	3	771.14	3	1,113.31	3	1,455.97	3	1,798.63	3	2,141.29	3	2,483.96	3	2,826.14	3	3,167.86
1/4	93.01	1/4	435.62	1/4	778.28	1/4	1,120.45	1/4	1,463.11	1/4	1,805.77	1/4	2,148.43	1/4	2,491.09	1/4	2,833.26	1/4	3,174.96
1/2	100.13	1/2	442.76	1/2	785.41	1/2	1,127.58	1/2	1,470.25	1/2	1,812.91	1/2	2,155.57	1/2	2,498.23	1/2	2,840.38	1/2	3,182.07
3/4	107.26	3/4	449.90	3/4	792.55	3/4	1,134.72	3/4	1,477.39	3/4	1,820.05	3/4	2,162.71	3/4	2,505.37	3/4	2,847.50	3/4	3,189.17
4	114.39	4	457.04	4	799.69	4	1,141.86	4	1,484.52	4	1,827.19	4	2,169.85	4	2,512.51	4	2,854.62	4	3,196.27
1/4	121.53	1/4	464.18	1/4	806.83	1/4	1,149.00	1/4	1,491.66	1/4	1,834.33	1/4	2,176.99	1/4	2,519.65	1/4	2,861.74	1/4	3,203.38
1/2	128.67	1/2	471.32	1/2	813.97	1/2	1,156.14	1/2	1,498.80	1/2	1,841.46	1/2	2,184.13	1/2	2,526.79	1/2	2,868.86	1/2	3,210.48
3/4	135.80	3/4	478.45	3/4	821.11	3/4	1,163.28	3/4	1,505.94	3/4	1,848.60	3/4	2,191.27	3/4	2,533.93	3/4	2,875.98	3/4	3,217.58
5	142.94	5	485.59	5	828.25	5	1,170.42	5	1,513.08	5	1,855.74	5	2,198.40	5	2,541.07	5	2,883.10	5	3,224.69
1/4	150.08	1/4	492.73	1/4	835.38	1/4	1,177.56	1/4	1,520.22	1/4	1,862.88	1/4	2,205.54	1/4	2,548.21	1/4	2,890.22	1/4	3,231.79
1/2	157.22	1/2	499.87	1/2	842.51	1/2	1,184.69	1/2	1,527.36	1/2	1,870.02	1/2	2,212.68	1/2	2,555.36	1/2	2,897.35	1/2	3,238.89
3/4	164.36	3/4	507.01	3/4	849.65	3/4	1,191.83	3/4	1,534.50	3/4	1,877.16	3/4	2,219.82	3/4	2,562.50	3/4	2,904.47	3/4	3,246.00
6	171.49	6	514.15	6	856.78	6	1,198.97	6	1,541.63	6	1,884.30	6	2,226.96	6	2,569.64	6	2,911.59	6	3,253.10
1/4	178.63	1/4	521.29	1/4	863.91	1/4	1,206.11	1/4	1,548.77	1/4	1,891.44	1/4	2,234.10	1/4	2,576.78	1/4	2,918.71	1/4	3,260.20
1/2	185.77	1/2	528.42	1/2	871.03	1/2	1,213.25	1/2	1,555.91	1/2	1,898.57	1/2	2,241.24	1/2	2,583.92	1/2	2,925.83	1/2	3,267.31
3/4	192.91	3/4	535.56	3/4	878.16	3/4	1,220.39	3/4	1,563.05	3/4	1,905.71	3/4	2,248.38	3/4	2,591.06	3/4	2,932.95	3/4	3,274.41
7	200.05	7	542.70	7	885.28	7	1,227.53	7	1,570.19	7	1,912.85	7	2,255.51	7	2,598.20	7	2,940.07	7	3,281.51
1/4	207.19	1/4	549.84	1/4	892.40	1/4	1,234.67	1/4	1,577.33	1/4	1,919.99	1/4	2,262.65	1/4	2,605.34	1/4	2,947.19	1/4	3,288.62
1/2	214.33	1/2	556.98	1/2	899.53	1/2	1,241.80	1/2	1,584.47	1/2	1,927.13	1/2	2,269.79	1/2	2,612.48	1/2	2,954.31	1/2	3,295.72
3/4	221.46	3/4	564.12	3/4	906.65	3/4	1,248.94	3/4	1,591.61	3/4	1,934.27	3/4	2,276.93	3/4	2,619.62	3/4	2,961.43	3/4	3,302.82
8	228.60	8	571.26	8	913.78	8	1,256.08	8	1,598.74	8	1,941.41	8	2,284.07	8	2,626.76	8	2,968.55	8	3,309.93
1/4	235.74	1/4	578.39	1/4	920.90	1/4	1,263.22	1/4	1,605.88	1/4	1,948.55	1/4	2,291.21	1/4	2,633.88	1/4	2,975.67	1/4	3,317.03
1/2	242.88	1/2	585.53	1/2	928.03	1/2	1,270.36	1/2	1,613.02	1/2	1,955.68	1/2	2,298.35	1/2	2,641.00	1/2	2,982.79	1/2	3,324.13
3/4	250.02	3/4	592.67	3/4	935.15	3/4	1,277.50	3/4	1,620.16	3/4	1,962.82	3/4	2,305.49	3/4	2,648.12	3/4	2,989.91	3/4	3,331.24
9	257.16	9	599.81	9	942.28	9	1,284.64	9	1,627.30	9	1,969.96	9	2,312.62	9	2,655.24	9	2,997.03	9	3,338.34
1/4	264.30	1/4	606.95	1/4	949.40	1/4	1,291.78	1/4	1,634.44	1/4	1,977.10	1/4	2,319.76	1/4	2,662.37	1/4	3,004.15	1/4	3,345.44
1/2	271.44	1/2	614.09	1/2	956.53	1/2	1,298.92	1/2	1,641.58	1/2	1,984.24	1/2	2,326.90	1/2	2,669.49	1/2	3,011.27	1/2	3,352.55
3/4	278.57	3/4	621.23	3/4	963.65	3/4	1,306.05	3/4	1,648.72	3/4	1,991.38	3/4	2,334.04	3/4	2,676.61	3/4	3,018.40	3/4	3,359.65
10	285.71	10	628.37	10	970.78	10	1,313.19	10	1,655.86	10	1,998.52	10	2,341.18	10	2,683.73	10	3,025.52	10	3,366.75
1/4	292.85	1/4	635.50	1/4	977.90	1/4	1,320.33	1/4	1,662.99	1/4	2,005.66	1/4	2,348.32	1/4	2,690.85	1/4	3,032.64	1/4	3,373.85
1/2	299.99	1/2	642.64	1/2	985.03	1/2	1,327.47	1/2	1,670.13	1/2	2,012.80	1/2	2,355.46	1/2	2,697.97	1/2	3,039.76	1/2	3,380.96
3/4	307.13	3/4	649.78	3/4	992.15	3/4	1,334.61	3/4	1,677.27	3/4	2,019.93	3/4	2,362.60	3/4	2,705.09	3/4	3,046.88	3/4	3,388.06
11	314.27	11	656.92	11	999.28	11	1,341.75	11	1,684.41	11	2,027.07	11	2,369.74	11	2,712.21	11	3,054.00	11	3,395.16
1/4	321.41	1/4	664.06	1/4	1,006.40	1/4	1,348.89	1/4	1,691.55	1/4	2,034.21	1/4	2,376.87	1/4	2,719.33	1/4	3,061.12	1/4	3,402.26
1/2	328.54	1/2	671.20	1/2	1,013.53	1/2	1,356.03	1/2	1,698.69	1/2	2,041.35	1/2	2,384.01	1/2	2,726.45	1/2	3,068.24	1/2	3,409.36
3/4	335.68	3/4	678.34	3/4	1,020.65	3/4	1,363.16	3/4	1,705.83	3/4	2,048.49	3/4	2,391.15	3/4	2,733.57	3/4	3,075.36	3/4	3,416.46

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092

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



BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

3 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,401.49	0	3,611.65	0	3,821.80	0	4,031.57	0	4,240.81	0		0		0		0		0	
1/4	3,405.87	1/4	3,616.03	1/4	3,826.18	1/4	4,035.93	1/4	4,245.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,410.25	1/2	3,620.40	1/2	3,830.56	1/2	4,040.29	1/2	4,249.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,414.63	3/4	3,624.78	3/4	3,834.94	3/4	4,044.65	3/4	4,253.89	3/4		3/4		3/4		3/4		3/4	
1	3,419.01	1	3,629.16	1	3,839.31	1	4,049.01	1	4,258.25	1		1		1		1		1	
1/4	3,423.38	1/4	3,633.54	1/4	3,843.69	1/4	4,053.37	1/4	4,262.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,427.76	1/2	3,637.92	1/2	3,848.07	1/2	4,057.73	1/2	4,266.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,432.14	3/4	3,642.29	3/4	3,852.45	3/4	4,062.09	3/4	4,271.32	3/4		3/4		3/4		3/4		3/4	
2	3,436.52	2	3,646.67	2	3,856.83	2	4,066.45	2	4,275.68	2		2		2		2		2	
1/4	3,440.90	1/4	3,651.05	1/4	3,861.20	1/4	4,070.80	1/4	4,280.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,445.28	1/2	3,655.43	1/2	3,865.58	1/2	4,075.16	1/2	4,284.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,449.65	3/4	3,659.81	3/4	3,869.96	3/4	4,079.52	3/4	4,288.76	3/4		3/4		3/4		3/4		3/4	
3	3,454.03	3	3,664.19	3	3,874.34	3	4,083.88	3	4,293.12	3		3		3		3		3	
1/4	3,458.41	1/4	3,668.56	1/4	3,878.72	1/4	4,088.24	1/4	4,297.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,462.79	1/2	3,672.94	1/2	3,883.10	1/2	4,092.60	1/2	4,301.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,467.17	3/4	3,677.32	3/4	3,887.47	3/4	4,096.96	3/4	4,306.11	3/4		3/4		3/4		3/4		3/4	
4	3,471.54	4	3,681.70	4	3,891.85	4	4,101.32	4	4,310.44	4		4		4		4		4	
1/4	3,475.92	1/4	3,686.08	1/4	3,896.23	1/4	4,105.68	1/4	4,314.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,480.30	1/2	3,690.45	1/2	3,900.61	1/2	4,110.04	1/2	4,319.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,484.68	3/4	3,694.83	3/4	3,904.99	3/4	4,114.40	3/4	4,323.44	3/4		3/4		3/4		3/4		3/4	
5	3,489.06	5	3,699.21	5	3,909.36	5	4,118.75	5	4,327.77	5		5		5		5		5	
1/4	3,493.44	1/4	3,703.59	1/4	3,913.74	1/4	4,123.11	1/4	4,332.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,497.81	1/2	3,707.97	1/2	3,918.12	1/2	4,127.47	1/2	4,336.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.19	3/4	3,712.35	3/4	3,922.50	3/4	4,131.83	3/4	4,340.75	3/4		3/4		3/4		3/4		3/4	
6	3,506.57	6	3,716.72	6	3,926.88	6	4,136.19	6	4,345.08	6		6		6		6		6	
1/4	3,510.95	1/4	3,721.10	1/4	3,931.26	1/4	4,140.55	1/4	4,349.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,515.33	1/2	3,725.48	1/2	3,935.63	1/2	4,144.91	1/2	4,353.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,519.70	3/4	3,729.86	3/4	3,940.01	3/4	4,149.27	3/4	4,358.03	3/4		3/4		3/4		3/4		3/4	
7	3,524.08	7	3,734.24	7	3,944.39	7	4,153.63	7	4,362.35	7		7		7		7		7	
1/4	3,528.46	1/4	3,738.61	1/4	3,948.75	1/4	4,157.99	1/4	4,366.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,532.84	1/2	3,742.99	1/2	3,953.11	1/2	4,162.35	1/2	4,370.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,537.22	3/4	3,747.37	3/4	3,957.47	3/4	4,166.70	3/4	4,375.14	3/4		3/4		3/4		3/4		3/4	
8	3,541.60	8	3,751.75	8	3,961.83	8	4,171.06	8	4,379.40	8		8		8		8		8	
1/4	3,545.97	1/4	3,756.13	1/4	3,966.19	1/4	4,175.42	1/4	4,382.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.35	1/2	3,760.51	1/2	3,970.54	1/2	4,179.78	1/2	4,386.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,554.73	3/4	3,764.88	3/4	3,974.90	3/4	4,184.14	3/4	4,389.72	3/4		3/4		3/4		3/4		3/4	
9	3,559.11	9	3,769.26	9	3,979.26	9	4,188.50	9	4,393.16	9		9		9		9		9	
1/4	3,563.49	1/4	3,773.64	1/4	3,983.62	1/4	4,192.86	1/4	4,395.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,567.87	1/2	3,778.02	1/2	3,987.98	1/2	4,197.22	1/2	4,397.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.24	3/4	3,782.40	3/4	3,992.34	3/4	4,201.58	3/4	4,399.90	3/4		3/4		3/4		3/4		3/4	
10	3,576.62	10	3,786.78	10	3,996.70	10	4,205.94	10	4,402.15	10		10		10		10		10	
1/4	3,581.00	1/4	3,791.15	1/4	4,001.06	1/4	4,210.30	1/4	4,403.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,585.38	1/2	3,795.53	1/2	4,005.42	1/2	4,214.65	1/2	4,405.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.76	3/4	3,799.91	3/4	4,009.78	3/4	4,219.01	3/4	4,407.28	3/4		3/4		3/4		3/4		3/4	
11	3,594.13	11	3,804.29	11	4,014.14	11	4,223.37	11	4,408.99	11		11		11		11		11	
1/4	3,598.51	1/4	3,808.67	1/4	4,018.50	1/4	4,227.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,602.89	1/2	3,813.04	1/2	4,022.85	1/2	4,232.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,607.27	3/4	3,817.42	3/4	4,027.21	3/4	4,236.45	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07 1/4"

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	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4		3/4		3/4		3/4		3/4	
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1		1		1		1		1	
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2		2		2		2		2	
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4		1/4		1/4		1/4		1/4	
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2		1/2		1/2		1/2		1/2	
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4		3/4		3/4		3/4		3/4	
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3		3		3		3		3	
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4		1/4		1/4		1/4		1/4	
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2		1/2		1/2		1/2		1/2	
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4		3/4		3/4		3/4		3/4	
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4		4		4		4		4	
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4		1/4		1/4		1/4		1/4	
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2		1/2		1/2		1/2		1/2	
3/4	436	3/4	1,537	3/4	2,639	3/4	3,740	3/4	4,842	3/4		3/4		3/4		3/4		3/4	
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5		5		5		5		5	
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4		1/4		1/4		1/4		1/4	
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2		1/2		1/2		1/2		1/2	
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4		3/4		3/4		3/4		3/4	
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6		6		6		6		6	
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4		1/4		1/4		1/4		1/4	
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2		1/2		1/2		1/2		1/2	
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,025	3/4		3/4		3/4		3/4		3/4	
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7		7		7		7		7	
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4		1/4		1/4		1/4		1/4	
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2		1/2		1/2		1/2		1/2	
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4		3/4		3/4		3/4		3/4	
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8		8		8		8		8	
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4		1/4		1/4		1/4		1/4	
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2		1/2		1/2		1/2		1/2	
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4		3/4		3/4		3/4		3/4	
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9		9		9		9		9	
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2		1/2		1/2		1/2		1/2	
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4		3/4		3/4		3/4		3/4	
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10		10		10		10		10	
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4		1/4		1/4		1/4		1/4	
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2		1/2		1/2		1/2		1/2	
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4		3/4		3/4		3/4		3/4	
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11		11		11		11		11	
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4		1/4		1/4		1/4		1/4	
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2		1/2		1/2		1/2		1/2	
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 2" DIAMETER "HERMETIC" VALVE.

STRAPPED: 08/05/20 CL
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 PRINTED: 08/06/2020 JS

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



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07"

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	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4		3/4		3/4		3/4		3/4	
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1		1		1		1		1	
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2		2		2		2		2	
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4		1/4		1/4		1/4		1/4	
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2		1/2		1/2		1/2		1/2	
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4		3/4		3/4		3/4		3/4	
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3		3		3		3		3	
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4		1/4		1/4		1/4		1/4	
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2		1/2		1/2		1/2		1/2	
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4		3/4		3/4		3/4		3/4	
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4		4		4		4		4	
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4		1/4		1/4		1/4		1/4	
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2		1/2		1/2		1/2		1/2	
3/4	436	3/4	1,537	3/4	2,639	3/4	3,740	3/4	4,842	3/4		3/4		3/4		3/4		3/4	
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5		5		5		5		5	
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4		1/4		1/4		1/4		1/4	
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2		1/2		1/2		1/2		1/2	
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4		3/4		3/4		3/4		3/4	
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6		6		6		6		6	
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4		1/4		1/4		1/4		1/4	
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2		1/2		1/2		1/2		1/2	
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,025	3/4		3/4		3/4		3/4		3/4	
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7		7		7		7		7	
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4		1/4		1/4		1/4		1/4	
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2		1/2		1/2		1/2		1/2	
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4		3/4		3/4		3/4		3/4	
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8		8		8		8		8	
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4		1/4		1/4		1/4		1/4	
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2		1/2		1/2		1/2		1/2	
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4		3/4		3/4		3/4		3/4	
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9		9		9		9		9	
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2		1/2		1/2		1/2		1/2	
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4		3/4		3/4		3/4		3/4	
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10		10		10		10		10	
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4		1/4		1/4		1/4		1/4	
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2		1/2		1/2		1/2		1/2	
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4		3/4		3/4		3/4		3/4	
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11		11		11		11		11	
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4		1/4		1/4		1/4		1/4	
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2		1/2		1/2		1/2		1/2	
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 2" DIAMETER "HERMETIC" VALVE.

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



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	0		101		259		416		517										
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2	2	2	2	2	2	2	2	2	2	2	2
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3	3	3	3	3	3	3	3	3	3	3	3
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4	4	4	4	4	4	4	4	4	4	4	4
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5	5	5	5	5	5	5	5	5	5	5	5
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6	6	6	6	6	6	6	6	6	6	6	6
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7	7	7	7	7	7	7	7	7	7	7	7
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8	8	8	8	8	8	8	8	8	8	8	8
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9	9	9	9	9	9	9	9	9	9	9	9
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10	10	10	10	10	10	10	10	10	10	10	10
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11	11	11	11	11	11	11	11	11	11	11	11
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" STANDPIPE

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BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

ULLAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 08-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

August 5, 2020

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

1 PORT
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,692.12	0	2,349.57	0	2,006.99	0	1,664.41	0	1,321.84	0	979.97	0	639.32	0	303.89	0	20.48	0	
1/4	2,684.98	1/4	2,342.43	1/4	1,999.85	1/4	1,657.28	1/4	1,314.70	1/4	972.89	1/4	632.19	1/4	297.33	1/4	17.68	1/4	
1/2	2,677.85	1/2	2,335.29	1/2	1,992.72	1/2	1,650.14	1/2	1,307.56	1/2	965.82	1/2	625.05	1/2	290.78	1/2	14.88	1/2	
3/4	2,670.71	3/4	2,328.16	3/4	1,985.58	3/4	1,643.00	3/4	1,300.43	3/4	958.74	3/4	617.91	3/4	284.23	3/4	12.09	3/4	
1	2,663.58	1	2,321.02	1	1,978.44	1	1,635.87	1	1,293.29	1	951.66	1	610.78	1	277.67	1	9.29	1	
1/4	2,656.44	1/4	2,313.88	1/4	1,971.31	1/4	1,628.73	1/4	1,286.15	1/4	944.59	1/4	603.64	1/4	271.21	1/4	7.50	1/4	
1/2	2,649.30	1/2	2,306.74	1/2	1,964.17	1/2	1,621.59	1/2	1,279.02	1/2	937.51	1/2	596.50	1/2	264.74	1/2	5.72	1/2	
3/4	2,642.17	3/4	2,299.61	3/4	1,957.03	3/4	1,614.46	3/4	1,271.88	3/4	930.43	3/4	589.37	3/4	258.27	3/4	3.94	3/4	
2	2,635.03	2	2,292.47	2	1,949.89	2	1,607.32	2	1,264.74	2	923.36	2	582.23	2	251.80	2	2.15	2	
1/4	2,627.90	1/4	2,285.33	1/4	1,942.76	1/4	1,600.18	1/4	1,257.61	1/4	916.28	1/4	575.09	1/4	245.41	1/4		1/4	
1/2	2,620.76	1/2	2,278.20	1/2	1,935.62	1/2	1,593.04	1/2	1,250.47	1/2	909.21	1/2	567.95	1/2	239.02	1/2		1/2	
3/4	2,613.63	3/4	2,271.06	3/4	1,928.48	3/4	1,585.91	3/4	1,243.33	3/4	902.13	3/4	560.82	3/4	232.64	3/4		3/4	
3	2,606.50	3	2,263.92	3	1,921.35	3	1,578.77	3	1,236.19	3	895.05	3	553.68	3	226.25	3		3	
1/4	2,599.36	1/4	2,256.79	1/4	1,914.21	1/4	1,571.63	1/4	1,229.06	1/4	887.98	1/4	546.54	1/4	219.95	1/4		1/4	
1/2	2,592.22	1/2	2,249.65	1/2	1,907.07	1/2	1,564.50	1/2	1,221.92	1/2	880.90	1/2	539.41	1/2	213.65	1/2		1/2	
3/4	2,585.09	3/4	2,242.51	3/4	1,899.94	3/4	1,557.36	3/4	1,214.78	3/4	873.82	3/4	532.27	3/4	207.34	3/4		3/4	
4	2,577.95	4	2,235.37	4	1,892.80	4	1,550.22	4	1,207.65	4	866.75	4	525.13	4	201.04	4		4	
1/4	2,570.81	1/4	2,228.24	1/4	1,885.66	1/4	1,543.09	1/4	1,200.51	1/4	859.67	1/4	518.00	1/4	194.82	1/4		1/4	
1/2	2,563.68	1/2	2,221.10	1/2	1,878.52	1/2	1,535.95	1/2	1,193.37	1/2	852.59	1/2	510.86	1/2	188.60	1/2		1/2	
3/4	2,556.54	3/4	2,213.96	3/4	1,871.39	3/4	1,528.81	3/4	1,186.24	3/4	845.52	3/4	503.72	3/4	182.38	3/4		3/4	
5	2,549.40	5	2,206.83	5	1,864.25	5	1,521.67	5	1,179.10	5	838.44	5	496.59	5	176.16	5		5	
1/4	2,542.27	1/4	2,199.69	1/4	1,857.11	1/4	1,514.54	1/4	1,171.96	1/4	831.36	1/4	489.47	1/4	170.03	1/4		1/4	
1/2	2,535.13	1/2	2,192.55	1/2	1,849.98	1/2	1,507.40	1/2	1,164.82	1/2	824.29	1/2	482.36	1/2	163.89	1/2		1/2	
3/4	2,527.99	3/4	2,185.42	3/4	1,842.84	3/4	1,500.26	3/4	1,157.69	3/4	817.21	3/4	475.25	3/4	157.75	3/4		3/4	
6	2,520.85	6	2,178.28	6	1,835.70	6	1,493.13	6	1,150.55	6	810.14	6	468.13	6	151.62	6		6	
1/4	2,513.72	1/4	2,171.14	1/4	1,828.57	1/4	1,485.99	1/4	1,143.41	1/4	803.06	1/4	461.09	1/4	145.56	1/4		1/4	
1/2	2,506.58	1/2	2,164.00	1/2	1,821.43	1/2	1,478.85	1/2	1,136.28	1/2	795.97	1/2	454.04	1/2	139.51	1/2		1/2	
3/4	2,499.44	3/4	2,156.87	3/4	1,814.29	3/4	1,471.72	3/4	1,129.14	3/4	788.89	3/4	446.99	3/4	133.46	3/4		3/4	
7	2,492.31	7	2,149.73	7	1,807.15	7	1,464.58	7	1,122.00	7	781.81	7	439.94	7	127.41	7		7	
1/4	2,485.17	1/4	2,142.59	1/4	1,800.02	1/4	1,457.44	1/4	1,114.87	1/4	774.72	1/4	432.97	1/4	121.44	1/4		1/4	
1/2	2,478.03	1/2	2,135.46	1/2	1,792.88	1/2	1,450.30	1/2	1,107.73	1/2	767.63	1/2	426.01	1/2	115.47	1/2		1/2	
3/4	2,470.90	3/4	2,128.32	3/4	1,785.74	3/4	1,443.17	3/4	1,100.59	3/4	760.53	3/4	419.04	3/4	109.50	3/4		3/4	
8	2,463.76	8	2,121.18	8	1,778.61	8	1,436.03	8	1,093.45	8	753.44	8	412.07	8	103.53	8		8	
1/4	2,456.62	1/4	2,114.05	1/4	1,771.47	1/4	1,428.89	1/4	1,086.33	1/4	746.32	1/4	405.18	1/4	97.65	1/4		1/4	
1/2	2,449.48	1/2	2,106.91	1/2	1,764.33	1/2	1,421.76	1/2	1,079.21	1/2	739.20	1/2	398.30	1/2	91.77	1/2		1/2	
3/4	2,442.35	3/4	2,099.77	3/4	1,757.20	3/4	1,414.62	3/4	1,072.10	3/4	732.08	3/4	391.41	3/4	85.89	3/4		3/4	
9	2,435.21	9	2,092.63	9	1,750.06	9	1,407.48	9	1,064.98	9	724.96	9	384.52	9	80.01	9		9	
1/4	2,428.07	1/4	2,085.50	1/4	1,742.92	1/4	1,400.35	1/4	1,057.88	1/4	717.83	1/4	377.72	1/4	74.23	1/4		1/4	
1/2	2,420.94	1/2	2,078.36	1/2	1,735.78	1/2	1,393.21	1/2	1,050.79	1/2	710.69	1/2	370.92	1/2	68.45	1/2		1/2	
3/4	2,413.80	3/4	2,071.22	3/4	1,728.65	3/4	1,386.07	3/4	1,043.69	3/4	703.55	3/4	364.12	3/4	62.68	3/4		3/4	
10	2,406.66	10	2,064.09	10	1,721.51	10	1,378.93	10	1,036.60	10	696.42	10	357.31	10	56.90	10		10	
1/4	2,399.53	1/4	2,056.95	1/4	1,714.37	1/4	1,371.80	1/4	1,029.52	1/4	689.28	1/4	350.59	1/4	51.64	1/4		1/4	
1/2	2,392.39	1/2	2,049.81	1/2	1,707.24	1/2	1,364.66	1/2	1,022.44	1/2	682.14	1/2	343.87	1/2	46.39	1/2		1/2	
3/4	2,385.25	3/4	2,042.68	3/4	1,700.10	3/4	1,357.52	3/4	1,015.36	3/4	675.01	3/4	337.15	3/4	41.13	3/4		3/4	
11	2,378.11	11	2,035.54	11	1,692.96	11	1,350.39	11	1,008.28	11	667.87	11	330.43	11	35.88	11		11	
1/4	2,370.98	1/4	2,028.40	1/4	1,685.83	1/4	1,343.25	1/4	1,001.20	1/4	660.73	1/4	323.80	1/4	32.03	1/4		1/4	
1/2	2,363.84	1/2	2,021.26	1/2	1,678.69	1/2	1,336.11	1/2	994.12	1/2	653.60	1/2	317.16	1/2	28.18	1/2		1/2	
3/4	2,356.70	3/4	2,014.13	3/4	1,671.55	3/4	1,328.98	3/4	987.05	3/4	646.46	3/4	310.52	3/4	24.33	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020





BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

1 STBD
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,042.50	0	4,751.87	0	4,410.04	0	4,067.34	0	3,723.94	0	3,380.61	0	3,037.31		
1/4		1/4		1/4		1/4	5,040.49	1/4	4,744.75	1/4	4,402.92	1/4	4,060.18	1/4	3,716.78	1/4	3,373.46	1/4	3,030.16		
1/2		1/2		1/2		1/2	5,038.48	1/2	4,737.63	1/2	4,395.80	1/2	4,053.03	1/2	3,709.63	1/2	3,366.31	1/2	3,023.01		
3/4		3/4		3/4		3/4	5,036.48	3/4	4,730.51	3/4	4,388.68	3/4	4,045.87	3/4	3,702.48	3/4	3,359.16	3/4	3,015.86		
1		1		1		1	5,033.28	1	4,723.38	1	4,381.56	1	4,038.72	1	3,695.32	1	3,352.01	1	3,008.70		
1/4		1/4		1/4		1/4	5,030.07	1/4	4,716.26	1/4	4,374.44	1/4	4,031.57	1/4	3,688.17	1/4	3,344.85	1/4	3,001.55		
1/2		1/2		1/2		1/2	5,026.87	1/2	4,709.14	1/2	4,367.32	1/2	4,024.41	1/2	3,681.01	1/2	3,337.70	1/2	2,994.40		
3/4		3/4		3/4		3/4	5,023.67	3/4	4,702.02	3/4	4,360.19	3/4	4,017.26	3/4	3,673.86	3/4	3,330.55	3/4	2,987.24		
2		2		2		2	5,019.28	2	4,694.90	2	4,353.07	2	4,010.10	2	3,666.71	2	3,323.40	2	2,980.09		
1/4		1/4		1/4		1/4	5,014.89	1/4	4,687.78	1/4	4,345.95	1/4	4,002.95	1/4	3,659.55	1/4	3,316.25	1/4	2,972.93		
1/2		1/2		1/2		1/2	5,010.49	1/2	4,680.66	1/2	4,338.83	1/2	3,995.79	1/2	3,652.40	1/2	3,309.09	1/2	2,965.78		
3/4		3/4		3/4		3/4	5,006.10	3/4	4,673.54	3/4	4,331.71	3/4	3,988.64	3/4	3,645.24	3/4	3,301.94	3/4	2,958.63		
3		3		3		3	5,000.51	3	4,666.41	3	4,324.59	3	3,981.49	3	3,638.09	3	3,294.79	3	2,951.47		
1/4		1/4		1/4		1/4	4,994.93	1/4	4,659.29	1/4	4,317.47	1/4	3,974.33	1/4	3,630.94	1/4	3,287.64	1/4	2,944.32		
1/2		1/2		1/2		1/2	4,989.34	1/2	4,652.17	1/2	4,310.34	1/2	3,967.18	1/2	3,623.79	1/2	3,280.48	1/2	2,937.16		
3/4		3/4		3/4		3/4	4,983.75	3/4	4,645.05	3/4	4,303.22	3/4	3,960.02	3/4	3,616.63	3/4	3,273.33	3/4	2,930.01		
4		4		4		4	4,977.16	4	4,637.93	4	4,296.10	4	3,952.87	4	3,609.48	4	3,266.18	4	2,922.86		
1/4		1/4		1/4		1/4	4,970.57	1/4	4,630.81	1/4	4,288.98	1/4	3,945.72	1/4	3,602.33	1/4	3,259.03	1/4	2,915.70		
1/2		1/2		1/2		1/2	4,963.97	1/2	4,623.69	1/2	4,281.86	1/2	3,938.56	1/2	3,595.18	1/2	3,251.88	1/2	2,908.55		
3/4		3/4		3/4		3/4	4,957.38	3/4	4,616.56	3/4	4,274.74	3/4	3,931.41	3/4	3,588.03	3/4	3,244.72	3/4	2,901.39		
5		5		5		5	4,950.34	5	4,609.44	5	4,267.60	5	3,924.25	5	3,580.87	5	3,237.57	5	2,894.24		
1/4		1/4		1/4		1/4	4,943.31	1/4	4,602.32	1/4	4,260.46	1/4	3,917.10	1/4	3,573.72	1/4	3,230.42	1/4	2,887.09		
1/2		1/2		1/2		1/2	4,936.27	1/2	4,595.20	1/2	4,253.33	1/2	3,909.95	1/2	3,566.57	1/2	3,223.27	1/2	2,879.93		
3/4		3/4		3/4		3/4	4,929.24	3/4	4,588.08	3/4	4,246.19	3/4	3,902.79	3/4	3,559.42	3/4	3,216.12	3/4	2,872.78		
6		6		6		6	4,922.17	6	4,580.96	6	4,239.03	6	3,895.64	6	3,552.26	6	3,208.96	6	2,865.62		
1/4		1/4		1/4		1/4	4,915.10	1/4	4,573.84	1/4	4,231.88	1/4	3,888.48	1/4	3,545.11	1/4	3,201.81	1/4	2,858.47		
1/2		1/2		1/2		1/2	4,908.03	1/2	4,566.71	1/2	4,224.73	1/2	3,881.33	1/2	3,537.96	1/2	3,194.66	1/2	2,851.32		
3/4		3/4		3/4		3/4	4,900.96	3/4	4,559.59	3/4	4,217.57	3/4	3,874.17	3/4	3,530.81	3/4	3,187.51	3/4	2,844.16		
7		7		7		7	4,893.89	7	4,552.47	7	4,210.42	7	3,867.02	7	3,523.66	7	3,180.36	7	2,837.01		
1/4		1/4		1/4		1/4	4,886.81	1/4	4,545.35	1/4	4,203.26	1/4	3,859.87	1/4	3,516.50	1/4	3,173.20	1/4	2,829.85		
1/2		1/2		1/2		1/2	4,879.74	1/2	4,538.23	1/2	4,196.11	1/2	3,852.71	1/2	3,509.35	1/2	3,166.05	1/2	2,822.70		
3/4		3/4		3/4		3/4	4,872.66	3/4	4,531.11	3/4	4,188.96	3/4	3,845.56	3/4	3,502.20	3/4	3,158.90	3/4	2,815.55		
8		8		8		8	4,865.58	8	4,523.99	8	4,181.80	8	3,838.40	8	3,495.05	8	3,151.75	8	2,808.39		
1/4		1/4		1/4		1/4	4,858.51	1/4	4,516.86	1/4	4,174.65	1/4	3,831.25	1/4	3,487.90	1/4	3,144.60	1/4	2,801.24		
1/2		1/2		1/2		1/2	4,851.43	1/2	4,509.74	1/2	4,167.49	1/2	3,824.10	1/2	3,480.74	1/2	3,137.44	1/2	2,794.08		
3/4		3/4		3/4		3/4	4,844.36	3/4	4,502.62	3/4	4,160.34	3/4	3,816.94	3/4	3,473.59	3/4	3,130.29	3/4	2,786.93		
9		9		9		9	4,837.26	9	4,495.50	9	4,153.18	9	3,809.79	9	3,466.44	9	3,123.14	9	2,779.78		
1/4		1/4		1/4		1/4	4,830.16	1/4	4,488.38	1/4	4,146.03	1/4	3,802.63	1/4	3,459.29	1/4	3,115.99	1/4	2,772.62		
1/2		1/2		1/2		1/2	4,823.06	1/2	4,481.26	1/2	4,138.88	1/2	3,795.48	1/2	3,452.14	1/2	3,108.83	1/2	2,765.47		
3/4		3/4		3/4		3/4	4,815.96	3/4	4,474.14	3/4	4,131.72	3/4	3,788.33	3/4	3,444.98	3/4	3,101.68	3/4	2,758.31		
10		10		10		10	4,808.84	10	4,467.01	10	4,124.57	10	3,781.17	10	3,437.83	10	3,094.53	10	2,751.16		
1/4		1/4		1/4		1/4	4,801.72	1/4	4,459.89	1/4	4,117.41	1/4	3,774.02	1/4	3,430.68	1/4	3,087.38	1/4	2,744.01		
1/2		1/2		1/2		1/2	4,794.60	1/2	4,452.77	1/2	4,110.26	1/2	3,766.86	1/2	3,423.53	1/2	3,080.23	1/2	2,736.85		
3/4		3/4		3/4		3/4	5,048.23	3/4	4,787.48	3/4	4,445.65	3/4	4,103.11	3/4	3,759.71	3/4	3,416.37	3/4	2,729.70		
11		11		11		11	5,047.30	11	4,780.36	11	4,438.53	11	4,095.95	11	3,752.56	11	3,409.22	11	3,065.92	11	2,722.54
1/4		1/4		1/4		1/4	5,046.37	1/4	4,773.23	1/4	4,431.41	1/4	4,088.80	1/4	3,745.40	1/4	3,402.07	1/4	3,058.77	1/4	2,715.39
1/2		1/2		1/2		1/2	5,045.44	1/2	4,766.11	1/2	4,424.29	1/2	4,081.64	1/2	3,738.25	1/2	3,394.92	1/2	3,051.62	1/2	2,708.24
3/4		3/4		3/4		3/4	5,044.51	3/4	4,758.99	3/4	4,417.16	3/4	4,074.49	3/4	3,731.09	3/4	3,387.77	3/4	3,044.47	3/4	2,701.08

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-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 "HSM 3316"

formerly the

BARGE "FMT 3316"

1 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,693.93	0	2,350.52	0	2,007.10	0	1,663.68	0	1,320.27	0	976.92	0	633.73	0	298.02	0	17.72	0	
1/4	2,686.77	1/4	2,343.36	1/4	1,999.95	1/4	1,656.53	1/4	1,313.11	1/4	969.77	1/4	626.58	1/4	291.46	1/4	14.92	1/4	
1/2	2,679.62	1/2	2,336.21	1/2	1,992.79	1/2	1,649.37	1/2	1,305.96	1/2	962.63	1/2	619.42	1/2	284.89	1/2	12.11	1/2	
3/4	2,672.47	3/4	2,329.05	3/4	1,985.64	3/4	1,642.22	3/4	1,298.80	3/4	955.48	3/4	612.27	3/4	278.32	3/4	9.31	3/4	
1	2,665.31	1	2,321.90	1	1,978.48	1	1,635.07	1	1,291.65	1	948.33	1	605.12	1	271.83	1	7.52	1	
1/4	2,658.16	1/4	2,314.74	1/4	1,971.33	1/4	1,627.91	1/4	1,284.50	1/4	941.19	1/4	597.96	1/4	265.35	1/4	5.73	1/4	
1/2	2,651.00	1/2	2,307.59	1/2	1,964.17	1/2	1,620.76	1/2	1,277.34	1/2	934.04	1/2	590.81	1/2	258.86	1/2	3.95	1/2	
3/4	2,643.85	3/4	2,300.43	3/4	1,957.02	3/4	1,613.60	3/4	1,270.19	3/4	926.90	3/4	583.65	3/4	252.38	3/4	2.16	3/4	
2	2,636.70	2	2,293.28	2	1,949.86	2	1,606.45	2	1,263.03	2	919.75	2	576.50	2	245.98	2		2	
1/4	2,629.54	1/4	2,286.13	1/4	1,942.71	1/4	1,599.29	1/4	1,255.88	1/4	912.61	1/4	569.34	1/4	239.58	1/4		1/4	
1/2	2,622.39	1/2	2,278.97	1/2	1,935.55	1/2	1,592.14	1/2	1,248.72	1/2	905.46	1/2	562.19	1/2	233.17	1/2		1/2	
3/4	2,615.23	3/4	2,271.82	3/4	1,928.40	3/4	1,584.98	3/4	1,241.57	3/4	898.31	3/4	555.04	3/4	226.77	3/4		3/4	
3	2,608.08	3	2,264.66	3	1,921.25	3	1,577.83	3	1,234.41	3	891.17	3	547.88	3	220.46	3		3	
1/4	2,600.92	1/4	2,257.51	1/4	1,914.09	1/4	1,570.68	1/4	1,227.26	1/4	884.02	1/4	540.73	1/4	214.14	1/4		1/4	
1/2	2,593.77	1/2	2,250.35	1/2	1,906.94	1/2	1,563.52	1/2	1,220.10	1/2	876.88	1/2	533.57	1/2	207.82	1/2		1/2	
3/4	2,586.61	3/4	2,243.20	3/4	1,899.78	3/4	1,556.37	3/4	1,212.95	3/4	869.73	3/4	526.42	3/4	201.50	3/4		3/4	
4	2,579.46	4	2,236.04	4	1,892.63	4	1,549.21	4	1,205.80	4	862.59	4	519.26	4	195.27	4		4	
1/4	2,572.31	1/4	2,228.89	1/4	1,885.47	1/4	1,542.06	1/4	1,198.64	1/4	855.44	1/4	512.11	1/4	189.03	1/4		1/4	
1/2	2,565.15	1/2	2,221.73	1/2	1,878.32	1/2	1,534.90	1/2	1,191.49	1/2	848.30	1/2	504.96	1/2	182.80	1/2		1/2	
3/4	2,558.00	3/4	2,214.58	3/4	1,871.16	3/4	1,527.75	3/4	1,184.33	3/4	841.15	3/4	497.80	3/4	176.57	3/4		3/4	
5	2,550.84	5	2,207.43	5	1,864.01	5	1,520.59	5	1,177.18	5	834.01	5	490.67	5	170.42	5		5	
1/4	2,543.69	1/4	2,200.27	1/4	1,856.86	1/4	1,513.44	1/4	1,170.02	1/4	826.86	1/4	483.53	1/4	164.27	1/4		1/4	
1/2	2,536.53	1/2	2,193.12	1/2	1,849.70	1/2	1,506.28	1/2	1,162.87	1/2	819.71	1/2	476.40	1/2	158.11	1/2		1/2	
3/4	2,529.38	3/4	2,185.96	3/4	1,842.55	3/4	1,499.13	3/4	1,155.71	3/4	812.57	3/4	469.27	3/4	151.96	3/4		3/4	
6	2,522.22	6	2,178.81	6	1,835.39	6	1,491.98	6	1,148.56	6	805.42	6	462.20	6	145.90	6		6	
1/4	2,515.07	1/4	2,171.65	1/4	1,828.24	1/4	1,484.82	1/4	1,141.41	1/4	798.27	1/4	455.13	1/4	139.83	1/4		1/4	
1/2	2,507.91	1/2	2,164.50	1/2	1,821.08	1/2	1,477.67	1/2	1,134.25	1/2	791.12	1/2	448.06	1/2	133.76	1/2		1/2	
3/4	2,500.76	3/4	2,157.34	3/4	1,813.93	3/4	1,470.51	3/4	1,127.10	3/4	783.97	3/4	440.99	3/4	127.70	3/4		3/4	
7	2,493.61	7	2,150.19	7	1,806.77	7	1,463.36	7	1,119.94	7	776.82	7	434.00	7	121.72	7		7	
1/4	2,486.45	1/4	2,143.04	1/4	1,799.62	1/4	1,456.20	1/4	1,112.79	1/4	769.66	1/4	427.01	1/4	115.73	1/4		1/4	
1/2	2,479.30	1/2	2,135.88	1/2	1,792.46	1/2	1,449.05	1/2	1,105.63	1/2	762.51	1/2	420.02	1/2	109.75	1/2		1/2	
3/4	2,472.14	3/4	2,128.73	3/4	1,785.31	3/4	1,441.89	3/4	1,098.48	3/4	755.36	3/4	413.04	3/4	103.77	3/4		3/4	
8	2,464.99	8	2,121.57	8	1,778.16	8	1,434.74	8	1,091.32	8	748.20	8	406.13	8	97.87	8		8	
1/4	2,457.83	1/4	2,114.42	1/4	1,771.00	1/4	1,427.59	1/4	1,084.17	1/4	741.05	1/4	399.23	1/4	91.98	1/4		1/4	
1/2	2,450.68	1/2	2,107.26	1/2	1,763.85	1/2	1,420.43	1/2	1,077.01	1/2	733.89	1/2	392.33	1/2	86.09	1/2		1/2	
3/4	2,443.52	3/4	2,100.11	3/4	1,756.69	3/4	1,413.28	3/4	1,069.86	3/4	726.74	3/4	385.42	3/4	80.19	3/4		3/4	
9	2,436.37	9	2,092.95	9	1,749.54	9	1,406.12	9	1,062.71	9	719.58	9	378.61	9	74.40	9		9	
1/4	2,429.22	1/4	2,085.80	1/4	1,742.38	1/4	1,398.97	1/4	1,055.55	1/4	712.43	1/4	371.79	1/4	68.61	1/4		1/4	
1/2	2,422.06	1/2	2,078.64	1/2	1,735.23	1/2	1,391.81	1/2	1,048.40	1/2	705.28	1/2	364.97	1/2	62.82	1/2		1/2	
3/4	2,414.91	3/4	2,071.49	3/4	1,728.07	3/4	1,384.66	3/4	1,041.24	3/4	698.12	3/4	358.15	3/4	57.02	3/4		3/4	
10	2,407.75	10	2,064.34	10	1,720.92	10	1,377.50	10	1,034.09	10	690.97	10	351.41	10	51.76	10		10	
1/4	2,400.60	1/4	2,057.18	1/4	1,713.77	1/4	1,370.35	1/4	1,026.94	1/4	683.81	1/4	344.67	1/4	46.49	1/4		1/4	
1/2	2,393.44	1/2	2,050.03	1/2	1,706.61	1/2	1,363.19	1/2	1,019.79	1/2	676.66	1/2	337.94	1/2	41.23	1/2		1/2	
3/4	2,386.29	3/4	2,042.87	3/4	1,699.46	3/4	1,356.04	3/4	1,012.64	3/4	669.50	3/4	331.20	3/4	35.96	3/4		3/4	
11	2,379.13	11	2,035.72	11	1,692.30	11	1,348.89	11	1,005.50	11	662.35	11	324.55	11	32.10	11		11	
1/4	2,371.98	1/4	2,028.56	1/4	1,685.15	1/4	1,341.73	1/4	998.35	1/4	655.20	1/4	317.90	1/4	28.24	1/4		1/4	
1/2	2,364.82	1/2	2,021.41	1/2	1,677.99	1/2	1,334.58	1/2	991.21	1/2	648.04	1/2	311.25	1/2	24.38	1/2		1/2	
3/4	2,357.67	3/4	2,014.25	3/4	1,670.84	3/4	1,327.42	3/4	984.06	3/4	640.89	3/4	304.59	3/4	20.52	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

2 PORT
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,091.15	0	4,811.91	0	4,470.17	0	4,127.61	0	3,784.31	0	3,441.00	0	3,097.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,090.22	1/4	4,804.79	1/4	4,463.05	1/4	4,120.46	1/4	3,777.16	1/4	3,433.85	1/4	3,090.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,088.22	1/2	4,797.67	1/2	4,455.93	1/2	4,113.31	1/2	3,770.00	1/2	3,426.70	1/2	3,083.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,086.21	3/4	4,790.55	3/4	4,448.81	3/4	4,106.16	3/4	3,762.85	3/4	3,419.55	3/4	3,076.24		
1	1	1	1	1	1	1	5,084.20	1	4,783.43	1	4,441.69	1	4,099.01	1	3,755.70	1	3,412.39	1	3,069.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,082.20	1/4	4,776.31	1/4	4,434.57	1/4	4,091.85	1/4	3,748.55	1/4	3,405.24	1/4	3,061.94		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,079.00	1/2	4,769.19	1/2	4,427.45	1/2	4,084.70	1/2	3,741.40	1/2	3,398.09	1/2	3,054.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,075.80	3/4	4,762.07	3/4	4,420.33	3/4	4,077.55	3/4	3,734.24	3/4	3,390.94	3/4	3,047.64		
2	2	2	2	2	2	2	5,072.60	2	4,754.95	2	4,413.21	2	4,070.40	2	3,727.09	2	3,383.79	2	3,040.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,069.40	1/4	4,747.84	1/4	4,406.09	1/4	4,063.25	1/4	3,719.94	1/4	3,376.63	1/4	3,033.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,065.01	1/2	4,740.72	1/2	4,398.97	1/2	4,056.09	1/2	3,712.79	1/2	3,369.48	1/2	3,026.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,060.61	3/4	4,733.60	3/4	4,391.86	3/4	4,048.94	3/4	3,705.64	3/4	3,362.33	3/4	3,019.04		
3	3	3	3	3	3	3	5,056.22	3	4,726.48	3	4,384.74	3	4,041.79	3	3,698.48	3	3,355.18	3	3,011.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,051.83	1/4	4,719.36	1/4	4,377.62	1/4	4,034.64	1/4	3,691.33	1/4	3,348.03	1/4	3,004.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,046.25	1/2	4,712.24	1/2	4,370.50	1/2	4,027.48	1/2	3,684.18	1/2	3,340.87	1/2	2,997.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,040.66	3/4	4,705.12	3/4	4,363.38	3/4	4,020.33	3/4	3,677.03	3/4	3,333.72	3/4	2,990.42		
4	4	4	4	4	4	4	5,035.08	4	4,698.00	4	4,356.26	4	4,013.18	4	3,669.87	4	3,326.57	4	2,983.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,029.49	1/4	4,690.88	1/4	4,349.14	1/4	4,006.03	1/4	3,662.72	1/4	3,319.42	1/4	2,976.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,022.90	1/2	4,683.76	1/2	4,342.02	1/2	3,998.88	1/2	3,655.57	1/2	3,312.26	1/2	2,968.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,016.31	3/4	4,676.64	3/4	4,334.90	3/4	3,991.72	3/4	3,648.42	3/4	3,305.11	3/4	2,961.81		
5	5	5	5	5	5	5	5,009.71	5	4,669.52	5	4,327.78	5	3,984.57	5	3,641.27	5	3,297.96	5	2,954.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,003.12	1/4	4,662.40	1/4	4,320.66	1/4	3,977.42	1/4	3,634.11	1/4	3,290.81	1/4	2,947.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,996.09	1/2	4,655.28	1/2	4,313.52	1/2	3,970.27	1/2	3,626.96	1/2	3,283.66	1/2	2,940.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,989.06	3/4	4,648.16	3/4	4,306.39	3/4	3,963.11	3/4	3,619.81	3/4	3,276.50	3/4	2,933.19		
6	6	6	6	6	6	6	4,982.02	6	4,641.04	6	4,299.25	6	3,955.96	6	3,612.66	6	3,269.35	6	2,926.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,974.99	1/4	4,633.92	1/4	4,292.12	1/4	3,948.81	1/4	3,605.50	1/4	3,262.20	1/4	2,918.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,967.92	1/2	4,626.80	1/2	4,284.96	1/2	3,941.66	1/2	3,598.35	1/2	3,255.05	1/2	2,911.73		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,960.86	3/4	4,619.68	3/4	4,277.81	3/4	3,934.51	3/4	3,591.20	3/4	3,247.89	3/4	2,904.57		
7	7	7	7	7	7	7	4,953.79	7	4,612.56	7	4,270.66	7	3,927.35	7	3,584.05	7	3,240.74	7	2,897.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,946.73	1/4	4,605.44	1/4	4,263.51	1/4	3,920.20	1/4	3,576.90	1/4	3,233.59	1/4	2,890.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,939.65	1/2	4,598.32	1/2	4,256.35	1/2	3,913.05	1/2	3,569.74	1/2	3,226.44	1/2	2,883.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,932.58	3/4	4,591.20	3/4	4,249.20	3/4	3,905.90	3/4	3,562.59	3/4	3,219.29	3/4	2,875.96		
8	8	8	8	8	8	8	4,925.51	8	4,584.08	8	4,242.05	8	3,898.74	8	3,555.44	8	3,212.13	8	2,868.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,918.43	1/4	4,576.96	1/4	4,234.90	1/4	3,891.59	1/4	3,548.29	1/4	3,204.98	1/4	2,861.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,911.36	1/2	4,569.85	1/2	4,227.75	1/2	3,884.44	1/2	3,541.13	1/2	3,197.83	1/2	2,854.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,904.28	3/4	4,562.73	3/4	4,220.59	3/4	3,877.29	3/4	3,533.98	3/4	3,190.68	3/4	2,847.34		
9	9	9	9	9	9	9	4,897.21	9	4,555.61	9	4,213.44	9	3,870.14	9	3,526.83	9	3,183.52	9	2,840.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,890.13	1/4	4,548.49	1/4	4,206.29	1/4	3,862.98	1/4	3,519.68	1/4	3,176.37	1/4	2,833.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,883.04	1/2	4,541.37	1/2	4,199.14	1/2	3,855.83	1/2	3,512.53	1/2	3,169.22	1/2	2,825.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,875.94	3/4	4,534.25	3/4	4,191.98	3/4	3,848.68	3/4	3,505.37	3/4	3,162.07	3/4	2,818.72		
10	10	10	10	10	10	10	4,868.85	10	4,527.13	10	4,184.83	10	3,841.53	10	3,498.22	10	3,154.92	10	2,811.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,861.75	1/4	4,520.01	1/4	4,177.68	1/4	3,834.37	1/4	3,491.07	1/4	3,147.76	1/4	2,804.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,854.63	1/2	4,512.89	1/2	4,170.53	1/2	3,827.22	1/2	3,483.92	1/2	3,140.61	1/2	2,797.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,847.51	3/4	4,505.77	3/4	4,163.38	3/4	3,820.07	3/4	3,476.76	3/4	3,133.46	3/4	2,790.10		
11	11	11	11	11	11	11	4,840.39	11	4,498.65	11	4,156.22	11	3,812.92	11	3,469.61	11	3,126.31	11	2,782.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,093.94	1/4	4,833.27	1/4	4,491.53	1/4	4,149.07	1/4	3,805.77	1/4	3,462.46	1/4	3,119.15	1/4	2,775.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,093.01	1/2	4,826.15	1/2	4,484.41	1/2	4,141.92	1/2	3,798.61	1/2	3,455.31	1/2	3,112.00	1/2	2,768.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,092.08	3/4	4,819.03	3/4	4,477.29	3/4	4,134.77	3/4	3,791.46	3/4	3,448.16	3/4	3,104.85	3/4	2,761.49

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-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 "HSM 3316"

formerly the
BARGE "FMT 3316"

