BARGE "MM 93"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**
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	00-1/8	- 00-1/8	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4
2 STBD	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	00-1/4	- 00-1/4
3 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
3 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
4 PORT	- 00-3/4	00-3/4	- 01-1/2	01-1/2	- 02-1/4	02-1/4	- 03-1/8	03-1/8	- 03-7/8	03-7/8	- 04-5/8	04-5/8
4 STBD	- 00-3/4	00-3/4	- 01-1/2	01-1/2	- 02-1/4	02-1/4	- 03-1/8	03-1/8	- 03-7/8	03-7/8	- 04-5/8	04-5/8

(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 PORT IS - 00-1/8"
FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8'

LENGTH BETWEEN DRAFT MARKS: 237'-00"

May 15, 2013

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

http://www.pmacorp.net

BARGE "MM 93"
MAGNOLIA BARGE

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 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.	IN	10 FT.
0	14.87	0	199.33	0	437.44	0	688.88	0	941.74	0	1,194.67	0	1,448.36	0	1,702.13	0	1,955.84	0	2,209.55	0	2,462.31
1/4	17.49	1/4	203.72	1/4	442.73	1/4	694.11	1/4	946.99	1/4	1,199.96	1/4	1,453.65	1/4	1,707.41	1/4	1,961.12	1/4	2,214.84	1/4	2,467.55
1/2	20.11	1/2	208.11	1/2	448.02	1/2	699.33	1/2	952.24	1/2	1,205.25	1/2	1,458.94	1/2	1,712.70	1/2	1,966.41	1/2	2,220.12	1/2	2,472.80
3/4	22.73	3/4	212.50	3/4	453.30	3/4	704.56	3/4	957.50	3/4	1,210.54	3/4	1,464.22	3/4	1,717.99	3/4	1,971.70	3/4	2,225.41	3/4	2,478.05
1	25.35	1	216.89	1	458.59	1	709.78	1	962.75	1	1,215.82	1	1,469.51	1	1,723.27	1	1,976.98	1	2,230.70	1	2,483.29
1/4	28.77	1/4	221.36	1/4	463.88	1/4	715.01	1/4	968.00	1/4	1,221.11	1/4	1,474.80	1/4	1,728.56	1/4	1,982.27	1/4	2,235.98	1/4	2,488.54
1/2	32.19	1/2	225.83	1/2	469.17	1/2	720.25	1/2	973.26	1/2	1,226.40	1/2	1,480.08	1/2	1,733.85	1/2	1,987.55	1/2	2,241.27	1/2	2,493.78
3/4	35.61	3/4	230.31	3/4	474.45	3/4	725.48	3/4	978.51	3/4	1,231.68	3/4	1,485.37	3/4	1,739.13	3/4	1,992.84	3/4	2,246.55	3/4	2,499.03
2	39.03	2	234.78	2	479.74	2	730.71	2	983.76	2	1,236.97	2	1,490.66	2	1,744.42	2	1,998.12	2	2,251.84	2	2,504.28
1/4	42.56	1/4	239.33	1/4	485.03	1/4	735.94	1/4	989.01	1/4	1,242.25	1/4	1,495.94	1/4	1,749.71	1/4	2,003.41	1/4	2,257.12	1/4	2,509.52
1/2	46.09	1/2	243.89	1/2	490.32	1/2	741.17	1/2	994.26	1/2	1,247.53	1/2	1,501.23	1/2	1,754.99	1/2	2,008.70	1/2	2,262.41	1/2	2,514.77
3/4	49.61	3/4	248.44	3/4	495.61	3/4	746.41	3/4	999.51	3/4	1,252.80	3/4	1,506.52	3/4	1,760.28	3/4	2,013.98	3/4	2,267.70	3/4	2,520.01
3	53.14	3	252.99	3	500.89	3	751.64	3	1,004.76	3	1,258.08	3	1,511.80	3	1,765.57	3	2,019.27	3	2,272.98	3	2,525.26
1/4	56.76	1/4	257.83	1/4	506.12	1/4	756.89	1/4	1,010.01	1/4	1,263.36	1/4	1,517.09	1/4	1,770.85	1/4	2,024.55	1/4	2,278.27	1/4	2,530.50
1/2	60.38	1/2	262.67	1/2	511.34	1/2	762.15	1/2	1,015.26	1/2	1,268.63	1/2	1,522.38	1/2	1,776.14	1/2	2,029.84	1/2	2,283.55	1/2	2,535.75
3/4	64.00	3/4	267.50	3/4	516.56	3/4	767.40	3/4	1,020.51	3/4	1,273.91	3/4	1,527.66	3/4	1,781.43	3/4	2,035.12	3/4	2,288.84	3/4	2,541.00
4	67.61	4	272.34	4	521.78	4	772.65	4	1,025.76	4	1,279.19	4	1,532.95	4	1,786.71	4	2,040.41	4	2,294.12	4	2,546.24
1/4	71.33	1/4	277.26	1/4	527.00	1/4	777.91	1/4	1,031.01	1/4	1,284.48	1/4	1,538.24	1/4	1,792.00	1/4	2,045.70	1/4	2,299.41	1/4	2,551.49
1/2	75.04	1/2	282.17	1/2	532.22	1/2	783.16	1/2	1,036.27	1/2	1,289.76	1/2	1,543.52	1/2	1,797.29	1/2	2,050.98	1/2	2,304.70	1/2	2,556.73
3/4	78.75	3/4	287.09	3/4	537.45	3/4	788.42	3/4	1,041.52	3/4	1,295.05	3/4	1,548.81	3/4	1,802.57	3/4	2,056.27	3/4	2,309.98	3/4	2,561.98
5	82.46	5	292.01	5	542.67	5	793.67	5	1,046.77	5	1,300.34	5	1,554.10	5	1,807.86	5	2,061.55	5	2,315.27	5	2,567.22
1/4	86.36	1/4	297.01	1/4	547.89	1/4	798.96	1/4	1,052.03	1/4	1,305.62	1/4	1,559.38	1/4	1,813.15	1/4	2,066.84	1/4	2,320.55	1/4	2,572.07
1/2	90.26	1/2	302.01	1/2	553.11	1/2	804.25	1/2	1,057.28	1/2	1,310.91	1/2	1,564.67	1/2	1,818.43	1/2	2,072.12	1/2	2,325.84	1/2	2,576.92
3/4	94.16	3/4	307.01	3/4	558.33	3/4	809.53	3/4	1,062.53	3/4	1,316.20	3/4	1,569.96	3/4	1,823.72	3/4	2,077.41	3/4	2,331.12	3/4	2,581.76
6	98.06	6	312.01	6	563.55	6	814.82	6	1,067.79	6	1,321.48	6	1,575.24	6	1,829.01	6	2,082.70	6	2,336.41	6	2,586.61
1/4	102.13	1/4	317.09	1/4	568.77	1/4	820.11	1/4	1,073.07	1/4	1,326.77	1/4	1,580.53	1/4	1,834.29	1/4	2,087.98	1/4	2,341.66	1/4	2,590.58
1/2	106.21	1/2	322.18	1/2	573.99	1/2	825.40	1/2	1,078.36	1/2	1,332.06	1/2	1,585.82	1/2	1,839.58	1/2	2,093.27	1/2	2,346.90	1/2	2,594.54
3/4	110.28	3/4	327.26	3/4	579.21	3/4	830.69	3/4	1,083.65	3/4	1,337.34	3/4	1,591.10	3/4	1,844.87	3/4	2,098.55	3/4	2,352.15	3/4	2,598.51
7	114.36	7	332.34	7	584.43	7	835.98	7	1,088.93	7	1,342.63	7	1,596.39	7	1,850.15	7	2,103.84	7	2,357.39	7	2,602.47
1/4	118.52	1/4	337.51	1/4	589.65	1/4	841.26	1/4	1,094.22	1/4	1,347.92	1/4	1,601.68	1/4	1,855.44	1/4	2,109.12	1/4	2,362.64	1/4	2,605.55
1/2	122.68	1/2	342.67	1/2	594.87	1/2	846.55	1/2	1,099.51	1/2	1,353.20	1/2	1,606.96	1/2	1,860.73	1/2	2,114.41	1/2	2,367.88	1/2	
3/4	126.84	3/4	347.84	3/4	600.09	3/4	851.84	3/4	1,104.80	3/4	1,358.49	3/4	1,612.25	3/4	1,866.01	3/4	2,119.70	3/4	2,373.13	3/4	
8	130.99	8	353.00	8	605.31	8	857.13	8	1,110.08	8	1,363.78	8	1,617.54	8	1,871.30	8	2,124.98	8	2,378.38	8	
1/4	135.23	1/4	358.25	1/4	610.53	1/4	862.42	1/4	1,115.37	1/4	1,369.06	1/4	1,622.82	1/4	1,876.59	1/4	2,130.27	1/4	2,383.62	1/4	
1/2	139.47	1/2	363.49	1/2	615.75	1/2	867.70	1/2	1,120.66	1/2	1,374.35	1/2	1,628.11	1/2	1,881.87	1/2	2,135.55	1/2	2,388.87	1/2	
3/4	143.71	3/4	368.74	3/4	620.97	3/4	872.99	3/4	1,125.94	3/4	1,379.64	3/4	1,633.40	3/4	1,887.16	3/4	2,140.84	3/4	2,394.11	3/4	
9	147.95	9	373.99	9	626.20	9	878.28	9	1,131.23	9	1,384.92	9	1,638.69	9	1,892.45	9	2,146.12	9	2,399.36	9	
1/4	152.29	1/4	379.27	1/4	631.42	1/4	883.57	1/4	1,136.52	1/4	1,390.21	1/4	1,643.97	1/4	1,897.73	1/4	2,151.41	1/4	2,404.60	1/4	
1/2	156.62	1/2	384.56	1/2	636.64	1/2	888.86	1/2	1,141.80	1/2	1,395.50	1/2	1,649.26	1/2	1,903.02	1/2	2,156.70	1/2	2,409.85	1/2	
3/4	160.95	3/4	389.85	3/4	641.86	3/4	894.14	3/4	1,147.09	3/4	1,400.78	3/4	1,654.55	3/4	1,908.31	3/4	2,161.98	3/4	2,415.10	3/4	
10	165.29	10	395.14	10	647.09	10	899.43	10	1,152.38	10	1,406.07	10	1,659.83	10	1,913.59	10	2,167.27	10	2,420.34	10	
1/4	169.50	1/4	400.43	1/4	652.31	1/4	904.72	1/4	1,157.67	1/4	1,411.36	1/4	1,665.12	1/4	1,918.87	1/4	2,172.55	1/4	2,425.59	1/4	
1/2	173.72	1/2	405.71	1/2	657.54	1/2	910.01	1/2	1,162.95	1/2	1,416.64	1/2	1,670.41	1/2	1,924.16	1/2	2,177.84	1/2	2,430.83	1/2	
3/4	177.93	3/4	411.00	3/4	662.76	3/4	915.30	3/4	1,168.24	3/4	1,421.93	3/4	1,675.69	3/4	1,929.44	3/4	2,183.12	3/4	2,436.08	3/4	
11	182.14	11	416.29	11	667.98	11	920.59	11	1,173.53	11	1,427.22	11	1,680.98	11	1,934.72	11	2,188.41	11	2,441.33	11	
1/4	186.44	1/4	421.58	1/4	673.21	1/4	925.87	1/4	1,178.81	1/4	1,432.50	1/4	1,686.27	1/4	1,940.00	1/4	2,193.70	1/4	2,446.57	1/4	
1/2	190.74	1/2	426.86	1/2	678.43	1/2	931.16	1/2	1,184.10	1/2	1,437.79	1/2	1,691.55	1/2	1,945.28	1/2	2,198.98	1/2	2,451.82	1/2	
3/4	195.04	3/4	432.15	3/4	683.66	3/4	936.45	3/4	1,189.39	3/4	1,443.08	3/4	1,696.84	3/4	1,950.56	3/4	2,204.27	3/4	2,457.06	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 30'-00" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW
CALCULATED: 05/10/2013 CL
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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http://www.pmacorp.net

