

BARGE "IB 1990"

INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

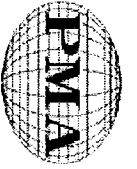
THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 CENTER IS 00-1/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED INNAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 182'-09"

December 14, 2017

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

<http://www.pmacorp.net>



BARGE "IB 1990"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-03 1/2"

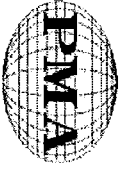
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.63	0	242.17	0	527.80	0	809.62	0	1,092.61	0	1,378.08	0	1,663.13	0	1,948.75	0	2,234.36	0	2,519.96
1/4	1.62	1/4	248.12	1/4	533.75	1/4	815.41	1/4	1,098.55	1/4	1,384.01	1/4	1,669.08	1/4	1,954.70	1/4	2,240.31	1/4	2,525.91
1/2	2.62	1/2	254.07	1/2	539.70	1/2	821.20	1/2	1,104.50	1/2	1,389.95	1/2	1,675.03	1/2	1,960.65	1/2	2,246.26	1/2	2,531.86
3/4	3.61	3/4	260.02	3/4	545.65	3/4	826.99	3/4	1,110.45	3/4	1,395.89	3/4	1,680.98	3/4	1,966.60	3/4	2,252.21	3/4	2,537.81
1	4.60	1	265.97	1	551.60	1	832.79	1	1,116.40	1	1,401.82	1	1,686.93	1	1,972.55	1	2,258.16	1	2,543.76
1/4	6.79	1/4	271.92	1/4	557.55	1/4	838.58	1/4	1,122.34	1/4	1,407.76	1/4	1,692.88	1/4	1,978.50	1/4	2,264.11	1/4	2,549.72
1/2	8.98	1/2	277.87	1/2	563.50	1/2	844.37	1/2	1,128.29	1/2	1,413.69	1/2	1,698.83	1/2	1,984.45	1/2	2,270.06	1/2	2,555.67
3/4	11.17	3/4	283.83	3/4	569.46	3/4	850.16	3/4	1,134.24	3/4	1,419.63	3/4	1,704.73	3/4	1,990.40	3/4	2,276.01	3/4	2,561.62
1	13.36	1	289.78	1	575.41	1	855.95	1	1,140.18	1	1,425.57	1	1,710.70	1	1,996.35	1	2,281.96	1	2,567.57
1/4	17.27	1/4	295.73	1/4	581.36	1/4	861.75	1/4	1,146.13	1/4	1,431.50	1/4	1,716.68	1/4	2,002.30	1/4	2,287.91	1/4	2,573.52
1/2	21.18	1/2	301.68	1/2	587.31	1/2	867.54	1/2	1,152.08	1/2	1,437.44	1/2	1,722.63	1/2	2,008.25	1/2	2,293.86	1/2	2,579.47
3/4	25.09	3/4	307.63	3/4	593.26	3/4	873.33	3/4	1,158.03	3/4	1,443.38	3/4	1,728.58	3/4	2,014.20	3/4	2,299.80	3/4	2,585.42
1	29.00	1	313.58	1	599.21	1	879.12	1	1,163.97	1	1,449.31	1	1,734.53	1	2,020.15	1	2,305.75	1	2,591.37
1/4	34.29	1/4	319.53	1/4	605.16	1/4	884.92	1/4	1,169.92	1/4	1,455.25	1/4	1,740.48	1/4	2,026.10	1/4	2,311.70	1/4	2,597.32
1/2	40.65	1/2	325.48	1/2	611.11	1/2	890.71	1/2	1,175.87	1/2	1,461.18	1/2	1,746.43	1/2	2,032.05	1/2	2,317.65	1/2	2,603.27
3/4	45.94	3/4	331.43	3/4	617.06	3/4	896.50	3/4	1,181.82	3/4	1,467.12	3/4	1,752.38	3/4	2,038.00	3/4	2,323.60	3/4	2,609.22
1	51.59	1	337.38	1	623.01	1	902.29	1	1,187.76	1	1,473.06	1	1,758.33	1	2,043.95	1	2,329.55	1	2,615.17
1/4	57.53	1/4	343.33	1/4	628.96	1/4	908.24	1/4	1,193.71	1/4	1,478.99	1/4	1,764.28	1/4	2,049.90	1/4	2,335.50	1/4	2,621.12
1/2	63.48	1/2	349.28	1/2	634.91	1/2	914.19	1/2	1,199.66	1/2	1,484.93	1/2	1,770.24	1/2	2,055.85	1/2	2,341.40	1/2	2,627.07
3/4	69.43	3/4	355.23	3/4	640.86	3/4	920.13	3/4	1,205.61	3/4	1,490.86	3/4	1,776.19	3/4	2,061.80	3/4	2,347.40	3/4	2,633.02
1	75.38	1	361.18	1	646.81	1	925.08	1	1,211.55	1	1,496.80	1	1,782.14	1	2,067.76	1	2,353.35	1	2,638.97
1/4	81.34	1/4	367.13	1/4	652.76	1/4	930.04	1/4	1,217.50	1/4	1,502.74	1/4	1,788.09	1/4	2,073.71	1/4	2,359.30	1/4	2,644.92