2 PORT
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,754.33	0	2,410.93	0	2,067.52	0	1,724.11	0	1,380.71	0	1,041.17	0	708.41	0	365.02	0	28.98	0	
1/4	2,747.18	1/4	2,403.77	1/4	2,060.37	1/4	1,716.96	1/4	1,373.55	1/4	1,034.32	1/4	701.26	1/4	357.87	1/4	23.62	1/4	
1/2	2,740.02	1/2	2,396.62	1/2	2,053.21	1/2	1,709.80	1/2	1,366.40	1/2	1,027.48	1/2	694.10	1/2	350.71	1/2	20.04	1/2	
3/4	2,732.87	3/4	2,389.46	3/4	2,046.06	3/4	1,702.65	3/4	1,359.24	3/4	1,020.63	3/4	686.95	3/4	343.56	3/4	16.46	3/4	
1	2,725.72	1	2,382.31	1	2,038.90	1	1,695.50	1	1,352.09	1	1,013.78	1	679.80	1	336.40	1	12.88	1	
1/4	2,718.56	1/4	2,375.15	1/4	2,031.75	1/4	1,688.34	1/4	1,344.94	1/4	1,006.94	1/4	672.64	1/4	329.25	1/4	9.31	1/4	
1/2	2,711.41	1/2	2,368.00	1/2	2,024.59	1/2	1,681.19	1/2	1,337.78	1/2	1,000.09	1/2	665.49	1/2	322.10	1/2	7.52	1/2	
3/4	2,704.25	3/4	2,360.85	3/4	2,017.44	3/4	1,674.03	3/4	1,330.63	3/4	993.24	3/4	658.33	3/4	314.94	3/4	5.73	3/4	
2	2,697.10	2	2,353.69	2	2,010.29	2	1,666.88	2	1,323.47	2	986.40	2	651.18	2	307.79	2	3.94	2	
1/4	2,689.94	1/4	2,346.54	1/4	2,003.13	1/4	1,659.72	1/4	1,316.32	1/4	979.55	1/4	644.03	1/4	300.63	1/4	2.15	1/4	
1/2	2,682.79	1/2	2,339.38	1/2	1,995.98	1/2	1,652.57	1/2	1,309.16	1/2	972.70	1/2	636.87	1/2	293.48	1/2		1/2	
3/4	2,675.64	3/4	2,332.23	3/4	1,988.82	3/4	1,645.42	3/4	1,302.01	3/4	965.86	3/4	629.72	3/4	286.33	3/4		3/4	
3	2,668.48	3	2,325.07	3	1,981.67	3	1,638.26	3	1,294.86	3	959.01	3	622.56	3	279.17	3		3	
1/4	2,661.33	1/4	2,317.92	1/4	1,974.51	1/4	1,631.11	1/4	1,287.70	1/4	952.16	1/4	615.41	1/4	272.02	1/4		1/4	
1/2	2,654.17	1/2	2,310.77	1/2	1,967.36	1/2	1,623.95	1/2	1,280.55	1/2	945.32	1/2	608.26	1/2	264.86	1/2		1/2	
3/4	2,647.02	3/4	2,303.61	3/4	1,960.21	3/4	1,616.80	3/4	1,273.39	3/4	938.47	3/4	601.10	3/4	257.71	3/4		3/4	
4	2,639.86	4	2,296.46	4	1,953.05	4	1,609.64	4	1,266.24	4	931.62	4	593.95	4	250.56	4		4	
1/4	2,632.71	1/4	2,289.30	1/4	1,945.90	1/4	1,602.49	1/4	1,259.08	1/4	924.78	1/4	586.79	1/4	243.40	1/4		1/4	
1/2	2,625.56	1/2	2,282.15	1/2	1,938.74	1/2	1,595.34	1/2	1,251.93	1/2	917.93	1/2	579.64	1/2	236.25	1/2		1/2	
3/4	2,618.40	3/4	2,274.99	3/4	1,931.59	3/4	1,588.18	3/4	1,244.78	3/4	911.09	3/4	572.49	3/4	229.09	3/4		3/4	
5	2,611.25	5	2,267.84	5	1,924.43	5	1,581.03	5	1,237.62	5	904.24	5	565.33	5	221.94	5		5	
1/4	2,604.09	1/4	2,260.69	1/4	1,917.28	1/4	1,573.87	1/4	1,230.47	1/4	897.39	1/4	558.18	1/4	214.79	1/4		1/4	
1/2	2,596.94	1/2	2,253.53	1/2	1,910.13	1/2	1,566.72	1/2	1,223.31	1/2	890.55	1/2	551.02	1/2	207.63	1/2		1/2	
3/4	2,589.78	3/4	2,246.38	3/4	1,902.97	3/4	1,559.56	3/4	1,216.16	3/4	883.70	3/4	543.87	3/4	200.48	3/4		3/4	
6	2,582.63	6	2,239.22	6	1,895.82	6	1,552.41	6	1,209.00	6	876.85	6	536.72	6	193.32	6		6	
1/4	2,575.48	1/4	2,232.07	1/4	1,888.66	1/4	1,545.26	1/4	1,201.85	1/4	870.01	1/4	529.56	1/4	186.17	1/4		1/4	
1/2	2,568.32	1/2	2,224.91	1/2	1,881.51	1/2	1,538.10	1/2	1,194.70	1/2	863.16	1/2	522.41	1/2	179.02	1/2		1/2	
3/4	2,561.17	3/4	2,217.76	3/4	1,874.35	3/4	1,530.95	3/4	1,187.54	3/4	856.31	3/4	515.25	3/4	171.86	3/4		3/4	
7	2,554.01	7	2,210.61	7	1,867.20	7	1,523.79	7	1,180.39	7	849.46	7	508.10	7	164.71	7		7	
1/4	2,546.86	1/4	2,203.45	1/4	1,860.05	1/4	1,516.64	1/4	1,173.23	1/4	842.61	1/4	500.95	1/4	157.55	1/4		1/4	
1/2	2,539.70	1/2	2,196.30	1/2	1,852.89	1/2	1,509.48	1/2	1,166.08	1/2	835.74	1/2	493.79	1/2	150.40	1/2		1/2	
3/4	2,532.55	3/4	2,189.14	3/4	1,845.74	3/4	1,502.33	3/4	1,158.92	3/4	828.88	3/4	486.64	3/4	143.25	3/4		3/4	
8	2,525.40	8	2,181.99	8	1,838.58	8	1,495.18	8	1,151.77	8	822.02	8	479.48	8	136.09	8		8	
1/4	2,518.24	1/4	2,174.83	1/4	1,831.43	1/4	1,488.02	1/4	1,144.62	1/4	815.15	1/4	472.33	1/4	128.94	1/4		1/4	
1/2	2,511.09	1/2	2,167.68	1/2	1,824.27	1/2	1,480.87	1/2	1,137.46	1/2	808.14	1/2	465.18	1/2	121.79	1/2		1/2	
3/4	2,503.93	3/4	2,160.53	3/4	1,817.12	3/4	1,473.71	3/4	1,130.31	3/4	801.13	3/4	458.02	3/4	114.64	3/4		3/4	
9	2,496.78	9	2,153.37	9	1,809.97	9	1,466.56	9	1,123.58	9	794.12	9	450.87	9	107.50	9		9	
1/4	2,489.62	1/4	2,146.22	1/4	1,802.81	1/4	1,459.40	1/4	1,116.42	1/4	787.11	1/4	443.71	1/4	100.35	1/4		1/4	
1/2	2,482.47	1/2	2,139.06	1/2	1,795.66	1/2	1,452.25	1/2	1,109.26	1/2	779.95	1/2	436.56	1/2	93.22	1/2		1/2	
3/4	2,475.31	3/4	2,131.91	3/4	1,788.50	3/4	1,445.10	3/4	1,102.10	3/4	772.80	3/4	429.41	3/4	86.09	3/4		3/4	
10	2,468.16	10	2,124.75	10	1,781.35	10	1,437.94	10	1,095.97	10	765.64	10	422.25	10	78.96	10		10	
1/4	2,461.01	1/4	2,117.60	1/4	1,774.19	1/4	1,430.79	1/4	1,088.81	1/4	758.49	1/4	415.10	1/4	71.83	1/4		1/4	
1/2	2,453.85	1/2	2,110.45	1/2	1,767.04	1/2	1,423.63	1/2	1,081.65	1/2	751.34	1/2	407.94	1/2	65.14	1/2		1/2	
3/4	2,446.70	3/4	2,103.29	3/4	1,759.88	3/4	1,416.48	3/4	1,074.49	3/4	744.18	3/4	400.79	3/4	58.45	3/4		3/4	
11	2,439.54	11	2,096.14	11	1,752.73	11	1,409.32	11	1,067.33	11	737.03	11	393.64	11	51.76	11		11	
1/4	2,432.39	1/4	2,088.98	1/4	1,745.58	1/4	1,402.17	1/4	1,060.17	1/4	729.87	1/4	386.48	1/4	45.07	1/4		1/4	
1/2	2,425.23	1/2	2,081.83	1/2	1,738.42	1/2	1,395.02	1/2	1,053.02	1/2	722.72	1/2	379.33	1/2	39.71	1/2		1/2	
3/4	2,418.08	3/4	2,074.67	3/4	1,731.27	3/4	1,387.86	3/4	1,045.86	3/4	715.57	3/4	372.17	3/4	34.34	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

2 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,113.94	0	4,834.14	0	4,491.75	0	4,148.53	0	3,804.57	0	3,460.67	0	3,116.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,113.00	1/4	4,827.01	1/4	4,484.61	1/4	4,141.37	1/4	3,797.40	1/4	3,453.51	1/4	3,109.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,110.99	1/2	4,819.87	1/2	4,477.48	1/2	4,134.20	1/2	3,790.24	1/2	3,446.34	1/2	3,102.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,108.98	3/4	4,812.74	3/4	4,470.35	3/4	4,127.03	3/4	3,783.07	3/4	3,439.18	3/4	3,095.31
1		1		1		1	5,106.97	1	4,805.61	1	4,463.21	1	4,119.87	1	3,775.91	1	3,432.01	1	3,088.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,104.95	1/4	4,798.47	1/4	4,456.08	1/4	4,112.70	1/4	3,768.74	1/4	3,424.85	1/4	3,080.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,101.75	1/2	4,791.34	1/2	4,448.95	1/2	4,105.54	1/2	3,761.57	1/2	3,417.69	1/2	3,073.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,098.54	3/4	4,784.21	3/4	4,441.81	3/4	4,098.37	3/4	3,754.41	3/4	3,410.52	3/4	3,066.65
2		2		2		2	5,095.33	2	4,777.07	2	4,434.68	2	4,091.21	2	3,747.24	2	3,403.36	2	3,059.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,092.13	1/4	4,769.94	1/4	4,427.55	1/4	4,084.04	1/4	3,740.08	1/4	3,396.20	1/4	3,052.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,087.73	1/2	4,762.81	1/2	4,420.41	1/2	4,076.87	1/2	3,732.91	1/2	3,389.03	1/2	3,045.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,083.33	3/4	4,755.67	3/4	4,413.28	3/4	4,069.71	3/4	3,725.74	3/4	3,381.87	3/4	3,037.99
3		3		3		3	5,078.93	3	4,748.54	3	4,406.15	3	4,062.54	3	3,718.58	3	3,374.70	3	3,030.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,074.52	1/4	4,741.41	1/4	4,399.01	1/4	4,055.38	1/4	3,711.41	1/4	3,367.54	1/4	3,023.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,068.93	1/2	4,734.27	1/2	4,391.88	1/2	4,048.21	1/2	3,704.25	1/2	3,360.38	1/2	3,016.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,063.33	3/4	4,727.14	3/4	4,384.75	3/4	4,041.04	3/4	3,697.08	3/4	3,353.21	3/4	3,009.32
4		4		4		4	5,057.74	4	4,720.01	4	4,377.61	4	4,033.88	4	3,689.92	4	3,346.05	4	3,002.16
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,052.14	1/4	4,712.87	1/4	4,370.48	1/4	4,026.71	1/4	3,682.75	1/4	3,338.88	1/4	2,994.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,045.54	1/2	4,705.74	1/2	4,363.35	1/2	4,019.55	1/2	3,675.59	1/2	3,331.72	1/2	2,987.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,038.93	3/4	4,698.61	3/4	4,356.21	3/4	4,012.38	3/4	3,668.42	3/4	3,324.56	3/4	2,980.66
5		5		5		5	5,032.33	5	4,691.47	5	4,349.08	5	4,005.21	5	3,661.26	5	3,317.39	5	2,973.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,025.72	1/4	4,684.34	1/4	4,341.95	1/4	3,998.05	1/4	3,654.10	1/4	3,310.23	1/4	2,966.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,018.67	1/2	4,677.21	1/2	4,334.80	1/2	3,990.88	1/2	3,646.93	1/2	3,303.06	1/2	2,959.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,011.63	3/4	4,670.08	3/4	4,327.65	3/4	3,983.72	3/4	3,639.77	3/4	3,295.90	3/4	2,951.99
6		6		6		6	5,004.58	6	4,662.94	6	4,320.50	6	3,976.55	6	3,632.60	6	3,288.74	6	2,944.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,997.53	1/4	4,655.81	1/4	4,313.35	1/4	3,969.38	1/4	3,625.44	1/4	3,281.57	1/4	2,937.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,990.45	1/2	4,648.68	1/2	4,306.18	1/2	3,962.22	1/2	3,618.28	1/2	3,274.41	1/2	2,930.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,983.37	3/4	4,641.54	3/4	4,299.02	3/4	3,955.05	3/4	3,611.11	3/4	3,267.24	3/4	2,923.33
7		7		7		7	4,976.29	7	4,634.41	7	4,291.85	7	3,947.89	7	3,603.95	7	3,260.08	7	2,916.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,969.21	1/4	4,627.28	1/4	4,284.68	1/4	3,940.72	1/4	3,596.78	1/4	3,252.92	1/4	2,909.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,962.13	1/2	4,620.14	1/2	4,277.52	1/2	3,933.56	1/2	3,589.62	1/2	3,245.75	1/2	2,901.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,955.04	3/4	4,613.01	3/4	4,270.35	3/4	3,926.39	3/4	3,582.46	3/4	3,238.59	3/4	2,894.67
8		8		8		8	4,947.95	8	4,605.88	8	4,263.19	8	3,919.22	8	3,575.29	8	3,231.43	8	2,887.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,940.87	1/4	4,598.74	1/4	4,256.02	1/4	3,912.06	1/4	3,568.13	1/4	3,224.26	1/4	2,880.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,933.78	1/2	4,591.61	1/2	4,248.85	1/2	3,904.89	1/2	3,560.96	1/2	3,217.10	1/2	2,873.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,926.69	3/4	4,584.48	3/4	4,241.69	3/4	3,897.73	3/4	3,553.80	3/4	3,209.93	3/4	2,866.00
9		9		9		9	4,919.60	9	4,577.34	9	4,234.52	9	3,890.56	9	3,546.64	9	3,202.77	9	2,858.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,912.51	1/4	4,570.21	1/4	4,227.36	1/4	3,883.39	1/4	3,539.47	1/4	3,195.61	1/4	2,851.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,905.40	1/2	4,563.08	1/2	4,220.19	1/2	3,876.23	1/2	3,532.31	1/2	3,188.44	1/2	2,844.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,898.29	3/4	4,555.94	3/4	4,213.03	3/4	3,869.06	3/4	3,525.15	3/4	3,181.28	3/4	2,837.34
10		10		10		10	4,891.18	10	4,548.81	10	4,205.86	10	3,861.90	10	3,517.98	10	3,174.11	10	2,830.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,884.07	1/4	4,541.68	1/4	4,198.69	1/4	3,854.73	1/4	3,510.82	1/4	3,166.95	1/4	2,823.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,876.94	1/2	4,534.54	1/2	4,191.53	1/2	3,847.56	1/2	3,503.65	1/2	3,159.79	1/2	2,815.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,869.80	3/4	4,527.41	3/4	4,184.36	3/4	3,840.40	3/4	3,496.49	3/4	3,152.62	3/4	2,808.68
11		11		11		11	4,862.67	11	4,520.28	11	4,177.20	11	3,833.23	11	3,489.33	11	3,145.46	11	2,801.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,116.73	1/4	4,855.54	1/4	4,513.14	1/4	4,170.03	1/4	3,826.07	1/4	3,482.16	1/4	2,794.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,115.80	1/2	4,848.41	1/2	4,506.01	1/2	4,162.86	1/2	3,818.90	1/2	3,475.00	1/2	2,787.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,114.87	3/4	4,841.27	3/4	4,498.88	3/4	4,155.70	3/4	3,811.73	3/4	3,467.83	3/4	2,780.01

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-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 "HSM 3316"
formerly the
BARGE "FMT 3316"

2 STBD
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,772.85	0	2,428.88	0	2,084.92	0	1,740.96	0	1,396.99	0	1,053.12	0	709.56	0	365.61	0	29.03	0	
1/4	2,765.68	1/4	2,421.72	1/4	2,077.75	1/4	1,733.79	1/4	1,389.83	1/4	1,045.97	1/4	702.40	1/4	358.45	1/4	23.65	1/4	
1/2	2,758.52	1/2	2,414.55	1/2	2,070.59	1/2	1,726.63	1/2	1,382.66	1/2	1,038.82	1/2	695.23	1/2	351.28	1/2	20.07	1/2	
3/4	2,751.35	3/4	2,407.39	3/4	2,063.42	3/4	1,719.46	3/4	1,375.50	3/4	1,031.67	3/4	688.07	3/4	344.12	3/4	16.49	3/4	
1	2,744.18	1	2,400.22	1	2,056.26	1	1,712.29	1	1,368.33	1	1,024.52	1	680.90	1	336.95	1	12.91	1	
1/4	2,737.02	1/4	2,393.05	1/4	2,049.09	1/4	1,705.13	1/4	1,361.16	1/4	1,017.36	1/4	673.73	1/4	329.79	1/4	9.32	1/4	
1/2	2,729.85	1/2	2,385.89	1/2	2,041.93	1/2	1,697.96	1/2	1,354.00	1/2	1,010.21	1/2	666.57	1/2	322.62	1/2	7.53	1/2	
3/4	2,722.69	3/4	2,378.72	3/4	2,034.76	3/4	1,690.80	3/4	1,346.83	3/4	1,003.06	3/4	659.40	3/4	315.45	3/4	5.74	3/4	
2	2,715.52	2	2,371.56	2	2,027.59	2	1,683.63	2	1,339.67	2	995.91	2	652.24	2	308.29	2	3.95	2	
1/4	2,708.35	1/4	2,364.39	1/4	2,020.43	1/4	1,676.46	1/4	1,332.50	1/4	988.76	1/4	645.07	1/4	301.12	1/4	2.16	1/4	
1/2	2,701.19	1/2	2,357.22	1/2	2,013.26	1/2	1,669.30	1/2	1,325.34	1/2	981.61	1/2	637.91	1/2	293.96	1/2		1/2	
3/4	2,694.02	3/4	2,350.06	3/4	2,006.10	3/4	1,662.13	3/4	1,318.17	3/4	974.45	3/4	630.74	3/4	286.79	3/4		3/4	
3	2,686.86	3	2,342.89	3	1,998.93	3	1,654.97	3	1,311.00	3	967.30	3	623.58	3	279.63	3		3	
1/4	2,679.69	1/4	2,335.73	1/4	1,991.76	1/4	1,647.80	1/4	1,303.84	1/4	960.15	1/4	616.41	1/4	272.46	1/4		1/4	
1/2	2,672.52	1/2	2,328.56	1/2	1,984.60	1/2	1,640.63	1/2	1,296.67	1/2	953.00	1/2	609.24	1/2	265.30	1/2		1/2	
3/4	2,665.36	3/4	2,321.40	3/4	1,977.43	3/4	1,633.47	3/4	1,289.51	3/4	945.85	3/4	602.08	3/4	258.13	3/4		3/4	
4	2,658.19	4	2,314.23	4	1,970.27	4	1,626.30	4	1,282.34	4	938.69	4	594.91	4	250.96	4		4	
1/4	2,651.03	1/4	2,307.06	1/4	1,963.10	1/4	1,619.14	1/4	1,275.17	1/4	931.54	1/4	587.75	1/4	243.80	1/4		1/4	
1/2	2,643.86	1/2	2,299.90	1/2	1,955.93	1/2	1,611.97	1/2	1,268.01	1/2	924.39	1/2	580.58	1/2	236.63	1/2		1/2	
3/4	2,636.69	3/4	2,292.73	3/4	1,948.77	3/4	1,604.81	3/4	1,260.84	3/4	917.24	3/4	573.42	3/4	229.47	3/4		3/4	
5	2,629.53	5	2,285.57	5	1,941.60	5	1,597.64	5	1,253.68	5	910.09	5	566.25	5	222.30	5		5	
1/4	2,622.36	1/4	2,278.40	1/4	1,934.44	1/4	1,590.47	1/4	1,246.51	1/4	902.94	1/4	559.09	1/4	215.14	1/4		1/4	
1/2	2,615.20	1/2	2,271.23	1/2	1,927.27	1/2	1,583.31	1/2	1,239.34	1/2	895.78	1/2	551.92	1/2	207.97	1/2		1/2	
3/4	2,608.03	3/4	2,264.07	3/4	1,920.10	3/4	1,576.14	3/4	1,232.18	3/4	888.63	3/4	544.75	3/4	200.81	3/4		3/4	
6	2,600.87	6	2,256.90	6	1,912.94	6	1,568.98	6	1,225.01	6	881.48	6	537.59	6	193.64	6		6	
1/4	2,593.70	1/4	2,249.74	1/4	1,905.77	1/4	1,561.81	1/4	1,217.85	1/4	874.33	1/4	530.42	1/4	186.47	1/4		1/4	
1/2	2,586.53	1/2	2,242.57	1/2	1,898.61	1/2	1,554.64	1/2	1,210.68	1/2	867.17	1/2	523.26	1/2	179.31	1/2		1/2	
3/4	2,579.37	3/4	2,235.40	3/4	1,891.44	3/4	1,547.48	3/4	1,203.51	3/4	860.02	3/4	516.09	3/4	172.14	3/4		3/4	
7	2,572.20	7	2,228.24	7	1,884.28	7	1,540.31	7	1,196.35	7	852.86	7	508.93	7	164.98	7		7	
1/4	2,565.04	1/4	2,221.07	1/4	1,877.11	1/4	1,533.15	1/4	1,189.18	1/4	845.71	1/4	501.76	1/4	157.81	1/4		1/4	
1/2	2,557.87	1/2	2,213.91	1/2	1,869.94	1/2	1,525.98	1/2	1,182.02	1/2	838.54	1/2	494.59	1/2	150.65	1/2		1/2	
3/4	2,550.70	3/4	2,206.74	3/4	1,862.78	3/4	1,518.81	3/4	1,174.85	3/4	831.38	3/4	487.43	3/4	143.48	3/4		3/4	
8	2,543.54	8	2,199.58	8	1,855.61	8	1,511.65	8	1,167.69	8	824.21	8	480.26	8	136.32	8		8	
1/4	2,536.37	1/4	2,192.41	1/4	1,848.45	1/4	1,504.48	1/4	1,160.52	1/4	817.05	1/4	473.10	1/4	129.15	1/4		1/4	
1/2	2,529.21	1/2	2,185.24	1/2	1,841.28	1/2	1,497.32	1/2	1,153.35	1/2	809.88	1/2	465.93	1/2	121.99	1/2		1/2	
3/4	2,522.04	3/4	2,178.08	3/4	1,834.11	3/4	1,490.15	3/4	1,146.19	3/4	802.72	3/4	458.77	3/4	114.83	3/4		3/4	
9	2,514.87	9	2,170.91	9	1,826.95	9	1,482.99	9	1,139.02	9	795.55	9	451.60	9	107.67	9		9	
1/4	2,507.71	1/4	2,163.75	1/4	1,819.78	1/4	1,475.82	1/4	1,131.86	1/4	788.38	1/4	444.44	1/4	100.51	1/4		1/4	
1/2	2,500.54	1/2	2,156.58	1/2	1,812.62	1/2	1,468.65	1/2	1,124.69	1/2	781.22	1/2	437.27	1/2	93.37	1/2		1/2	
3/4	2,493.38	3/4	2,149.41	3/4	1,805.45	3/4	1,461.49	3/4	1,117.53	3/4	774.05	3/4	430.10	3/4	86.23	3/4		3/4	
10	2,486.21	10	2,142.25	10	1,798.28	10	1,454.32	10	1,110.37	10	766.89	10	422.94	10	79.09	10		10	
1/4	2,479.05	1/4	2,135.08	1/4	1,791.12	1/4	1,447.16	1/4	1,103.20	1/4	759.72	1/4	415.77	1/4	71.94	1/4		1/4	
1/2	2,471.88	1/2	2,127.92	1/2	1,783.95	1/2	1,439.99	1/2	1,096.05	1/2	752.56	1/2	408.61	1/2	65.24	1/2		1/2	
3/4	2,464.71	3/4	2,120.75	3/4	1,776.79	3/4	1,432.82	3/4	1,088.89	3/4	745.39	3/4	401.44	3/4	58.55	3/4		3/4	
11	2,457.55	11	2,113.58	11	1,769.62	11	1,425.66	11	1,081.73	11	738.23	11	394.28	11	51.85	11		11	
1/4	2,450.38	1/4	2,106.42	1/4	1,762.46	1/4	1,418.49	1/4	1,074.58	1/4	731.06	1/4	387.11	1/4	45.15	1/4		1/4	
1/2	2,443.22	1/2	2,099.25	1/2	1,755.29	1/2	1,411.33	1/2	1,067.43	1/2	723.89	1/2	379.95	1/2	39.77	1/2		1/2	
3/4	2,436.05	3/4	2,092.09	3/4	1,748.12	3/4	1,404.16	3/4	1,060.28	3/4	716.73	3/4	372.78	3/4	34.40	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