BARGE "MM 93"
MAGNOLIA BARGE

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0	14.89	0	199.60	0	437.97	0	690.90	0	944.70	0	1,197.90	0	1,451.85	0	1,705.88	0	1,959.85	0	2,213.82	0	2,466.84
1/4	17.51	1/4	204.00	1/4	443.27	1/4	696.17	1/4	949.96	1/4	1,203.19	1/4	1,457.14	1/4	1,711.17	1/4	1,965.14	1/4	2,219.11	1/4	2,472.09
1/2	20.14	1/2	208.39	1/2	448.56	1/2	701.43	1/2	955.21	1/2	1,208.48	1/2	1,462.43	1/2	1,716.46	1/2	1,970.43	1/2	2,224.41	1/2	2,477.34
3/4	22.76	3/4	212.79	3/4	453.85	3/4	706.69	3/4	960.47	3/4	1,213.77	3/4	1,467.73	3/4	1,721.75	3/4	1,975.72	3/4	2,229.70	3/4	2,482.59
1	25.39	1	217.18	1	459.15	1	711.96	1	965.73	1	1,219.06	1	1,473.02	1	1,727.04	1	1,981.01	1	2,234.99	1	2,487.84
1/4	28.81	1/4	221.66	1/4	464.44	1/4	717.23	1/4	970.99	1/4	1,224.36	1/4	1,478.31	1/4	1,732.34	1/4	1,986.30	1/4	2,240.28	1/4	2,493.09
1/2	32.23	1/2	226.14	1/2	469.73	1/2	722.50	1/2	976.25	1/2	1,229.65	1/2	1,483.60	1/2	1,737.63	1/2	1,991.59	1/2	2,245.57	1/2	2,498.35
3/4	35.66	3/4	230.62	3/4	475.03	3/4	727.77	3/4	981.51	3/4	1,234.94	3/4	1,488.89	3/4	1,742.92	3/4	1,996.88	3/4	2,250.86	3/4	2,503.60
2	39.08	2	235.09	2	480.32	2	733.04	2	986.77	2	1,240.23	2	1,494.19	2	1,748.21	2	2,002.18	2	2,256.15	2	2,508.85
1/4	42.62	1/4	239.65	1/4	485.61	1/4	738.32	1/4	992.02	1/4	1,245.52	1/4	1,499.48	1/4	1,753.50	1/4	2,007.47	1/4	2,261.44	1/4	2,514.10
1/2	46.15	1/2	244.21	1/2	490.90	1/2	743.59	1/2	997.28	1/2	1,250.80	1/2	1,504.77	1/2	1,758.80	1/2	2,012.76	1/2	2,266.74	1/2	2,519.35
3/4	49.68	3/4	248.77	3/4	496.20	3/4	748.86	3/4	1,002.53	3/4	1,256.08	3/4	1,510.06	3/4	1,764.09	3/4	2,018.05	3/4	2,272.03	3/4	2,524.60
3	53.22	3	253.33	3	501.49	3	754.13	3	1,007.79	3	1,261.37	3	1,515.36	3	1,769.38	3	2,023.34	3	2,277.32	3	2,529.85
1/4	56.84	1/4	258.17	1/4	506.75	1/4	759.42	1/4	1,013.04	1/4	1,266.65	1/4	1,520.65	1/4	1,774.67	1/4	2,028.63	1/4	2,282.61	1/4	2,535.10
1/2	60.47	1/2	263.01	1/2	512.02	1/2	764.72	1/2	1,018.30	1/2	1,271.93	1/2	1,525.94	1/2	1,779.97	1/2	2,033.92	1/2	2,287.90	1/2	2,540.35
3/4	64.09	3/4	267.86	3/4	517.28	3/4	770.01	3/4	1,023.55	3/4	1,277.22	3/4	1,531.23	3/4	1,785.26	3/4	2,039.21	3/4	2,293.19	3/4	2,545.61
4	67.71	4	272.70	4	522.54	4	775.30	4	1,028.81	4	1,282.50	4	1,536.52	4	1,790.55	4	2,044.51	4	2,298.48	4	2,550.86
1/4	71.43	1/4	277.62	1/4	527.80	1/4	780.60	1/4	1,034.07	1/4	1,287.79	1/4	1,541.82	1/4	1,795.84	1/4	2,049.80	1/4	2,303.77	1/4	2,556.11
1/2	75.14	1/2	282.54	1/2	533.06	1/2	785.89	1/2	1,039.33	1/2	1,293.08	1/2	1,547.11	1/2	1,801.13	1/2	2,055.09	1/2	2,309.07	1/2	2,561.36
3/4	78.86	3/4	287.47	3/4	538.32	3/4	791.19	3/4	1,044.58	3/4	1,298.38	3/4	1,552.40	3/4	1,806.43	3/4	2,060.38	3/4	2,314.36	3/4	2,566.61
5	82.58	5	292.39	5	543.58	5	796.48	5	1,049.84	5	1,303.67	5	1,557.69	5	1,811.72	5	2,065.67	5	2,319.65	5	2,571.86
1/4	86.48	1/4	297.40	1/4	548.84	1/4	801.77	1/4	1,055.10	1/4	1,308.96	1/4	1,562.99	1/4	1,817.01	1/4	2,070.96	1/4	2,324.94	1/4	2,576.71
1/2	90.39	1/2	302.40	1/2	554.10	1/2	807.07	1/2	1,060.36	1/2	1,314.25	1/2	1,568.28	1/2	1,822.30	1/2	2,076.25	1/2	2,330.23	1/2	2,581.56
3/4	94.29	3/4	307.41	3/4	559.36	3/4	812.36	3/4	1,065.62	3/4	1,319.54	3/4	1,573.57	3/4	1,827.60	3/4	2,081.54	3/4	2,335.52	3/4	2,586.41
6	98.20	6	312.41	6	564.62	6	817.65	6	1,070.88	6	1,324.84	6	1,578.86	6	1,832.89	6	2,086.83	6	2,340.81	6	2,591.26
1/4	102.28	1/4	317.50	1/4	569.88	1/4	822.95	1/4	1,076.17	1/4	1,330.13	1/4	1,584.15	1/4	1,838.18	1/4	2,092.13	1/4	2,346.06	1/4	2,595.23
1/2	106.36	1/2	322.59	1/2	575.14	1/2	828.24	1/2	1,081.46	1/2	1,335.42	1/2	1,589.45	1/2	1,843.47	1/2	2,097.42	1/2	2,351.31	1/2	2,599.20
3/4	110.44	3/4	327.68	3/4	580.40	3/4	833.53	3/4	1,086.75	3/4	1,340.71	3/4	1,594.74	3/4	1,848.76	3/4	2,102.71	3/4	2,356.57	3/4	2,603.17
7	114.52	7	332.77	7	585.66	7	838.83	7	1,092.05	7	1,346.01	7	1,600.03	7	1,854.06	7	2,108.00	7	2,361.82	7	2,607.14
1/4	118.69	1/4	337.94	1/4	590.92	1/4	844.12	1/4	1,097.34	1/4	1,351.30	1/4	1,605.32	1/4	1,859.35	1/4	2,113.29	1/4	2,367.07	1/4	2,610.22
1/2	122.85	1/2	343.11	1/2	596.18	1/2	849.41	1/2	1,102.63	1/2	1,356.59	1/2	1,610.62	1/2	1,864.64	1/2	2,118.58	1/2	2,372.32	1/2	
3/4	127.01	3/4	348.28	3/4	601.44	3/4	854.71	3/4	1,107.92	3/4	1,361.88	3/4	1,615.91	3/4	1,869.93	3/4	2,123.87	3/4	2,377.57	3/4	
8	131.18	8	353.45	8	606.70	8	860.00	8	1,113.22	8	1,367.17	8	1,621.20	8	1,875.23	8	2,129.16	8	2,382.82	8	
1/4	135.42	1/4	358.70	1/4	611.96	1/4	865.29	1/4	1,118.51	1/4	1,372.47	1/4	1,626.49	1/4	1,880.52	1/4	2,134.46	1/4	2,388.07	1/4	
1/2	139.67	1/2	363.95	1/2	617.22	1/2	870.59	1/2	1,123.80	1/2	1,377.76	1/2	1,631.78	1/2	1,885.81	1/2	2,139.75	1/2	2,393.32	1/2	
3/4	143.91	3/4	369.20	3/4	622.48	3/4	875.88	3/4	1,129.09	3/4	1,383.05	3/4	1,637.08	3/4	1,891.10	3/4	2,145.04	3/4	2,398.57	3/4	
9	148.16	9	374.45	9	627.74	9	881.17	9	1,134.39	9	1,388.34	9	1,642.37	9	1,896.39	9	2,150.33	9	2,403.83	9	
1/4	152.50	1/4	379.75	1/4	633.00	1/4	886.47	1/4	1,139.68	1/4	1,393.64	1/4	1,647.66	1/4	1,901.69	1/4	2,155.62	1/4	2,409.08	1/4	
1/2	156.84	1/2	385.04	1/2	638.26	1/2	891.76	1/2	1,144.97	1/2	1,398.93	1/2	1,652.95	1/2	1,906.98	1/2	2,160.91	1/2	2,414.33	1/2	
3/4	161.17	3/4	390.33	3/4	643.53	3/4	897.06	3/4	1,150.26	3/4	1,404.22	3/4	1,658.25	3/4	1,912.27	3/4	2,166.20	3/4	2,419.58	3/4	
10	165.51	10	395.63	10	648.79	10	902.35	10	1,155.56	10	1,409.51	10	1,663.54	10	1,917.56	10	2,171.49	10	2,424.83	10	
1/4	169.73	1/4	400.92	1/4	654.05	1/4	907.64	1/4	1,160.85	1/4	1,414.80	1/4	1,668.83	1/4	1,922.85	1/4	2,176.79	1/4	2,430.08	1/4	
1/2	173.95	1/2	406.21	1/2	659.32	1/2	912.94	1/2	1,166.14	1/2	1,420.10	1/2	1,674.12	1/2	1,928.13	1/2	2,182.08	1/2	2,435.33	1/2	
3/4	178.17	3/4	411.51	3/4	664.58	3/4	918.23	3/4	1,171.43	3/4	1,425.39	3/4	1,679.41	3/4	1,933.42	3/4	2,187.37	3/4	2,440.58	3/4	
11	182.39	11	416.80	11	669.85	11	923.52	11	1,176.73	11	1,430.68	11	1,684.71	11	1,938.70	11	2,192.66	11	2,445.83	11	
1/4	186.70	1/4	422.09	1/4	675.11	1/4	928.82	1/4	1,182.02	1/4	1,435.97	1/4	1,690.00	1/4	1,943.99	1/4	2,197.95	1/4	2,451.09	1/4	
1/2	191.00	1/2	427.39	1/2	680.37	1/2	934.11	1/2	1,187.31	1/2	1,441.27	1/2	1,695.29	1/2	1,949.27	1/2	2,203.24	1/2	2,456.34	1/2	
3/4	195.30	3/4	432.68	3/4	685.64	3/4	939.40	3/4	1,192.60	3/4	1,446.56	3/4	1,700.58	3/4	1,954.56	3/4	2,208.53	3/4	2,461.59	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "MM 93"
MAGNOLIA BARGE