1/2	87.30	1/2	373.09	1/2	658.71	1/2	937.98	1/2	1,223.45	1/2	1,508.67	1/2	1,794.04	1/2	2,079.66	1/2	2,365.25	1/2	2,650.87
3/4	93.26	3/4	379.04	3/4	664.66	3/4	943.92	3/4	1,229.39	3/4	1,514.61	3/4	1,799.99	3/4	2,085.61	3/4	2,371.20	3/4	2,656.82
1	99.22	1	384.99	1	670.62	1	949.87	1	1,235.34	1	1,520.55	1	1,805.94	1	2,091.56	1	2,377.15	1	2,662.77
1/4	105.18	1/4	390.94	1/4	676.41	1/4	955.82	1/4	1,241.29	1/4	1,526.48	1/4	1,811.89	1/4	2,097.51	1/4	2,383.10	1/4	2,668.72
1/2	111.14	1/2	396.89	1/2	682.20	1/2	961.77	1/2	1,247.24	1/2	1,532.42	1/2	1,817.84	1/2	2,103.46	1/2	2,389.05	1/2	2,674.67
3/4	117.11	3/4	402.84	3/4	687.99	3/4	967.71	3/4	1,253.18	3/4	1,538.35	3/4	1,823.79	3/4	2,109.41	3/4	2,394.99	3/4	2,680.62
1	123.07	1	408.79	1	693.78	1	973.66	1	1,259.13	1	1,544.29	1	1,829.74	1	2,115.36	1	2,400.96	1	2,686.57
1/4	129.03	1/4	414.74	1/4	699.57	1/4	979.61	1/4	1,265.08	1/4	1,550.23	1/4	1,835.69	1/4	2,121.31	1/4	2,406.91	1/4	2,692.52
1/2	134.98	1/2	420.69	1/2	705.37	1/2	985.56	1/2	1,271.03	1/2	1,556.16	1/2	1,841.64	1/2	2,127.26	1/2	2,412.86	1/2	2,698.48
3/4	140.94	3/4	426.64	3/4	711.16	3/4	991.50	3/4	1,276.97	3/4	1,562.10	3/4	1,847.59	3/4	2,133.21	3/4	2,418.81	3/4	2,704.43
1	146.90	1	432.59	1	716.95	1	997.45	1	1,282.92	1	1,568.04	1	1,853.54	1	2,139.16	1	2,424.76	1	2,710.38
1/4	152.85	1/4	438.54	1/4	722.74	1/4	1,003.40	1/4	1,288.87	1/4	1,573.97	1/4	1,859.49	1/4	2,145.11	1/4	2,430.71	1/4	2,716.33
1/2	158.80	1/2	444.49	1/2	728.53	1/2	1,009.34	1/2	1,294.81	1/2	1,579.91	1/2	1,865.44	1/2	2,151.06	1/2	2,436.66	1/2	2,722.28
3/4	164.76	3/4	450.44	3/4	734.33	3/4	1,015.29	3/4	1,300.76	3/4	1,585.84	3/4	1,871.39	3/4	2,157.01	3/4	2,442.61	3/4	2,728.23
1	170.71	1	456.39	1	740.12	1	1,021.24	1	1,306.71	1	1,591.78	1	1,877.34	1	2,162.96	1	2,448.56	1	2,734.18
1/4	176.67	1/4	462.34	1/4	745.91	1/4	1,027.19	1/4	1,312.66	1/4	1,597.72	1/4	1,883.29	1/4	2,168.91	1/4	2,454.51	1/4	2,740.13
1/2	182.62	1/2	468.29	1/2	751.70	1/2	1,033.13	1/2	1,318.60	1/2	1,603.65	1/2	1,889.24	1/2	2,174.86	1/2	2,460.46	1/2	2,746.08
3/4	188.58	3/4	474.25	3/4	757.49	3/4	1,039.08	3/4	1,324.55	3/4	1,609.59	3/4	1,895.19	3/4	2,180.81	3/4	2,466.41	3/4	2,752.03
1	194.54	1	480.20	1	763.28	1	1,045.03	1	1,330.50	1	1,615.52	1	1,901.14	1	2,186.76	1	2,472.36	1	2,757.98
1/4	200.50	1/4	486.15	1/4	769.08	1/4	1,050.98	1/4	1,336.45	1/4	1,621.48	1/4	1,907.09	1/4	2,192.71	1/4	2,478.31	1/4	2,763.93
1/2	206.45	1/2	492.10	1/2	774.87	1/2	1,056.92	1/2	1,342.39	1/2	1,627.43	1/2	1,913.04	1/2	2,198.66	1/2	2,484.26	1/2	2,769.88
3/4	212.41	3/4	498.05	3/4	780.66	3/4	1,062.87	3/4	1,348.34	3/4	1,633.38	3/4	1,919.00	3/4	2,204.61	3/4	2,490.21	3/4	2,775.83
1	218.37	1	504.00	1	786.45	1	1,068.82	1	1,354.29	1	1,639.33	1	1,924.95	1	2,210.56	1	2,496.16	1	2,781.78
1/4	224.32	1/4	509.95	1/4	792.24	1/4	1,074.76	1/4	1,360.23	1/4	1,645.28	1/4	1,930.90	1/4	2,216.51	1/4	2,502.11	1/4	2,787.74
1/2	230.27	1/2	515.90	1/2	798.03	1/2	1,080.71	1/2	1,366.18	1/2	1,651.23	1/2	1,936.85	1/2	2,222.46	1/2	2,508.06	1/2	2,793.70
3/4	236.22	3/4	521.85	3/4	803.83	3/4	1,086.66	3/4	1,372.13	3/4	1,657.18	3/4	1,942.80	3/4	2,228.41	3/4	2,514.01	3/4	2,799.67