3 PORT ULLAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,393.51	0	4,227.50	0	4,018.80	0	3,809.63	0	3,600.02	0	3,390.93	0	3,080.77
1/4		1/4		1/4		1/4	4,392.44	1/4	4,223.15	1/4	4,014.46	1/4	3,805.27	1/4	3,595.66	1/4	3,386.58	1/4	3,073.67
1/2		1/2		1/2		1/2	4,390.73	1/2	4,218.80	1/2	4,010.11	1/2	3,800.90	1/2	3,591.29	1/2	3,382.24	1/2	3,066.56
3/4		3/4		3/4		3/4	4,389.03	3/4	4,214.46	3/4	4,005.76	3/4	3,796.53	3/4	3,586.92	3/4	3,377.90	3/4	3,059.45
1		1		1		1	4,217.32	1	4,210.11	1	4,001.41	1	3,792.17	1	3,582.56	1	3,373.56	1	3,052.34
1/4		1/4		1/4		1/4	4,385.61	1/4	4,205.76	1/4	3,997.07	1/4	3,787.80	1/4	3,578.19	1/4	3,369.21	1/4	3,045.24
1/2		1/2		1/2		1/2	4,383.91	1/2	4,201.41	1/2	3,992.72	1/2	3,783.43	1/2	3,573.82	1/2	3,364.88	1/2	3,038.12
3/4		3/4		3/4		3/4	4,382.20	3/4	4,197.06	3/4	3,988.37	3/4	3,779.07	3/4	3,569.46	3/4	3,360.55	3/4	3,031.01
2		2		2		2	4,380.50	2	4,192.72	2	3,984.02	2	3,774.70	2	3,565.09	2	3,356.22	2	3,023.89
1/4		1/4		1/4		1/4	4,378.79	1/4	4,188.37	1/4	3,979.67	1/4	3,770.33	1/4	3,560.72	1/4	3,351.88	1/4	3,016.78
1/2		1/2		1/2		1/2	4,376.82	1/2	4,184.02	1/2	3,975.33	1/2	3,765.97	1/2	3,556.35	1/2	3,346.17	1/2	3,009.65
3/4		3/4		3/4		3/4	4,374.84	3/4	4,179.67	3/4	3,970.98	3/4	3,761.60	3/4	3,551.99	3/4	3,340.46	3/4	3,002.53
3		3		3		3	4,372.87	3	4,175.33	3	3,966.63	3	3,757.23	3	3,547.62	3	3,334.75	3	2,995.41
1/4		1/4		1/4		1/4	4,370.89	1/4	4,170.98	1/4	3,962.28	1/4	3,752.87	1/4	3,543.25	1/4	3,329.03	1/4	2,988.28
1/2		1/2		1/2		1/2	4,368.06	1/2	4,166.63	1/2	3,957.94	1/2	3,748.50	1/2	3,538.89	1/2	3,321.94	1/2	2,981.16
3/4		3/4		3/4		3/4	4,365.22	3/4	4,162.28	3/4	3,953.59	3/4	3,744.13	3/4	3,534.54	3/4	3,314.85	3/4	2,974.04
4		4		4		4	4,362.39	4	4,157.93	4	3,949.24	4	3,739.76	4	3,530.18	4	3,307.76	4	2,966.91
1/4		1/4		1/4		1/4	4,359.55	1/4	4,153.59	1/4	3,944.89	1/4	3,735.40	1/4	3,525.82	1/4	3,300.67	1/4	2,959.79
1/2		1/2		1/2		1/2	4,355.71	1/2	4,149.24	1/2	3,940.54	1/2	3,731.03	1/2	3,521.47	1/2	3,293.57	1/2	2,952.67
3/4		3/4		3/4		3/4	4,351.87	3/4	4,144.89	3/4	3,936.20	3/4	3,726.66	3/4	3,517.12	3/4	3,286.48	3/4	2,945.54
5		5		5		5	4,348.03	5	4,140.54	5	3,931.85	5	3,722.30	5	3,512.76	5	3,279.39	5	2,938.42
1/4		1/4		1/4		1/4	4,344.19	1/4	4,136.20	1/4	3,927.50	1/4	3,717.93	1/4	3,508.41	1/4	3,272.30	1/4	2,931.30
1/2		1/2		1/2		1/2	4,339.91	1/2	4,131.85	1/2	3,923.14	1/2	3,713.56	1/2	3,504.06	1/2	3,265.21	1/2	2,924.18
3/4		3/4		3/4		3/4	4,335.63	3/4	4,127.50	3/4	3,918.79	3/4	3,709.20	3/4	3,499.71	3/4	3,258.12	3/4	2,917.06
6		6		6		6	4,331.35	6	4,123.15	6	3,914.43	6	3,704.83	6	3,495.36	6	3,251.03	6	2,909.94
1/4		1/4		1/4		1/4	4,327.07	1/4	4,118.80	1/4	3,910.07	1/4	3,700.46	1/4	3,491.01	1/4	3,243.94	1/4	2,902.82
1/2		1/2		1/2		1/2	4,322.76	1/2	4,114.46	1/2	3,905.71	1/2	3,696.10	1/2	3,486.66	1/2	3,236.85	1/2	2,895.71
3/4		3/4		3/4		3/4	4,318.45	3/4	4,110.11	3/4	3,901.34	3/4	3,691.73	3/4	3,482.31	3/4	3,229.76	3/4	2,888.60
7		7		7		7	4,314.14	7	4,105.76	7	3,896.97	7	3,687.36	7	3,477.96	7	3,222.67	7	2,881.49
1/4		1/4		1/4		1/4	4,309.83	1/4	4,101.41	1/4	3,892.61	1/4	3,682.99	1/4	3,473.60	1/4	3,215.57	1/4	2,874.38
1/2		1/2		1/2		1/2	4,305.51	1/2	4,097.07	1/2	3,888.24	1/2	3,678.63	1/2	3,469.25	1/2	3,208.48	1/2	2,867.27
3/4		3/4		3/4		3/4	4,301.19	3/4	4,092.72	3/4	3,883.87	3/4	3,674.26	3/4	3,464.90	3/4	3,201.39	3/4	2,860.15
8		8		8		8	4,296.87	8	4,088.37	8	3,879.51	8	3,669.89	8	3,460.55	8	3,194.30	8	2,853.04
1/4		1/4		1/4		1/4	4,292.55	1/4	4,084.02	1/4	3,875.14	1/4	3,665.53	1/4	3,456.20	1/4	3,187.21	1/4	2,845.93
1/2		1/2		1/2		1/2	4,288.23	1/2	4,079.67	1/2	3,870.77	1/2	3,661.16	1/2	3,451.85	1/2	3,180.12	1/2	2,838.82
3/4		3/4		3/4		3/4	4,283.91	3/4	4,075.33	3/4	3,866.40	3/4	3,656.79	3/4	3,447.50	3/4	3,173.03	3/4	2,831.71
9		9		9		9	4,279.59	9	4,070.98	9	3,862.04	9	3,652.43	9	3,443.15	9	3,165.94	9	2,824.60
1/4		1/4		1/4		1/4	4,275.27	1/4	4,066.63	1/4	3,857.67	1/4	3,648.06	1/4	3,438.80	1/4	3,158.85	1/4	2,817.49
1/2		1/2		1/2		1/2	4,270.94	1/2	4,062.28	1/2	3,853.30	1/2	3,643.69	1/2	3,434.44	1/2	3,151.76	1/2	2,810.37
3/4		3/4		3/4		3/4	4,266.60	3/4	4,057.93	3/4	3,848.94	3/4	3,639.33	3/4	3,430.09	3/4	3,144.67	3/4	2,803.26
10		10		10		10	4,262.27	10	4,053.59	10	3,844.57	10	3,634.96	10	3,425.74	10	3,137.58	10	2,796.15
1/4		1/4		1/4		1/4	4,257.93	1/4	4,049.24	1/4	3,840.20	1/4	3,630.59	1/4	3,421.39	1/4	3,130.49	1/4	2,789.04
1/2		1/2		1/2		1/2	4,253.59	1/2	4,044.89	1/2	3,835.84	1/2	3,626.23	1/2	3,417.04	1/2	3,123.39	1/2	2,781.93
3/4		3/4		3/4		3/4	4,249.24	3/4	4,040.54	3/4	3,831.47	3/4	3,621.86	3/4	3,412.69	3/4	3,116.29	3/4	2,774.82
11		11		11		11	4,244.89	11	4,036.20	11	3,827.10	11	3,617.49	11	3,408.34	11	3,109.20	11	2,767.70
1/4		1/4		1/4	4,396.74	1/4	4,240.54	1/4	4,031.85	1/4	3,822.74	1/4	3,613.12	1/4	3,403.99	1/4	3,102.10	1/4	2,760.59
1/2		1/2		1/2	4,395.66	1/2	4,236.19	1/2	4,027.50	1/2	3,818.37	1/2	3,608.76	1/2	3,399.64	1/2	3,094.99	1/2	2,753.48
3/4		3/4		3/4	4,394.59	3/4	4,231.85	3/4	4,023.15	3/4	3,814.00	3/4	3,604.39	3/4	3,395.28	3/4	3,087.88	3/4	2,746.37

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "HSM 3316"
formerly the
BARGE "FMT 3316"

3 PORT
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,739.26	0	2,397.89	0	2,056.49	0	1,715.09	0	1,373.69	0	1,035.97	0	705.03	0	363.55	0	28.86	0	
1/4	2,732.15	1/4	2,390.78	1/4	2,049.38	1/4	1,707.98	1/4	1,366.58	1/4	1,029.17	1/4	697.92	1/4	356.43	1/4	23.52	1/4	
1/2	2,725.03	1/2	2,383.67	1/2	2,042.27	1/2	1,700.87	1/2	1,359.47	1/2	1,022.36	1/2	690.80	1/2	349.31	1/2	19.96	1/2	
3/4	2,717.92	3/4	2,376.56	3/4	2,035.16	3/4	1,693.76	3/4	1,352.36	3/4	1,015.56	3/4	683.69	3/4	342.18	3/4	16.39	3/4	
1	2,710.81	1	2,369.44	1	2,028.04	1	1,686.64	1	1,345.24	1	1,008.76	1	676.58	1	335.06	1	12.83	1	
1/4	2,703.70	1/4	2,362.33	1/4	2,020.93	1/4	1,679.53	1/4	1,338.13	1/4	1,001.95	1/4	669.46	1/4	327.93	1/4	9.27	1/4	
1/2	2,696.59	1/2	2,355.22	1/2	2,013.82	1/2	1,672.42	1/2	1,331.02	1/2	995.15	1/2	662.35	1/2	320.81	1/2	7.49	1/2	
3/4	2,689.48	3/4	2,348.11	3/4	2,006.71	3/4	1,665.31	3/4	1,323.91	3/4	988.35	3/4	655.24	3/4	313.68	3/4	5.71	3/4	
2	2,682.36	2	2,340.99	2	1,999.59	2	1,658.19	2	1,316.79	2	981.54	2	648.12	2	306.56	2	3.92	2	
1/4	2,675.25	1/4	2,333.88	1/4	1,992.48	1/4	1,651.08	1/4	1,309.68	1/4	974.74	1/4	641.01	1/4	299.43	1/4	2.15	1/4	
1/2	2,668.14	1/2	2,326.77	1/2	1,985.37	1/2	1,643.97	1/2	1,302.57	1/2	967.94	1/2	633.89	1/2	292.30	1/2		1/2	
3/4	2,661.03	3/4	2,319.66	3/4	1,978.26	3/4	1,636.86	3/4	1,295.46	3/4	961.13	3/4	626.78	3/4	285.18	3/4		3/4	
3	2,653.92	3	2,312.54	3	1,971.14	3	1,629.74	3	1,288.34	3	954.33	3	619.67	3	278.05	3		3	
1/4	2,646.81	1/4	2,305.43	1/4	1,964.03	1/4	1,622.63	1/4	1,281.23	1/4	947.53	1/4	612.55	1/4	270.93	1/4		1/4	
1/2	2,639.70	1/2	2,298.32	1/2	1,956.92	1/2	1,615.52	1/2	1,274.12	1/2	940.72	1/2	605.44	1/2	263.80	1/2		1/2	
3/4	2,632.58	3/4	2,291.21	3/4	1,949.81	3/4	1,608.41	3/4	1,267.01	3/4	933.92	3/4	598.33	3/4	256.68	3/4		3/4	
4	2,625.47	4	2,284.09	4	1,942.69	4	1,601.29	4	1,259.89	4	927.12	4	591.21	4	249.55	4		4	
1/4	2,618.36	1/4	2,276.98	1/4	1,935.58	1/4	1,594.18	1/4	1,252.78	1/4	920.31	1/4	584.10	1/4	242.43	1/4		1/4	
1/2	2,611.25	1/2	2,269.87	1/2	1,928.47	1/2	1,587.07	1/2	1,245.67	1/2	913.51	1/2	576.98	1/2	235.30	1/2		1/2	
3/4	2,604.14	3/4	2,262.76	3/4	1,921.36	3/4	1,579.96	3/4	1,238.56	3/4	906.71	3/4	569.87	3/4	228.18	3/4		3/4	
5	2,597.03	5	2,255.64	5	1,914.24	5	1,572.84	5	1,231.44	5	899.90	5	562.76	5	221.05	5		5	
1/4	2,589.91	1/4	2,248.53	1/4	1,907.13	1/4	1,565.73	1/4	1,224.33	1/4	893.10	1/4	555.64	1/4	213.92	1/4		1/4	
1/2	2,582.80	1/2	2,241.42	1/2	1,900.02	1/2	1,558.62	1/2	1,217.22	1/2	886.30	1/2	548.53	1/2	206.80	1/2		1/2	
3/4	2,575.69	3/4	2,234.31	3/4	1,892.91	3/4	1,551.51	3/4	1,210.11	3/4	879.50	3/4	541.41	3/4	199.67	3/4		3/4	
6	2,568.58	6	2,227.19	6	1,885.79	6	1,544.39	6	1,202.99	6	872.69	6	534.30	6	192.55	6		6	
1/4	2,561.47	1/4	2,220.08	1/4	1,878.68	1/4	1,537.28	1/4	1,195.88	1/4	865.89	1/4	527.19	1/4	185.42	1/4		1/4	
1/2	2,554.36	1/2	2,212.97	1/2	1,871.57	1/2	1,530.17	1/2	1,188.77	1/2	859.08	1/2	520.07	1/2	178.30	1/2		1/2	
3/4	2,547.24	3/4	2,205.86	3/4	1,864.46	3/4	1,523.06	3/4	1,181.66	3/4	852.28	3/4	512.96	3/4	171.17	3/4		3/4	
7	2,540.13	7	2,198.74	7	1,857.34	7	1,515.94	7	1,174.54	7	845.47	7	505.85	7	164.05	7		7	
1/4	2,533.02	1/4	2,191.63	1/4	1,850.23	1/4	1,508.83	1/4	1,167.43	1/4	838.66	1/4	498.73	1/4	156.92	1/4		1/4	
1/2	2,525.91	1/2	2,184.52	1/2	1,843.12	1/2	1,501.72	1/2	1,160.32	1/2	831.81	1/2	491.62	1/2	149.80	1/2		1/2	
3/4	2,518.80	3/4	2,177.41	3/4	1,836.01	3/4	1,494.61	3/4	1,153.21	3/4	824.97	3/4	484.50	3/4	142.67	3/4		3/4	
8	2,511.69	8	2,170.29	8	1,828.89	8	1,487.49	8	1,146.09	8	818.12	8	477.39	8	135.55	8		8	
1/4	2,504.57	1/4	2,163.18	1/4	1,821.78	1/4	1,480.38	1/4	1,138.98	1/4	811.27	1/4	470.28	1/4	128.42	1/4		1/4	
1/2	2,497.46	1/2	2,156.07	1/2	1,814.67	1/2	1,473.27	1/2	1,131.88	1/2	804.28	1/2	463.16	1/2	121.30	1/2		1/2	
3/4	2,490.35	3/4	2,148.96	3/4	1,807.56	3/4	1,466.16	3/4	1,124.77	3/4	797.28	3/4	456.05	3/4	114.18	3/4		3/4	
9	2,483.24	9	2,141.84	9	1,800.44	9	1,459.04	9	1,117.66	9	790.28	9	448.94	9	107.06	9		9	
1/4	2,476.13	1/4	2,134.73	1/4	1,793.33	1/4	1,451.93	1/4	1,110.55	1/4	783.28	1/4	441.82	1/4	99.94	1/4		1/4	
1/2	2,469.02	1/2	2,127.62	1/2	1,786.22	1/2	1,444.82	1/2	1,103.44	1/2	776.17	1/2	434.71	1/2	92.84	1/2		1/2	
3/4	2,461.91	3/4	2,120.51	3/4	1,779.11	3/4	1,437.71	3/4	1,096.33	3/4	769.06	3/4	427.59	3/4	85.74	3/4		3/4	
10	2,454.79	10	2,113.39	10	1,771.99	10	1,430.59	10	1,089.22	10	761.94	10	420.48	10	78.64	10		10	
1/4	2,447.68	1/4	2,106.28	1/4	1,764.88	1/4	1,423.48	1/4	1,082.11	1/4	754.83	1/4	413.37	1/4	71.54	1/4		1/4	
1/2	2,440.57	1/2	2,099.17	1/2	1,757.77	1/2	1,416.37	1/2	1,075.00	1/2	747.72	1/2	406.25	1/2	64.48	1/2		1/2	
3/4	2,433.46	3/4	2,092.06	3/4	1,750.66	3/4	1,409.26	3/4	1,067.89	3/4	740.60	3/4	399.14	3/4	57.42	3/4		3/4	
11	2,426.34	11	2,084.94	11	1,743.54	11	1,402.14	11	1,060.78	11	733.49	11	392.03	11	50.36	11		11	
1/4	2,419.23	1/4	2,077.83	1/4	1,736.43	1/4	1,395.03	1/4	1,053.67	1/4	726.37	1/4	384.91	1/4	43.30	1/4		1/4	
1/2	2,412.12	1/2	2,070.72	1/2	1,729.32	1/2	1,387.92	1/2	1,046.56	1/2	719.26	1/2	377.79	1/2	36.24	1/2		1/2	
3/4	2,405.01	3/4	2,063.61	3/4	1,722.21	3/4	1,380.81	3/4	1,039.45	3/4	712.15	3/4	370.67	3/4	29.18	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020





BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

3 STBD
ULLAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,420.34	0	4,253.88	0	4,044.65	0	3,834.94	0	3,624.78	0	3,414.63	0	3,103.84
1/4		1/4		1/4		1/4	4,419.26	1/4	4,249.52	1/4	4,040.29	1/4	3,830.56	1/4	3,620.40	1/4	3,410.25	1/4	3,096.72
1/2		1/2		1/2		1/2	4,417.55	1/2	4,245.17	1/2	4,035.93	1/2	3,826.18	1/2	3,616.03	1/2	3,405.89	1/2	3,089.60
3/4		3/4		3/4		3/4	4,415.84	3/4	4,240.81	3/4	4,031.57	3/4	3,821.80	3/4	3,611.65	3/4	3,401.53	3/4	3,082.48
1		1		1		1	4,414.13	1	4,236.45	1	4,027.21	1	3,817.42	1	3,607.27	1	3,397.17	1	3,075.36
1/4		1/4		1/4		1/4	4,412.42	1/4	4,232.09	1/4	4,022.85	1/4	3,813.05	1/4	3,602.89	1/4	3,392.81	1/4	3,068.24
1/2		1/2		1/2		1/2	4,410.71	1/2	4,227.73	1/2	4,018.49	1/2	3,808.67	1/2	3,598.51	1/2	3,388.47	1/2	3,061.12
3/4		3/4		3/4		3/4	4,409.00	3/4	4,223.37	3/4	4,014.13	3/4	3,804.29	3/4	3,594.14	3/4	3,384.12	3/4	3,054.00
2		2		2		2	4,407.29	2	4,219.01	2	4,009.77	2	3,799.91	2	3,589.76	2	3,379.78	2	3,046.88
1/4		1/4		1/4		1/4	4,405.57	1/4	4,214.65	1/4	4,005.42	1/4	3,795.53	1/4	3,585.38	1/4	3,375.44	1/4	3,039.76
1/2		1/2		1/2		1/2	4,403.59	1/2	4,210.29	1/2	4,001.06	1/2	3,791.15	1/2	3,581.00	1/2	3,369.72	1/2	3,032.64
3/4		3/4		3/4		3/4	4,401.62	3/4	4,205.93	3/4	3,996.70	3/4	3,786.78	3/4	3,576.62	3/4	3,363.99	3/4	3,025.52
3		3		3		3	4,399.64	3	4,201.57	3	3,992.34	3	3,782.40	3	3,572.24	3	3,358.27	3	3,018.40
1/4		1/4		1/4		1/4	4,397.66	1/4	4,197.22	1/4	3,987.98	1/4	3,778.02	1/4	3,567.87	1/4	3,352.55	1/4	3,011.27
1/2		1/2		1/2		1/2	4,394.81	1/2	4,192.86	1/2	3,983.62	1/2	3,773.64	1/2	3,563.49	1/2	3,345.44	1/2	3,004.15
3/4		3/4		3/4		3/4	4,391.97	3/4	4,188.50	3/4	3,979.26	3/4	3,769.26	3/4	3,559.11	3/4	3,338.34	3/4	2,997.03
4		4		4		4	4,389.12	4	4,184.14	4	3,974.90	4	3,764.89	4	3,554.73	4	3,331.24	4	2,989.91
1/4		1/4		1/4		1/4	4,386.28	1/4	4,179.78	1/4	3,970.54	1/4	3,760.51	1/4	3,550.35	1/4	3,324.13	1/4	2,982.79
1/2		1/2		1/2		1/2	4,382.43	1/2	4,175.42	1/2	3,966.18	1/2	3,756.13	1/2	3,545.98	1/2	3,317.03	1/2	2,975.67
3/4		3/4		3/4		3/4	4,378.58	3/4	4,171.06	3/4	3,961.82	3/4	3,751.75	3/4	3,541.60	3/4	3,309.93	3/4	2,968.55
5		5		5		5	4,374.72	5	4,166.70	5	3,957.47	5	3,747.37	5	3,537.22	5	3,302.82	5	2,961.43
1/4		1/4		1/4		1/4	4,370.87	1/4	4,162.34	1/4	3,953.11	1/4	3,742.99	1/4	3,532.84	1/4	3,295.72	1/4	2,954.31
1/2		1/2		1/2		1/2	4,366.58	1/2	4,157.98	1/2	3,948.74	1/2	3,738.62	1/2	3,528.46	1/2	3,288.62	1/2	2,947.19
3/4		3/4		3/4		3/4	4,362.29	3/4	4,153.62	3/4	3,944.37	3/4	3,734.24	3/4	3,524.08	3/4	3,281.51	3/4	2,940.07
6		6		6		6	4,358.00	6	4,149.27	6	3,940.00	6	3,729.86	6	3,519.71	6	3,274.41	6	2,932.95
1/4		1/4		1/4		1/4	4,353.71	1/4	4,144.91	1/4	3,935.63	1/4	3,725.48	1/4	3,515.33	1/4	3,267.31	1/4	2,925.83
1/2		1/2		1/2		1/2	4,349.39	1/2	4,140.55	1/2	3,931.26	1/2	3,721.10	1/2	3,510.95	1/2	3,260.20	1/2	2,918.71
3/4		3/4		3/4		3/4	4,345.07	3/4	4,136.19	3/4	3,926.88	3/4	3,716.72	3/4	3,506.57	3/4	3,253.10	3/4	2,911.59
7		7		7		7	4,340.75	7	4,131.83	7	3,922.50	7	3,712.35	7	3,502.19	7	3,246.00	7	2,904.47
1/4		1/4		1/4		1/4	4,336.42	1/4	4,127.47	1/4	3,918.12	1/4	3,707.97	1/4	3,497.81	1/4	3,238.89	1/4	2,897.35
1/2		1/2		1/2		1/2	4,332.09	1/2	4,123.11	1/2	3,913.74	1/2	3,703.59	1/2	3,493.44	1/2	3,231.79	1/2	2,890.22
3/4		3/4		3/4		3/4	4,327.76	3/4	4,118.75	3/4	3,909.37	3/4	3,699.21	3/4	3,489.06	3/4	3,224.69	3/4	2,883.10
8		8		8		8	4,323.43	8	4,114.39	8	3,904.99	8	3,694.83	8	3,484.68	8	3,217.58	8	2,875.98
1/4		1/4		1/4		1/4	4,319.10	1/4	4,110.03	1/4	3,900.61	1/4	3,690.46	1/4	3,480.30	1/4	3,210.48	1/4	2,868.86
1/2		1/2		1/2		1/2	4,314.77	1/2	4,105.67	1/2	3,896.23	1/2	3,686.08	1/2	3,475.92	1/2	3,203.38	1/2	2,861.74
3/4		3/4		3/4		3/4	4,310.44	3/4	4,101.32	3/4	3,891.85	3/4	3,681.70	3/4	3,471.55	3/4	3,196.27	3/4	2,854.62
9		9		9		9	4,306.11	9	4,096.96	9	3,887.47	9	3,677.32	9	3,467.17	9	3,189.17	9	2,847.50
1/4		1/4		1/4		1/4	4,301.78	1/4	4,092.60	1/4	3,883.10	1/4	3,672.94	1/4	3,462.79	1/4	3,182.07	1/4	2,840.38
1/2		1/2		1/2		1/2	4,297.43	1/2	4,088.24	1/2	3,878.72	1/2	3,668.56	1/2	3,458.41	1/2	3,174.96	1/2	2,833.26
3/4		3/4		3/4		3/4	4,293.09	3/4	4,083.88	3/4	3,874.34	3/4	3,664.19	3/4	3,454.03	3/4	3,167.86	3/4	2,826.14
10		10		10		10	4,288.74	10	4,079.52	10	3,869.96	10	3,659.81	10	3,449.65	10	3,160.76	10	2,819.02
1/4		1/4		1/4		1/4	4,284.40	1/4	4,075.16	1/4	3,865.58	1/4	3,655.43	1/4	3,445.28	1/4	3,153.65	1/4	2,811.90
1/2		1/2		1/2		1/2	4,280.04	1/2	4,070.80	1/2	3,861.21	1/2	3,651.05	1/2	3,440.90	1/2	3,146.54	1/2	2,804.78
3/4		3/4		3/4		3/4	4,275.68	3/4	4,066.44	3/4	3,856.83	3/4	3,646.67	3/4	3,436.52	3/4	3,139.43	3/4	2,797.66
11		11		11		11	4,271.32	11	4,062.08	11	3,852.45	11	3,642.30	11	3,432.14	11	3,132.32	11	2,790.54
1/4		1/4		1/4	4,423.57	1/4	4,266.96	1/4	4,057.72	1/4	3,848.07	1/4	3,637.92	1/4	3,427.76	1/4	3,125.20	1/4	2,783.42
1/2		1/2		1/2	4,422.49	1/2	4,262.60	1/2	4,053.37	1/2	3,843.69	1/2	3,633.54	1/2	3,423.39	1/2	3,118.08	1/2	2,776.29
3/4		3/4		3/4	4,421.41	3/4	4,258.24	3/4	4,049.01	3/4	3,839.31	3/4	3,629.16	3/4	3,419.01	3/4	3,110.96	3/4	2,769.17

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3316"
formerly the
BARGE "FMT 3316"