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0	16.18	0	282.38	0	557.06	0	823.52	0	1,095.15	0	1,369.22	0	1,646.39	0	1,923.63	0	2,200.83	0	2,478.02	0	2,754.26
1/4	20.88	1/4	287.94	1/4	562.84	1/4	829.00	1/4	1,100.80	1/4	1,374.99	1/4	1,652.16	1/4	1,929.41	1/4	2,206.60	1/4	2,483.80	1/4	2,759.99
1/2	25.58	1/2	293.50	1/2	568.62	1/2	834.48	1/2	1,106.44	1/2	1,380.77	1/2	1,657.94	1/2	1,935.18	1/2	2,212.38	1/2	2,489.57	1/2	2,765.73
3/4	30.28	3/4	299.06	3/4	574.39	3/4	839.95	3/4	1,112.08	3/4	1,386.54	3/4	1,663.72	3/4	1,940.96	3/4	2,218.15	3/4	2,495.35	3/4	2,771.46
1	34.99	1	304.62	1	580.17	1	845.43	1	1,117.73	1	1,392.32	1	1,669.49	1	1,946.74	1	2,223.93	1	2,501.12	1	2,777.20
1/4	40.47	1/4	310.17	1/4	585.95	1/4	850.92	1/4	1,123.37	1/4	1,398.10	1/4	1,675.27	1/4	1,952.51	1/4	2,229.70	1/4	2,506.90	1/4	2,782.93
1/2	45.96	1/2	315.73	1/2	591.72	1/2	856.40	1/2	1,129.02	1/2	1,403.87	1/2	1,681.04	1/2	1,958.29	1/2	2,235.48	1/2	2,512.67	1/2	2,788.67
3/4	51.44	3/4	321.29	3/4	597.50	3/4	861.89	3/4	1,134.66	3/4	1,409.65	3/4	1,686.82	3/4	1,964.06	3/4	2,241.25	3/4	2,518.45	3/4	2,794.40
2	56.93	2	326.85	2	603.28	2	867.38	2	1,140.31	2	1,415.42	2	1,692.60	2	1,969.84	2	2,247.03	2	2,524.22	2	2,800.14
1/4	62.44	1/4	332.41	1/4	609.05	1/4	872.86	1/4	1,145.95	1/4	1,421.19	1/4	1,698.37	1/4	1,975.62	1/4	2,252.80	1/4	2,530.00	1/4	2,805.87
1/2	67.96	1/2	337.97	1/2	614.83	1/2	878.35	1/2	1,151.59	1/2	1,426.96	1/2	1,704.15	1/2	1,981.39	1/2	2,258.58	1/2	2,535.77	1/2	2,811.61
3/4	73.48	3/4	343.53	3/4	620.61	3/4	883.84	3/4	1,157.23	3/4	1,432.72	3/4	1,709.92	3/4	1,987.17	3/4	2,264.35	3/4	2,541.55	3/4	2,817.34
3	78.99	3	349.09	3	626.39	3	889.32	3	1,162.87	3	1,438.49	3	1,715.70	3	1,992.94	3	2,270.13	3	2,547.32	3	2,823.08
1/4	84.52	1/4	354.87	1/4	631.86	1/4	894.83	1/4	1,168.51	1/4	1,444.26	1/4	1,721.48	1/4	1,998.72	1/4	2,275.90	1/4	2,553.10	1/4	2,828.81
1/2	90.04	1/2	360.64	1/2	637.34	1/2	900.34	1/2	1,174.15	1/2	1,450.03	1/2	1,727.25	1/2	2,004.49	1/2	2,281.68	1/2	2,558.87	1/2	2,834.55
3/4	95.57	3/4	366.42	3/4	642.81	3/4	905.85	3/4	1,179.79	3/4	1,455.79	3/4	1,733.03	3/4	2,010.27	3/4	2,287.45	3/4	2,564.65	3/4	2,840.28
4	101.09	4	372.20	4	648.29	4	911.35	4	1,185.43	4	1,461.56	4	1,738.80	4	2,016.05	4	2,293.23	4	2,570.42	4	2,846.02
1/4	106.63	1/4	377.97	1/4	653.76	1/4	916.86	1/4	1,191.08	1/4	1,467.34	1/4	1,744.58	1/4	2,021.82	1/4	2,299.00	1/4	2,576.20	1/4	2,851.75
1/2	112.16	1/2	383.75	1/2	659.24	1/2	922.37	1/2	1,196.72	1/2	1,473.11	1/2	1,750.35	1/2	2,027.60	1/2	2,304.77	1/2	2,581.97	1/2	2,857.49
3/4	117.70	3/4	389.53	3/4	664.71	3/4	927.88	3/4	1,202.37	3/4	1,478.89	3/4	1,756.13	3/4	2,033.37	3/4	2,310.55	3/4	2,587.75	3/4	2,863.22
5	123.24	5	395.31	5	670.19	5	933.39	5	1,208.01	5	1,484.66	5	1,761.91	5	2,039.15	5	2,316.32	5	2,593.52	5	2,868.96
1/4	128.89	1/4	401.08	1/4	675.66	1/4	939.16	1/4	1,213.66	1/4	1,490.44	1/4	1,767.68	1/4	2,044.93	1/4	2,322.10	1/4	2,599.29	1/4	2,874.25
1/2	134.54	1/2	406.86	1/2	681.14	1/2	944.94	1/2	1,219.30	1/2	1,496.22	1/2	1,773.46	1/2	2,050.70	1/2	2,327.87	1/2	2,605.07	1/2	2,879.55
3/4	140.20	3/4	412.64	3/4	686.61	3/4	950.72	3/4	1,224.94	3/4	1,501.99	3/4	1,779.23	3/4	2,056.48	3/4	2,333.65	3/4	2,610.84	3/4	2,884.84
6	145.85	6	418.41	6	692.09	6	956.50	6	1,230.59	6	1,507.77	6	1,785.01	6	2,062.25	6	2,339.42	6	2,616.62	6	2,890.13
1/4	151.61	1/4	424.19	1/4	697.56	1/4	962.27	1/4	1,236.36	1/4	1,513.54	1/4	1,790.79	1/4	2,068.03	1/4	2,345.20	1/4	2,622.35	1/4	2,894.47
1/2	157.36	1/2	429.97	1/2	703.04	1/2	968.05	1/2	1,242.14	1/2	1,519.32	1/2	1,796.56	1/2	2,073.81	1/2	2,350.97	1/2	2,628.09	1/2	2,898.80
3/4	163.12	3/4	435.74	3/4	708.51	3/4	973.83	3/4	1,247.92	3/4	1,525.09	3/4	1,802.34	3/4	2,079.58	3/4	2,356.75	3/4	2,633.82	3/4	2,903.13
7	168.87	7	441.52	7	713.99	7	979.61	7	1,253.69	7	1,530.87	7	1,808.11	7	2,085.36	7	2,362.52	7	2,639.56	7	2,907.46
1/4	174.63	1/4	447.30	1/4	719.46	1/4	985.38	1/4	1,259.47	1/4	1,536.65	1/4	1,813.89	1/4	2,091.13	1/4	2,368.30	1/4	2,645.29	1/4	2,910.83
1/2	180.39	1/2	453.08	1/2	724.93	1/2	991.16	1/2	1,265.25	1/2	1,542.42	1/2	1,819.67	1/2	2,096.91	1/2	2,374.07	1/2	2,651.03	1/2	
3/4	186.14	3/4	458.85	3/4	730.41	3/4	996.94	3/4	1,271.02	3/4	1,548.20	3/4	1,825.44	3/4	2,102.68	3/4	2,379.85	3/4	2,656.76	3/4	
8	191.90	8	464.63	8	735.88	8	1,002.71	8	1,276.80	8	1,553.97	8	1,831.22	8	2,108.46	8	2,385.62	8	2,662.50	8	
1/4	197.66	1/4	470.41	1/4	741.36	1/4	1,008.49	1/4	1,282.57	1/4	1,559.75	1/4	1,836.99	1/4	2,114.24	1/4	2,391.40	1/4	2,668.23	1/4	
1/2	203.41	1/2	476.18	1/2	746.83	1/2	1,014.27	1/2	1,288.35	1/2	1,565.53	1/2	1,842.77	1/2	2,120.01	1/2	2,397.17	1/2	2,673.97	1/2	
3/4	209.17	3/4	481.96	3/4	752.31	3/4	1,020.05	3/4	1,294.13	3/4	1,571.30	3/4	1,848.55	3/4	2,125.79	3/4	2,402.95	3/4	2,679.70	3/4	
9	214.92	9	487.74	9	757.78	9	1,025.82	9	1,299.90	9	1,577.08	9	1,854.32	9	2,131.56	9	2,408.72	9	2,685.44	9	
1/4	220.69	1/4	493.51	1/4	763.26	1/4	1,031.60	1/4	1,305.68	1/4	1,582.85	1/4	1,860.10	1/4	2,137.34	1/4	2,414.50	1/4	2,691.17	1/4	
1/2	226.46	1/2	499.29	1/2	768.74	1/2	1,037.38	1/2	1,311.45	1/2	1,588.63	1/2	1,865.87	1/2	2,143.12	1/2	2,420.27	1/2	2,696.91	1/2	
3/4	232.22	3/4	505.07	3/4	774.21	3/4	1,043.16	3/4	1,317.23	3/4	1,594.41	3/4	1,871.65	3/4	2,148.89	3/4	2,426.05	3/4	2,702.64	3/4	
10	237.99	10	510.85	10	779.69	10	1,048.93	10	1,323.01	10	1,600.18	10	1,877.42	10	2,154.67	10	2,431.82	10	2,708.38	10	
1/4	243.54	1/4	516.62	1/4	785.17	1/4	1,054.71	1/4	1,328.78	1/4	1,605.96	1/4	1,883.20	1/4	2,160.44	1/4	2,437.60	1/4	2,714.11	1/4	
1/2	249.09	1/2	522.40	1/2	790.65	1/2	1,060.49	1/2	1,334.56	1/2	1,611.73	1/2	1,888.98	1/2	2,166.21	1/2	2,443.37	1/2	2,719.85	1/2	
3/4	254.64	3/4	528.18	3/4	796.12	3/4	1,066.26	3/4	1,340.33	3/4	1,617.51	3/4	1,894.75	3/4	2,171.98	3/4	2,449.15	3/4	2,725.58	3/4	
11	260.18	11	533.95	11	801.60	11	1,072.04	11	1,346.11	11	1,623.29	11	1,900.53	11	2,177.75	11	2,454.92	11	2,731.32	11	
1/4	265.73	1/4	539.73	1/4	807.08	1/4	1,077.82	1/4	1,351.89	1/4	1,629.06	1/4	1,906.30	1/4	2,183.52	1/4	2,460.70	1/4	2,737.05	1/4	
1/2	271.28	1/2	545.51	1/2	812.56	1/2	1,083.60	1/2	1,357.66	1/2	1,634.84	1/2	1,912.08	1/2	2,189.29	1/2	2,466.47	1/2	2,742.79	1/2	
3/4	276.83	3/4	551.28	3/4	818.04	3/4	1,089.37	3/4	1,363.44	3/4	1,640.61	3/4	1,917.86	3/4	2,195.06	3/4	2,472.25	3/4	2,748.52	3/4	