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NIPMS 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 OF 2" DIAMETER "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pasland, Texas 77588
http://www.pmacorp.net



BARGE "IB 1990"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

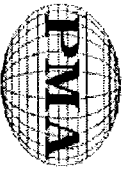
GAUGE HEIGHT 15'-03 1/2"

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,805.63	3,058.09	3,243.11	3,428.12	3,612.94	3,797.75	3,982.56	4,167.37	4,352.18	4,536.99
1/4	2,811.59	3,061.95	3,246.96	3,431.98	3,616.21	3,800.44	3,984.67	4,168.90	4,353.13	4,537.36
1/2	2,817.55	3,065.80	3,250.82	3,435.83	3,619.49	3,803.72	3,987.95	4,172.18	4,356.41	4,540.64
3/4	2,823.51	3,069.66	3,254.67	3,439.69	3,622.76	3,806.95	3,991.18	4,175.41	4,359.64	4,543.87
1	2,829.48	3,073.51	3,258.53	3,443.54	3,626.03	3,810.27	3,994.50	4,178.73	4,362.96	4,547.10
1 1/4	2,835.44	3,077.37	3,262.38	3,447.40	3,628.77	3,813.50	3,997.73	4,182.06	4,366.29	4,550.33
1 1/2	2,841.40	3,081.22	3,266.24	3,451.25	3,631.44	3,816.73	3,999.96	4,185.39	4,369.62	4,553.56
3/4	2,847.36	3,085.07	3,270.09	3,455.11	3,634.50	3,819.96	4,003.19	4,188.73	4,372.96	4,556.79
2	2,853.33	3,088.93	3,273.94	3,458.96	3,637.51	3,823.19	4,006.42	4,192.06	4,376.29	4,560.02
1/4	2,859.29	3,092.78	3,277.80	3,462.82	3,640.50	3,826.42	4,009.65	4,195.39	4,379.62	4,563.25
1/2	2,865.25	3,096.64	3,281.65	3,466.67	3,643.50	3,829.65	4,012.88	4,198.73	4,382.96	4,566.48
3/4	2,871.21	3,100.49	3,285.51	3,470.52	3,646.50	3,832.88	4,016.11	4,202.06	4,386.29	4,569.71
3	2,877.17	3,104.35	3,289.36	3,474.38	3,649.48	3,836.11	4,019.34	4,205.39	4,389.62	4,572.94
1/4	2,883.14	3,108.20	3,293.22	3,478.23	3,652.48	3,839.34	4,022.57	4,208.73	4,392.96	4,576.17
1/2	2,889.10	3,112.06	3,297.07	3,482.09	3,655.48	3,842.57	4,025.80	4,212.06	4,396.29	4,579.40
3/4	2,895.06	3,115.91	3,300.93	3,485.94	3,658.48	3,845.80	4,029.03	4,215.39	4,399.62	4,582.63
4	2,901.02	3,119.76	3,304.78	3,489.80	3,661.48	3,849.03	4,032.26	4,218.73	4,402.96	4,585.86
1/4	2,906.99	3,123.62	3,308.64	3,493.65	3,664.48	3,852.26	4,035.49	4,222.06	4,406.29	4,589.09
1/2	2,912.95	3,127.47	3,312.49	3,497.51	3,667.48	3,855.49	4,038.72	4,225.39	4,409.62	4,592.32
3/4	2,918.91	3,131.33	3,316.34	3,501.36	3,670.48	3,858.72	4,041.95	4,228.73	4,412.96	4,595.55
5	2,924.87	3,135.18	3,320.20	3,505.21	3,673.48	3,861.95	4,045.18	4,232.06	4,416.29	4,598.78
1/4	2,930.84	3,139.04	3,324.05	3,509.07	3,676.48	3,865.18	4,048.41	4,235.39	4,419.62	4,602.01
1/2	2,936.80	3,142.89	3,327.91	3,512.92	3,679.48	3,868.41	4,051.64	4,238.73	4,422.96	4,605.24
3/4	2,942.76	3,146.75	3,331.76	3,516.78	3,682.48	3,871.64	4,054.87	4,242.06	4,426.29	4,608.47
6	2,948.72	3,150.60	3,335.62	3,520.63	3,685.48	3,874.87	4,058.10	4,245.39	4,429.62	4,611.70
1/4	2,954.68	3,154.46	3,339.47	3,524.49	3,688.48	3,878.10	4,061.33	4,248.73	4,432.96	4,614.93
1/2	2,960.65	3,158.31	3,343.33	3,528.34	3,691.48	3,881.33	4,064.56	4,252.06	4,436.29	4,618.16
3/4	2,966.61	3,162.16	3,347.18	3,532.20	3,694.48	3,884.56	4,067.79	4,255.39	4,439.62	4,621.39
7	2,972.57	3,166.02	3,351.03	3,536.05	3,697.48	3,887.79	4,071.02	4,258.73	4,442.96	4,624.62
1/4	2,978.53	3,169.87	3,354.89	3,539.91	3,700.48	3,891.02	4,074.25	4,262.06	4,446.29	4,627.85
1/2	2,984.50	3,173.73	3,358.74	3,543.76	3,703.48	3,894.25	4,077.48	4,265.39	4,449.62	4,631.08
3/4	2,990.46	3,177.58	3,362.60	3,547.61	3,706.48	3,897.48	4,080.71	4,268.73	4,452.96	4,634.31
8	2,996.42	3,181.44	3,366.45	3,551.47	3,709.48	3,899.71	4,083.94	4,272.06	4,456.29	4,637.54
1/4	3,000.28	3,185.29	3,370.31	3,555.32	3,712.48	3,902.94	4,087.17	4,275.39	4,459.62	4,640.77
1/2	3,004.13	3,189.15	3,374.16	3,559.18	3,715.48	3,906.17	4,090.40	4,278.73	4,462.96	4,644.00
3/4	3,007.98	3,193.00	3,378.02	3,563.03	3,718.48	3,909.40	4,093.63	4,282.06	4,466.29	4,647.23
9	3,011.84	3,196.85	3,381.87	3,566.89	3,721.48	3,912.63	4,096.86	4,285.39	4,469.62	4,650.46
1/4	3,015.69	3,200.71	3,385.73	3,570.74	3,724.48	3,915.86	4,099.09	4,288.73	4,472.96	4,653.69
1/2	3,019.55	3,204.56	3,389.58	3,574.59	3,727.48	3,919.09	4,102.32	4,292.06	4,476.29	4,656.92
3/4	3,023.40	3,208.42	3,393.43	3,578.44	3,730.48	3,922.32	4,105.55	4,295.39	4,479.62	4,660.15
10	3,027.26	3,212.27	3,397.29	3,582.30	3,733.48	3,925.55	4,108.78	4,298.73	4,482.96	4,663.38
1/4	3,031.11	3,216.13	3,401.14	3,586.14	3,736.48	3,928.78	4,112.01	4,302.06	4,486.29	4,666.61
1/2	3,034.97	3,219.98	3,405.00	3,589.99	3,739.48	3,932.01	4,115.24	4,305.39	4,489.62	4,669.84
3/4	3,038.82	3,223.84	3,408.85	3,593.83	3,742.48	3,935.24	4,118.47	4,308.73	4,492.96	4,673.07
11	3,042.67	3,227.69	3,412.71	3,597.67	3,745.48	3,938.47	4,121.70	4,312.06	4,496.29	4,676.30
1/4	3,046.53	3,231.55	3,416.56	3,601.49	3,748.48	3,941.70	4,124.93	4,315.39	4,499.62	4,679.53
1/2	3,050.38	3,235.40	3,420.42	3,605.31	3,751.48	3,944.93	4,128.16	4,318.73	4,502.96	4,682.76
3/4	3,054.24	3,239.25	3,424.27	3,609.12	3,754.48	3,948.16	4,131.39	4,322.06	4,506.29	4,686.00

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED- 12/12/2017 CL
 CALCULATED- 12/13/2017 CL
 PRINTED- 12/14/2017 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2017

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77568
 http://www.pmacorp.net