3 STBD
ULLAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,762.05	0	2,419.73	0	2,077.06	0	1,734.39	0	1,391.72	0	1,049.15	0	706.90	0	364.24	0	28.92	0	
1/4	2,754.93	1/4	2,412.59	1/4	2,069.92	1/4	1,727.25	1/4	1,384.59	1/4	1,042.03	1/4	699.76	1/4	357.10	1/4	23.57	1/4	
1/2	2,747.81	1/2	2,405.45	1/2	2,062.78	1/2	1,720.11	1/2	1,377.45	1/2	1,034.90	1/2	692.62	1/2	349.96	1/2	20.00	1/2	
3/4	2,740.69	3/4	2,398.31	3/4	2,055.64	3/4	1,712.97	3/4	1,370.31	3/4	1,027.78	3/4	685.48	3/4	342.82	3/4	16.43	3/4	
1	2,733.57	1	2,391.17	1	2,048.50	1	1,705.84	1	1,363.17	1	1,020.65	1	678.34	1	335.69	1	12.86	1	
1/4	2,726.45	1/4	2,384.03	1/4	2,041.36	1/4	1,698.70	1/4	1,356.03	1/4	1,013.53	1/4	671.20	1/4	328.55	1/4	9.29	1/4	
1/2	2,719.33	1/2	2,376.89	1/2	2,034.23	1/2	1,691.56	1/2	1,348.89	1/2	1,006.40	1/2	664.07	1/2	321.41	1/2	7.51	1/2	
3/4	2,712.21	3/4	2,369.75	3/4	2,027.09	3/4	1,684.42	3/4	1,341.75	3/4	999.28	3/4	656.93	3/4	314.27	3/4	5.72	3/4	
2	2,705.09	2	2,362.61	2	2,019.95	2	1,677.28	2	1,334.61	2	992.15	2	649.79	2	307.13	2	3.94	2	
1/4	2,697.97	1/4	2,355.48	1/4	2,012.81	1/4	1,670.14	1/4	1,327.47	1/4	985.03	1/4	642.65	1/4	299.99	1/4	2.15	1/4	
1/2	2,690.85	1/2	2,348.34	1/2	2,005.67	1/2	1,663.00	1/2	1,320.34	1/2	977.90	1/2	635.51	1/2	292.85	1/2		1/2	
3/4	2,683.73	3/4	2,341.20	3/4	1,998.53	3/4	1,655.86	3/4	1,313.20	3/4	970.78	3/4	628.37	3/4	285.72	3/4		3/4	
3	2,676.61	3	2,334.06	3	1,991.39	3	1,648.72	3	1,306.06	3	963.65	3	621.23	3	278.58	3		3	
1/4	2,669.49	1/4	2,326.92	1/4	1,984.25	1/4	1,641.59	1/4	1,298.92	1/4	956.53	1/4	614.10	1/4	271.44	1/4		1/4	
1/2	2,662.37	1/2	2,319.78	1/2	1,977.11	1/2	1,634.45	1/2	1,291.78	1/2	949.40	1/2	606.96	1/2	264.30	1/2		1/2	
3/4	2,655.24	3/4	2,312.64	3/4	1,969.97	3/4	1,627.31	3/4	1,284.64	3/4	942.28	3/4	599.82	3/4	257.16	3/4		3/4	
4	2,648.12	4	2,305.50	4	1,962.84	4	1,620.17	4	1,277.50	4	935.15	4	592.68	4	250.02	4		4	
1/4	2,641.00	1/4	2,298.36	1/4	1,955.70	1/4	1,613.03	1/4	1,270.36	1/4	928.03	1/4	585.54	1/4	242.88	1/4		1/4	
1/2	2,633.87	1/2	2,291.23	1/2	1,948.56	1/2	1,605.89	1/2	1,263.22	1/2	920.90	1/2	578.40	1/2	235.74	1/2		1/2	
3/4	2,626.74	3/4	2,284.09	3/4	1,941.42	3/4	1,598.75	3/4	1,256.09	3/4	913.78	3/4	571.26	3/4	228.61	3/4		3/4	
5	2,619.61	5	2,276.95	5	1,934.28	5	1,591.61	5	1,248.95	5	906.66	5	564.12	5	221.47	5		5	
1/4	2,612.48	1/4	2,269.81	1/4	1,927.14	1/4	1,584.47	1/4	1,241.81	1/4	899.53	1/4	556.99	1/4	214.33	1/4		1/4	
1/2	2,605.34	1/2	2,262.67	1/2	1,920.00	1/2	1,577.34	1/2	1,234.67	1/2	892.41	1/2	549.85	1/2	207.19	1/2		1/2	
3/4	2,598.20	3/4	2,255.53	3/4	1,912.86	3/4	1,570.20	3/4	1,227.53	3/4	885.28	3/4	542.71	3/4	200.05	3/4		3/4	
6	2,591.06	6	2,248.39	6	1,905.72	6	1,563.06	6	1,220.39	6	878.16	6	535.57	6	192.91	6		6	
1/4	2,583.92	1/4	2,241.25	1/4	1,898.59	1/4	1,555.92	1/4	1,213.25	1/4	871.03	1/4	528.43	1/4	185.77	1/4		1/4	
1/2	2,576.78	1/2	2,234.11	1/2	1,891.45	1/2	1,548.78	1/2	1,206.11	1/2	863.90	1/2	521.29	1/2	178.63	1/2		1/2	
3/4	2,569.64	3/4	2,226.98	3/4	1,884.31	3/4	1,541.64	3/4	1,198.97	3/4	856.77	3/4	514.15	3/4	171.50	3/4		3/4	
7	2,562.50	7	2,219.84	7	1,877.17	7	1,534.50	7	1,191.83	7	849.65	7	507.01	7	164.36	7		7	
1/4	2,555.37	1/4	2,212.70	1/4	1,870.03	1/4	1,527.36	1/4	1,184.70	1/4	842.52	1/4	499.88	1/4	157.22	1/4		1/4	
1/2	2,548.23	1/2	2,205.56	1/2	1,862.89	1/2	1,520.22	1/2	1,177.56	1/2	835.38	1/2	492.74	1/2	150.08	1/2		1/2	
3/4	2,541.09	3/4	2,198.42	3/4	1,855.75	3/4	1,513.09	3/4	1,170.42	3/4	828.25	3/4	485.60	3/4	142.94	3/4		3/4	
8	2,533.95	8	2,191.28	8	1,848.61	8	1,505.95	8	1,163.28	8	821.11	8	478.46	8	135.80	8		8	
1/4	2,526.81	1/4	2,184.14	1/4	1,841.47	1/4	1,498.81	1/4	1,156.14	1/4	813.98	1/4	471.32	1/4	128.67	1/4		1/4	
1/2	2,519.67	1/2	2,177.00	1/2	1,834.34	1/2	1,491.67	1/2	1,149.00	1/2	806.84	1/2	464.18	1/2	121.53	1/2		1/2	
3/4	2,512.53	3/4	2,169.86	3/4	1,827.20	3/4	1,484.53	3/4	1,141.86	3/4	799.70	3/4	457.04	3/4	114.40	3/4		3/4	
9	2,505.39	9	2,162.73	9	1,820.06	9	1,477.39	9	1,134.72	9	792.56	9	449.91	9	107.27	9		9	
1/4	2,498.25	1/4	2,155.59	1/4	1,812.92	1/4	1,470.25	1/4	1,127.58	1/4	785.42	1/4	442.77	1/4	100.14	1/4		1/4	
1/2	2,491.11	1/2	2,148.45	1/2	1,805.78	1/2	1,463.11	1/2	1,120.45	1/2	778.29	1/2	435.63	1/2	93.02	1/2		1/2	
3/4	2,483.98	3/4	2,141.31	3/4	1,798.64	3/4	1,455.97	3/4	1,113.31	3/4	771.15	3/4	428.49	3/4	85.91	3/4		3/4	
10	2,476.84	10	2,134.17	10	1,791.50	10	1,448.84	10	1,106.18	10	764.01	10	421.35	10	78.79	10		10	
1/4	2,469.70	1/4	2,127.03	1/4	1,784.36	1/4	1,441.70	1/4	1,099.04	1/4	756.87	1/4	414.21	1/4	71.67	1/4		1/4	
1/2	2,462.56	1/2	2,119.89	1/2	1,777.22	1/2	1,434.56	1/2	1,091.91	1/2	749.73	1/2	407.07	1/2	65.00	1/2		1/2	
3/4	2,455.42	3/4	2,112.75	3/4	1,770.09	3/4	1,427.42	3/4	1,084.78	3/4	742.59	3/4	399.93	3/4	58.33	3/4		3/4	
11	2,448.28	11	2,105.61	11	1,762.95	11	1,420.28	11	1,077.65	11	735.45	11	392.80	11	51.65	11		11	
1/4	2,441.14	1/4	2,098.48	1/4	1,755.81	1/4	1,413.14	1/4	1,070.53	1/4	728.31	1/4	385.66	1/4	44.98	1/4		1/4	
1/2	2,434.00	1/2	2,091.34	1/2	1,748.67	1/2	1,406.00	1/2	1,063.40	1/2	721.18	1/2	378.52	1/2	39.63	1/2		1/2	
3/4	2,426.86	3/4	2,084.20	3/4	1,741.53	3/4	1,398.86	3/4	1,056.28	3/4	714.04	3/4	371.38	3/4	34.27	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020





BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

INNAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
1 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 08-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-03 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

August 5, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

1 PORT
INNAGE TABLE

10" HATCH
GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.15	0	251.79	0	582.23	0	923.36	0	1,264.74	0	1,607.32	0	1,949.89	0	2,292.47	0	2,635.03	0	2,977.58
1/4	3.93	1/4	258.26	1/4	589.36	1/4	930.43	1/4	1,271.88	1/4	1,614.45	1/4	1,957.03	1/4	2,299.61	1/4	2,642.16	1/4	2,984.72
1/2	5.72	1/2	264.73	1/2	596.50	1/2	937.51	1/2	1,279.01	1/2	1,621.59	1/2	1,964.17	1/2	2,306.74	1/2	2,649.30	1/2	2,991.85
3/4	7.50	3/4	271.20	3/4	603.64	3/4	944.59	3/4	1,286.15	3/4	1,628.73	3/4	1,971.30	3/4	2,313.88	3/4	2,656.44	3/4	2,998.99
1	9.29	1	277.67	1	610.77	1	951.66	1	1,293.29	1	1,635.86	1	1,978.44	1	2,321.02	1	2,663.57	1	3,006.12
1/4	12.08	1/4	284.23	1/4	617.91	1/4	958.74	1/4	1,300.43	1/4	1,643.00	1/4	1,985.58	1/4	2,328.15	1/4	2,670.71	1/4	3,013.26
1/2	14.88	1/2	290.78	1/2	625.05	1/2	965.82	1/2	1,307.56	1/2	1,650.14	1/2	1,992.71	1/2	2,335.29	1/2	2,677.85	1/2	3,020.39
3/4	17.68	3/4	297.33	3/4	632.18	3/4	972.89	3/4	1,314.70	3/4	1,657.28	3/4	1,999.85	3/4	2,342.43	3/4	2,684.98	3/4	3,027.53
2	20.47	2	303.89	2	639.32	2	979.97	2	1,321.84	2	1,664.41	2	2,006.99	2	2,349.56	2	2,692.12	2	3,034.66
1/4	24.33	1/4	310.52	1/4	646.46	1/4	987.05	1/4	1,328.97	1/4	1,671.55	1/4	2,014.13	1/4	2,356.70	1/4	2,699.26	1/4	3,041.79
1/2	28.18	1/2	317.16	1/2	653.59	1/2	994.12	1/2	1,336.11	1/2	1,678.69	1/2	2,021.26	1/2	2,363.84	1/2	2,706.39	1/2	3,048.93
3/4	32.03	3/4	323.79	3/4	660.73	3/4	1,001.20	3/4	1,343.25	3/4	1,685.82	3/4	2,028.40	3/4	2,370.98	3/4	2,713.53	3/4	3,056.06
3	35.88	3	330.43	3	667.87	3	1,008.27	3	1,350.38	3	1,692.96	3	2,035.54	3	2,378.11	3	2,720.67	3	3,063.20
1/4	41.13	1/4	337.15	1/4	675.01	1/4	1,015.36	1/4	1,357.52	1/4	1,700.10	1/4	2,042.67	1/4	2,385.25	1/4	2,727.80	1/4	3,070.33
1/2	46.39	1/2	343.87	1/2	682.14	1/2	1,022.44	1/2	1,364.66	1/2	1,707.23	1/2	2,049.81	1/2	2,392.39	1/2	2,734.94	1/2	3,077.47
3/4	51.64	3/4	350.59	3/4	689.28	3/4	1,029.52	3/4	1,371.80	3/4	1,714.37	3/4	2,056.95	3/4	2,399.52	3/4	2,742.08	3/4	3,084.60
4	56.89	4	357.31	4	696.42	4	1,036.60	4	1,378.93	4	1,721.51	4	2,064.08	4	2,406.66	4	2,749.21	4	3,091.74
1/4	62.67	1/4	364.11	1/4	703.55	1/4	1,043.69	1/4	1,386.07	1/4	1,728.65	1/4	2,071.22	1/4	2,413.80	1/4	2,756.35	1/4	3,098.87
1/2	68.45	1/2	370.92	1/2	710.69	1/2	1,050.79	1/2	1,393.21	1/2	1,735.78	1/2	2,078.36	1/2	2,420.93	1/2	2,763.48	1/2	3,106.01
3/4	74.23	3/4	377.72	3/4	717.83	3/4	1,057.88	3/4	1,400.34	3/4	1,742.92	3/4	2,085.50	3/4	2,428.07	3/4	2,770.62	3/4	3,113.14
5	80.01	5	384.52	5	724.96	5	1,064.97	5	1,407.48	5	1,750.06	5	2,092.63	5	2,435.21	5	2,777.76	5	3,120.28
1/4	85.89	1/4	391.41	1/4	732.08	1/4	1,072.09	1/4	1,414.62	1/4	1,757.19	1/4	2,099.77	1/4	2,442.35	1/4	2,784.89	1/4	3,127.41
1/2	91.77	1/2	398.30	1/2	739.20	1/2	1,079.21	1/2	1,421.75	1/2	1,764.33	1/2	2,106.91	1/2	2,449.48	1/2	2,792.03	1/2	3,134.54
3/4	97.65	3/4	405.18	3/4	746.32	3/4	1,086.33	3/4	1,428.89	3/4	1,771.47	3/4	2,114.04	3/4	2,456.62	3/4	2,799.17	3/4	3,141.68
6	103.53	6	412.07	6	753.44	6	1,093.45	6	1,436.03	6	1,778.60	6	2,121.18	6	2,463.76	6	2,806.30	6	3,148.81
1/4	109.50	1/4	419.04	1/4	760.53	1/4	1,100.59	1/4	1,443.17	1/4	1,785.74	1/4	2,128.32	1/4	2,470.89	1/4	2,813.44	1/4	3,155.95
1/2	115.47	1/2	426.00	1/2	767.62	1/2	1,107.73	1/2	1,450.30	1/2	1,792.88	1/2	2,135.45	1/2	2,478.03	1/2	2,820.58	1/2	3,163.08
3/4	121.44	3/4	432.97	3/4	774.72	3/4	1,114.86	3/4	1,457.44	3/4	1,800.02	3/4	2,142.59	3/4	2,485.17	3/4	2,827.71	3/4	3,170.22
7	127.41	7	439.94	7	781.81	7	1,122.00	7	1,464.58	7	1,807.15	7	2,149.73	7	2,492.30	7	2,834.85	7	3,177.35
1/4	133.46	1/4	446.99	1/4	788.89	1/4	1,129.14	1/4	1,471.71	1/4	1,814.29	1/4	2,156.87	1/4	2,499.44	1/4	2,841.99	1/4	3,184.49
1/2	139.51	1/2	454.04	1/2	795.97	1/2	1,136.27	1/2	1,478.85	1/2	1,821.43	1/2	2,164.00	1/2	2,506.58	1/2	2,849.12	1/2	3,191.62
3/4	145.56	3/4	461.08	3/4	803.05	3/4	1,143.41	3/4	1,485.99	3/4	1,828.56	3/4	2,171.14	3/4	2,513.72	3/4	2,856.26	3/4	3,198.76
8	151.62	8	468.13	8	810.13	8	1,150.55	8	1,493.12	8	1,835.70	8	2,178.28	8	2,520.85	8	2,863.40	8	3,205.89
1/4	157.75	1/4	475.25	1/4	817.21	1/4	1,157.69	1/4	1,500.26	1/4	1,842.84	1/4	2,185.41	1/4	2,527.99	1/4	2,870.53	1/4	3,213.02
1/2	163.89	1/2	482.36	1/2	824.29	1/2	1,164.82	1/2	1,507.40	1/2	1,849.97	1/2	2,192.55	1/2	2,535.13	1/2	2,877.67	1/2	3,220.16
3/4	170.02	3/4	489.47	3/4	831.36	3/4	1,171.96	3/4	1,514.54	3/4	1,857.11	3/4	2,199.69	3/4	2,542.26	3/4	2,884.81	3/4	3,227.29
9	176.16	9	496.59	9	838.44	9	1,179.10	9	1,521.67	9	1,864.25	9	2,206.82	9	2,549.40	9	2,891.94	9	3,234.43
1/4	182.38	1/4	503.72	1/4	845.52	1/4	1,186.23	1/4	1,528.81	1/4	1,871.39	1/4	2,213.96	1/4	2,556.54	1/4	2,899.08	1/4	3,241.56
1/2	188.60	1/2	510.86	1/2	852.59	1/2	1,193.37	1/2	1,535.95	1/2	1,878.52	1/2	2,221.10	1/2	2,563.67	1/2	2,906.21	1/2	3,248.70
3/4	194.82	3/4	518.00	3/4	859.67	3/4	1,200.51	3/4	1,543.08	3/4	1,885.66	3/4	2,228.24	3/4	2,570.81	3/4	2,913.35	3/4	3,255.83
10	201.04	10	525.13	10	866.75	10	1,207.64	10	1,550.22	10	1,892.80	10	2,235.37	10	2,577.95	10	2,920.49	10	3,262.97
1/4	207.34	1/4	532.27	1/4	873.82	1/4	1,214.78	1/4	1,557.36	1/4	1,899.93	1/4	2,242.51	1/4	2,585.09	1/4	2,927.62	1/4	3,270.10
1/2	213.64	1/2	539.41	1/2	880.90	1/2	1,221.92	1/2	1,564.49	1/2	1,907.07	1/2	2,249.65	1/2	2,592.22	1/2	2,934.76	1/2	3,277.24
3/4	219.95	3/4	546.54	3/4	887.97	3/4	1,229.06	3/4	1,571.63	3/4	1,914.21	3/4	2,256.78	3/4	2,599.36	3/4	2,941.90	3/4	3,284.37
11	226.25	11	553.68	11	895.05	11	1,236.19	11	1,578.77	11	1,921.34	11	2,263.92	11	2,606.50	11	2,949.03	11	3,291.51
1/4	232.64	1/4	560.82	1/4	902.13	1/4	1,243.33	1/4	1,585.91	1/4	1,928.48	1/4	2,271.06	1/4	2,613.63	1/4	2,956.17	1/4	3,298.64
1/2	239.02	1/2	567.95	1/2	909.20	1/2	1,250.47	1/2	1,593.04	1/2	1,935.62	1/2	2,278.19	1/2	2,620.76	1/2	2,963.31	1/2	3,305.77
3/4	245.41	3/4	575.09	3/4	916.28	3/4	1,257.60	3/4	1,600.18	3/4	1,942.76	3/4	2,285.33	3/4	2,627.89	3/4	2,970.44	3/4	3,312.91

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-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 "HSM 3316"

formerly the
BARGE "FMT 3316"

**1 PORT
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,320.04	0	3,662.51	0	4,005.06	0	4,347.16	0	4,688.14	0	5,009.01	0		0		0		0	
1/4	3,327.18	1/4	3,669.64	1/4	4,012.20	1/4	4,354.26	1/4	4,695.25	1/4	5,012.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,334.31	1/2	3,676.78	1/2	4,019.33	1/2	4,361.36	1/2	4,702.35	1/2	5,015.40	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,341.45	3/4	3,683.92	3/4	4,026.47	3/4	4,368.47	3/4	4,709.45	3/4	5,018.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,348.58	1	3,691.05	1	4,033.61	1	4,375.57	1	4,716.56	1	5,021.78	1	1	1	1	1	1	1	1
1/4	3,355.72	1/4	3,698.19	1/4	4,040.74	1/4	4,382.68	1/4	4,723.66	1/4	5,023.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,362.85	1/2	3,705.33	1/2	4,047.88	1/2	4,389.78	1/2	4,730.77	1/2	5,025.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,369.99	3/4	3,712.46	3/4	4,055.02	3/4	4,396.88	3/4	4,737.87	3/4	5,027.79	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,377.12	2	3,719.60	2	4,062.15	2	4,403.99	2	4,744.97	2	5,029.80	2	2	2	2	2	2	2	2
1/4	3,384.26	1/4	3,726.74	1/4	4,069.29	1/4	4,411.09	1/4	4,752.08	1/4	5,030.73	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,391.39	1/2	3,733.87	1/2	4,076.42	1/2	4,418.19	1/2	4,759.18	1/2	5,031.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,398.52	3/4	3,741.01	3/4	4,083.56	3/4	4,425.30	3/4	4,766.29	3/4	5,032.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,405.66	3	3,748.15	3	4,090.70	3	4,432.40	3	4,773.39	3	5,033.51	3	3	3	3	3	3	3	3
1/4	3,412.79	1/4	3,755.28	1/4	4,097.83	1/4	4,439.51	1/4	4,780.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,419.93	1/2	3,762.42	1/2	4,104.97	1/2	4,446.61	1/2	4,787.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,427.06	3/4	3,769.56	3/4	4,112.11	3/4	4,453.71	3/4	4,794.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,434.20	4	3,776.69	4	4,119.24	4	4,460.82	4	4,801.81	4		4	4	4	4	4	4	4	4
1/4	3,441.33	1/4	3,783.83	1/4	4,126.38	1/4	4,467.92	1/4	4,808.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,448.47	1/2	3,790.96	1/2	4,133.52	1/2	4,475.03	1/2	4,815.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,455.60	3/4	3,798.10	3/4	4,140.65	3/4	4,482.13	3/4	4,823.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,462.74	5	3,805.24	5	4,147.79	5	4,489.23	5	4,830.13	5		5	5	5	5	5	5	5	5
1/4	3,469.87	1/4	3,812.37	1/4	4,154.93	1/4	4,496.34	1/4	4,837.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,477.01	1/2	3,819.51	1/2	4,162.06	1/2	4,503.44	1/2	4,844.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,484.14	3/4	3,826.65	3/4	4,169.20	3/4	4,510.55	3/4	4,851.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,491.27	6	3,833.78	6	4,176.34	6	4,517.65	6	4,858.37	6		6	6	6	6	6	6	6	6
1/4	3,498.41	1/4	3,840.92	1/4	4,183.47	1/4	4,524.75	1/4	4,865.42	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,505.54	1/2	3,848.06	1/2	4,190.61	1/2	4,531.86	1/2	4,872.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,512.68	3/4	3,855.19	3/4	4,197.75	3/4	4,538.96	3/4	4,879.54	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,519.81	7	3,862.33	7	4,204.88	7	4,546.06	7	4,886.60	7		7	7	7	7	7	7	7	7
1/4	3,526.95	1/4	3,869.47	1/4	4,212.02	1/4	4,553.17	1/4	4,893.65	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,534.08	1/2	3,876.60	1/2	4,219.15	1/2	4,560.27	1/2	4,900.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,541.22	3/4	3,883.74	3/4	4,226.29	3/4	4,567.38	3/4	4,907.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,548.35	8	3,890.88	8	4,233.43	8	4,574.48	8	4,914.81	8		8	8	8	8	8	8	8	8
1/4	3,555.49	1/4	3,898.01	1/4	4,240.55	1/4	4,581.58	1/4	4,921.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,562.62	1/2	3,905.15	1/2	4,247.67	1/2	4,588.69	1/2	4,928.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,569.75	3/4	3,912.29	3/4	4,254.79	3/4	4,595.79	3/4	4,935.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,576.89	9	3,919.42	9	4,261.91	9	4,602.90	9	4,942.88	9		9	9	9	9	9	9	9	9
1/4	3,584.02	1/4	3,926.56	1/4	4,269.01	1/4	4,610.00	1/4	4,949.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,591.16	1/2	3,933.69	1/2	4,276.12	1/2	4,617.10	1/2	4,956.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,598.29	3/4	3,940.83	3/4	4,283.22	3/4	4,624.21	3/4	4,962.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,605.43	10	3,947.97	10	4,290.32	10	4,631.31	10	4,969.19	10		10	10	10	10	10	10	10	10
1/4	3,612.56	1/4	3,955.10	1/4	4,297.43	1/4	4,638.42	1/4	4,974.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,619.69	1/2	3,962.24	1/2	4,304.53	1/2	4,645.52	1/2	4,980.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,626.83	3/4	3,969.38	3/4	4,311.64	3/4	4,652.62	3/4	4,985.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,633.96	11	3,976.51	11	4,318.74	11	4,659.73	11	4,991.48	11		11	11	11	11	11	11	11	11
1/4	3,641.10	1/4	3,983.65	1/4	4,325.84	1/4	4,666.83	1/4	4,995.86	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,648.23	1/2	3,990.79	1/2	4,332.95	1/2	4,673.93	1/2	5,000.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,655.37	3/4	3,997.92	3/4	4,340.05	3/4	4,681.04	3/4	5,004.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020





BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

1 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.16	0	252.38	0	583.65	0	926.89	0	1,270.18	0	1,613.60	0	1,957.02	0	2,300.43	0	2,643.85	0	2,987.24
1/4	3.94	1/4	258.86	1/4	590.81	1/4	934.04	1/4	1,277.34	1/4	1,620.75	1/4	1,964.17	1/4	2,307.59	1/4	2,651.00	1/4	2,994.39
1/2	5.73	1/2	265.35	1/2	597.96	1/2	941.19	1/2	1,284.49	1/2	1,627.91	1/2	1,971.33	1/2	2,314.74	1/2	2,658.16	1/2	3,001.55
3/4	7.52	3/4	271.83	3/4	605.11	3/4	948.33	3/4	1,291.65	3/4	1,635.06	3/4	1,978.48	3/4	2,321.90	3/4	2,665.31	3/4	3,008.70
1	9.31	1	278.32	1	612.27	1	955.48	1	1,298.80	1	1,642.22	1	1,985.63	1	2,329.05	1	2,672.46	1	3,015.85
1/4	12.11	1/4	284.88	1/4	619.42	1/4	962.62	1/4	1,305.96	1/4	1,649.37	1/4	1,992.79	1/4	2,336.20	1/4	2,679.62	1/4	3,023.01
1/2	14.92	1/2	291.45	1/2	626.58	1/2	969.77	1/2	1,313.11	1/2	1,656.53	1/2	1,999.94	1/2	2,343.36	1/2	2,686.77	1/2	3,030.16
3/4	17.72	3/4	298.02	3/4	633.73	3/4	976.91	3/4	1,320.27	3/4	1,663.68	3/4	2,007.10	3/4	2,350.51	3/4	2,693.93	3/4	3,037.31
2	20.52	2	304.59	2	640.89	2	984.06	2	1,327.42	2	1,670.84	2	2,014.25	2	2,357.67	2	2,701.08	2	3,044.46
1/4	24.38	1/4	311.24	1/4	648.04	1/4	991.21	1/4	1,334.57	1/4	1,677.99	1/4	2,021.41	1/4	2,364.82	1/4	2,708.23	1/4	3,051.62
1/2	28.24	1/2	317.90	1/2	655.19	1/2	998.35	1/2	1,341.73	1/2	1,685.15	1/2	2,028.56	1/2	2,371.98	1/2	2,715.39	1/2	3,058.77
3/4	32.10	3/4	324.55	3/4	662.35	3/4	1,005.50	3/4	1,348.88	3/4	1,692.30	3/4	2,035.72	3/4	2,379.13	3/4	2,722.54	3/4	3,065.92
3	35.96	3	331.20	3	669.50	3	1,012.64	3	1,356.04	3	1,699.45	3	2,042.87	3	2,386.29	3	2,729.70	3	3,073.07
1/4	41.22	1/4	337.94	1/4	676.66	1/4	1,019.79	1/4	1,363.19	1/4	1,706.61	1/4	2,050.02	1/4	2,393.44	1/4	2,736.85	1/4	3,080.22
1/2	46.49	1/2	344.67	1/2	683.81	1/2	1,026.94	1/2	1,370.35	1/2	1,713.76	1/2	2,057.18	1/2	2,400.60	1/2	2,744.00	1/2	3,087.38
3/4	51.76	3/4	351.41	3/4	690.97	3/4	1,034.09	3/4	1,377.50	3/4	1,720.92	3/4	2,064.33	3/4	2,407.75	3/4	2,751.16	3/4	3,094.53
4	57.02	4	358.14	4	698.12	4	1,041.24	4	1,384.66	4	1,728.07	4	2,071.49	4	2,414.90	4	2,758.31	4	3,101.68
1/4	62.81	1/4	364.96	1/4	705.27	1/4	1,048.40	1/4	1,391.81	1/4	1,735.23	1/4	2,078.64	1/4	2,422.06	1/4	2,765.47	1/4	3,108.83
1/2	68.61	1/2	371.78	1/2	712.43	1/2	1,055.55	1/2	1,398.97	1/2	1,742.38	1/2	2,085.80	1/2	2,429.21	1/2	2,772.62	1/2	3,115.98
3/4	74.40	3/4	378.60	3/4	719.58	3/4	1,062.70	3/4	1,406.12	3/4	1,749.54	3/4	2,092.95	3/4	2,436.37	3/4	2,779.77	3/4	3,123.14
5	80.19	5	385.42	5	726.74	5	1,069.86	5	1,413.27	5	1,756.69	5	2,100.11	5	2,443.52	5	2,786.93	5	3,130.29
1/4	86.09	1/4	392.33	1/4	733.89	1/4	1,077.01	1/4	1,420.43	1/4	1,763.84	1/4	2,107.26	1/4	2,450.68	1/4	2,794.08	1/4	3,137.44
1/2	91.98	1/2	399.23	1/2	741.05	1/2	1,084.17	1/2	1,427.58	1/2	1,771.00	1/2	2,114.42	1/2	2,457.83	1/2	2,801.24	1/2	3,144.59
3/4	97.87	3/4	406.13	3/4	748.20	3/4	1,091.32	3/4	1,434.74	3/4	1,778.15	3/4	2,121.57	3/4	2,464.99	3/4	2,808.39	3/4	3,151.74
6	103.77	6	413.04	6	755.35	6	1,098.48	6	1,441.89	6	1,785.31	6	2,128.72	6	2,472.14	6	2,815.54	6	3,158.90
1/4	109.75	1/4	420.02	1/4	762.51	1/4	1,105.63	1/4	1,449.05	1/4	1,792.46	1/4	2,135.88	1/4	2,479.29	1/4	2,822.70	1/4	3,166.05
1/2	115.73	1/2	427.01	1/2	769.66	1/2	1,112.79	1/2	1,456.20	1/2	1,799.62	1/2	2,143.03	1/2	2,486.45	1/2	2,829.85	1/2	3,173.20
3/4	121.71	3/4	434.00	3/4	776.82	3/4	1,119.94	3/4	1,463.36	3/4	1,806.77	3/4	2,150.19	3/4	2,493.60	3/4	2,837.01	3/4	3,180.35
7	127.70	7	440.98	7	783.97	7	1,127.09	7	1,470.51	7	1,813.93	7	2,157.34	7	2,500.76	7	2,844.16	7	3,187.51
1/4	133.76	1/4	448.05	1/4	791.12	1/4	1,134.25	1/4	1,477.66	1/4	1,821.08	1/4	2,164.50	1/4	2,507.91	1/4	2,851.31	1/4	3,194.66
1/2	139.83	1/2	455.12	1/2	798.27	1/2	1,141.40	1/2	1,484.82	1/2	1,828.24	1/2	2,171.65	1/2	2,515.07	1/2	2,858.47	1/2	3,201.81
3/4	145.90	3/4	462.20	3/4	805.42	3/4	1,148.56	3/4	1,491.97	3/4	1,835.39	3/4	2,178.81	3/4	2,522.22	3/4	2,865.62	3/4	3,208.96
8	151.96	8	469.27	8	812.57	8	1,155.71	8	1,499.13	8	1,842.54	8	2,185.96	8	2,529.38	8	2,872.78	8	3,216.11
1/4	158.11	1/4	476.40	1/4	819.71	1/4	1,162.87	1/4	1,506.28	1/4	1,849.70	1/4	2,193.11	1/4	2,536.53	1/4	2,879.93	1/4	3,223.27
1/2	164.26	1/2	483.53	1/2	826.86	1/2	1,170.02	1/2	1,513.44	1/2	1,856.85	1/2	2,200.27	1/2	2,543.69	1/2	2,887.08	1/2	3,230.42
3/4	170.41	3/4	490.67	3/4	834.00	3/4	1,177.18	3/4	1,520.59	3/4	1,864.01	3/4	2,207.42	3/4	2,550.84	3/4	2,894.24	3/4	3,237.57
9	176.56	9	497.80	9	841.15	9	1,184.33	9	1,527.75	9	1,871.16	9	2,214.58	9	2,557.99	9	2,901.39	9	3,244.72
1/4	182.80	1/4	504.95	1/4	848.29	1/4	1,191.48	1/4	1,534.90	1/4	1,878.32	1/4	2,221.73	1/4	2,565.15	1/4	2,908.55	1/4	3,251.87
1/2	189.03	1/2	512.11	1/2	855.44	1/2	1,198.64	1/2	1,542.06	1/2	1,885.47	1/2	2,228.89	1/2	2,572.30	1/2	2,915.70	1/2	3,259.03
3/4	195.27	3/4	519.26	3/4	862.58	3/4	1,205.79	3/4	1,549.21	3/4	1,892.63	3/4	2,236.04	3/4	2,579.46	3/4	2,922.85	3/4	3,266.18
10	201.50	10	526.42	10	869.73	10	1,212.95	10	1,556.36	10	1,899.78	10	2,243.20	10	2,586.61	10	2,930.01	10	3,273.33
1/4	207.82	1/4	533.57	1/4	876.88	1/4	1,220.10	1/4	1,563.52	1/4	1,906.93	1/4	2,250.35	1/4	2,593.77	1/4	2,937.16	1/4	3,280.48
1/2	214.14	1/2	540.73	1/2	884.02	1/2	1,227.26	1/2	1,570.67	1/2	1,914.09	1/2	2,257.51	1/2	2,600.92	1/2	2,944.32	1/2	3,287.63
3/4	220.45	3/4	547.88	3/4	891.17	3/4	1,234.41	3/4	1,577.83	3/4	1,921.24	3/4	2,264.66	3/4	2,608.08	3/4	2,951.47	3/4	3,294.79
11	226.77	11	555.03	11	898.31	11	1,241.57	11	1,584.98	11	1,928.40	11	2,271.81	11	2,615.23	11	2,958.62	11	3,301.94
1/4	233.17	1/4	562.19	1/4	905.46	1/4	1,248.72	1/4	1,592.14	1/4	1,935.55	1/4	2,278.97	1/4	2,622.38	1/4	2,965.78	1/4	3,309.09
1/2	239.57	1/2	569.34	1/2	912.60	1/2	1,255.88	1/2	1,599.29	1/2	1,942.71	1/2	2,286.12	1/2	2,629.54	1/2	2,972.93	1/2	3,316.24
3/4	245.97	3/4	576.50	3/4	919.75	3/4	1,263.03	3/4	1,606.45	3/4	1,949.86	3/4	2,293.28	3/4	2,636.69	3/4	2,980.09	3/4	3,323.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

1 STBD
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,330.55	0	3,673.86	0	4,017.25	0	4,360.19	0	4,702.02	0	5,023.67	0		0		0		0	
1/4	3,337.70	1/4	3,681.01	1/4	4,024.41	1/4	4,367.31	1/4	4,709.14	1/4	5,026.87	1/4		1/4		1/4		1/4	
1/2	3,344.85	1/2	3,688.17	1/2	4,031.56	1/2	4,374.43	1/2	4,716.26	1/2	5,030.07	1/2		1/2		1/2		1/2	
3/4	3,352.00	3/4	3,695.32	3/4	4,038.72	3/4	4,381.56	3/4	4,723.38	3/4	5,033.27	3/4		3/4		3/4		3/4	
1	3,359.16	1	3,702.47	1	4,045.87	1	4,388.68	1	4,730.50	1	5,036.47	1		1		1		1	
1/4	3,366.31	1/4	3,709.63	1/4	4,053.03	1/4	4,395.80	1/4	4,737.63	1/4	5,038.48	1/4		1/4		1/4		1/4	
1/2	3,373.46	1/2	3,716.78	1/2	4,060.18	1/2	4,402.92	1/2	4,744.75	1/2	5,040.49	1/2		1/2		1/2		1/2	
3/4	3,380.61	3/4	3,723.94	3/4	4,067.33	3/4	4,410.04	3/4	4,751.87	3/4	5,042.50	3/4		3/4		3/4		3/4	
2	3,387.76	2	3,731.09	2	4,074.49	2	4,417.16	2	4,758.99	2	5,044.51	2		2		2		2	
1/4	3,394.92	1/4	3,738.24	1/4	4,081.64	1/4	4,424.28	1/4	4,766.11	1/4	5,045.44	1/4		1/4		1/4		1/4	
1/2	3,402.07	1/2	3,745.40	1/2	4,088.80	1/2	4,431.41	1/2	4,773.23	1/2	5,046.37	1/2		1/2		1/2		1/2	
3/4	3,409.22	3/4	3,752.55	3/4	4,095.95	3/4	4,438.53	3/4	4,780.35	3/4	5,047.30	3/4		3/4		3/4		3/4	
3	3,416.37	3	3,759.71	3	4,103.10	3	4,445.65	3	4,787.48	3	5,048.23	3		3		3		3	
1/4	3,423.52	1/4	3,766.86	1/4	4,110.26	1/4	4,452.77	1/4	4,794.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,430.68	1/2	3,774.02	1/2	4,117.41	1/2	4,459.89	1/2	4,801.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,437.83	3/4	3,781.17	3/4	4,124.57	3/4	4,467.01	3/4	4,808.84	3/4		3/4		3/4		3/4		3/4	
4	3,444.98	4	3,788.32	4	4,131.72	4	4,474.13	4	4,815.96	4		4		4		4		4	
1/4	3,452.13	1/4	3,795.48	1/4	4,138.87	1/4	4,481.26	1/4	4,823.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,459.29	1/2	3,802.63	1/2	4,146.03	1/2	4,488.38	1/2	4,830.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,466.44	3/4	3,809.79	3/4	4,153.18	3/4	4,495.50	3/4	4,837.25	3/4		3/4		3/4		3/4		3/4	
5	3,473.59	5	3,816.94	5	4,160.34	5	4,502.62	5	4,844.35	5		5		5		5		5	
1/4	3,480.74	1/4	3,824.09	1/4	4,167.49	1/4	4,509.74	1/4	4,851.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,487.89	1/2	3,831.25	1/2	4,174.64	1/2	4,516.86	1/2	4,858.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,495.05	3/4	3,838.40	3/4	4,181.80	3/4	4,523.98	3/4	4,865.58	3/4		3/4		3/4		3/4		3/4	
6	3,502.20	6	3,845.56	6	4,188.95	6	4,531.10	6	4,872.66	6		6		6		6		6	
1/4	3,509.35	1/4	3,852.71	1/4	4,196.11	1/4	4,538.23	1/4	4,879.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,516.50	1/2	3,859.86	1/2	4,203.26	1/2	4,545.35	1/2	4,886.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,523.65	3/4	3,867.02	3/4	4,210.42	3/4	4,552.47	3/4	4,893.89	3/4		3/4		3/4		3/4		3/4	
7	3,530.81	7	3,874.17	7	4,217.57	7	4,559.59	7	4,900.96	7		7		7		7		7	
1/4	3,537.96	1/4	3,881.33	1/4	4,224.72	1/4	4,566.71	1/4	4,908.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,545.11	1/2	3,888.48	1/2	4,231.88	1/2	4,573.83	1/2	4,915.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,552.26	3/4	3,895.63	3/4	4,239.03	3/4	4,580.95	3/4	4,922.17	3/4		3/4		3/4		3/4		3/4	
8	3,559.41	8	3,902.79	8	4,246.19	8	4,588.08	8	4,929.23	8		8		8		8		8	
1/4	3,566.57	1/4	3,909.94	1/4	4,253.32	1/4	4,595.20	1/4	4,936.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,573.72	1/2	3,917.10	1/2	4,260.46	1/2	4,602.32	1/2	4,943.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,580.87	3/4	3,924.25	3/4	4,267.60	3/4	4,609.44	3/4	4,950.34	3/4		3/4		3/4		3/4		3/4	
9	3,588.02	9	3,931.41	9	4,274.73	9	4,616.56	9	4,957.37	9		9		9		9		9	
1/4	3,595.18	1/4	3,938.56	1/4	4,281.86	1/4	4,623.68	1/4	4,963.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,602.33	1/2	3,945.71	1/2	4,288.98	1/2	4,630.80	1/2	4,970.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,609.48	3/4	3,952.87	3/4	4,296.10	3/4	4,637.93	3/4	4,977.16	3/4		3/4		3/4		3/4		3/4	
10	3,616.63	10	3,960.02	10	4,303.22	10	4,645.05	10	4,983.75	10		10		10		10		10	
1/4	3,623.78	1/4	3,967.18	1/4	4,310.34	1/4	4,652.17	1/4	4,989.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.94	1/2	3,974.33	1/2	4,317.46	1/2	4,659.29	1/2	4,994.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.09	3/4	3,981.48	3/4	4,324.58	3/4	4,666.41	3/4	5,000.51	3/4		3/4		3/4		3/4		3/4	
11	3,645.24	11	3,988.64	11	4,331.71	11	4,673.53	11	5,006.10	11		11		11		11		11	
1/4	3,652.40	1/4	3,995.79	1/4	4,338.83	1/4	4,680.65	1/4	5,010.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,659.55	1/2	4,002.95	1/2	4,345.95	1/2	4,687.78	1/2	5,014.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,666.70	3/4	4,010.10	3/4	4,353.07	3/4	4,694.90	3/4	5,019.28	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the

BARGE "FMT 3316"

2 PORT INNAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.15	0	300.63	0	644.03	0	979.55	0	1,316.32	0	1,659.73	0	2,003.13	0	2,346.54	0	2,689.94	0	3,033.35
1/4	3.94	1/4	307.79	1/4	651.18	1/4	986.40	1/4	1,323.47	1/4	1,666.88	1/4	2,010.29	1/4	2,353.69	1/4	2,697.10	1/4	3,040.50
1/2	5.73	1/2	314.94	1/2	658.33	1/2	993.24	1/2	1,330.63	1/2	1,674.03	1/2	2,017.44	1/2	2,360.85	1/2	2,704.25	1/2	3,047.64
3/4	7.52	3/4	322.10	3/4	665.49	3/4	1,000.09	3/4	1,337.78	3/4	1,681.19	3/4	2,024.59	3/4	2,368.00	3/4	2,711.41	3/4	3,054.79
1	9.31	1	329.25	1	672.64	1	1,006.94	1	1,344.94	1	1,688.34	1	2,031.75	1	2,375.16	1	2,718.56	1	3,061.94
1/4	12.88	1/4	336.40	1/4	679.80	1/4	1,013.78	1/4	1,352.09	1/4	1,695.50	1/4	2,038.90	1/4	2,382.31	1/4	2,725.72	1/4	3,069.09
1/2	16.46	1/2	343.56	1/2	686.95	1/2	1,020.63	1/2	1,359.24	1/2	1,702.65	1/2	2,046.06	1/2	2,389.46	1/2	2,732.87	1/2	3,076.24
3/4	20.04	3/4	350.71	3/4	694.10	3/4	1,027.48	3/4	1,366.40	3/4	1,709.81	3/4	2,053.21	3/4	2,396.62	3/4	2,740.02	3/4	3,083.39
2	23.62	2	357.87	2	701.26	2	1,034.32	2	1,373.55	2	1,716.96	2	2,060.37	2	2,403.77	2	2,747.18	2	3,090.55
1/4	28.98	1/4	365.02	1/4	708.41	1/4	1,041.17	1/4	1,380.71	1/4	1,724.11	1/4	2,067.52	1/4	2,410.93	1/4	2,754.33	1/4	3,097.70
1/2	34.34	1/2	372.17	1/2	715.57	1/2	1,048.02	1/2	1,387.86	1/2	1,731.27	1/2	2,074.67	1/2	2,418.08	1/2	2,761.49	1/2	3,104.85
3/4	39.71	3/4	379.33	3/4	722.72	3/4	1,054.86	3/4	1,395.02	3/4	1,738.42	3/4	2,081.83	3/4	2,425.24	3/4	2,768.64	3/4	3,112.00
3	45.07	3	386.48	3	729.87	3	1,061.71	3	1,402.17	3	1,745.58	3	2,088.98	3	2,432.39	3	2,775.80	3	3,119.16
1/4	51.76	1/4	393.64	1/4	737.03	1/4	1,068.56	1/4	1,409.32	1/4	1,752.73	1/4	2,096.14	1/4	2,439.54	1/4	2,782.95	1/4	3,126.31
1/2	58.45	1/2	400.79	1/2	744.18	1/2	1,075.41	1/2	1,416.48	1/2	1,759.89	1/2	2,103.29	1/2	2,446.70	1/2	2,790.10	1/2	3,133.46
3/4	65.14	3/4	407.94	3/4	751.34	3/4	1,082.26	3/4	1,423.63	3/4	1,767.04	3/4	2,110.45	3/4	2,453.85	3/4	2,797.26	3/4	3,140.61
4	71.83	4	415.10	4	758.49	4	1,089.11	4	1,430.79	4	1,774.19	4	2,117.60	4	2,461.01	4	2,804.41	4	3,147.76
1/4	78.96	1/4	422.25	1/4	765.64	1/4	1,095.97	1/4	1,437.94	1/4	1,781.35	1/4	2,124.75	1/4	2,468.16	1/4	2,811.57	1/4	3,154.92
1/2	86.09	1/2	429.41	1/2	772.80	1/2	1,102.84	1/2	1,445.10	1/2	1,788.50	1/2	2,131.91	1/2	2,475.32	1/2	2,818.72	1/2	3,162.07
3/4	93.22	3/4	436.56	3/4	779.95	3/4	1,109.70	3/4	1,452.25	3/4	1,795.66	3/4	2,139.06	3/4	2,482.47	3/4	2,825.88	3/4	3,169.22
5	100.35	5	443.71	5	787.11	5	1,116.56	5	1,459.40	5	1,802.81	5	2,146.22	5	2,489.62	5	2,833.03	5	3,176.37
1/4	107.50	1/4	450.87	1/4	794.12	1/4	1,123.58	1/4	1,466.56	1/4	1,809.97	1/4	2,153.37	1/4	2,496.78	1/4	2,840.18	1/4	3,183.52
1/2	114.64	1/2	458.02	1/2	801.13	1/2	1,130.59	1/2	1,473.71	1/2	1,817.12	1/2	2,160.53	1/2	2,503.93	1/2	2,847.34	1/2	3,190.68
3/4	121.79	3/4	465.18	3/4	808.14	3/4	1,137.60	3/4	1,480.87	3/4	1,824.27	3/4	2,167.68	3/4	2,511.09	3/4	2,854.49	3/4	3,197.83
6	128.94	6	472.33	6	815.15	6	1,144.62	6	1,488.02	6	1,831.43	6	2,174.83	6	2,518.24	6	2,861.65	6	3,204.98
1/4	136.09	1/4	479.48	1/4	822.02	1/4	1,151.77	1/4	1,495.18	1/4	1,838.58	1/4	2,181.99	1/4	2,525.40	1/4	2,868.80	1/4	3,212.13
1/2	143.25	1/2	486.64	1/2	828.88	1/2	1,158.92	1/2	1,502.33	1/2	1,845.74	1/2	2,189.14	1/2	2,532.55	1/2	2,875.96	1/2	3,219.29
3/4	150.40	3/4	493.79	3/4	835.74	3/4	1,166.08	3/4	1,509.48	3/4	1,852.89	3/4	2,196.30	3/4	2,539.70	3/4	2,883.11	3/4	3,226.44
7	157.55	7	500.95	7	842.61	7	1,173.23	7	1,516.64	7	1,860.05	7	2,203.45	7	2,546.86	7	2,890.26	7	3,233.59
1/4	164.71	1/4	508.10	1/4	849.46	1/4	1,180.39	1/4	1,523.79	1/4	1,867.20	1/4	2,210.61	1/4	2,554.01	1/4	2,897.42	1/4	3,240.74
1/2	171.86	1/2	515.25	1/2	856.31	1/2	1,187.54	1/2	1,530.95	1/2	1,874.35	1/2	2,217.76	1/2	2,561.17	1/2	2,904.57	1/2	3,247.89
3/4	179.02	3/4	522.41	3/4	863.16	3/4	1,194.70	3/4	1,538.10	3/4	1,881.51	3/4	2,224.91	3/4	2,568.32	3/4	2,911.73	3/4	3,255.05
8	186.17	8	529.56	8	870.01	8	1,201.85	8	1,545.26	8	1,888.66	8	2,232.07	8	2,575.48	8	2,918.88	8	3,262.20
1/4	193.32	1/4	536.72	1/4	876.85	1/4	1,209.00	1/4	1,552.41	1/4	1,895.82	1/4	2,239.22	1/4	2,582.63	1/4	2,926.04	1/4	3,269.35
1/2	200.48	1/2	543.87	1/2	883.70	1/2	1,216.16	1/2	1,559.56	1/2	1,902.97	1/2	2,246.38	1/2	2,589.78	1/2	2,933.19	1/2	3,276.50
3/4	207.63	3/4	551.02	3/4	890.55	3/4	1,223.31	3/4	1,566.72	3/4	1,910.13	3/4	2,253.53	3/4	2,596.94	3/4	2,940.34	3/4	3,283.66
9	214.79	9	558.18	9	897.39	9	1,230.47	9	1,573.87	9	1,917.28	9	2,260.69	9	2,604.09	9	2,947.50	9	3,290.81
1/4	221.94	1/4	565.33	1/4	904.24	1/4	1,237.62	1/4	1,581.03	1/4	1,924.43	1/4	2,267.84	1/4	2,611.25	1/4	2,954.65	1/4	3,297.96
1/2	229.09	1/2	572.49	1/2	911.09	1/2	1,244.78	1/2	1,588.18	1/2	1,931.59	1/2	2,274.99	1/2	2,618.40	1/2	2,961.81	1/2	3,305.11
3/4	236.25	3/4	579.64	3/4	917.93	3/4	1,251.93	3/4	1,595.34	3/4	1,938.74	3/4	2,282.15	3/4	2,625.56	3/4	2,968.96	3/4	3,312.26
10	243.40	10	586.79	10	924.78	10	1,259.08	10	1,602.49	10	1,945.90	10	2,289.30	10	2,632.71	10	2,976.12	10	3,319.42
1/4	250.56	1/4	593.95	1/4	931.63	1/4	1,266.24	1/4	1,609.65	1/4	1,953.05	1/4	2,296.46	1/4	2,639.86	1/4	2,983.27	1/4	3,326.57
1/2	257.71	1/2	601.10	1/2	938.47	1/2	1,273.39	1/2	1,616.80	1/2	1,960.21	1/2	2,303.61	1/2	2,647.02	1/2	2,990.42	1/2	3,333.72
3/4	264.86	3/4	608.26	3/4	945.32	3/4	1,280.55	3/4	1,623.95	3/4	1,967.36	3/4	2,310.77	3/4	2,654.17	3/4	2,997.58	3/4	3,340.87
11	272.02	11	615.41	11	952.16	11	1,287.70	11	1,631.11	11	1,974.51	11	2,317.92	11	2,661.33	11	3,004.73	11	3,348.03
1/4	279.17	1/4	622.56	1/4	959.01	1/4	1,294.86	1/4	1,638.26	1/4	1,981.67	1/4	2,325.08	1/4	2,668.48	1/4	3,011.89	1/4	3,355.18
1/2	286.33	1/2	629.72	1/2	965.86	1/2	1,302.01	1/2	1,645.42	1/2	1,988.82	1/2	2,332.23	1/2	2,675.64	1/2	3,019.04	1/2	3,362.33
3/4	293.48	3/4	636.87	3/4	972.70	3/4	1,309.16	3/4	1,652.57	3/4	1,995.98	3/4	2,339.38	3/4	2,682.79	3/4	3,026.20	3/4	3,369.48

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-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 "HSM 3316"

formerly the
BARGE "FMT 3316"

**2 PORT
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,376.63	0	3,719.94	0	4,063.25	0	4,406.09	0	4,747.84	0	5,069.40	0		0		0		0	
1/4	3,383.79	1/4	3,727.09	1/4	4,070.40	1/4	4,413.21	1/4	4,754.96	1/4	5,072.60	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,390.94	1/2	3,734.24	1/2	4,077.55	1/2	4,420.33	1/2	4,762.07	1/2	5,075.80	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,398.09	3/4	3,741.40	3/4	4,084.70	3/4	4,427.45	3/4	4,769.19	3/4	5,079.00	3/4	3/4	3/4	3/4		3/4		3/4
1	3,405.24	1	3,748.55	1	4,091.85	1	4,434.57	1	4,776.31	1	5,082.20	1		1		1		1	
1/4	3,412.40	1/4	3,755.70	1/4	4,099.01	1/4	4,441.69	1/4	4,783.43	1/4	5,084.20	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,419.55	1/2	3,762.85	1/2	4,106.16	1/2	4,448.81	1/2	4,790.55	1/2	5,086.21	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,426.70	3/4	3,770.01	3/4	4,113.31	3/4	4,455.93	3/4	4,797.67	3/4	5,088.22	3/4	3/4	3/4	3/4		3/4		3/4
2	3,433.85	2	3,777.16	2	4,120.46	2	4,463.05	2	4,804.79	2	5,090.22	2		2		2		2	
1/4	3,441.00	1/4	3,784.31	1/4	4,127.62	1/4	4,470.17	1/4	4,811.91	1/4	5,091.15	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,448.16	1/2	3,791.46	1/2	4,134.77	1/2	4,477.29	1/2	4,819.03	1/2	5,092.08	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,455.31	3/4	3,798.61	3/4	4,141.92	3/4	4,484.41	3/4	4,826.15	3/4	5,093.01	3/4	3/4	3/4	3/4		3/4		3/4
3	3,462.46	3	3,805.77	3	4,149.07	3	4,491.53	3	4,833.27	3	5,093.94	3		3		3		3	
1/4	3,469.61	1/4	3,812.92	1/4	4,156.22	1/4	4,498.65	1/4	4,840.39	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,476.77	1/2	3,820.07	1/2	4,163.38	1/2	4,505.77	1/2	4,847.51	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,483.92	3/4	3,827.22	3/4	4,170.53	3/4	4,512.89	3/4	4,854.63	3/4		3/4	3/4	3/4	3/4		3/4		3/4
4	3,491.07	4	3,834.38	4	4,177.68	4	4,520.01	4	4,861.75	4		4		4		4		4	
1/4	3,498.22	1/4	3,841.53	1/4	4,184.83	1/4	4,527.13	1/4	4,868.85	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,505.37	1/2	3,848.68	1/2	4,191.99	1/2	4,534.25	1/2	4,875.94	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,512.53	3/4	3,855.83	3/4	4,199.14	3/4	4,541.37	3/4	4,883.04	3/4		3/4	3/4	3/4	3/4		3/4		3/4
5	3,519.68	5	3,862.98	5	4,206.29	5	4,548.49	5	4,890.13	5		5		5		5		5	
1/4	3,526.83	1/4	3,870.14	1/4	4,213.44	1/4	4,555.61	1/4	4,897.21	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,533.98	1/2	3,877.29	1/2	4,220.59	1/2	4,562.73	1/2	4,904.28	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,541.13	3/4	3,884.44	3/4	4,227.75	3/4	4,569.85	3/4	4,911.36	3/4		3/4	3/4	3/4	3/4		3/4		3/4
6	3,548.29	6	3,891.59	6	4,234.90	6	4,576.97	6	4,918.43	6		6		6		6		6	
1/4	3,555.44	1/4	3,898.74	1/4	4,242.05	1/4	4,584.08	1/4	4,925.51	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,562.59	1/2	3,905.90	1/2	4,249.20	1/2	4,591.20	1/2	4,932.58	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,569.74	3/4	3,913.05	3/4	4,256.35	3/4	4,598.32	3/4	4,939.65	3/4		3/4	3/4	3/4	3/4		3/4		3/4
7	3,576.90	7	3,920.20	7	4,263.51	7	4,605.44	7	4,946.73	7		7		7		7		7	
1/4	3,584.05	1/4	3,927.35	1/4	4,270.66	1/4	4,612.56	1/4	4,953.79	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,591.20	1/2	3,934.51	1/2	4,277.81	1/2	4,619.68	1/2	4,960.86	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,598.35	3/4	3,941.66	3/4	4,284.96	3/4	4,626.80	3/4	4,967.92	3/4		3/4	3/4	3/4	3/4		3/4		3/4
8	3,605.50	8	3,948.81	8	4,292.12	8	4,633.92	8	4,974.99	8		8		8		8		8	
1/4	3,612.66	1/4	3,955.96	1/4	4,299.25	1/4	4,641.04	1/4	4,982.02	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,619.81	1/2	3,963.11	1/2	4,306.39	1/2	4,648.16	1/2	4,989.06	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,626.96	3/4	3,970.27	3/4	4,313.52	3/4	4,655.28	3/4	4,996.09	3/4		3/4	3/4	3/4	3/4		3/4		3/4
9	3,634.11	9	3,977.42	9	4,320.66	9	4,662.40	9	5,003.12	9		9		9		9		9	
1/4	3,641.27	1/4	3,984.57	1/4	4,327.78	1/4	4,669.52	1/4	5,009.71	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,648.42	1/2	3,991.72	1/2	4,334.90	1/2	4,676.64	1/2	5,016.31	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,655.57	3/4	3,998.88	3/4	4,342.02	3/4	4,683.76	3/4	5,022.90	3/4		3/4	3/4	3/4	3/4		3/4		3/4
10	3,662.72	10	4,006.03	10	4,349.14	10	4,690.88	10	5,029.49	10		10		10		10		10	
1/4	3,669.87	1/4	4,013.18	1/4	4,356.26	1/4	4,698.00	1/4	5,035.08	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,677.03	1/2	4,020.33	1/2	4,363.38	1/2	4,705.12	1/2	5,040.66	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,684.18	3/4	4,027.48	3/4	4,370.50	3/4	4,712.24	3/4	5,046.25	3/4		3/4	3/4	3/4	3/4		3/4		3/4
11	3,691.33	11	4,034.64	11	4,377.62	11	4,719.36	11	5,051.83	11		11		11		11		11	
1/4	3,698.48	1/4	4,041.79	1/4	4,384.74	1/4	4,726.48	1/4	5,056.22	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,705.64	1/2	4,048.94	1/2	4,391.86	1/2	4,733.60	1/2	5,060.61	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,712.79	3/4	4,056.09	3/4	4,398.98	3/4	4,740.72	3/4	5,065.01	3/4		3/4	3/4	3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