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MAGNOLIA BARGE

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 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.	IN	10 FT.
0	16.18	0	282.47	0	557.24	0	833.47	0	1,110.57	0	1,384.72	0	1,661.98	0	1,939.31	0	2,216.60	0	2,493.88	0	2,770.20
1/4	20.89	1/4	288.03	1/4	563.02	1/4	839.22	1/4	1,116.22	1/4	1,390.50	1/4	1,667.76	1/4	1,945.09	1/4	2,222.37	1/4	2,499.65	1/4	2,775.94
1/2	25.59	1/2	293.59	1/2	568.80	1/2	844.97	1/2	1,121.87	1/2	1,396.28	1/2	1,673.54	1/2	1,950.87	1/2	2,228.15	1/2	2,505.43	1/2	2,781.67
3/4	30.29	3/4	299.15	3/4	574.57	3/4	850.72	3/4	1,127.51	3/4	1,402.06	3/4	1,679.32	3/4	1,956.65	3/4	2,233.93	3/4	2,511.21	3/4	2,787.41
1	35.00	1	304.71	1	580.35	1	856.47	1	1,133.16	1	1,407.84	1	1,685.10	1	1,962.43	1	2,239.70	1	2,516.98	1	2,793.15
1/4	40.48	1/4	310.27	1/4	586.13	1/4	862.23	1/4	1,138.81	1/4	1,413.61	1/4	1,690.87	1/4	1,968.20	1/4	2,245.48	1/4	2,522.76	1/4	2,798.89
1/2	45.97	1/2	315.84	1/2	591.91	1/2	867.98	1/2	1,144.45	1/2	1,419.39	1/2	1,696.65	1/2	1,973.98	1/2	2,251.26	1/2	2,528.54	1/2	2,804.62
3/4	51.46	3/4	321.40	3/4	597.69	3/4	873.74	3/4	1,150.10	3/4	1,425.17	3/4	1,702.43	3/4	1,979.76	3/4	2,257.03	3/4	2,534.31	3/4	2,810.36
2	56.95	2	326.96	2	603.47	2	879.50	2	1,155.74	2	1,430.95	2	1,708.21	2	1,985.54	2	2,262.81	2	2,540.09	2	2,816.10
1/4	62.46	1/4	332.52	1/4	609.25	1/4	885.26	1/4	1,161.39	1/4	1,436.72	1/4	1,713.98	1/4	1,991.31	1/4	2,268.59	1/4	2,545.87	1/4	2,821.83
1/2	67.98	1/2	338.08	1/2	615.03	1/2	891.01	1/2	1,167.03	1/2	1,442.49	1/2	1,719.76	1/2	1,997.09	1/2	2,274.36	1/2	2,551.64	1/2	2,827.57
3/4	73.50	3/4	343.64	3/4	620.80	3/4	896.77	3/4	1,172.67	3/4	1,448.25	3/4	1,725.54	3/4	2,002.87	3/4	2,280.14	3/4	2,557.42	3/4	2,833.31
3	79.02	3	349.20	3	626.58	3	902.53	3	1,178.32	3	1,454.02	3	1,731.32	3	2,008.65	3	2,285.92	3	2,563.20	3	2,839.04
1/4	84.55	1/4	354.98	1/4	632.33	1/4	908.31	1/4	1,183.96	1/4	1,459.79	1/4	1,737.09	1/4	2,014.42	1/4	2,291.69	1/4	2,568.97	1/4	2,844.78
1/2	90.07	1/2	360.76	1/2	638.08	1/2	914.08	1/2	1,189.60	1/2	1,465.56	1/2	1,742.87	1/2	2,020.20	1/2	2,297.47	1/2	2,574.75	1/2	2,850.52
3/4	95.60	3/4	366.54	3/4	643.83	3/4	919.86	3/4	1,195.24	3/4	1,471.33	3/4	1,748.65	3/4	2,025.98	3/4	2,303.25	3/4	2,580.53	3/4	2,856.25
4	101.13	4	372.32	4	649.57	4	925.64	4	1,200.89	4	1,477.10	4	1,754.43	4	2,031.76	4	2,309.02	4	2,586.30	4	2,861.99
1/4	106.66	1/4	378.10	1/4	655.32	1/4	931.42	1/4	1,206.53	1/4	1,482.88	1/4	1,760.21	1/4	2,037.54	1/4	2,314.80	1/4	2,592.08	1/4	2,867.73
1/2	112.20	1/2	383.87	1/2	661.06	1/2	937.20	1/2	1,212.18	1/2	1,488.65	1/2	1,765.98	1/2	2,043.31	1/2	2,320.58	1/2	2,597.86	1/2	2,873.46
3/4	117.74	3/4	389.65	3/4	666.81	3/4	942.98	3/4	1,217.82	3/4	1,494.43	3/4	1,771.76	3/4	2,049.09	3/4	2,326.35	3/4	2,603.63	3/4	2,879.20
5	123.28	5	395.43	5	672.55	5	948.76	5	1,223.47	5	1,500.21	5	1,777.54	5	2,054.87	5	2,332.13	5	2,609.41	5	2,884.94
1/4	128.93	1/4	401.21	1/4	678.30	1/4	954.54	1/4	1,229.12	1/4	1,505.99	1/4	1,783.32	1/4	2,060.65	1/4	2,337.91	1/4	2,615.19	1/4	2,890.23
1/2	134.59	1/2	406.99	1/2	684.05	1/2	960.32	1/2	1,234.76	1/2	1,511.76	1/2	1,789.09	1/2	2,066.42	1/2	2,343.68	1/2	2,620.96	1/2	2,895.53
3/4	140.24	3/4	412.77	3/4	689.79	3/4	966.10	3/4	1,240.41	3/4	1,517.54	3/4	1,794.87	3/4	2,072.20	3/4	2,349.46	3/4	2,626.74	3/4	2,900.83
6	145.90	6	418.55	6	695.54	6	971.88	6	1,246.06	6	1,523.32	6	1,800.65	6	2,077.98	6	2,355.24	6	2,632.52	6	2,906.12
1/4	151.65	1/4	424.33	1/4	701.28	1/4	977.66	1/4	1,251.83	1/4	1,529.10	1/4	1,806.43	1/4	2,083.76	1/4	2,361.01	1/4	2,638.25	1/4	2,910.46
1/2	157.41	1/2	430.10	1/2	707.03	1/2	983.43	1/2	1,257.61	1/2	1,534.88	1/2	1,812.20	1/2	2,089.53	1/2	2,366.79	1/2	2,643.99	1/2	2,914.79
3/4	163.17	3/4	435.88	3/4	712.77	3/4	989.21	3/4	1,263.39	3/4	1,540.65	3/4	1,817.98	3/4	2,095.31	3/4	2,372.57	3/4	2,649.73	3/4	2,919.12
7	168.93	7	441.66	7	718.52	7	994.99	7	1,269.17	7	1,546.43	7	1,823.76	7	2,101.09	7	2,378.34	7	2,655.47	7	2,923.46
1/4	174.69	1/4	447.44	1/4	724.27	1/4	1,000.77	1/4	1,274.94	1/4	1,552.21	1/4	1,829.54	1/4	2,106.87	1/4	2,384.12	1/4	2,661.20	1/4	2,926.82
1/2	180.44	1/2	453.22	1/2	730.01	1/2	1,006.55	1/2	1,280.72	1/2	1,557.99	1/2	1,835.32	1/2	2,112.65	1/2	2,389.90	1/2	2,666.94	1/2	
3/4	186.20	3/4	459.00	3/4	735.76	3/4	1,012.33	3/4	1,286.50	3/4	1,563.76	3/4	1,841.09	3/4	2,118.42	3/4	2,395.67	3/4	2,672.68	3/4	
8	191.96	8	464.78	8	741.50	8	1,018.11	8	1,292.28	8	1,569.54	8	1,846.87	8	2,124.20	8	2,401.45	8	2,678.41	8	
1/4	197.72	1/4	470.56	1/4	747.25	1/4	1,023.89	1/4	1,298.06	1/4	1,575.32	1/4	1,852.65	1/4	2,129.98	1/4	2,407.23	1/4	2,684.15	1/4	
1/2	203.48	1/2	476.33	1/2	752.99	1/2	1,029.67	1/2	1,303.83	1/2	1,581.10	1/2	1,858.43	1/2	2,135.76	1/2	2,413.00	1/2	2,689.89	1/2	
3/4	209.23	3/4	482.11	3/4	758.74	3/4	1,035.45	3/4	1,309.61	3/4	1,586.87	3/4	1,864.20	3/4	2,141.53	3/4	2,418.78	3/4	2,695.62	3/4	
9	214.99	9	487.89	9	764.48	9	1,041.23	9	1,315.39	9	1,592.65	9	1,869.98	9	2,147.31	9	2,424.56	9	2,701.36	9	
1/4	220.76	1/4	493.67	1/4	770.23	1/4	1,047.00	1/4	1,321.17	1/4	1,598.43	1/4	1,875.76	1/4	2,153.09	1/4	2,430.33	1/4	2,707.10	1/4	
1/2	226.53	1/2	499.45	1/2	775.98	1/2	1,052.78	1/2	1,326.95	1/2	1,604.21	1/2	1,881.54	1/2	2,158.87	1/2	2,436.11	1/2	2,712.83	1/2	
3/4	232.30	3/4	505.23	3/4	781.73	3/4	1,058.56	3/4	1,332.72	3/4	1,609.99	3/4	1,887.32	3/4	2,164.64	3/4	2,441.89	3/4	2,718.57	3/4	
10	238.07	10	511.01	10	787.47	10	1,064.34	10	1,338.50	10	1,615.76	10	1,893.09	10	2,170.42	10	2,447.66	10	2,724.31	10	
1/4	243.62	1/4	516.79	1/4	793.22	1/4	1,070.12	1/4	1,344.28	1/4	1,621.54	1/4	1,898.87	1/4	2,176.19	1/4	2,453.44	1/4	2,730.04	1/4	
1/2	249.17	1/2	522.57	1/2	798.97	1/2	1,075.90	1/2	1,350.06	1/2	1,627.32	1/2	1,904.65	1/2	2,181.97	1/2	2,459.22	1/2	2,735.78	1/2	
3/4	254.72	3/4	528.34	3/4	804.72	3/4	1,081.68	3/4	1,355.84	3/4	1,633.10	3/4	1,910.43	3/4	2,187.74	3/4	2,464.99	3/4	2,741.52	3/4	
11	260.27	11	534.12	11	810.47	11	1,087.46	11	1,361.61	11	1,638.87	11	1,916.20	11	2,193.51	11	2,470.77	11	2,747.25	11	
1/4	265.82	1/4	539.90	1/4	816.22	1/4	1,093.24	1/4	1,367.39	1/4	1,644.65	1/4	1,921.98	1/4	2,199.28	1/4	2,476.55	1/4	2,752.99	1/4	
1/2	271.37	1/2	545.68	1/2	821.97	1/2	1,099.02	1/2	1,373.17	1/2	1,650.43	1/2	1,927.76	1/2	2,205.05	1/2	2,482.32	1/2	2,758.73	1/2	
3/4	276.92	3/4	551.46	3/4	827.72	3/4	1,104.80	3/4	1,378.95	3/4	1,656.21	3/4	1,933.54	3/4	2,210.82	3/4	2,488.10	3/4	2,764.46	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 32'-06" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 34'-06" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW
CALCULATED: 05/10/2013 CL
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013