BARGE "IB 1990"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.63	0	240.58	0	515.12	0	765.64	0	1,057.51	0	1,332.07	0	1,616.62	0	1,881.18	0	2,155.73	0	2,430.29
1/4	1.58	1/4	246.30	1/4	520.84	1/4	791.19	1/4	1,063.23	1/4	1,337.79	1/4	1,612.34	1/4	1,886.90	1/4	2,161.45	1/4	2,435.01
1/2	2.53	1/2	252.02	1/2	526.56	1/2	796.74	1/2	1,068.95	1/2	1,343.51	1/2	1,618.06	1/2	1,892.62	1/2	2,167.17	1/2	2,441.73
3/4	3.48	3/4	257.74	3/4	532.28	3/4	802.29	3/4	1,074.67	3/4	1,349.23	3/4	1,623.78	3/4	1,898.34	3/4	2,172.89	3/4	2,447.45
1	4.44	1	263.46	1	538.00	1	807.85	1	1,080.39	1	1,360.95	1	1,642.51	1	1,904.06	1	2,178.61	1	2,453.17
1/4	7.30	1/4	269.17	1/4	543.72	1/4	813.40	1/4	1,088.11	1/4	1,366.39	1/4	1,650.94	1/4	1,909.78	1/4	2,184.33	1/4	2,458.89
1/2	10.16	1/2	274.89	1/2	549.44	1/2	818.95	1/2	1,091.83	1/2	1,366.39	1/2	1,640.94	1/2	1,915.50	1/2	2,190.05	1/2	2,464.61
3/4	13.02	3/4	280.61	3/4	555.16	3/4	824.50	3/4	1,097.55	3/4	1,372.11	3/4	1,646.66	3/4	1,921.22	3/4	2,195.77	3/4	2,470.33
2	15.88	2	286.33	2	560.88	2	830.05	2	1,103.27	2	1,377.83	2	1,652.38	2	1,926.94	2	2,201.49	2	2,476.05
1/4	20.64	1/4	292.05	1/4	566.60	1/4	835.61	1/4	1,108.99	1/4	1,383.55	1/4	1,658.10	1/4	1,932.66	1/4	2,207.21	1/4	2,481.77
1/2	25.40	1/2	297.77	1/2	572.32	1/2	841.16	1/2	1,114.71	1/2	1,389.27	1/2	1,663.82	1/2	1,938.38	1/2	2,212.93	1/2	2,487.49
3/4	30.17	3/4	303.49	3/4	578.04	3/4	846.71	3/4	1,120.43	3/4	1,394.99	3/4	1,669.54	3/4	1,944.10	3/4	2,218.65	3/4	2,493.21
3	34.93	3	309.21	3	583.76	3	852.26	3	1,126.15	3	1,400.71	3	1,675.26	3	1,949.82	3	2,224.37	3	2,498.93
1/4	40.60	1/4	314.93	1/4	589.48	1/4	857.82	1/4	1,131.87	1/4	1,406.43	1/4	1,680.98	1/4	1,955.54	1/4	2,230.09	1/4	2,504.65
1/2	46.27	1/2	320.65	1/2	595.20	1/2	863.37	1/2	1,137.59	1/2	1,412.15	1/2	1,686.70	1/2	1,961.26	1/2	2,235.81	1/2	2,510.37
3/4	51.94	3/4	326.37	3/4	600.92	3/4	868.92	3/4	1,143.31	3/4	1,417.87	3/4	1,692.42	3/4	1,966.98	3/4	2,241.53	3/4	2,516.09
4	57.61	4	332.09	4	606.64	4	874.48	4	1,149.03	4	1,423.59	4	1,698.14	4	1,972.70	4	2,247.25	4	2,521.81
1/4	63.32	1/4	337.81	1/4	612.36	1/4	880.20	1/4	1,154.75	1/4	1,429.31	1/4	1,703.86	1/4	1,978.42	1/4	2,252.97	1/4	2,527.53
1/2	69.02	1/2	343.53	1/2	618.08	1/2	885.92	1/2	1,160.47	1/2	1,435.03	1/2	1,709.58	1/2	1,984.14	1/2	2,258.69	1/2	2,533.25
3/4	74.73	3/4	349.25	3/4	623.80	3/4	891.64	3/4	1,166.19	3/4	1,440.75	3/4	1,715.30	3/4	1,989.86	3/4	2,264.41	3/4	2,538.97
5	80.44	5	354.97	5	629.52	5	897.36	5	1,171.91	5	1,446.47	5	1,721.02	5	1,995.58	5	2,270.13	5	2,544.69
1/4	86.15	1/4	360.69	1/4	635.24	1/4	903.08	1/4	1,177.63	1/4	1,452.19	1/4	1,726.74	1/4	2,001.30	1/4	2,275.85	1/4	2,550.41
1/2	91.87	1/2	366.41	1/2	640.96	1/2	908.80	1/2	1,183.35	1/2	1,457.91	1/2	1,732.46	1/2	2,007.02	1/2	2,281.57	1/2	2,556.13
3/4	97.59	3/4	372.13	3/4	646.68	3/4	914.52	3/4	1,189.07	3/4	1,463.63	3/4	1,738.18	3/4	2,012.74	3/4	2,287.29	3/4	2,561.85
6	103.31	6	377.85	6	652.39	6	920.24	6	1,194.79	6	1,469.35	6	1,743.90	6	2,018.46	6	2,292.93	6	2,567.57
1/4	109.03	1/4	383.57	1/4	657.95	1/4	925.96	1/4	1,200.51	1/4	1,475.07	1/4	1,749.62	1/4	2,024.18	1/4	2,298.73	1/4	2,573.29
1/2	114.75	1/2	389.29	1/2	663.50	1/2	931.68	1/2	1,206.23	1/2	1,480.79	1/2	1,755.34	1/2	2,029.90	1/2	2,304.45	1/2	2,579.01
3/4	120.47	3/4	395.01	3/4	669.03	3/4	937.40	3/4	1,211.95	3/4	1,486.51	3/4	1,761.06	3/4	2,035.62	3/4	2,310.17	3/4	2,584.73
7	126.19	7	400.73	7	674.60	7	943.12	7	1,217.67	7	1,492.23	7	1,766.78	7	2,041.34	7	2,315.89	7	2,590.45
1/4	131.91	1/4	406.45	1/4	680.15	1/4	948.84	1/4	1,223.39	1/4	1,497.95	1/4	1,772.50	1/4	2,047.06	1/4	2,321.61	1/4	2,596.17
1/2	137.63	1/2	412.17	1/2	685.71	1/2	954.55	1/2	1,229.11	1/2	1,503.67	1/2	1,778.22	1/2	2,052.78	1/2	2,327.33	1/2	2,601.89
3/4	143.35	3/4	417.89	3/4	691.26	3/4	960.27	3/4	1,234.83	3/4	1,509.39	3/4	1,783.96	3/4	2,058.50	3/4	2,333.05	3/4	2,607.61
8	149.06	8	423.61	8	696.81	8	965.99	8	1,240.55	8	1,515.11	8	1,789.66	8	2,064.22	8	2,338.77	8	2,613.33
1/4	154.78	1/4	429.33	1/4	702.36	1/4	971.71	1/4	1,246.27	1/4	1,520.83	1/4	1,795.38	1/4	2,069.94	1/4	2,344.49	1/4	2,619.05
1/2	160.50	1/2	435.05	1/2	707.91	1/2	977.43	1/2	1,251.99	1/2	1,526.55	1/2	1,801.10	1/2	2,075.66	1/2	2,350.21	1/2	2,624.77
3/4	166.22	3/4	440.77	3/4	713.46	3/4	983.15	3/4	1,257.71	3/4	1,532.26	3/4	1,806.82	3/4	2,081.38	3/4	2,355.93	3/4	2,630.49
9	171.94	9	446.49	9	719.02	9	988.87	9	1,263.43	9	1,537.98	9	1,812.54	9	2,087.10	9	2,361.65	9	2,636.21
1/4	177.66	1/4	452.21	1/4	724.57	1/4	994.59	1/4	1,269.15	1/4	1,543.70	1/4	1,818.26	1/4	2,092.82	1/4	2,367.37	1/4	2,641.93
1/2	183.38	1/2	457.93	1/2	730.12	1/2	1,000.31	1/2	1,274.87	1/2	1,549.42	1/2	1,823.98	1/2	2,098.54	1/2	2,373.07	1/2	2,647.65
3/4	189.10	3/4	463.64	3/4	735.67	3/4	1,006.03	3/4	1,280.59	3/4	1,555.14	3/4	1,829.70	3/4	2,104.25	3/4	2,378.81	3/4	2,653.37
10	194.82	10	469.36	10	741.22	10	1,011.75	10	1,286.31	10	1,560.86	10	1,835.42	10	2,109.97	10	2,384.53	10	2,659.09
1/4	200.54	1/4	475.08	1/4	746.77	1/4	1,017.47	1/4	1,292.03	1/4	1,566.58	1/4	1,841.14	1/4	2,115.69	1/4	2,390.25	1/4	2,664.81
1/2	206.26	1/2	480.80	1/2	752.33	1/2	1,023.19	1/2	1,297.75	1/2	1,572.30	1/2	1,846.86	1/2	2,121.41	1/2	2,395.97	1/2	2,670.53
3/4	211.98	3/4	486.52	3/4	757.88	3/4	1,028.91	3/4	1,303.47	3/4	1,578.02	3/4	1,852.58	3/4	2,127.13	3/4	2,401.61	3/4	2,676.25
11	217.70	11	492.24	11	763.43	11	1,034.63	11	1,309.19	11	1,583.74	11	1,858.30	11	2,132.85	11	2,407.41	11	2,681.96
1/4	223.42	1/4	497.96	1/4	768.98	1/4	1,040.35	1/4	1,314.91	1/4	1,589.46	1/4	1,864.02	1/4	2,138.57	1/4	2,413.13	1/4	2,687.68
1/2	229.14	1/2	503.68	1/2	774.53	1/2	1,046.07	1/2	1,320.63	1/2	1,595.18	1/2	1,869.74	1/2	2,144.29	1/2	2,418.85	1/2	2,693.40
3/4	234.86	3/4	509.40	3/4	780.09	3/4	1,051.79	3/4	1,326.35	3/4	1,600.90	3/4	1,875.46	3/4	2,150.01	3/4	2,424.57	3/4	2,699.12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NIPMS 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 OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

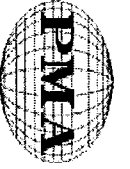
PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

http://www.pmacorp.net



BARGE "IB 1990"

2 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

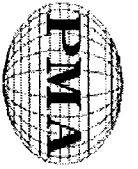
GAUGE HEIGHT 15'-02 3/4"