**2 STBD
INNAGE TABLE**

**10" HATCH
GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.16	0	301.12	0	645.07	0	988.76	0	1,332.50	0	1,676.47	0	2,020.43	0	2,364.39	0	2,708.36	0	3,052.32
1/4	3.95	1/4	308.29	1/4	652.24	1/4	995.91	1/4	1,339.67	1/4	1,683.63	1/4	2,027.59	1/4	2,371.56	1/4	2,715.52	1/4	3,059.48
1/2	5.74	1/2	315.46	1/2	659.40	1/2	1,003.06	1/2	1,346.83	1/2	1,690.80	1/2	2,034.76	1/2	2,378.72	1/2	2,722.69	1/2	3,066.65
3/4	7.53	3/4	322.62	3/4	666.57	3/4	1,010.21	3/4	1,354.00	3/4	1,697.96	3/4	2,041.93	3/4	2,385.89	3/4	2,729.85	3/4	3,073.82
1	9.32	1	329.79	1	673.74	1	1,017.37	1	1,361.17	1	1,705.13	1	2,049.09	1	2,393.06	1	2,737.02	1	3,080.98
1/4	12.91	1/4	336.95	1/4	680.90	1/4	1,024.52	1/4	1,368.33	1/4	1,712.30	1/4	2,056.26	1/4	2,400.22	1/4	2,744.18	1/4	3,088.15
1/2	16.49	1/2	344.12	1/2	688.07	1/2	1,031.67	1/2	1,375.50	1/2	1,719.46	1/2	2,063.42	1/2	2,407.39	1/2	2,751.35	1/2	3,095.31
3/4	20.07	3/4	351.28	3/4	695.23	3/4	1,038.82	3/4	1,382.66	3/4	1,726.63	3/4	2,070.59	3/4	2,414.55	3/4	2,758.52	3/4	3,102.48
2	23.65	2	358.45	2	702.40	2	1,045.97	2	1,389.83	2	1,733.79	2	2,077.76	2	2,421.72	2	2,765.68	2	3,109.64
1/4	29.03	1/4	365.62	1/4	709.56	1/4	1,053.12	1/4	1,397.00	1/4	1,740.96	1/4	2,084.92	1/4	2,428.89	1/4	2,772.85	1/4	3,116.80
1/2	34.40	1/2	372.78	1/2	716.73	1/2	1,060.28	1/2	1,404.16	1/2	1,748.12	1/2	2,092.09	1/2	2,436.05	1/2	2,780.01	1/2	3,123.97
3/4	39.78	3/4	379.95	3/4	723.90	3/4	1,067.43	3/4	1,411.33	3/4	1,755.29	3/4	2,099.25	3/4	2,443.22	3/4	2,787.18	3/4	3,131.13
3	45.15	3	387.11	3	731.06	3	1,074.58	3	1,418.49	3	1,762.46	3	2,106.42	3	2,450.38	3	2,794.35	3	3,138.30
1/4	51.85	1/4	394.28	1/4	738.23	1/4	1,081.74	1/4	1,425.66	1/4	1,769.62	1/4	2,113.59	1/4	2,457.55	1/4	2,801.51	1/4	3,145.46
1/2	58.55	1/2	401.44	1/2	745.39	1/2	1,088.89	1/2	1,432.83	1/2	1,776.79	1/2	2,120.75	1/2	2,464.71	1/2	2,808.68	1/2	3,152.62
3/4	65.25	3/4	408.61	3/4	752.56	3/4	1,096.05	3/4	1,439.99	3/4	1,783.95	3/4	2,127.92	3/4	2,471.88	3/4	2,815.84	3/4	3,159.79
4	71.94	4	415.77	4	759.72	4	1,103.20	4	1,447.16	4	1,791.12	4	2,135.08	4	2,479.05	4	2,823.01	4	3,166.95
1/4	79.09	1/4	422.94	1/4	766.89	1/4	1,110.37	1/4	1,454.32	1/4	1,798.29	1/4	2,142.25	1/4	2,486.21	1/4	2,830.18	1/4	3,174.12
1/2	86.23	1/2	430.11	1/2	774.05	1/2	1,117.53	1/2	1,461.49	1/2	1,805.45	1/2	2,149.42	1/2	2,493.38	1/2	2,837.34	1/2	3,181.28
3/4	93.37	3/4	437.27	3/4	781.22	3/4	1,124.69	3/4	1,468.65	3/4	1,812.62	3/4	2,156.58	3/4	2,500.54	3/4	2,844.51	3/4	3,188.44
5	100.51	5	444.44	5	788.39	5	1,131.86	5	1,475.82	5	1,819.78	5	2,163.75	5	2,507.71	5	2,851.67	5	3,195.61
1/4	107.67	1/4	451.60	1/4	795.55	1/4	1,139.02	1/4	1,482.99	1/4	1,826.95	1/4	2,170.91	1/4	2,514.88	1/4	2,858.84	1/4	3,202.77
1/2	114.83	1/2	458.77	1/2	802.72	1/2	1,146.19	1/2	1,490.15	1/2	1,834.12	1/2	2,178.08	1/2	2,522.04	1/2	2,866.00	1/2	3,209.93
3/4	121.99	3/4	465.93	3/4	809.88	3/4	1,153.35	3/4	1,497.32	3/4	1,841.28	3/4	2,185.24	3/4	2,529.21	3/4	2,873.17	3/4	3,217.10
6	129.15	6	473.10	6	817.05	6	1,160.52	6	1,504.48	6	1,848.45	6	2,192.41	6	2,536.37	6	2,880.34	6	3,224.26
1/4	136.32	1/4	480.26	1/4	824.21	1/4	1,167.69	1/4	1,511.65	1/4	1,855.61	1/4	2,199.58	1/4	2,543.54	1/4	2,887.50	1/4	3,231.43
1/2	143.48	1/2	487.43	1/2	831.38	1/2	1,174.85	1/2	1,518.82	1/2	1,862.78	1/2	2,206.74	1/2	2,550.71	1/2	2,894.67	1/2	3,238.59
3/4	150.65	3/4	494.60	3/4	838.54	3/4	1,182.02	3/4	1,525.98	3/4	1,869.94	3/4	2,213.91	3/4	2,557.87	3/4	2,901.83	3/4	3,245.75
7	157.81	7	501.76	7	845.71	7	1,189.18	7	1,533.15	7	1,877.11	7	2,221.07	7	2,565.04	7	2,909.00	7	3,252.92
1/4	164.98	1/4	508.93	1/4	852.86	1/4	1,196.35	1/4	1,540.31	1/4	1,884.28	1/4	2,228.24	1/4	2,572.20	1/4	2,916.17	1/4	3,260.08
1/2	172.14	1/2	516.09	1/2	860.02	1/2	1,203.52	1/2	1,547.48	1/2	1,891.44	1/2	2,235.41	1/2	2,579.37	1/2	2,923.33	1/2	3,267.25
3/4	179.31	3/4	523.26	3/4	867.18	3/4	1,210.68	3/4	1,554.65	3/4	1,898.61	3/4	2,242.57	3/4	2,586.53	3/4	2,930.50	3/4	3,274.41
8	186.48	8	530.42	8	874.33	8	1,217.85	8	1,561.81	8	1,905.77	8	2,249.74	8	2,593.70	8	2,937.66	8	3,281.57
1/4	193.64	1/4	537.59	1/4	881.48	1/4	1,225.01	1/4	1,568.98	1/4	1,912.94	1/4	2,256.90	1/4	2,600.87	1/4	2,944.83	1/4	3,288.74
1/2	200.81	1/2	544.76	1/2	888.63	1/2	1,232.18	1/2	1,576.14	1/2	1,920.11	1/2	2,264.07	1/2	2,608.03	1/2	2,952.00	1/2	3,295.90
3/4	207.97	3/4	551.92	3/4	895.79	3/4	1,239.35	3/4	1,583.31	3/4	1,927.27	3/4	2,271.24	3/4	2,615.20	3/4	2,959.16	3/4	3,303.07
9	215.14	9	559.09	9	902.94	9	1,246.51	9	1,590.47	9	1,934.44	9	2,278.40	9	2,622.36	9	2,966.33	9	3,310.23
1/4	222.30	1/4	566.25	1/4	910.09	1/4	1,253.68	1/4	1,597.64	1/4	1,941.60	1/4	2,285.57	1/4	2,629.53	1/4	2,973.49	1/4	3,317.39
1/2	229.47	1/2	573.42	1/2	917.24	1/2	1,260.84	1/2	1,604.81	1/2	1,948.77	1/2	2,292.73	1/2	2,636.70	1/2	2,980.66	1/2	3,324.56
3/4	236.63	3/4	580.58	3/4	924.39	3/4	1,268.01	3/4	1,611.97	3/4	1,955.94	3/4	2,299.90	3/4	2,643.86	3/4	2,987.83	3/4	3,331.72
10	243.80	10	587.75	10	931.54	10	1,275.18	10	1,619.14	10	1,963.10	10	2,307.06	10	2,651.03	10	2,994.99	10	3,338.89
1/4	250.97	1/4	594.91	1/4	938.70	1/4	1,282.34	1/4	1,626.30	1/4	1,970.27	1/4	2,314.23	1/4	2,658.19	1/4	3,002.16	1/4	3,346.05
1/2	258.13	1/2	602.08	1/2	945.85	1/2	1,289.51	1/2	1,633.47	1/2	1,977.43	1/2	2,321.40	1/2	2,665.36	1/2	3,009.32	1/2	3,353.21
3/4	265.30	3/4	609.25	3/4	953.00	3/4	1,296.67	3/4	1,640.64	3/4	1,984.60	3/4	2,328.56	3/4	2,672.53	3/4	3,016.49	3/4	3,360.38
11	272.46	11	616.41	11	960.15	11	1,303.84	11	1,647.80	11	1,991.77	11	2,335.73	11	2,679.69	11	3,023.65	11	3,367.54
1/4	279.63	1/4	623.58	1/4	967.30	1/4	1,311.00	1/4	1,654.97	1/4	1,998.93	1/4	2,342.89	1/4	2,686.86	1/4	3,030.82	1/4	3,374.70
1/2	286.79	1/2	630.74	1/2	974.45	1/2	1,318.17	1/2	1,662.13	1/2	2,006.10	1/2	2,350.06	1/2	2,694.02	1/2	3,037.99	1/2	3,381.87
3/4	293.96	3/4	637.91	3/4	981.61	3/4	1,325.34	3/4	1,669.30	3/4	2,013.26	3/4	2,357.23	3/4	2,701.19	3/4	3,045.15	3/4	3,389.03

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-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 "HSM 3316"

formerly the
BARGE "FMT 3316"

2 STBD
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,396.20	0	3,740.08	0	4,084.04	0	4,427.55	0	4,769.94	0	5,092.13	0		0		0		0	
1/4	3,403.36	1/4	3,747.24	1/4	4,091.21	1/4	4,434.68	1/4	4,777.07	1/4	5,095.34	1/4		1/4		1/4		1/4	
1/2	3,410.52	1/2	3,754.41	1/2	4,098.37	1/2	4,441.81	1/2	4,784.21	1/2	5,098.54	1/2		1/2		1/2		1/2	
3/4	3,417.69	3/4	3,761.57	3/4	4,105.54	3/4	4,448.95	3/4	4,791.34	3/4	5,101.75	3/4		3/4		3/4		3/4	
1	3,424.85	1	3,768.74	1	4,112.70	1	4,456.08	1	4,798.47	1	5,104.96	1		1		1		1	
1/4	3,432.02	1/4	3,775.91	1/4	4,119.87	1/4	4,463.21	1/4	4,805.61	1/4	5,106.97	1/4		1/4		1/4		1/4	
1/2	3,439.18	1/2	3,783.07	1/2	4,127.04	1/2	4,470.35	1/2	4,812.74	1/2	5,108.98	1/2		1/2		1/2		1/2	
3/4	3,446.34	3/4	3,790.24	3/4	4,134.20	3/4	4,477.48	3/4	4,819.87	3/4	5,110.99	3/4		3/4		3/4		3/4	
2	3,453.51	2	3,797.40	2	4,141.37	2	4,484.61	2	4,827.01	2	5,113.00	2		2		2		2	
1/4	3,460.67	1/4	3,804.57	1/4	4,148.53	1/4	4,491.75	1/4	4,834.14	1/4	5,113.94	1/4		1/4		1/4		1/4	
1/2	3,467.84	1/2	3,811.74	1/2	4,155.70	1/2	4,498.88	1/2	4,841.27	1/2	5,114.87	1/2		1/2		1/2		1/2	
3/4	3,475.00	3/4	3,818.90	3/4	4,162.87	3/4	4,506.01	3/4	4,848.41	3/4	5,115.80	3/4		3/4		3/4		3/4	
3	3,482.16	3	3,826.07	3	4,170.03	3	4,513.15	3	4,855.54	3	5,116.73	3		3		3		3	
1/4	3,489.33	1/4	3,833.23	1/4	4,177.20	1/4	4,520.28	1/4	4,862.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,496.49	1/2	3,840.40	1/2	4,184.36	1/2	4,527.41	1/2	4,869.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,503.65	3/4	3,847.57	3/4	4,191.53	3/4	4,534.55	3/4	4,876.94	3/4		3/4		3/4		3/4		3/4	
4	3,510.82	4	3,854.73	4	4,198.69	4	4,541.68	4	4,884.07	4		4		4		4		4	
1/4	3,517.98	1/4	3,861.90	1/4	4,205.86	1/4	4,548.81	1/4	4,891.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,525.15	1/2	3,869.06	1/2	4,213.03	1/2	4,555.95	1/2	4,898.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,532.31	3/4	3,876.23	3/4	4,220.19	3/4	4,563.08	3/4	4,905.40	3/4		3/4		3/4		3/4		3/4	
5	3,539.47	5	3,883.40	5	4,227.36	5	4,570.21	5	4,912.51	5		5		5		5		5	
1/4	3,546.64	1/4	3,890.56	1/4	4,234.52	1/4	4,577.34	1/4	4,919.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,553.80	1/2	3,897.73	1/2	4,241.69	1/2	4,584.48	1/2	4,926.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,560.97	3/4	3,904.89	3/4	4,248.86	3/4	4,591.61	3/4	4,933.78	3/4		3/4		3/4		3/4		3/4	
6	3,568.13	6	3,912.06	6	4,256.02	6	4,598.74	6	4,940.87	6		6		6		6		6	
1/4	3,575.29	1/4	3,919.22	1/4	4,263.19	1/4	4,605.88	1/4	4,947.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,582.46	1/2	3,926.39	1/2	4,270.35	1/2	4,613.01	1/2	4,955.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.62	3/4	3,933.56	3/4	4,277.52	3/4	4,620.14	3/4	4,962.13	3/4		3/4		3/4		3/4		3/4	
7	3,596.79	7	3,940.72	7	4,284.69	7	4,627.28	7	4,969.22	7		7		7		7		7	
1/4	3,603.95	1/4	3,947.89	1/4	4,291.85	1/4	4,634.41	1/4	4,976.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,611.11	1/2	3,955.05	1/2	4,299.02	1/2	4,641.54	1/2	4,983.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,618.28	3/4	3,962.22	3/4	4,306.18	3/4	4,648.68	3/4	4,990.46	3/4		3/4		3/4		3/4		3/4	
8	3,625.44	8	3,969.39	8	4,313.35	8	4,655.81	8	4,997.54	8		8		8		8		8	
1/4	3,632.61	1/4	3,976.55	1/4	4,320.50	1/4	4,662.94	1/4	5,004.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.77	1/2	3,983.72	1/2	4,327.65	1/2	4,670.08	1/2	5,011.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.93	3/4	3,990.88	3/4	4,334.80	3/4	4,677.21	3/4	5,018.67	3/4		3/4		3/4		3/4		3/4	
9	3,654.10	9	3,998.05	9	4,341.95	9	4,684.34	9	5,025.72	9		9		9		9		9	
1/4	3,661.26	1/4	4,005.22	1/4	4,349.08	1/4	4,691.48	1/4	5,032.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.42	1/2	4,012.38	1/2	4,356.22	1/2	4,698.61	1/2	5,038.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.59	3/4	4,019.55	3/4	4,363.35	3/4	4,705.74	3/4	5,045.54	3/4		3/4		3/4		3/4		3/4	
10	3,682.75	10	4,026.71	10	4,370.48	10	4,712.88	10	5,052.14	10		10		10		10		10	
1/4	3,689.92	1/4	4,033.88	1/4	4,377.62	1/4	4,720.01	1/4	5,057.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,697.08	1/2	4,041.04	1/2	4,384.75	1/2	4,727.14	1/2	5,063.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,704.25	3/4	4,048.21	3/4	4,391.88	3/4	4,734.28	3/4	5,068.93	3/4		3/4		3/4		3/4		3/4	
11	3,711.41	11	4,055.38	11	4,399.01	11	4,741.41	11	5,074.53	11		11		11		11		11	
1/4	3,718.58	1/4	4,062.54	1/4	4,406.15	1/4	4,748.54	1/4	5,078.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,725.75	1/2	4,069.71	1/2	4,413.28	1/2	4,755.67	1/2	5,083.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,732.91	3/4	4,076.87	3/4	4,420.41	3/4	4,762.81	3/4	5,087.73	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/05/2020 CL
CALCULATED: 08/06/2020 CL
PRINTED: 08/06/2020 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020





BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

3 PORT INNAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.15	0	299.43	0	641.01	0	974.74	0	1,309.69	0	1,651.09	0	1,992.49	0	2,333.89	0	2,675.26	0	3,016.78
1/4	3.93	1/4	306.56	1/4	648.13	1/4	981.55	1/4	1,316.80	1/4	1,658.20	1/4	1,999.60	1/4	2,341.00	1/4	2,682.37	1/4	3,023.89
1/2	5.71	1/2	313.68	1/2	655.24	1/2	988.35	1/2	1,323.91	1/2	1,665.31	1/2	2,006.71	1/2	2,348.11	1/2	2,689.48	1/2	3,031.01
3/4	7.49	3/4	320.81	3/4	662.35	3/4	995.15	3/4	1,331.02	3/4	1,672.42	3/4	2,013.82	3/4	2,355.22	3/4	2,696.59	3/4	3,038.13
1	9.27	1	327.94	1	669.47	1	1,001.96	1	1,338.14	1	1,679.54	1	2,020.94	1	2,362.34	1	2,703.70	1	3,045.24
1/4	12.84	1/4	335.06	1/4	676.58	1/4	1,008.76	1/4	1,345.25	1/4	1,686.65	1/4	2,028.05	1/4	2,369.45	1/4	2,710.82	1/4	3,052.35
1/2	16.40	1/2	342.19	1/2	683.70	1/2	1,015.56	1/2	1,352.36	1/2	1,693.76	1/2	2,035.16	1/2	2,376.56	1/2	2,717.93	1/2	3,059.46
3/4	19.96	3/4	349.31	3/4	690.81	3/4	1,022.37	3/4	1,359.47	3/4	1,700.87	3/4	2,042.27	3/4	2,383.67	3/4	2,725.04	3/4	3,066.56
2	23.52	2	356.44	2	697.92	2	1,029.17	2	1,366.59	2	1,707.99	2	2,049.39	2	2,390.79	2	2,732.15	2	3,073.67
1/4	28.87	1/4	363.56	1/4	705.04	1/4	1,035.97	1/4	1,373.70	1/4	1,715.10	1/4	2,056.50	1/4	2,397.90	1/4	2,739.26	1/4	3,080.78
1/2	34.21	1/2	370.68	1/2	712.15	1/2	1,042.78	1/2	1,380.81	1/2	1,722.21	1/2	2,063.61	1/2	2,405.01	1/2	2,746.37	1/2	3,087.89
3/4	39.55	3/4	377.80	3/4	719.26	3/4	1,049.58	3/4	1,387.92	3/4	1,729.32	3/4	2,070.72	3/4	2,412.12	3/4	2,753.49	3/4	3,094.99
3	44.90	3	384.92	3	726.38	3	1,056.38	3	1,395.04	3	1,736.44	3	2,077.84	3	2,419.24	3	2,760.60	3	3,102.10
1/4	51.56	1/4	392.03	1/4	733.49	1/4	1,063.19	1/4	1,402.15	1/4	1,743.55	1/4	2,084.95	1/4	2,426.35	1/4	2,767.71	1/4	3,109.20
1/2	58.22	1/2	399.14	1/2	740.61	1/2	1,070.00	1/2	1,409.26	1/2	1,750.66	1/2	2,092.06	1/2	2,433.46	1/2	2,774.82	1/2	3,116.30
3/4	64.88	3/4	406.26	3/4	747.72	3/4	1,076.81	3/4	1,416.37	3/4	1,757.77	3/4	2,099.17	3/4	2,440.57	3/4	2,781.93	3/4	3,123.40
4	71.54	4	413.37	4	754.83	4	1,083.61	4	1,423.49	4	1,764.89	4	2,106.29	4	2,447.69	4	2,789.04	4	3,130.50
1/4	78.64	1/4	420.48	1/4	761.95	1/4	1,090.46	1/4	1,430.60	1/4	1,772.00	1/4	2,113.40	1/4	2,454.80	1/4	2,796.15	1/4	3,137.59
1/2	85.75	1/2	427.60	1/2	769.06	1/2	1,097.31	1/2	1,437.71	1/2	1,779.11	1/2	2,120.51	1/2	2,461.91	1/2	2,803.27	1/2	3,144.68
3/4	92.85	3/4	434.71	3/4	776.17	3/4	1,104.15	3/4	1,444.82	3/4	1,786.22	3/4	2,127.62	3/4	2,469.02	3/4	2,810.38	3/4	3,151.77
5	99.95	5	441.83	5	783.29	5	1,111.00	5	1,451.94	5	1,793.34	5	2,134.74	5	2,476.14	5	2,817.49	5	3,158.86
1/4	107.07	1/4	448.94	1/4	790.29	1/4	1,117.99	1/4	1,459.05	1/4	1,800.45	1/4	2,141.85	1/4	2,483.25	1/4	2,824.60	1/4	3,165.95
1/2	114.19	1/2	456.05	1/2	797.28	1/2	1,124.99	1/2	1,466.16	1/2	1,807.56	1/2	2,148.96	1/2	2,490.36	1/2	2,831.71	1/2	3,173.04
3/4	121.31	3/4	463.17	3/4	804.28	3/4	1,131.99	3/4	1,473.27	3/4	1,814.67	3/4	2,156.07	3/4	2,497.47	3/4	2,838.82	3/4	3,180.13
6	128.43	6	470.28	6	811.28	6	1,138.99	6	1,480.39	6	1,821.79	6	2,163.19	6	2,504.58	6	2,845.94	6	3,187.22
1/4	135.55	1/4	477.39	1/4	818.13	1/4	1,146.10	1/4	1,487.50	1/4	1,828.90	1/4	2,170.30	1/4	2,511.69	1/4	2,853.05	1/4	3,194.31
1/2	142.68	1/2	484.51	1/2	824.97	1/2	1,153.21	1/2	1,494.61	1/2	1,836.01	1/2	2,177.41	1/2	2,518.80	1/2	2,860.16	1/2	3,201.40
3/4	149.80	3/4	491.62	3/4	831.82	3/4	1,160.32	3/4	1,501.72	3/4	1,843.12	3/4	2,184.52	3/4	2,525.91	3/4	2,867.27	3/4	3,208.49
7	156.93	7	498.74	7	838.67	7	1,167.44	7	1,508.84	7	1,850.24	7	2,191.64	7	2,533.03	7	2,874.38	7	3,215.58
1/4	164.05	1/4	505.85	1/4	845.47	1/4	1,174.55	1/4	1,515.95	1/4	1,857.35	1/4	2,198.75	1/4	2,540.14	1/4	2,881.49	1/4	3,222.67
1/2	171.18	1/2	512.96	1/2	852.28	1/2	1,181.66	1/2	1,523.06	1/2	1,864.46	1/2	2,205.86	1/2	2,547.25	1/2	2,888.61	1/2	3,229.76
3/4	178.30	3/4	520.08	3/4	859.09	3/4	1,188.77	3/4	1,530.17	3/4	1,871.57	3/4	2,212.97	3/4	2,554.36	3/4	2,895.72	3/4	3,236.85
8	185.43	8	527.19	8	865.89	8	1,195.89	8	1,537.29	8	1,878.69	8	2,220.09	8	2,561.47	8	2,902.83	8	3,243.94
1/4	192.55	1/4	534.31	1/4	872.70	1/4	1,203.00	1/4	1,544.40	1/4	1,885.80	1/4	2,227.20	1/4	2,568.58	1/4	2,909.95	1/4	3,251.03
1/2	199.68	1/2	541.42	1/2	879.50	1/2	1,210.11	1/2	1,551.51	1/2	1,892.91	1/2	2,234.31	1/2	2,575.70	1/2	2,917.06	1/2	3,258.12
3/4	206.80	3/4	548.53	3/4	886.30	3/4	1,217.22	3/4	1,558.62	3/4	1,900.02	3/4	2,241.42	3/4	2,582.81	3/4	2,924.18	3/4	3,265.21
9	213.93	9	555.65	9	893.11	9	1,224.34	9	1,565.74	9	1,907.14	9	2,248.54	9	2,589.92	9	2,931.30	9	3,272.30
1/4	221.05	1/4	562.76	1/4	899.91	1/4	1,231.45	1/4	1,572.85	1/4	1,914.25	1/4	2,255.65	1/4	2,597.03	1/4	2,938.42	1/4	3,279.40
1/2	228.18	1/2	569.87	1/2	906.71	1/2	1,238.56	1/2	1,579.96	1/2	1,921.36	1/2	2,262.76	1/2	2,604.14	1/2	2,945.55	1/2	3,286.49
3/4	235.31	3/4	576.99	3/4	913.52	3/4	1,245.67	3/4	1,587.07	3/4	1,928.47	3/4	2,269.87	3/4	2,611.25	3/4	2,952.67	3/4	3,293.58
10	242.43	10	584.10	10	920.32	10	1,252.79	10	1,594.19	10	1,935.59	10	2,276.99	10	2,618.36	10	2,959.79	10	3,300.67
1/4	249.56	1/4	591.22	1/4	927.12	1/4	1,259.90	1/4	1,601.30	1/4	1,942.70	1/4	2,284.10	1/4	2,625.48	1/4	2,966.92	1/4	3,307.76
1/2	256.68	1/2	598.33	1/2	933.92	1/2	1,267.01	1/2	1,608.41	1/2	1,949.81	1/2	2,291.21	1/2	2,632.59	1/2	2,974.04	1/2	3,314.85
3/4	263.81	3/4	605.44	3/4	940.73	3/4	1,274.12	3/4	1,615.52	3/4	1,956.92	3/4	2,298.32	3/4	2,639.70	3/4	2,981.16	3/4	3,321.95
11	270.93	11	612.56	11	947.53	11	1,281.24	11	1,622.64	11	1,964.04	11	2,305.44	11	2,646.81	11	2,988.29	11	3,329.04
1/4	278.06	1/4	619.67	1/4	954.33	1/4	1,288.35	1/4	1,629.75	1/4	1,971.15	1/4	2,312.55	1/4	2,653.92	1/4	2,995.41	1/4	3,336.15
1/2	285.18	1/2	626.78	1/2	961.14	1/2	1,295.46	1/2	1,636.86	1/2	1,978.26	1/2	2,319.66	1/2	2,661.03	1/2	3,002.53	1/2	3,343.25
3/4	292.31	3/4	633.90	3/4	967.94	3/4	1,302.57	3/4	1,643.97	3/4	1,985.37	3/4	2,326.77	3/4	2,668.15	3/4	3,009.66	3/4	3,350.35