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

BARGE "MM 93"
MAGNOLIA BARGE

3 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0	15.96	0	278.30	0	549.01	0	811.47	0	1,079.10	0	1,349.16	0	1,622.34	0	1,895.58	0	2,168.77	0	2,441.97	0	2,714.20
1/4	20.59	1/4	283.78	1/4	554.70	1/4	816.86	1/4	1,084.66	1/4	1,354.86	1/4	1,628.03	1/4	1,901.27	1/4	2,174.46	1/4	2,447.66	1/4	2,719.85
1/2	25.22	1/2	289.25	1/2	560.40	1/2	822.26	1/2	1,090.22	1/2	1,360.55	1/2	1,633.72	1/2	1,906.97	1/2	2,180.16	1/2	2,453.35	1/2	2,725.51
3/4	29.86	3/4	294.73	3/4	566.09	3/4	827.65	3/4	1,095.78	3/4	1,366.24	3/4	1,639.41	3/4	1,912.66	3/4	2,185.85	3/4	2,459.04	3/4	2,731.16
1	34.49	1	300.21	1	571.78	1	833.05	1	1,101.34	1	1,371.94	1	1,645.11	1	1,918.35	1	2,191.54	1	2,464.74	1	2,736.81
1/4	39.90	1/4	305.69	1/4	577.48	1/4	838.45	1/4	1,106.90	1/4	1,377.63	1/4	1,650.80	1/4	1,924.04	1/4	2,197.23	1/4	2,470.43	1/4	2,742.46
1/2	45.30	1/2	311.17	1/2	583.17	1/2	843.85	1/2	1,112.47	1/2	1,383.32	1/2	1,656.49	1/2	1,929.74	1/2	2,202.92	1/2	2,476.12	1/2	2,748.11
3/4	50.71	3/4	316.65	3/4	588.86	3/4	849.26	3/4	1,118.03	3/4	1,389.01	3/4	1,662.19	3/4	1,935.43	3/4	2,208.61	3/4	2,481.81	3/4	2,753.76
2	56.12	2	322.13	2	594.56	2	854.66	2	1,123.59	2	1,394.71	2	1,667.88	2	1,941.12	2	2,214.30	2	2,487.50	2	2,759.42
1/4	61.55	1/4	327.60	1/4	600.25	1/4	860.06	1/4	1,129.15	1/4	1,400.39	1/4	1,673.57	1/4	1,946.82	1/4	2,220.00	1/4	2,493.19	1/4	2,765.07
1/2	66.99	1/2	333.08	1/2	605.95	1/2	865.47	1/2	1,134.70	1/2	1,406.07	1/2	1,679.26	1/2	1,952.51	1/2	2,225.69	1/2	2,498.88	1/2	2,770.72
3/4	72.43	3/4	338.56	3/4	611.64	3/4	870.87	3/4	1,140.26	3/4	1,411.76	3/4	1,684.96	3/4	1,958.20	3/4	2,231.38	3/4	2,504.58	3/4	2,776.37
3	77.86	3	344.04	3	617.33	3	876.27	3	1,145.82	3	1,417.44	3	1,690.65	3	1,963.89	3	2,237.07	3	2,510.27	3	2,782.02
1/4	83.31	1/4	349.73	1/4	622.73	1/4	881.70	1/4	1,151.38	1/4	1,423.12	1/4	1,696.34	1/4	1,969.59	1/4	2,242.76	1/4	2,515.96	1/4	2,787.67
1/2	88.75	1/2	355.43	1/2	628.12	1/2	887.12	1/2	1,156.93	1/2	1,428.81	1/2	1,702.03	1/2	1,975.28	1/2	2,248.45	1/2	2,521.65	1/2	2,793.32
3/4	94.19	3/4	361.12	3/4	633.51	3/4	892.55	3/4	1,162.49	3/4	1,434.49	3/4	1,707.73	3/4	1,980.97	3/4	2,254.15	3/4	2,527.34	3/4	2,798.98
4	99.64	4	366.81	4	638.91	4	897.97	4	1,168.05	4	1,440.17	4	1,713.42	4	1,986.66	4	2,259.84	4	2,533.03	4	2,804.63
1/4	105.09	1/4	372.51	1/4	644.30	1/4	903.39	1/4	1,173.61	1/4	1,445.87	1/4	1,719.11	1/4	1,992.36	1/4	2,265.53	1/4	2,538.73	1/4	2,810.28
1/2	110.55	1/2	378.20	1/2	649.69	1/2	908.82	1/2	1,179.17	1/2	1,451.56	1/2	1,724.80	1/2	1,998.05	1/2	2,271.22	1/2	2,544.42	1/2	2,815.93
3/4	116.01	3/4	383.89	3/4	655.08	3/4	914.24	3/4	1,184.73	3/4	1,457.25	3/4	1,730.50	3/4	2,003.74	3/4	2,276.91	3/4	2,550.11	3/4	2,821.58
5	121.46	5	389.59	5	660.47	5	919.67	5	1,190.29	5	1,462.94	5	1,736.19	5	2,009.43	5	2,282.60	5	2,555.80	5	2,827.23
1/4	127.03	1/4	395.28	1/4	665.86	1/4	925.36	1/4	1,195.85	1/4	1,468.64	1/4	1,741.88	1/4	2,015.13	1/4	2,288.30	1/4	2,561.49	1/4	2,832.45
1/2	132.60	1/2	400.98	1/2	671.25	1/2	931.06	1/2	1,201.41	1/2	1,474.33	1/2	1,747.57	1/2	2,020.82	1/2	2,293.99	1/2	2,567.18	1/2	2,837.67
3/4	138.18	3/4	406.67	3/4	676.65	3/4	936.75	3/4	1,206.98	3/4	1,480.02	3/4	1,753.27	3/4	2,026.51	3/4	2,299.68	3/4	2,572.88	3/4	2,842.89
6	143.75	6	412.36	6	682.04	6	942.44	6	1,212.54	6	1,485.71	6	1,758.96	6	2,032.20	6	2,305.37	6	2,578.57	6	2,848.11
1/4	149.42	1/4	418.06	1/4	687.43	1/4	948.14	1/4	1,218.23	1/4	1,491.41	1/4	1,764.65	1/4	2,037.90	1/4	2,311.06	1/4	2,584.22	1/4	2,852.38
1/2	155.09	1/2	423.75	1/2	692.82	1/2	953.83	1/2	1,223.92	1/2	1,497.10	1/2	1,770.34	1/2	2,043.59	1/2	2,316.75	1/2	2,589.87	1/2	2,856.65
3/4	160.76	3/4	429.44	3/4	698.21	3/4	959.53	3/4	1,229.62	3/4	1,502.79	3/4	1,776.04	3/4	2,049.28	3/4	2,322.45	3/4	2,595.52	3/4	2,860.91
7	166.44	7	435.14	7	703.60	7	965.22	7	1,235.31	7	1,508.48	7	1,781.73	7	2,054.97	7	2,328.14	7	2,601.17	7	2,865.18
1/4	172.11	1/4	440.83	1/4	708.99	1/4	970.91	1/4	1,241.00	1/4	1,514.18	1/4	1,787.42	1/4	2,060.67	1/4	2,333.83	1/4	2,606.82	1/4	2,868.50
1/2	177.78	1/2	446.52	1/2	714.38	1/2	976.61	1/2	1,246.69	1/2	1,519.87	1/2	1,793.11	1/2	2,066.36	1/2	2,339.52	1/2	2,612.48	1/2	
3/4	183.46	3/4	452.22	3/4	719.78	3/4	982.30	3/4	1,252.39	3/4	1,525.56	3/4	1,798.81	3/4	2,072.05	3/4	2,345.21	3/4	2,618.13	3/4	
8	189.13	8	457.91	8	725.17	8	988.00	8	1,258.08	8	1,531.26	8	1,804.50	8	2,077.74	8	2,350.90	8	2,623.78	8	
1/4	194.80	1/4	463.61	1/4	730.56	1/4	993.69	1/4	1,263.77	1/4	1,536.95	1/4	1,810.19	1/4	2,083.44	1/4	2,356.59	1/4	2,629.43	1/4	
1/2	200.47	1/2	469.30	1/2	735.95	1/2	999.38	1/2	1,269.46	1/2	1,542.64	1/2	1,815.89	1/2	2,089.13	1/2	2,362.29	1/2	2,635.08	1/2	
3/4	206.15	3/4	474.99	3/4	741.34	3/4	1,005.08	3/4	1,275.16	3/4	1,548.33	3/4	1,821.58	3/4	2,094.82	3/4	2,367.98	3/4	2,640.73	3/4	
9	211.82	9	480.69	9	746.73	9	1,010.77	9	1,280.85	9	1,554.03	9	1,827.27	9	2,100.52	9	2,373.67	9	2,646.39	9	
1/4	217.50	1/4	486.38	1/4	752.13	1/4	1,016.47	1/4	1,286.54	1/4	1,559.72	1/4	1,832.96	1/4	2,106.21	1/4	2,379.36	1/4	2,652.04	1/4	
1/2	223.19	1/2	492.07	1/2	757.52	1/2	1,022.16	1/2	1,292.24	1/2	1,565.41	1/2	1,838.66	1/2	2,111.90	1/2	2,385.05	1/2	2,657.69	1/2	
3/4	228.87	3/4	497.77	3/4	762.91	3/4	1,027.85	3/4	1,297.93	3/4	1,571.10	3/4	1,844.35	3/4	2,117.59	3/4	2,390.74	3/4	2,663.34	3/4	
10	234.55	10	503.46	10	768.30	10	1,033.55	10	1,303.62	10	1,576.80	10	1,850.04	10	2,123.29	10	2,396.44	10	2,668.99	10	
1/4	240.02	1/4	509.15	1/4	773.70	1/4	1,039.24	1/4	1,309.31	1/4	1,582.49	1/4	1,855.73	1/4	2,128.97	1/4	2,402.13	1/4	2,674.64	1/4	
1/2	245.49	1/2	514.85	1/2	779.10	1/2	1,044.94	1/2	1,315.01	1/2	1,588.18	1/2	1,861.43	1/2	2,134.66	1/2	2,407.82	1/2	2,680.29	1/2	
3/4	250.96	3/4	520.54	3/4	784.49	3/4	1,050.63	3/4	1,320.70	3/4	1,593.87	3/4	1,867.12	3/4	2,140.34	3/4	2,413.51	3/4	2,685.95	3/4	
11	256.42	11	526.23	11	789.89	11	1,056.32	11	1,326.39	11	1,599.57	11	1,872.81	11	2,146.03	11	2,419.20	11	2,691.60	11	
1/4	261.89	1/4	531.93	1/4	795.28	1/4	1,062.02	1/4	1,332.09	1/4	1,605.26	1/4	1,878.50	1/4	2,151.71	1/4	2,424.89	1/4	2,697.25	1/4	
1/2	267.36	1/2	537.62	1/2	800.68	1/2	1,067.71	1/2	1,337.78	1/2	1,610.95	1/2	1,884.20	1/2	2,157.40	1/2	2,430.59	1/2	2,702.90	1/2	
3/4	272.83	3/4	543.32	3/4	806.07	3/4	1,073.40	3/4	1,343.47	3/4	1,616.64	3/4	1,889.89	3/4	2,163.09	3/4	2,436.28	3/4	2,708.55	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 33'-06" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 35'-06" FORWARD OF AFT BULKHEAD