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,704.84	2,978.40	3,253.95	3,528.51	3,802.89	4,077.27	4,351.65	4,626.03	4,900.41	5,174.79
1/4	2,710.56	2,985.12	3,259.67	3,534.23	3,808.06	4,082.44	4,356.82	4,631.20	4,905.58	5,180.00
1/2	2,716.28	2,990.84	3,265.39	3,539.95	3,813.22	4,087.60	4,361.98	4,636.36	4,910.74	5,185.16
3/4	2,722.00	2,996.56	3,271.11	3,545.67	3,818.38	4,092.86	4,367.24	4,641.62	4,916.00	5,190.32
1	2,727.72	3,002.28	3,276.83	3,551.39	3,823.55	4,098.12	4,372.50	4,646.88	4,921.24	5,195.48
1/4	2,733.44	3,008.00	3,282.55	3,557.11	3,829.88	4,103.38	4,377.76	4,652.14	4,926.48	5,200.64
1/2	2,739.16	3,013.72	3,288.27	3,562.83	3,836.22	4,108.64	4,383.02	4,657.40	4,931.72	5,205.80
3/4	2,744.88	3,019.44	3,293.99	3,568.55	3,842.54	4,113.90	4,388.28	4,662.66	4,936.96	5,210.96
2	2,750.60	3,025.16	3,299.71	3,574.27	3,848.86	4,119.16	4,393.54	4,667.92	4,942.20	5,216.12
1/4	2,756.32	3,030.88	3,305.43	3,579.99	3,855.18	4,124.42	4,398.80	4,673.18	4,947.44	5,221.28
1/2	2,762.04	3,036.60	3,311.15	3,585.71	3,861.50	4,129.68	4,404.06	4,678.44	4,952.68	5,226.44
3/4	2,767.76	3,042.32	3,316.87	3,591.43	3,867.82	4,134.94	4,409.32	4,683.70	4,957.92	5,231.60
3	2,773.48	3,048.04	3,322.59	3,597.15	3,874.14	4,140.20	4,414.58	4,688.96	4,963.16	5,236.76
1/4	2,779.20	3,053.76	3,328.31	3,602.87	3,880.46	4,145.46	4,419.84	4,694.22	4,968.40	5,241.92
1/2	2,784.92	3,059.48	3,334.03	3,608.59	3,886.78	4,150.74	4,425.10	4,699.48	4,973.64	5,247.08
3/4	2,790.64	3,065.20	3,339.75	3,614.31	3,893.10	4,155.62	4,430.36	4,704.74	4,978.88	5,252.24
4	2,796.36	3,070.92	3,345.47	3,620.03	3,899.42	4,160.50	4,435.62	4,709.98	4,984.12	5,257.40
1/4	2,802.08	3,076.64	3,351.19	3,625.75	3,905.74	4,165.38	4,440.88	4,715.24	4,989.36	5,262.56
1/2	2,807.80	3,082.36	3,356.91	3,631.47	3,912.06	4,170.26	4,446.14	4,720.48	4,994.60	5,267.72
3/4	2,813.52	3,088.08	3,362.63	3,637.19	3,918.38	4,175.14	4,451.40	4,725.72	4,999.84	5,272.88
5	2,819.24	3,093.80	3,368.35	3,642.91	3,924.70	4,180.02	4,456.66	4,730.96	5,005.08	5,278.04
1/4	2,824.96	3,099.52	3,374.07	3,648.63	3,931.02	4,184.90	4,461.92	4,736.20	5,010.32	5,283.20
1/2	2,830.68	3,105.24	3,379.79	3,654.35	3,937.34	4,189.78	4,467.18	4,741.44	5,015.56	5,288.36
3/4	2,836.40	3,110.96	3,385.51	3,660.07	3,943.66	4,194.66	4,472.44	4,746.68	5,020.80	5,293.52
6	2,842.12	3,116.68	3,391.23	3,665.79	3,949.98	4,199.54	4,477.70	4,751.92	5,026.04	5,298.68
1/4	2,847.84	3,122.40	3,396.95	3,671.51	3,956.30	4,204.42	4,482.96	4,757.16	5,031.28	5,303.84
1/2	2,853.56	3,128.12	3,402.67	3,677.23	3,962.62	4,209.30	4,488.22	4,762.40	5,036.52	5,309.00
3/4	2,859.28	3,133.84	3,408.39	3,682.95	3,968.94	4,214.18	4,493.48	4,767.64	5,041.76	5,314.16
7	2,865.00	3,139.56	3,414.11	3,688.67	3,975.26	4,219.06	4,498.74	4,772.88	5,047.00	5,319.32
1/4	2,870.72	3,145.28	3,419.83	3,694.39	3,981.58	4,223.94	4,504.00	4,778.12	5,052.24	5,324.48
1/2	2,876.44	3,151.00	3,425.55	3,700.11	3,987.90	4,228.82	4,509.26	4,783.36	5,057.48	5,329.64
3/4	2,882.16	3,156.72	3,431.27	3,705.83	3,994.22	4,233.70	4,514.52	4,788.60	5,062.72	5,334.80
8	2,887.88	3,162.44	3,436.99	3,711.55	3,999.54	4,238.58	4,519.78	4,793.84	5,067.96	5,339.96
1/4	2,893.60	3,168.16	3,442.71	3,717.27	4,005.86	4,243.46	4,525.04	4,799.08	5,073.20	5,345.12
1/2	2,899.32	3,173.88	3,448.43	3,722.99	4,012.18	4,248.34	4,530.30	4,804.32	5,078.44	5,350.28
3/4	2,905.04	3,179.60	3,454.15	3,728.71	4,018.50	4,253.22	4,535.56	4,809.56	5,083.68	5,355.44
9	2,910.76	3,185.32	3,459.87	3,734.43	4,024.82	4,258.10	4,540.82	4,814.80	5,088.92	5,360.60
1/4	2,916.48	3,191.04	3,465.59	3,740.15	4,031.14	4,262.98	4,546.06	4,820.04	5,094.16	5,365.76
1/2	2,922.20	3,196.76	3,471.31	3,745.87	4,037.46	4,267.86	4,551.30	4,825.28	5,099.40	5,370.92
3/4	2,927.92	3,202.48	3,477.03	3,751.60	4,043.78	4,272.74	4,556.54	4,830.52	5,104.64	5,376.08
10	2,933.64	3,208.20	3,482.75	3,757.32	4,049.10	4,277.62	4,561.78	4,835.76	5,109.88	5,381.24
1/4	2,939.36	3,213.92	3,488.47	3,763.03	4,055.42	4,282.50	4,567.02	4,841.00	5,115.12	5,386.40
1/2	2,945.08	3,219.64	3,494.19	3,768.74	4,061.74	4,287.38	4,572.26	4,846.24	5,120.36	5,391.56
3/4	2,950.80	3,225.36	3,499.91	3,774.45	4,068.06	4,292.26	4,577.50	4,851.48	5,125.60	5,396.72
11	2,956.52	3,231.08	3,505.63	3,780.16	4,074.38	4,297.14	4,582.74	4,856.72	5,130.84	5,401.88
1/4	2,962.24	3,236.80	3,511.35	3,785.84	4,080.70	4,302.02	4,588.00	4,861.96	5,136.08	5,407.04
1/2	2,967.96	3,242.52	3,517.07	3,791.53	4,087.02	4,306.90	4,593.24	4,867.20	5,141.32	5,412.20
3/4	2,973.68	3,248.23	3,522.79	3,797.21	4,093.34	4,311.78	4,598.48	4,872.44	5,146.56	5,417.36