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3316"

formerly the
BARGE "FMT 3316"

**3 PORT
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,351.89	0	3,560.73	0	3,770.34	0	3,979.68	0	4,188.37	0	4,378.79	0		0		0		0	
1/4	3,356.22	1/4	3,565.09	1/4	3,774.70	1/4	3,984.03	1/4	4,192.72	1/4	4,380.50	1/4		1/4	1/4	1/4		1/4	
1/2	3,360.55	1/2	3,569.46	1/2	3,779.07	1/2	3,988.37	1/2	4,197.07	1/2	4,382.21	1/2		1/2	1/2	1/2		1/2	
3/4	3,364.89	3/4	3,573.83	3/4	3,783.44	3/4	3,992.72	3/4	4,201.42	3/4	4,383.91	3/4		3/4	3/4	3/4		3/4	
1	3,369.22	1	3,578.19	1	3,787.80	1	3,997.07	1	4,205.76	1	4,385.62	1		1		1		1	
1/4	3,373.56	1/4	3,582.56	1/4	3,792.17	1/4	4,001.42	1/4	4,210.11	1/4	4,387.32	1/4		1/4	1/4	1/4		1/4	
1/2	3,377.90	1/2	3,586.93	1/2	3,796.54	1/2	4,005.77	1/2	4,214.46	1/2	4,389.03	1/2		1/2	1/2	1/2		1/2	
3/4	3,382.24	3/4	3,591.29	3/4	3,800.91	3/4	4,010.11	3/4	4,218.81	3/4	4,390.74	3/4		3/4	3/4	3/4		3/4	
2	3,386.59	2	3,595.66	2	3,805.27	2	4,014.46	2	4,223.16	2	4,392.44	2		2		2		2	
1/4	3,390.94	1/4	3,600.03	1/4	3,809.64	1/4	4,018.81	1/4	4,227.50	1/4	4,393.52	1/4		1/4	1/4	1/4		1/4	
1/2	3,395.29	1/2	3,604.39	1/2	3,814.01	1/2	4,023.16	1/2	4,231.85	1/2	4,394.59	1/2		1/2	1/2	1/2		1/2	
3/4	3,399.64	3/4	3,608.76	3/4	3,818.37	3/4	4,027.50	3/4	4,236.20	3/4	4,395.67	3/4		3/4	3/4	3/4		3/4	
3	3,403.99	3	3,613.13	3	3,822.74	3	4,031.85	3	4,240.55	3	4,396.74	3		3		3		3	
1/4	3,408.34	1/4	3,617.50	1/4	3,827.11	1/4	4,036.20	1/4	4,244.89	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,412.69	1/2	3,621.86	1/2	3,831.47	1/2	4,040.55	1/2	4,249.24	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,417.04	3/4	3,626.23	3/4	3,835.84	3/4	4,044.90	3/4	4,253.59	3/4		3/4		3/4	3/4	3/4		3/4	
4	3,421.40	4	3,630.60	4	3,840.21	4	4,049.24	4	4,257.94	4		4		4		4		4	
1/4	3,425.75	1/4	3,634.96	1/4	3,844.57	1/4	4,053.59	1/4	4,262.27	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,430.10	1/2	3,639.33	1/2	3,848.94	1/2	4,057.94	1/2	4,266.61	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,434.45	3/4	3,643.70	3/4	3,853.31	3/4	4,062.29	3/4	4,270.94	3/4		3/4		3/4	3/4	3/4		3/4	
5	3,438.80	5	3,648.06	5	3,857.68	5	4,066.63	5	4,275.27	5		5		5		5		5	
1/4	3,443.15	1/4	3,652.43	1/4	3,862.04	1/4	4,070.98	1/4	4,279.59	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,447.50	1/2	3,656.80	1/2	3,866.41	1/2	4,075.33	1/2	4,283.92	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,451.85	3/4	3,661.16	3/4	3,870.78	3/4	4,079.68	3/4	4,288.24	3/4		3/4		3/4	3/4	3/4		3/4	
6	3,456.20	6	3,665.53	6	3,875.14	6	4,084.03	6	4,292.56	6		6		6		6		6	
1/4	3,460.56	1/4	3,669.90	1/4	3,879.51	1/4	4,088.37	1/4	4,296.87	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,464.91	1/2	3,674.27	1/2	3,883.88	1/2	4,092.72	1/2	4,301.19	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,469.26	3/4	3,678.63	3/4	3,888.24	3/4	4,097.07	3/4	4,305.51	3/4		3/4		3/4	3/4	3/4		3/4	
7	3,473.61	7	3,683.00	7	3,892.61	7	4,101.42	7	4,309.83	7		7		7		7		7	
1/4	3,477.96	1/4	3,687.37	1/4	3,896.98	1/4	4,105.76	1/4	4,314.14	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,482.31	1/2	3,691.73	1/2	3,901.34	1/2	4,110.11	1/2	4,318.45	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,486.66	3/4	3,696.10	3/4	3,905.71	3/4	4,114.46	3/4	4,322.76	3/4		3/4		3/4	3/4	3/4		3/4	
8	3,491.01	8	3,700.47	8	3,910.08	8	4,118.81	8	4,327.08	8		8		8		8		8	
1/4	3,495.36	1/4	3,704.83	1/4	3,914.43	1/4	4,123.16	1/4	4,331.36	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,499.71	1/2	3,709.20	1/2	3,918.79	1/2	4,127.50	1/2	4,335.63	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,504.07	3/4	3,713.57	3/4	3,923.15	3/4	4,131.85	3/4	4,339.91	3/4		3/4		3/4	3/4	3/4		3/4	
9	3,508.42	9	3,717.93	9	3,927.51	9	4,136.20	9	4,344.19	9		9		9		9		9	
1/4	3,512.77	1/4	3,722.30	1/4	3,931.85	1/4	4,140.55	1/4	4,348.03	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,517.12	1/2	3,726.67	1/2	3,936.20	1/2	4,144.90	1/2	4,351.87	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,521.47	3/4	3,731.04	3/4	3,940.55	3/4	4,149.24	3/4	4,355.71	3/4		3/4		3/4	3/4	3/4		3/4	
10	3,525.82	10	3,735.40	10	3,944.90	10	4,153.59	10	4,359.55	10		10		10		10		10	
1/4	3,530.18	1/4	3,739.77	1/4	3,949.24	1/4	4,157.94	1/4	4,362.39	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,534.54	1/2	3,744.14	1/2	3,953.59	1/2	4,162.29	1/2	4,365.23	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,538.90	3/4	3,748.50	3/4	3,957.94	3/4	4,166.63	3/4	4,368.06	3/4		3/4		3/4	3/4	3/4		3/4	
11	3,543.26	11	3,752.87	11	3,962.29	11	4,170.98	11	4,370.90	11		11		11		11		11	
1/4	3,547.63	1/4	3,757.24	1/4	3,966.64	1/4	4,175.33	1/4	4,372.87	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,551.99	1/2	3,761.60	1/2	3,970.98	1/2	4,179.68	1/2	4,374.85	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,556.36	3/4	3,765.97	3/4	3,975.33	3/4	4,184.03	3/4	4,376.82	3/4		3/4		3/4	3/4	3/4		3/4	

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GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2.15	0	299.99	0	642.65	0	985.03	0	1,327.47	0	1,670.14	0	2,012.81	0	2,355.47	0	2,697.97	0	3,039.76
1/4	3.94	1/4	307.13	1/4	649.79	1/4	992.15	1/4	1,334.61	1/4	1,677.28	1/4	2,019.95	1/4	2,362.61	1/4	2,705.09	1/4	3,046.88
1/2	5.72	1/2	314.27	1/2	656.93	1/2	999.28	1/2	1,341.75	1/2	1,684.42	1/2	2,027.09	1/2	2,369.75	1/2	2,712.21	1/2	3,054.00
3/4	7.50	3/4	321.41	3/4	664.07	3/4	1,006.40	3/4	1,348.89	3/4	1,691.56	3/4	2,034.22	3/4	2,376.89	3/4	2,719.33	3/4	3,061.12
1	9.29	1	328.55	1	671.20	1	1,013.53	1	1,356.03	1	1,698.70	1	2,041.36	1	2,384.03	1	2,726.45	1	3,068.24
1/4	12.86	1/4	335.68	1/4	678.34	1/4	1,020.65	1/4	1,363.17	1/4	1,705.83	1/4	2,048.50	1/4	2,391.17	1/4	2,733.57	1/4	3,075.36
1/2	16.43	1/2	342.82	1/2	685.48	1/2	1,027.78	1/2	1,370.31	1/2	1,712.97	1/2	2,055.64	1/2	2,398.31	1/2	2,740.69	1/2	3,082.48
3/4	20.00	3/4	349.96	3/4	692.62	3/4	1,034.90	3/4	1,377.45	3/4	1,720.11	3/4	2,062.78	3/4	2,405.45	3/4	2,747.81	3/4	3,089.60
2	23.57	2	357.10	2	699.76	2	1,042.03	2	1,384.58	2	1,727.25	2	2,069.92	2	2,412.59	2	2,754.93	2	3,096.72
1/4	28.92	1/4	364.24	1/4	706.90	1/4	1,049.15	1/4	1,391.72	1/4	1,734.39	1/4	2,077.06	1/4	2,419.72	1/4	2,762.05	1/4	3,103.84
1/2	34.27	1/2	371.38	1/2	714.04	1/2	1,056.28	1/2	1,398.86	1/2	1,741.53	1/2	2,084.20	1/2	2,426.86	1/2	2,769.17	1/2	3,110.96
3/4	39.63	3/4	378.52	3/4	721.17	3/4	1,063.40	3/4	1,406.00	3/4	1,748.67	3/4	2,091.34	3/4	2,434.00	3/4	2,776.29	3/4	3,118.08
3	44.98	3	385.66	3	728.31	3	1,070.53	3	1,413.14	3	1,755.81	3	2,098.47	3	2,441.14	3	2,783.41	3	3,125.20
1/4	51.65	1/4	392.79	1/4	735.45	1/4	1,077.65	1/4	1,420.28	1/4	1,762.95	1/4	2,105.61	1/4	2,448.28	1/4	2,790.54	1/4	3,132.32
1/2	58.33	1/2	399.93	1/2	742.59	1/2	1,084.78	1/2	1,427.42	1/2	1,770.08	1/2	2,112.75	1/2	2,455.42	1/2	2,797.66	1/2	3,139.43
3/4	65.00	3/4	407.07	3/4	749.73	3/4	1,091.91	3/4	1,434.56	3/4	1,777.22	3/4	2,119.89	3/4	2,462.56	3/4	2,804.78	3/4	3,146.54
4	71.67	4	414.21	4	756.87	4	1,099.04	4	1,441.70	4	1,784.36	4	2,127.03	4	2,469.70	4	2,811.90	4	3,153.65
1/4	78.79	1/4	421.35	1/4	764.01	1/4	1,106.18	1/4	1,448.83	1/4	1,791.50	1/4	2,134.17	1/4	2,476.84	1/4	2,819.02	1/4	3,160.76
1/2	85.90	1/2	428.49	1/2	771.15	1/2	1,113.31	1/2	1,455.97	1/2	1,798.64	1/2	2,141.31	1/2	2,483.97	1/2	2,826.14	1/2	3,167.86
3/4	93.02	3/4	435.63	3/4	778.28	3/4	1,120.45	3/4	1,463.11	3/4	1,805.78	3/4	2,148.45	3/4	2,491.11	3/4	2,833.26	3/4	3,174.96
5	100.13	5	442.77	5	785.42	5	1,127.58	5	1,470.25	5	1,812.92	5	2,155.59	5	2,498.25	5	2,840.38	5	3,182.07
1/4	107.27	1/4	449.90	1/4	792.56	1/4	1,134.72	1/4	1,477.39	1/4	1,820.06	1/4	2,162.72	1/4	2,505.39	1/4	2,847.50	1/4	3,189.17
1/2	114.40	1/2	457.04	1/2	799.70	1/2	1,141.86	1/2	1,484.53	1/2	1,827.20	1/2	2,169.86	1/2	2,512.53	1/2	2,854.62	1/2	3,196.27
3/4	121.53	3/4	464.18	3/4	806.84	3/4	1,149.00	3/4	1,491.67	3/4	1,834.33	3/4	2,177.00	3/4	2,519.67	3/4	2,861.74	3/4	3,203.38
6	128.67	6	471.32	6	813.98	6	1,156.14	6	1,498.81	6	1,841.47	6	2,184.14	6	2,526.81	6	2,868.86	6	3,210.48
1/4	135.80	1/4	478.46	1/4	821.11	1/4	1,163.28	1/4	1,505.95	1/4	1,848.61	1/4	2,191.28	1/4	2,533.95	1/4	2,875.98	1/4	3,217.58
1/2	142.94	1/2	485.60	1/2	828.25	1/2	1,170.42	1/2	1,513.08	1/2	1,855.75	1/2	2,198.42	1/2	2,541.08	1/2	2,883.10	1/2	3,224.69
3/4	150.08	3/4	492.74	3/4	835.38	3/4	1,177.56	3/4	1,520.22	3/4	1,862.89	3/4	2,205.56	3/4	2,548.22	3/4	2,890.22	3/4	3,231.79
7	157.22	7	499.87	7	842.52	7	1,184.70	7	1,527.36	7	1,870.03	7	2,212.70	7	2,555.36	7	2,897.34	7	3,238.89
1/4	164.36	1/4	507.01	1/4	849.64	1/4	1,191.83	1/4	1,534.50	1/4	1,877.17	1/4	2,219.84	1/4	2,562.50	1/4	2,904.46	1/4	3,246.00
1/2	171.49	1/2	514.15	1/2	856.77	1/2	1,198.97	1/2	1,541.64	1/2	1,884.31	1/2	2,226.97	1/2	2,569.64	1/2	2,911.59	1/2	3,253.10
3/4	178.63	3/4	521.29	3/4	863.90	3/4	1,206.11	3/4	1,548.78	3/4	1,891.45	3/4	2,234.11	3/4	2,576.78	3/4	2,918.71	3/4	3,260.20
8	185.77	8	528.43	8	871.03	8	1,213.25	8	1,555.92	8	1,898.58	8	2,241.25	8	2,583.92	8	2,925.83	8	3,267.31
1/4	192.91	1/4	535.57	1/4	878.16	1/4	1,220.39	1/4	1,563.06	1/4	1,905.72	1/4	2,248.39	1/4	2,591.06	1/4	2,932.95	1/4	3,274.41
1/2	200.05	1/2	542.71	1/2	885.28	1/2	1,227.53	1/2	1,570.20	1/2	1,912.86	1/2	2,255.53	1/2	2,598.20	1/2	2,940.07	1/2	3,281.51
3/4	207.19	3/4	549.85	3/4	892.41	3/4	1,234.67	3/4	1,577.33	3/4	1,920.00	3/4	2,262.67	3/4	2,605.34	3/4	2,947.19	3/4	3,288.62
9	214.33	9	556.98	9	899.53	9	1,241.81	9	1,584.47	9	1,927.14	9	2,269.81	9	2,612.48	9	2,954.31	9	3,295.72
1/4	221.47	1/4	564.12	1/4	906.65	1/4	1,248.95	1/4	1,591.61	1/4	1,934.28	1/4	2,276.95	1/4	2,619.61	1/4	2,961.43	1/4	3,302.82
1/2	228.60	1/2	571.26	1/2	913.78	1/2	1,256.08	1/2	1,598.75	1/2	1,941.42	1/2	2,284.09	1/2	2,626.74	1/2	2,968.55	1/2	3,309.93
3/4	235.74	3/4	578.40	3/4	920.90	3/4	1,263.22	3/4	1,605.89	3/4	1,948.56	3/4	2,291.22	3/4	2,633.87	3/4	2,975.67	3/4	3,317.03
10	242.88	10	585.54	10	928.03	10	1,270.36	10	1,613.03	10	1,955.70	10	2,298.36	10	2,641.00	10	2,982.79	10	3,324.13
1/4	250.02	1/4	592.68	1/4	935.15	1/4	1,277.50	1/4	1,620.17	1/4	1,962.84	1/4	2,305.50	1/4	2,648.12	1/4	2,989.91	1/4	3,331.24
1/2	257.16	1/2	599.82	1/2	942.28	1/2	1,284.64	1/2	1,627.31	1/2	1,969.97	1/2	2,312.64	1/2	2,655.24	1/2	2,997.03	1/2	3,338.34
3/4	264.30	3/4	606.96	3/4	949.40	3/4	1,291.78	3/4	1,634.45	3/4	1,977.11	3/4	2,319.78	3/4	2,662.36	3/4	3,004.15	3/4	3,345.44
11	271.44	11	614.09	11	956.53	11	1,298.92	11	1,641.58	11	1,984.25	11	2,326.92	11	2,669.48	11	3,011.27	11	3,352.55
1/4	278.58	1/4	621.23	1/4	963.65	1/4	1,306.06	1/4	1,648.72	1/4	1,991.39	1/4	2,334.06	1/4	2,676.61	1/4	3,018.39	1/4	3,359.65
1/2	285.71	1/2	628.37	1/2	970.78	1/2	1,313.20	1/2	1,655.86	1/2	1,998.53	1/2	2,341.20	1/2	2,683.73	1/2	3,025.51	1/2	3,366.75
3/4	292.85	3/4	635.51	3/4	977.90	3/4	1,320.33	3/4	1,663.00	3/4	2,005.67	3/4	2,348.34	3/4	2,690.85	3/4	3,032.64	3/4	3,373.85

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" 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 "HSM 3316"
formerly the
BARGE "FMT 3316"

3 STBD
INNAGE TABLE
10" HATCH
GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	3,375.44	0	3,585.38	0	3,795.53	0	4,005.41	0	4,214.65	0	4,405.57	0		0		0		0	
1/4	3,379.78	1/4	3,589.76	1/4	3,799.91	1/4	4,009.77	1/4	4,219.01	1/4	4,407.28	1/4		1/4	1/4	1/4		1/4	
1/2	3,384.12	1/2	3,594.13	1/2	3,804.29	1/2	4,014.13	1/2	4,223.37	1/2	4,408.99	1/2		1/2	1/2	1/2		1/2	
3/4	3,388.47	3/4	3,598.51	3/4	3,808.67	3/4	4,018.49	3/4	4,227.73	3/4	4,410.70	3/4		3/4	3/4	3/4		3/4	
1	3,392.81	1	3,602.89	1	3,813.04	1	4,022.85	1	4,232.09	1	4,412.42	1		1		1		1	
1/4	3,397.17	1/4	3,607.27	1/4	3,817.42	1/4	4,027.21	1/4	4,236.45	1/4	4,414.13	1/4		1/4	1/4	1/4		1/4	
1/2	3,401.53	1/2	3,611.65	1/2	3,821.80	1/2	4,031.57	1/2	4,240.81	1/2	4,415.84	1/2		1/2	1/2	1/2		1/2	
3/4	3,405.89	3/4	3,616.03	3/4	3,826.18	3/4	4,035.93	3/4	4,245.16	3/4	4,417.55	3/4		3/4	3/4	3/4		3/4	
2	3,410.25	2	3,620.40	2	3,830.56	2	4,040.29	2	4,249.52	2	4,419.26	2		2		2		2	
1/4	3,414.63	1/4	3,624.78	1/4	3,834.94	1/4	4,044.65	1/4	4,253.88	1/4	4,420.33	1/4		1/4	1/4	1/4		1/4	
1/2	3,419.01	1/2	3,629.16	1/2	3,839.31	1/2	4,049.01	1/2	4,258.24	1/2	4,421.41	1/2		1/2	1/2	1/2		1/2	
3/4	3,423.38	3/4	3,633.54	3/4	3,843.69	3/4	4,053.36	3/4	4,262.60	3/4	4,422.49	3/4		3/4	3/4	3/4		3/4	
3	3,427.76	3	3,637.92	3	3,848.07	3	4,057.72	3	4,266.96	3	4,423.57	3		3		3		3	
1/4	3,432.14	1/4	3,642.29	1/4	3,852.45	1/4	4,062.08	1/4	4,271.32	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,436.52	1/2	3,646.67	1/2	3,856.83	1/2	4,066.44	1/2	4,275.68	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,440.90	3/4	3,651.05	3/4	3,861.20	3/4	4,070.80	3/4	4,280.04	3/4		3/4		3/4	3/4	3/4		3/4	
4	3,445.28	4	3,655.43	4	3,865.58	4	4,075.16	4	4,284.40	4		4		4		4		4	
1/4	3,449.65	1/4	3,659.81	1/4	3,869.96	1/4	4,079.52	1/4	4,288.74	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,454.03	1/2	3,664.19	1/2	3,874.34	1/2	4,083.88	1/2	4,293.09	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,458.41	3/4	3,668.56	3/4	3,878.72	3/4	4,088.24	3/4	4,297.43	3/4		3/4		3/4	3/4	3/4		3/4	
5	3,462.79	5	3,672.94	5	3,883.10	5	4,092.60	5	4,301.78	5		5		5		5		5	
1/4	3,467.17	1/4	3,677.32	1/4	3,887.47	1/4	4,096.96	1/4	4,306.11	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,471.54	1/2	3,681.70	1/2	3,891.85	1/2	4,101.31	1/2	4,310.44	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,475.92	3/4	3,686.08	3/4	3,896.23	3/4	4,105.67	3/4	4,314.77	3/4		3/4		3/4	3/4	3/4		3/4	
6	3,480.30	6	3,690.45	6	3,900.61	6	4,110.03	6	4,319.10	6		6		6		6		6	
1/4	3,484.68	1/4	3,694.83	1/4	3,904.99	1/4	4,114.39	1/4	4,323.43	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,489.06	1/2	3,699.21	1/2	3,909.36	1/2	4,118.75	1/2	4,327.76	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,493.44	3/4	3,703.59	3/4	3,913.74	3/4	4,123.11	3/4	4,332.09	3/4		3/4		3/4	3/4	3/4		3/4	
7	3,497.81	7	3,707.97	7	3,918.12	7	4,127.47	7	4,336.42	7		7		7		7		7	
1/4	3,502.19	1/4	3,712.35	1/4	3,922.50	1/4	4,131.83	1/4	4,340.74	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,506.57	1/2	3,716.72	1/2	3,926.88	1/2	4,136.19	1/2	4,345.07	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,510.95	3/4	3,721.10	3/4	3,931.26	3/4	4,140.55	3/4	4,349.39	3/4		3/4		3/4	3/4	3/4		3/4	
8	3,515.33	8	3,725.48	8	3,935.63	8	4,144.91	8	4,353.71	8		8		8		8		8	
1/4	3,519.70	1/4	3,729.86	1/4	3,940.00	1/4	4,149.26	1/4	4,358.00	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,524.08	1/2	3,734.24	1/2	3,944.37	1/2	4,153.62	1/2	4,362.29	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,528.46	3/4	3,738.61	3/4	3,948.74	3/4	4,157.98	3/4	4,366.58	3/4		3/4		3/4	3/4	3/4		3/4	
9	3,532.84	9	3,742.99	9	3,953.11	9	4,162.34	9	4,370.87	9		9		9		9		9	
1/4	3,537.22	1/4	3,747.37	1/4	3,957.46	1/4	4,166.70	1/4	4,374.72	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,541.60	1/2	3,751.75	1/2	3,961.82	1/2	4,171.06	1/2	4,378.57	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,545.97	3/4	3,756.13	3/4	3,966.18	3/4	4,175.42	3/4	4,382.43	3/4		3/4		3/4	3/4	3/4		3/4	
10	3,550.35	10	3,760.51	10	3,970.54	10	4,179.78	10	4,386.28	10		10		10		10		10	
1/4	3,554.73	1/4	3,764.88	1/4	3,974.90	1/4	4,184.14	1/4	4,389.12	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,559.11	1/2	3,769.26	1/2	3,979.26	1/2	4,188.50	1/2	4,391.97	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,563.49	3/4	3,773.64	3/4	3,983.62	3/4	4,192.86	3/4	4,394.81	3/4		3/4		3/4	3/4	3/4		3/4	
11	3,567.87	11	3,778.02	11	3,987.98	11	4,197.21	11	4,397.65	11		11		11		11		11	
1/4	3,572.24	1/4	3,782.40	1/4	3,992.34	1/4	4,201.57	1/4	4,399.63	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	3,576.62	1/2	3,786.78	1/2	3,996.70	1/2	4,205.93	1/2	4,401.61	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	3,581.00	3/4	3,791.15	3/4	4,001.06	3/4	4,210.29	3/4	4,403.59	3/4		3/4		3/4	3/4	3/4		3/4	

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STRAPPED: 08/05/2020 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2020