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Pearland, Texas 77588
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BARGE "MM 93"
MAGNOLIA BARGE

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0	15.96	0	278.30	0	549.01	0	821.16	0	1,094.17	0	1,364.24	0	1,637.41	0	1,910.66	0	2,183.85	0	2,457.04	0	2,729.28
1/4	20.59	1/4	283.78	1/4	554.70	1/4	826.82	1/4	1,099.73	1/4	1,369.93	1/4	1,643.10	1/4	1,916.35	1/4	2,189.54	1/4	2,462.73	1/4	2,734.93
1/2	25.22	1/2	289.25	1/2	560.40	1/2	832.49	1/2	1,105.29	1/2	1,375.62	1/2	1,648.80	1/2	1,922.04	1/2	2,195.23	1/2	2,468.43	1/2	2,740.58
3/4	29.86	3/4	294.73	3/4	566.09	3/4	838.15	3/4	1,110.86	3/4	1,381.32	3/4	1,654.49	3/4	1,927.73	3/4	2,200.92	3/4	2,474.12	3/4	2,746.23
1	34.49	1	300.21	1	571.78	1	843.81	1	1,116.42	1	1,387.01	1	1,660.18	1	1,933.43	1	2,206.61	1	2,479.81	1	2,751.88
1/4	39.90	1/4	305.69	1/4	577.48	1/4	849.49	1/4	1,121.98	1/4	1,392.70	1/4	1,665.87	1/4	1,939.12	1/4	2,212.30	1/4	2,485.50	1/4	2,757.53
1/2	45.30	1/2	311.17	1/2	583.17	1/2	855.16	1/2	1,127.54	1/2	1,398.39	1/2	1,671.57	1/2	1,944.81	1/2	2,218.00	1/2	2,491.19	1/2	2,763.19
3/4	50.71	3/4	316.65	3/4	588.86	3/4	860.83	3/4	1,133.10	3/4	1,404.09	3/4	1,677.26	3/4	1,950.50	3/4	2,223.69	3/4	2,496.88	3/4	2,768.84
2	56.12	2	322.13	2	594.56	2	866.50	2	1,138.66	2	1,409.78	2	1,682.95	2	1,956.20	2	2,229.38	2	2,502.58	2	2,774.49
1/4	61.55	1/4	327.60	1/4	600.25	1/4	872.18	1/4	1,144.22	1/4	1,415.46	1/4	1,688.64	1/4	1,961.89	1/4	2,235.07	1/4	2,508.27	1/4	2,780.14
1/2	66.99	1/2	333.08	1/2	605.95	1/2	877.85	1/2	1,149.78	1/2	1,421.15	1/2	1,694.34	1/2	1,967.58	1/2	2,240.76	1/2	2,513.96	1/2	2,785.79
3/4	72.43	3/4	338.56	3/4	611.64	3/4	883.52	3/4	1,155.33	3/4	1,426.83	3/4	1,700.03	3/4	1,973.27	3/4	2,246.45	3/4	2,519.65	3/4	2,791.44
3	77.86	3	344.04	3	617.33	3	889.19	3	1,160.89	3	1,432.51	3	1,705.72	3	1,978.97	3	2,252.14	3	2,525.34	3	2,797.09
1/4	83.31	1/4	349.73	1/4	623.00	1/4	894.89	1/4	1,166.45	1/4	1,438.20	1/4	1,711.41	1/4	1,984.66	1/4	2,257.84	1/4	2,531.03	1/4	2,802.75
1/2	88.75	1/2	355.43	1/2	628.66	1/2	900.58	1/2	1,172.01	1/2	1,443.88	1/2	1,717.11	1/2	1,990.35	1/2	2,263.53	1/2	2,536.72	1/2	2,808.40
3/4	94.19	3/4	361.12	3/4	634.32	3/4	906.27	3/4	1,177.56	3/4	1,449.56	3/4	1,722.80	3/4	1,996.04	3/4	2,269.22	3/4	2,542.42	3/4	2,814.05
4	99.64	4	366.81	4	639.98	4	911.97	4	1,183.12	4	1,455.25	4	1,728.49	4	2,001.74	4	2,274.91	4	2,548.11	4	2,819.70
1/4	105.09	1/4	372.51	1/4	645.64	1/4	917.66	1/4	1,188.68	1/4	1,460.94	1/4	1,734.18	1/4	2,007.43	1/4	2,280.60	1/4	2,553.80	1/4	2,825.35
1/2	110.55	1/2	378.20	1/2	651.30	1/2	923.35	1/2	1,194.24	1/2	1,466.63	1/2	1,739.88	1/2	2,013.12	1/2	2,286.29	1/2	2,559.49	1/2	2,831.00
3/4	116.01	3/4	383.89	3/4	656.96	3/4	929.05	3/4	1,199.80	3/4	1,472.33	3/4	1,745.57	3/4	2,018.81	3/4	2,291.99	3/4	2,565.18	3/4	2,836.66
5	121.46	5	389.59	5	662.62	5	934.74	5	1,205.37	5	1,478.02	5	1,751.26	5	2,024.51	5	2,297.68	5	2,570.87	5	2,842.31
1/4	127.03	1/4	395.28	1/4	668.29	1/4	940.44	1/4	1,210.93	1/4	1,483.71	1/4	1,756.96	1/4	2,030.20	1/4	2,303.37	1/4	2,576.57	1/4	2,847.53
1/2	132.60	1/2	400.98	1/2	673.95	1/2	946.13	1/2	1,216.49	1/2	1,489.40	1/2	1,762.65	1/2	2,035.89	1/2	2,309.06	1/2	2,582.26	1/2	2,852.74
3/4	138.18	3/4	406.67	3/4	679.61	3/4	951.82	3/4	1,222.05	3/4	1,495.10	3/4	1,768.34	3/4	2,041.59	3/4	2,314.75	3/4	2,587.95	3/4	2,857.96
6	143.75	6	412.36	6	685.27	6	957.52	6	1,227.61	6	1,500.79	6	1,774.03	6	2,047.28	6	2,320.44	6	2,593.64	6	2,863.18
1/4	149.42	1/4	418.06	1/4	690.93	1/4	963.21	1/4	1,233.30	1/4	1,506.48	1/4	1,779.73	1/4	2,052.97	1/4	2,326.14	1/4	2,599.29	1/4	2,867.45
1/2	155.09	1/2	423.75	1/2	696.59	1/2	968.91	1/2	1,239.00	1/2	1,512.17	1/2	1,785.42	1/2	2,058.66	1/2	2,331.83	1/2	2,604.94	1/2	2,871.72
3/4	160.76	3/4	429.44	3/4	702.25	3/4	974.60	3/4	1,244.69	3/4	1,517.87	3/4	1,791.11	3/4	2,064.36	3/4	2,337.52	3/4	2,610.60	3/4	2,875.99
7	166.44	7	435.14	7	707.91	7	980.29	7	1,250.38	7	1,523.56	7	1,796.80	7	2,070.05	7	2,343.21	7	2,616.25	7	2,880.26
1/4	172.11	1/4	440.83	1/4	713.57	1/4	985.99	1/4	1,256.07	1/4	1,529.25	1/4	1,802.50	1/4	2,075.74	1/4	2,348.90	1/4	2,621.90	1/4	2,883.58
1/2	177.78	1/2	446.52	1/2	719.23	1/2	991.68	1/2	1,261.77	1/2	1,534.94	1/2	1,808.19	1/2	2,081.43	1/2	2,354.59	1/2	2,627.55	1/2	
3/4	183.46	3/4	452.22	3/4	724.89	3/4	997.38	3/4	1,267.46	3/4	1,540.64	3/4	1,813.88	3/4	2,087.13	3/4	2,360.29	3/4	2,633.20	3/4	
8	189.13	8	457.91	8	730.55	8	1,003.07	8	1,273.15	8	1,546.33	8	1,819.57	8	2,092.82	8	2,365.98	8	2,638.85	8	
1/4	194.80	1/4	463.61	1/4	736.21	1/4	1,008.76	1/4	1,278.85	1/4	1,552.02	1/4	1,825.27	1/4	2,098.51	1/4	2,371.67	1/4	2,644.50	1/4	
1/2	200.47	1/2	469.30	1/2	741.87	1/2	1,014.46	1/2	1,284.54	1/2	1,557.71	1/2	1,830.96	1/2	2,104.20	1/2	2,377.36	1/2	2,650.16	1/2	
3/4	206.15	3/4	474.99	3/4	747.53	3/4	1,020.15	3/4	1,290.23	3/4	1,563.41	3/4	1,836.65	3/4	2,109.90	3/4	2,383.05	3/4	2,655.81	3/4	
9	211.82	9	480.69	9	753.19	9	1,025.85	9	1,295.92	9	1,569.10	9	1,842.34	9	2,115.59	9	2,388.74	9	2,661.46	9	
1/4	217.50	1/4	486.38	1/4	758.85	1/4	1,031.54	1/4	1,301.62	1/4	1,574.79	1/4	1,848.04	1/4	2,121.28	1/4	2,394.43	1/4	2,667.11	1/4	
1/2	223.19	1/2	492.07	1/2	764.52	1/2	1,037.23	1/2	1,307.31	1/2	1,580.48	1/2	1,853.73	1/2	2,126.97	1/2	2,400.13	1/2	2,672.76	1/2	
3/4	228.87	3/4	497.77	3/4	770.18	3/4	1,042.93	3/4	1,313.00	3/4	1,586.18	3/4	1,859.42	3/4	2,132.67	3/4	2,405.82	3/4	2,678.41	3/4	
10	234.55	10	503.46	10	775.84	10	1,048.62	10	1,318.70	10	1,591.87	10	1,865.11	10	2,138.36	10	2,411.51	10	2,684.06	10	
1/4	240.02	1/4	509.15	1/4	781.51	1/4	1,054.31	1/4	1,324.39	1/4	1,597.56	1/4	1,870.81	1/4	2,144.05	1/4	2,417.20	1/4	2,689.72	1/4	
1/2	245.49	1/2	514.85	1/2	787.17	1/2	1,060.01	1/2	1,330.08	1/2	1,603.25	1/2	1,876.50	1/2	2,149.73	1/2	2,422.89	1/2	2,695.37	1/2	
3/4	250.96	3/4	520.54	3/4	792.84	3/4	1,065.70	3/4	1,335.77	3/4	1,608.95	3/4	1,882.19	3/4	2,155.42	3/4	2,428.58	3/4	2,701.02	3/4	
11	256.42	11	526.23	11	798.50	11	1,071.40	11	1,341.47	11	1,614.64	11	1,887.88	11	2,161.10	11	2,434.28	11	2,706.67	11	
1/4	261.89	1/4	531.93	1/4	804.16	1/4	1,077.09	1/4	1,347.16	1/4	1,620.33	1/4	1,893.58	1/4	2,166.79	1/4	2,439.97	1/4	2,712.32	1/4	
1/2	267.36	1/2	537.62	1/2	809.83	1/2	1,082.78	1/2	1,352.85	1/2	1,626.03	1/2	1,899.27	1/2	2,172.47	1/2	2,445.66	1/2	2,717.97	1/2	
3/4	272.83	3/4	543.32	3/4	815.49	3/4	1,088.48	3/4	1,358.54	3/4	1,631.72	3/4	1,904.96	3/4	2,178.16	3/4	2,451.35	3/4	2,723.63	3/4	