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/12/2017 CL
CALCULATED: 12/13/2017 CL
PRINTED: 12/14/2017 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2017

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



BARGE "IB 1990"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-03 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.63	0	238.85	0	511.41	0	783.72	0	1,056.13	0	1,328.48	0	1,601.28	0	1,873.85	0	2,146.42	0	2,418.99
1/4	1.57	1/4	244.52	1/4	517.09	1/4	789.38	1/4	1,061.81	1/4	1,334.38	1/4	1,606.95	1/4	1,879.53	1/4	2,152.10	1/4	2,424.67
1/2	2.52	1/2	250.20	1/2	522.77	1/2	795.05	1/2	1,067.49	1/2	1,340.06	1/2	1,612.63	1/2	1,885.21	1/2	2,157.78	1/2	2,430.35
3/4	3.47	3/4	255.88	3/4	528.44	3/4	800.72	3/4	1,073.17	3/4	1,345.74	3/4	1,618.31	3/4	1,890.88	3/4	2,163.46	3/4	2,436.03
1	4.41	1	261.56	1	534.12	1	806.39	1	1,078.84	1	1,351.42	1	1,623.99	1	1,896.56	1	2,169.14	1	2,441.71
1/4	7.25	1/4	267.24	1/4	539.80	1/4	812.06	1/4	1,084.52	1/4	1,357.17	1/4	1,629.67	1/4	1,902.24	1/4	2,174.81	1/4	2,447.39
1/2	10.09	1/2	272.92	1/2	545.48	1/2	817.72	1/2	1,090.20	1/2	1,362.77	1/2	1,635.35	1/2	1,907.92	1/2	2,180.49	1/2	2,453.07
3/4	12.93	3/4	278.59	3/4	551.16	3/4	823.39	3/4	1,095.88	3/4	1,368.43	3/4	1,638.48	3/4	1,913.60	3/4	2,185.17	3/4	2,458.14
1	15.77	1	284.27	1	556.84	1	829.06	1	1,101.56	1	1,374.13	1	1,643.13	1	1,919.28	1	2,191.85	1	2,464.42
1/4	20.50	1/4	289.95	1/4	562.51	1/4	834.73	1/4	1,107.24	1/4	1,379.81	1/4	1,652.38	1/4	1,924.96	1/4	2,197.53	1/4	2,470.10
1/2	25.23	1/2	295.63	1/2	568.19	1/2	840.40	1/2	1,112.92	1/2	1,385.49	1/2	1,658.06	1/2	1,930.63	1/2	2,203.21	1/2	2,475.78
3/4	29.96	3/4	301.31	3/4	573.87	3/4	846.07	3/4	1,118.59	3/4	1,391.17	3/4	1,663.74	3/4	1,936.31	3/4	2,208.89	3/4	2,481.46
1	34.69	1	306.99	1	579.55	1	851.74	1	1,124.27	1	1,396.85	1	1,669.42	1	1,941.99	1	2,214.56	1	2,487.14
1/4	40.32	1/4	312.66	1/4	585.23	1/4	857.41	1/4	1,129.95	1/4	1,402.52	1/4	1,675.10	1/4	1,947.67	1/4	2,220.24	1/4	2,492.82
1/2	45.95	1/2	318.34	1/2	590.91	1/2	863.08	1/2	1,135.63	1/2	1,408.20	1/2	1,680.78	1/2	1,953.35	1/2	2,225.82	1/2	2,498.49
3/4	51.57	3/4	324.02	3/4	596.58	3/4	868.75	3/4	1,141.31	3/4	1,413.88	3/4	1,686.45	3/4	1,959.03	3/4	2,231.80	3/4	2,504.17
1	57.20	1	329.70	1	602.26	1	874.41	1	1,146.99	1	1,419.56	1	1,692.13	1	1,964.71	1	2,237.28	1	2,509.85
1/4	62.87	1/4	335.38	1/4	607.94	1/4	880.09	1/4	1,152.67	1/4	1,425.24	1/4	1,697.81	1/4	1,970.38	1/4	2,242.86	1/4	2,515.53
1/2	68.53	1/2	341.06	1/2	613.62	1/2	885.77	1/2	1,158.34	1/2	1,430.92	1/2	1,703.49	1/2	1,976.06	1/2	2,248.54	1/2	2,521.21
3/4	74.20	3/4	346.73	3/4	619.30	3/4	891.45	3/4	1,164.02	3/4	1,436.60	3/4	1,709.17	3/4	1,981.74	3/4	2,254.31	3/4	2,526.89
1	79.86	1	352.41	1	624.98	1	897.13	1	1,169.70	1	1,442.27	1	1,714.85	1	1,987.42	1	2,259.99	1	2,532.57
1/4	85.54	1/4	358.09	1/4	630.65	1/4	902.81	1/4	1,175.38	1/4	1,447.95	1/4	1,720.53	1/4	1,993.10	1/4	2,265.67	1/4	2,538.24
1/2	91.21	1/2	363.77	1/2	636.33	1/2	908.49	1/2	1,181.06	1/2	1,453.63	1/2	1,726.20	1/2	1,998.78	1/2	2,271.35	1/2	2,543.92
3/4	96.89	3/4	369.45	3/4	642.01	3/4	914.16	3/4	1,186.74	3/4	1,459.31	3/4	1,731.88	3/4	2,004.46	3/4	2,277.03	3/4	2,549.60
1	102.57	1	375.13	1	647.69	1	919.84	1	1,192.42	1	1,464.99	1	1,737.56	1	2,010.13	1	2,282.71	1	2,555.28
1/4	108.25	1/4	380.81	1/4	653.36	1/4	925.52	1/4	1,198.09	1/4	1,470.67	1/4	1,743.24	1/4	2,015.81	1/4	2,288.39	1/4	2,560.96
1/2	113.92	1/2	386.48	1/2	659.03	1/2	931.20	1/2	1,203.77	1/2	1,476.35	1/2	1,748.92	1/2	2,021.49	1/2	2,294.06	1/2	2,566.64
3/4	119.60	3/4	392.16	3/4	664.69	3/4	936.88	3/4	1,209.45	3/4	1,482.02	3/4	1,754.60	3/4	2,027.17	3/4	2,299.74	3/4	2,572.32
1	125.28	1	397.84	1	670.36	1	942.56	1	1,215.13	1	1,487.70	1	1,760.28	1	2,032.85	1	2,305.42	1	2,577.99
1/4	130.96	1/4	403.52	1/4	676.03	1/4	948.24	1/4	1,220.81	1/4	1,493.38	1/4	1,765.95	1/4	2,038.53	1/4	2,311.10	1/4	2,583.67
1/2	136.64	1/2	409.20	1/2	681.70	1/2	953.92	1/2	1,226.49	1/2	1,499.06	1/2	1,771.63	1/2	2,044.21	1/2	2,316.78	1/2	2,589.35
3/4	142.32	3/4	414.88	3/4	687.36	3/4	959.59	3/4	1,232.17	3/4	1,504.74	3/4	1,777.31	3/4	2,049.88	3/4	2,322.46	3/4	2,595.03
1	147.99	1	420.55	1	693.03	1	965.27	1	1,237.85	1	1,510.42	1	1,782.99	1	2,055.56	1	2,328.14	1	2,600.71
1/4	153.67	1/4	426.23	1/4	698.70	1/4	970.95	1/4	1,243.52	1/4	1,516.10	1/4	1,788.67	1/4	2,061.24	1/4	2,333.81	1/4	2,606.39
1/2	159.35	1/2	431.91	1/2	704.37	1/2	976.63	1/2	1,249.20	1/2	1,521.78	1/2	1,794.35	1/2	2,066.92	1/2	2,339.49	1/2	2,612.07
3/4	165.03	3/4	437.59	3/4	710.04	3/4	982.31	3/4	1,254.88	3/4	1,527.45	3/4	1,800.03	3/4	2,072.60	3/4	2,345.17	3/4	2,617.74
1	170.71	1	443.27	1	715.70	1	987.99	1	1,260.56	1	1,533.13	1	1,805.71	1	2,078.28	1	2,350.85	1	2,623.42
1/4	176.38	1/4	448.95	1/4	721.37	1/4	993.67	1/4	1,266.24	1/4	1,538.81	1/4	1,811.38	1/4	2,083.96	1/4	2,356.53	1/4	2,629.10
1/2	182.06	1/2	454.62	1/2	727.04	1/2	999.34	1/2	1,271.92	1/2	1,544.49	1/2	1,817.06	1/2	2,089.64	1/2	2,362.21	1/2	2,634.78
3/4	187.74	3/4	460.30	3/4	732.71	3/4	1,005.02	3/4	1,277.60	3/4	1,550.17	3/4	1,822.74	3/4	2,095.31	3/4	2,367.89	3/4	2,640.46
1	193.42	1	465.98	1	738.37	1	1,010.70	1	1,283.28	1	1,555.85	1	1,828.42	1	2,100.99	1	2,373.57	1	2,646.14
1/4	199.10	1/4	471.66	1/4	744.04	1/4	1,016.38	1/4	1,288.95	1/4	1,561.53	1/4	1,834.10	1/4	2,106.67	1/4	2,379.24	1/4	2,651.82
1/2	204.77	1/2	477.34	1/2	749.71	1/2	1,022.06	1/2	1,294.63	1/2	1,567.20	1/2	1,839.78	1/2	2,112.35	1/2	2,384.92	1/2	2,657.50
3/4	210.45	3/4	483.02	3/4	755.38	3/4	1,027.74	3/4	1,299.31	3/4	1,572.83	3/4	1,845.46	3/4	2,118.03	3/4	2,390.60	3/4	2,663.18
1	216.13	1	488.69	1	761.05	1	1,033.42	1	1,305.99	1	1,578.56	1	1,851.13	1	2,123.71	1	2,396.28	1	2,668.85
1/4	221.81	1/4	494.37	1/4	766.71	1/4	1,039.09	1/4	1,311.67	1/4	1,584.24	1/4	1,856.81	1/4	2,129.39	1/4	2,401.96	1/4	2,674.53
1/2	227.49	1/2	500.05	1/2	772.38	1/2	1,044.77	1/2	1,317.35	1/2	1,589.92	1/2	1,862.49	1/2	2,135.06	1/2	2,407.64	1/2	2,680.21
3/4	233.17	3/4	505.73	3/4	778.05	3/4	1,050.45	3/4	1,323.02	3/4	1,595.60	3/4	1,868.17	3/4	2,140.74	3/4	2,413.32	3/4	2,685.89