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BARGE "MM 93"
MAGNOLIA BARGE

4 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07"

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.	IN	10 FT.
0	16.35	0	293.44	0	573.99	0	845.13	0	1,120.36	0	1,396.85	0	1,672.74	0	1,951.65	0	2,230.84	0	2,510.16	0	2,788.53
1/4	21.24	1/4	299.34	1/4	579.82	1/4	850.72	1/4	1,126.06	1/4	1,402.61	1/4	1,678.51	1/4	1,957.46	1/4	2,236.65	1/4	2,515.98	1/4	2,794.30
1/2	26.14	1/2	305.23	1/2	585.64	1/2	856.31	1/2	1,131.76	1/2	1,408.37	1/2	1,684.28	1/2	1,963.28	1/2	2,242.47	1/2	2,521.80	1/2	2,800.08
3/4	31.04	3/4	311.13	3/4	591.47	3/4	861.90	3/4	1,137.47	3/4	1,414.13	3/4	1,690.04	3/4	1,969.09	3/4	2,248.29	3/4	2,527.62	3/4	2,805.86
1	35.94	1	317.02	1	597.30	1	867.50	1	1,143.17	1	1,419.88	1	1,695.81	1	1,974.90	1	2,254.11	1	2,533.44	1	2,811.64
1/4	41.77	1/4	322.92	1/4	603.13	1/4	873.10	1/4	1,148.87	1/4	1,425.63	1/4	1,701.58	1/4	1,980.72	1/4	2,259.93	1/4	2,539.26	1/4	2,817.42
1/2	47.60	1/2	328.81	1/2	608.96	1/2	878.69	1/2	1,154.57	1/2	1,431.38	1/2	1,707.34	1/2	1,986.53	1/2	2,265.75	1/2	2,545.08	1/2	2,823.20
3/4	53.43	3/4	334.70	3/4	614.79	3/4	884.29	3/4	1,160.28	3/4	1,437.12	3/4	1,713.11	3/4	1,992.34	3/4	2,271.57	3/4	2,550.90	3/4	2,828.98
2	59.26	2	340.60	2	620.62	2	889.89	2	1,165.98	2	1,442.87	2	1,718.88	2	1,998.16	2	2,277.39	2	2,556.72	2	2,834.76
1/4	65.12	1/4	346.49	1/4	626.45	1/4	895.49	1/4	1,171.67	1/4	1,448.60	1/4	1,724.70	1/4	2,003.97	1/4	2,283.21	1/4	2,562.54	1/4	2,840.54
1/2	70.99	1/2	352.38	1/2	632.27	1/2	901.09	1/2	1,177.36	1/2	1,454.32	1/2	1,730.52	1/2	2,009.78	1/2	2,289.03	1/2	2,568.35	1/2	2,846.32
3/4	76.85	3/4	358.28	3/4	638.10	3/4	906.69	3/4	1,183.05	3/4	1,460.05	3/4	1,736.34	3/4	2,015.60	3/4	2,294.85	3/4	2,574.17	3/4	2,852.10
3	82.72	3	364.17	3	643.93	3	912.29	3	1,188.74	3	1,465.78	3	1,742.16	3	2,021.41	3	2,300.67	3	2,579.99	3	2,857.88
1/4	88.59	1/4	370.00	1/4	649.52	1/4	917.91	1/4	1,194.43	1/4	1,471.51	1/4	1,747.99	1/4	2,027.23	1/4	2,306.49	1/4	2,585.81	1/4	2,863.66
1/2	94.46	1/2	375.82	1/2	655.11	1/2	923.53	1/2	1,200.12	1/2	1,477.25	1/2	1,753.81	1/2	2,033.04	1/2	2,312.31	1/2	2,591.63	1/2	2,869.43
3/4	100.33	3/4	381.65	3/4	660.70	3/4	929.15	3/4	1,205.81	3/4	1,482.99	3/4	1,759.63	3/4	2,038.85	3/4	2,318.12	3/4	2,597.45	3/4	2,875.21
4	106.20	4	387.48	4	666.29	4	934.77	4	1,211.51	4	1,488.72	4	1,765.45	4	2,044.67	4	2,323.94	4	2,603.27	4	2,880.99
1/4	112.08	1/4	393.31	1/4	671.88	1/4	940.39	1/4	1,217.21	1/4	1,494.47	1/4	1,771.27	1/4	2,050.48	1/4	2,329.76	1/4	2,609.09	1/4	2,886.77
1/2	117.97	1/2	399.13	1/2	677.47	1/2	946.01	1/2	1,222.91	1/2	1,500.21	1/2	1,777.10	1/2	2,056.29	1/2	2,335.58	1/2	2,614.91	1/2	2,892.55
3/4	123.85	3/4	404.96	3/4	683.05	3/4	951.64	3/4	1,228.61	3/4	1,505.96	3/4	1,782.92	3/4	2,062.11	3/4	2,341.40	3/4	2,620.73	3/4	2,898.33
5	129.73	5	410.79	5	688.64	5	957.26	5	1,234.32	5	1,511.70	5	1,788.74	5	2,067.92	5	2,347.22	5	2,626.55	5	2,904.11
1/4	135.59	1/4	416.61	1/4	694.23	1/4	963.08	1/4	1,240.02	1/4	1,517.45	1/4	1,794.56	1/4	2,073.74	1/4	2,353.04	1/4	2,632.37	1/4	2,909.46
1/2	141.45	1/2	422.44	1/2	699.82	1/2	968.91	1/2	1,245.72	1/2	1,523.19	1/2	1,800.38	1/2	2,079.56	1/2	2,358.86	1/2	2,638.19	1/2	2,914.82
3/4	147.31	3/4	428.27	3/4	705.40	3/4	974.73	3/4	1,251.42	3/4	1,528.94	3/4	1,806.20	3/4	2,085.38	3/4	2,364.68	3/4	2,644.01	3/4	2,920.17
6	153.17	6	434.10	6	710.99	6	980.56	6	1,257.13	6	1,534.68	6	1,812.03	6	2,091.20	6	2,370.50	6	2,649.82	6	2,925.52
1/4	158.99	1/4	439.93	1/4	716.58	1/4	986.38	1/4	1,262.95	1/4	1,540.43	1/4	1,817.85	1/4	2,097.02	1/4	2,376.32	1/4	2,655.60	1/4	2,929.90
1/2	164.81	1/2	445.76	1/2	722.17	1/2	992.21	1/2	1,268.77	1/2	1,546.17	1/2	1,823.67	1/2	2,102.84	1/2	2,382.14	1/2	2,661.38	1/2	2,934.28
3/4	170.63	3/4	451.58	3/4	727.75	3/4	998.03	3/4	1,274.59	3/4	1,551.92	3/4	1,829.49	3/4	2,108.66	3/4	2,387.96	3/4	2,667.16	3/4	2,938.66
7	176.45	7	457.41	7	733.34	7	1,003.86	7	1,280.41	7	1,557.67	7	1,835.31	7	2,114.48	7	2,393.78	7	2,672.94	7	2,943.03
1/4	182.27	1/4	463.24	1/4	738.93	1/4	1,009.68	1/4	1,286.24	1/4	1,563.41	1/4	1,841.14	1/4	2,120.30	1/4	2,399.59	1/4	2,678.72	1/4	2,946.44
1/2	188.09	1/2	469.07	1/2	744.52	1/2	1,015.51	1/2	1,292.06	1/2	1,569.16	1/2	1,846.96	1/2	2,126.12	1/2	2,405.41	1/2	2,684.50	1/2	
3/4	193.91	3/4	474.90	3/4	750.10	3/4	1,021.33	3/4	1,297.88	3/4	1,574.90	3/4	1,852.78	3/4	2,131.94	3/4	2,411.23	3/4	2,690.28	3/4	
8	199.73	8	480.73	8	755.69	8	1,027.16	8	1,303.70	8	1,580.65	8	1,858.60	8	2,137.76	8	2,417.05	8	2,696.06	8	
1/4	205.54	1/4	486.56	1/4	761.28	1/4	1,032.98	1/4	1,309.52	1/4	1,586.39	1/4	1,864.42	1/4	2,143.58	1/4	2,422.87	1/4	2,701.84	1/4	
1/2	211.36	1/2	492.39	1/2	766.87	1/2	1,038.81	1/2	1,315.35	1/2	1,592.14	1/2	1,870.24	1/2	2,149.40	1/2	2,428.69	1/2	2,707.62	1/2	
3/4	217.18	3/4	498.21	3/4	772.45	3/4	1,044.63	3/4	1,321.17	3/4	1,597.88	3/4	1,876.07	3/4	2,155.22	3/4	2,434.51	3/4	2,713.40	3/4	
9	223.00	9	504.04	9	778.04	9	1,050.46	9	1,326.99	9	1,603.63	9	1,881.89	9	2,161.04	9	2,440.33	9	2,719.18	9	
1/4	228.83	1/4	509.87	1/4	783.63	1/4	1,056.28	1/4	1,332.81	1/4	1,609.37	1/4	1,887.70	1/4	2,166.86	1/4	2,446.15	1/4	2,724.95	1/4	
1/2	234.66	1/2	515.70	1/2	789.22	1/2	1,062.11	1/2	1,338.63	1/2	1,615.12	1/2	1,893.51	1/2	2,172.68	1/2	2,451.97	1/2	2,730.73	1/2	
3/4	240.49	3/4	521.53	3/4	794.81	3/4	1,067.93	3/4	1,344.46	3/4	1,620.86	3/4	1,899.33	3/4	2,178.50	3/4	2,457.79	3/4	2,736.51	3/4	
10	246.32	10	527.36	10	800.40	10	1,073.76	10	1,350.28	10	1,626.61	10	1,905.14	10	2,184.32	10	2,463.61	10	2,742.29	10	
1/4	252.22	1/4	533.19	1/4	805.99	1/4	1,079.58	1/4	1,356.10	1/4	1,632.38	1/4	1,910.96	1/4	2,190.14	1/4	2,469.43	1/4	2,748.07	1/4	
1/2	258.11	1/2	539.01	1/2	811.58	1/2	1,085.41	1/2	1,361.92	1/2	1,638.14	1/2	1,916.77	1/2	2,195.95	1/2	2,475.25	1/2	2,753.85	1/2	
3/4	264.01	3/4	544.84	3/4	817.17	3/4	1,091.23	3/4	1,367.74	3/4	1,643.91	3/4	1,922.58	3/4	2,201.77	3/4	2,481.06	3/4	2,759.63	3/4	
11	269.91	11	550.67	11	822.76	11	1,097.06	11	1,373.56	11	1,649.68	11	1,928.40	11	2,207.58	11	2,486.88	11	2,765.41	11	
1/4	275.79	1/4	556.50	1/4	828.36	1/4	1,102.88	1/4	1,379.39	1/4	1,655.44	1/4	1,934.21	1/4	2,213.39	1/4	2,492.70	1/4	2,771.19	1/4	
1/2	281.67	1/2	562.33	1/2	833.95	1/2	1,108.71	1/2	1,385.21	1/2	1,661.21	1/2	1,940.02	1/2	2,219.21	1/2	2,498.52	1/2	2,776.97	1/2	
3/4	287.56	3/4	568.16	3/4	839.54	3/4	1,114.53	3/4	1,391.03	3/4	1,666.98	3/4	1,945.84	3/4	2,225.02	3/4	2,504.34	3/4	2,782.75	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 50'-09" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW
CALCULATED: 05/10/2013 CL
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013