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MEMS 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 AND 31'-00" FORWARD OF AFT BULKHEAD
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2052

Pearland, Texas 77588

http://www.pma.com



BARGE "IB 1990"

3 CENTER
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,691.57	0	2,964.74	0	3,236.71	0	3,509.29	0	3,781.69	0	4,053.66	0	4,325.63	0	4,597.60	0	4,869.57	0	5,141.54
1/4	2,697.25	1/4	2,969.82	1/4	3,242.39	1/4	3,514.96	1/4	3,786.81	1/4	4,058.66	1/4	4,330.51	1/4	4,602.36	1/4	4,874.21	1/4	5,146.06
1/2	2,702.92	1/2	2,975.49	1/2	3,248.07	1/2	3,520.64	1/2	3,791.94	1/2	4,063.21	1/2	4,334.51	1/2	4,605.81	1/2	4,877.11	1/2	5,148.41
3/4	2,708.60	3/4	2,981.18	3/4	3,253.75	3/4	3,526.32	3/4	3,797.06	3/4	4,068.36	3/4	4,339.66	3/4	4,610.96	3/4	4,882.26	3/4	5,153.56
1	2,714.28	1	2,986.85	1	3,259.43	1	3,532.00	1	3,802.19	1	4,074.76	1	4,346.06	1	4,617.36	1	4,888.66	1	5,160.16
1 1/4	2,719.96	1 1/4	2,992.53	1 1/4	3,265.11	1 1/4	3,537.68	1 1/4	3,805.50	1 1/4	4,079.11	1 1/4	4,350.41	1 1/4	4,621.71	1 1/4	4,893.01	1 1/4	5,165.51
1 1/2	2,725.64	1 1/2	2,998.21	1 1/2	3,270.78	1 1/2	3,543.36	1 1/2	3,808.81	1 1/2	4,084.32	1 1/2	4,355.62	1 1/2	4,626.92	1 1/2	4,898.22	1 1/2	5,170.72
3/4	2,731.32	3/4	3,003.89	3/4	3,276.46	3/4	3,549.04	3/4	3,814.13	3/4	4,090.44	3/4	4,361.14	3/4	4,632.44	3/4	4,903.74	3/4	5,176.04
2	2,737.00	2	3,009.57	2	3,282.14	2	3,554.71	2	3,815.44	2	4,096.11	2	4,366.41	2	4,637.71	2	4,909.01	2	5,181.31
1/4	2,742.67	1/4	3,015.25	1/4	3,287.82	1/4	3,560.39	1/4	3,816.86	1/4	4,101.76	1/4	4,372.06	1/4	4,643.36	1/4	4,914.66	1/4	5,186.66
1/2	2,748.35	1/2	3,020.93	1/2	3,293.50	1/2	3,566.07	1/2	3,818.28	1/2	4,107.16	1/2	4,377.46	1/2	4,648.76	1/2	4,920.06	1/2	5,191.96
3/4	2,754.03	3/4	3,026.60	3/4	3,299.18	3/4	3,571.75	3/4	3,819.70	3/4	4,112.56	3/4	4,382.86	3/4	4,653.86	3/4	4,925.16	3/4	5,197.16
3	2,759.71	3	3,032.28	3	3,304.86	3	3,577.43	3	3,821.12	3	4,117.96	3	4,388.26	3	4,658.96	3	4,930.26	3	5,202.26
1/4	2,765.39	1/4	3,037.96	1/4	3,310.53	1/4	3,583.11	1/4	3,821.35	1/4	4,123.06	1/4	4,393.96	1/4	4,664.66	1/4	4,935.96	1/4	5,207.96
1/2	2,771.07	1/2	3,043.64	1/2	3,316.21	1/2	3,588.79	1/2	3,821.35	1/2	4,128.76	1/2	4,399.66	1/2	4,670.66	1/2	4,941.66	1/2	5,213.66
3/4	2,776.75	3/4	3,049.32	3/4	3,321.89	3/4	3,594.46	3/4	3,821.35	3/4	4,134.46	3/4	4,405.46	3/4	4,676.46	3/4	4,947.46	3/4	5,219.46
4	2,782.42	4	3,055.00	4	3,327.57	4	3,600.14	4	3,821.35	4	4,140.16	4	4,411.16	4	4,682.16	4	4,953.16	4	5,225.16
1/4	2,788.10	1/4	3,060.68	1/4	3,333.25	1/4	3,605.82	1/4	3,821.35	1/4	4,145.86	1/4	4,416.86	1/4	4,687.86	1/4	4,959.86	1/4	5,230.86
1/2	2,793.78	1/2	3,066.35	1/2	3,338.93	1/2	3,611.50	1/2	3,821.35	1/2	4,151.56	1/2	4,422.56	1/2	4,693.56	1/2	4,965.56	1/2	5,236.56
3/4	2,799.46	3/4	3,072.03	3/4	3,344.61	3/4	3,617.18	3/4	3,821.35	3/4	4,157.26	3/4	4,428.26	3/4	4,699.26	3/4	4,971.26	3/4	5,242.26
5	2,805.14	5	3,077.71	5	3,350.28	5	3,622.86	5	3,821.35	5	4,162.96	5	4,433.96	5	4,705.96	5	4,976.96	5	5,247.96
1/4	2,810.82	1/4	3,083.39	1/4	3,355.96	1/4	3,628.54	1/4	3,821.35	1/4	4,168.66	1/4	4,439.66	1/4	4,711.66	1/4	4,982.66	1/4	5,253.66
1/2	2,816.50	1/2	3,089.07	1/2	3,361.64	1/2	3,634.21	1/2	3,821.35	1/2	4,174.36	1/2	4,445.36	1/2	4,717.36	1/2	4,988.36	1/2	5,259.36
3/4	2,822.17	3/4	3,094.75	3/4	3,367.32	3/4	3,639.89	3/4	3,821.35	3/4	4,180.06	3/4	4,451.06	3/4	4,723.06	3/4	4,994.06	3/4	5,265.06
6	2,827.85	6	3,100.43	6	3,373.00	6	3,645.57	6	3,821.35	6	4,185.76	6	4,456.76	6	4,728.76	6	4,999.76	6	5,270.76
1/4	2,833.53	1/4	3,106.10	1/4	3,378.68	1/4	3,651.25	1/4	3,821.35	1/4	4,191.46	1/4	4,462.46	1/4	4,734.46	1/4	5,005.46	1/4	5,276.46
1/2	2,839.21	1/2	3,111.78	1/2	3,384.36	1/2	3,656.93	1/2	3,821.35	1/2	4,197.16	1/2	4,468.16	1/2	4,740.16	1/2	5,011.16	1/2	5,282.16
3/4	2,844.89	3/4	3,117.46	3/4	3,390.03	3/4	3,662.61	3/4	3,821.35	3/4	4,202.86	3/4	4,473.86	3/4	4,745.86	3/4	5,016.86	3/4	5,287.86
7	2,850.57	7	3,123.14	7	3,395.71	7	3,668.29	7	3,821.35	7	4,208.56	7	4,479.56	7	4,751.56	7	5,022.56	7	5,293.56
1/4	2,856.25	1/4	3,128.82	1/4	3,401.39	1/4	3,673.96	1/4	3,821.35	1/4	4,214.26	1/4	4,485.26	1/4	4,757.26	1/4	5,028.26	1/4	5,299.26
1/2	2,861.92	1/2	3,134.50	1/2	3,407.07	1/2	3,679.64	1/2	3,821.35	1/2	4,219.96	1/2	4,490.96	1/2	4,762.96	1/2	5,033.96	1/2	5,304.96
3/4	2,867.60	3/4	3,140.18	3/4	3,412.75	3/4	3,685.32	3/4	3,821.35	3/4	4,225.66	3/4	4,496.66	3/4	4,768.66	3/4	5,039.66	3/4	5,310.66
8	2,873.28	8	3,145.85	8	3,418.43	8	3,691.00	8	3,821.35	8	4,231.36	8	4,502.36	8	4,774.36	8	5,045.36	8	5,316.36
1/4	2,878.96	1/4	3,151.53	1/4	3,424.11	1/4	3,696.68	1/4	3,821.35	1/4	4,237.06	1/4	4,508.06	1/4	4,780.06	1/4	5,050.06	1/4	5,322.06
1/2	2,884.64	1/2	3,157.21	1/2	3,429.78	1/2	3,702.36	1/2	3,821.35	1/2	4,242.76	1/2	4,513.76	1/2	4,785.76	1/2	5,055.76	1/2	5,327.76
3/4	2,890.32	3/4	3,162.89	3/4	3,435.46	3/4	3,708.04	3/4	3,821.35	3/4	4,248.46	3/4	4,519.46	3/4	4,791.46	3/4	5,061.46	3/4	5,333.46
9	2,896.00	9	3,168.57	9	3,441.14	9	3,713.71	9	3,821.35	9	4,254.16	9	4,525.16	9	4,797.16	9	5,067.16	9	5,339.16
1/4	2,901.67	1/4	3,174.25	1/4	3,446.82	1/4	3,719.40	1/4	3,821.35	1/4	4,259.86	1/4	4,530.86	1/4	4,802.86	1/4	5,072.86	1/4	5,344.86
1/2	2,907.35	1/2	3,179.93	1/2	3,452.50	1/2	3,725.08	1/2	3,821.35	1/2	4,265.56	1/2	4,536.56	1/2	4,808.56	1/2	5,078.56	1/2	5,350.56
3/4	2,913.03	3/4	3,185.61	3/4	3,458.18	3/4	3,730.76	3/4	3,821.35	3/4	4,271.26	3/4	4,542.26	3/4	4,814.26	3/4	5,084.26	3/4	5,356.26
10	2,918.71	10	3,191.28	10	3,463.86	10	3,736.44	10	3,821.35	10	4,276.96	10	4,547.96	10	4,819.96	10	5,089.96	10	5,361.96
1/4	2,924.39	1/4	3,196.96	1/4	3,469.53	1/4	3,742.11	1/4	3,821.35	1/4	4,282.66	1/4	4,553.66	1/4	4,825.66	1/4	5,095.66	1/4	5,367.66
1/2	2,930.07	1/2	3,202.64	1/2	3,475.21	1/2	3,747.78	1/2	3,821.35	1/2	4,288.36	1/2	4,559.36	1/2	4,831.36	1/2	5,101.36	1/2	5,373.36
3/4	2,935.75	3/4	3,208.32	3/4	3,480.89	3/4	3,753.45	3/4	3,821.35	3/4	4,294.06	3/4	4,565.06	3/4	4,837.06	3/4	5,107.06	3/4	5,379.06
11	2,941.43	11	3,214.00	11	3,486.57	11	3,759.12	11	3,821.35	11	4,300.16	11	4,570.16	11	4,843.16	11	5,112.16	11	5,384.16
1/4	2,947.10	1/4	3,219.68	1/4	3,492.25	1/4	3,764.76	1/4	3,821.35	1/4	4,305.86	1/4	4,575.86	1/4	4,848.86	1/4	5,117.86	1/4	5,389.86
1/2	2,952.78	1/2	3,225.33	1/2	3,497.93	1/2	3,770.40	1/2	3,821.35	1/2	4,311.56	1/2	4,581.56	1/2	4,854.56	1/2	5,123.56	1/2	5,395.56
3/4	2,958.46	3/4	3,231.03	3/4	3,503.61	3/4	3,776.04	3/4	3,821.35	3/4	4,317.26	3/4	4,587.26	3/4	4,859.26	3/4	5,129.26	3/4	5,401.26

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/12/2017 CL
CALCULATED: 12/13/2017 CL
PRINTED: 12/14/2017 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2017

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