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

BARGE "MM 93"
MAGNOLIA BARGE

4 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0	16.33	0	293.08	0	572.53	0	848.58	0	1,125.49	0	1,399.60	0	1,673.10	0	1,949.45	0	2,226.05	0	2,502.79	0	2,778.57
1/4	21.22	1/4	298.97	1/4	578.31	1/4	854.32	1/4	1,131.14	1/4	1,405.31	1/4	1,678.81	1/4	1,955.21	1/4	2,231.81	1/4	2,508.55	1/4	2,784.29
1/2	26.11	1/2	304.86	1/2	584.08	1/2	860.07	1/2	1,136.80	1/2	1,411.01	1/2	1,684.53	1/2	1,960.97	1/2	2,237.58	1/2	2,514.32	1/2	2,790.02
3/4	31.00	3/4	310.74	3/4	589.86	3/4	865.82	3/4	1,142.45	3/4	1,416.72	3/4	1,690.25	3/4	1,966.73	3/4	2,243.35	3/4	2,520.08	3/4	2,795.74
1	35.89	1	316.63	1	595.63	1	871.56	1	1,148.10	1	1,422.43	1	1,695.96	1	1,972.49	1	2,249.11	1	2,525.85	1	2,801.47
1/4	41.72	1/4	322.52	1/4	601.41	1/4	877.31	1/4	1,153.76	1/4	1,428.13	1/4	1,701.68	1/4	1,978.25	1/4	2,254.88	1/4	2,531.62	1/4	2,807.19
1/2	47.54	1/2	328.40	1/2	607.18	1/2	883.07	1/2	1,159.41	1/2	1,433.82	1/2	1,707.40	1/2	1,984.01	1/2	2,260.64	1/2	2,537.38	1/2	2,812.92
3/4	53.36	3/4	334.29	3/4	612.95	3/4	888.82	3/4	1,165.07	3/4	1,439.52	3/4	1,713.11	3/4	1,989.77	3/4	2,266.41	3/4	2,543.15	3/4	2,818.65
2	59.19	2	340.18	2	618.73	2	894.57	2	1,170.72	2	1,445.22	2	1,718.83	2	1,995.52	2	2,272.17	2	2,548.91	2	2,824.37
1/4	65.05	1/4	346.06	1/4	624.50	1/4	900.33	1/4	1,176.36	1/4	1,450.89	1/4	1,724.60	1/4	2,001.28	1/4	2,277.94	1/4	2,554.68	1/4	2,830.10
1/2	70.90	1/2	351.95	1/2	630.28	1/2	906.08	1/2	1,182.00	1/2	1,456.57	1/2	1,730.37	1/2	2,007.04	1/2	2,283.70	1/2	2,560.44	1/2	2,835.82
3/4	76.76	3/4	357.84	3/4	636.05	3/4	911.83	3/4	1,187.64	3/4	1,462.25	3/4	1,736.14	3/4	2,012.80	3/4	2,289.47	3/4	2,566.21	3/4	2,841.55
3	82.61	3	363.72	3	641.83	3	917.59	3	1,193.28	3	1,467.92	3	1,741.90	3	2,018.56	3	2,295.23	3	2,571.97	3	2,847.27
1/4	88.48	1/4	369.54	1/4	647.57	1/4	923.36	1/4	1,198.92	1/4	1,473.61	1/4	1,747.67	1/4	2,024.32	1/4	2,301.00	1/4	2,577.74	1/4	2,853.00
1/2	94.34	1/2	375.36	1/2	653.32	1/2	929.14	1/2	1,204.56	1/2	1,479.30	1/2	1,753.44	1/2	2,030.08	1/2	2,306.76	1/2	2,583.50	1/2	2,858.72
3/4	100.21	3/4	381.18	3/4	659.06	3/4	934.91	3/4	1,210.20	3/4	1,484.98	3/4	1,759.21	3/4	2,035.84	3/4	2,312.53	3/4	2,589.27	3/4	2,864.45
4	106.07	4	387.00	4	664.80	4	940.69	4	1,215.84	4	1,490.67	4	1,764.97	4	2,041.60	4	2,318.30	4	2,595.03	4	2,870.17
1/4	111.95	1/4	392.82	1/4	670.55	1/4	946.46	1/4	1,221.50	1/4	1,496.36	1/4	1,770.74	1/4	2,047.36	1/4	2,324.06	1/4	2,600.80	1/4	2,875.90
1/2	117.82	1/2	398.64	1/2	676.29	1/2	952.24	1/2	1,227.15	1/2	1,502.06	1/2	1,776.51	1/2	2,053.12	1/2	2,329.83	1/2	2,606.57	1/2	2,881.62
3/4	123.70	3/4	404.46	3/4	682.03	3/4	958.01	3/4	1,232.80	3/4	1,507.76	3/4	1,782.28	3/4	2,058.88	3/4	2,335.59	3/4	2,612.33	3/4	2,887.35
5	129.58	5	410.28	5	687.77	5	963.79	5	1,238.46	5	1,513.45	5	1,788.05	5	2,064.64	5	2,341.36	5	2,618.10	5	2,893.08
1/4	135.43	1/4	416.10	1/4	693.51	1/4	969.56	1/4	1,244.11	1/4	1,519.15	1/4	1,793.81	1/4	2,070.41	1/4	2,347.12	1/4	2,623.86	1/4	2,898.42
1/2	141.28	1/2	421.92	1/2	699.26	1/2	975.34	1/2	1,249.76	1/2	1,524.84	1/2	1,799.58	1/2	2,076.17	1/2	2,352.89	1/2	2,629.63	1/2	2,903.77
3/4	147.13	3/4	427.74	3/4	705.00	3/4	981.11	3/4	1,255.41	3/4	1,530.54	3/4	1,805.35	3/4	2,081.94	3/4	2,358.65	3/4	2,635.39	3/4	2,909.11
6	152.98	6	433.56	6	710.74	6	986.89	6	1,261.07	6	1,536.23	6	1,811.12	6	2,087.71	6	2,364.42	6	2,641.16	6	2,914.46
1/4	158.79	1/4	439.38	1/4	716.48	1/4	992.66	1/4	1,266.84	1/4	1,541.93	1/4	1,816.89	1/4	2,093.47	1/4	2,370.18	1/4	2,646.88	1/4	2,918.83
1/2	164.61	1/2	445.21	1/2	722.22	1/2	998.44	1/2	1,272.61	1/2	1,547.62	1/2	1,822.65	1/2	2,099.24	1/2	2,375.95	1/2	2,652.61	1/2	2,923.21
3/4	170.42	3/4	451.03	3/4	727.96	3/4	1,004.21	3/4	1,278.38	3/4	1,553.32	3/4	1,828.42	3/4	2,105.00	3/4	2,381.71	3/4	2,658.33	3/4	2,927.58
7	176.23	7	456.85	7	733.71	7	1,009.99	7	1,284.16	7	1,559.02	7	1,834.19	7	2,110.77	7	2,387.48	7	2,664.06	7	2,931.95
1/4	182.04	1/4	462.67	1/4	739.45	1/4	1,015.76	1/4	1,289.93	1/4	1,564.71	1/4	1,839.96	1/4	2,116.54	1/4	2,393.25	1/4	2,669.78	1/4	2,935.35
1/2	187.85	1/2	468.49	1/2	745.19	1/2	1,021.54	1/2	1,295.70	1/2	1,570.41	1/2	1,845.73	1/2	2,122.30	1/2	2,399.01	1/2	2,675.51	1/2	
3/4	193.67	3/4	474.31	3/4	750.93	3/4	1,027.31	3/4	1,301.47	3/4	1,576.10	3/4	1,851.49	3/4	2,128.07	3/4	2,404.78	3/4	2,681.24	3/4	
8	199.48	8	480.13	8	756.67	8	1,033.09	8	1,307.24	8	1,581.80	8	1,857.26	8	2,133.84	8	2,410.54	8	2,686.96	8	
1/4	205.29	1/4	485.91	1/4	762.41	1/4	1,038.86	1/4	1,313.02	1/4	1,587.49	1/4	1,863.03	1/4	2,139.60	1/4	2,416.31	1/4	2,692.69	1/4	
1/2	211.10	1/2	491.68	1/2	768.16	1/2	1,044.64	1/2	1,318.79	1/2	1,593.19	1/2	1,868.80	1/2	2,145.37	1/2	2,422.07	1/2	2,698.41	1/2	
3/4	216.92	3/4	497.46	3/4	773.90	3/4	1,050.41	3/4	1,324.56	3/4	1,598.88	3/4	1,874.57	3/4	2,151.14	3/4	2,427.84	3/4	2,704.14	3/4	
9	222.73	9	503.23	9	779.64	9	1,056.19	9	1,330.33	9	1,604.58	9	1,880.33	9	2,156.90	9	2,433.60	9	2,709.86	9	
1/4	228.55	1/4	509.01	1/4	785.38	1/4	1,061.96	1/4	1,336.10	1/4	1,610.27	1/4	1,886.09	1/4	2,162.67	1/4	2,439.37	1/4	2,715.59	1/4	
1/2	234.37	1/2	514.78	1/2	791.13	1/2	1,067.74	1/2	1,341.88	1/2	1,615.97	1/2	1,891.85	1/2	2,168.44	1/2	2,445.13	1/2	2,721.31	1/2	
3/4	240.20	3/4	520.56	3/4	796.87	3/4	1,073.51	3/4	1,347.65	3/4	1,621.67	3/4	1,897.61	3/4	2,174.20	3/4	2,450.90	3/4	2,727.04	3/4	
10	246.02	10	526.33	10	802.61	10	1,079.29	10	1,353.42	10	1,627.36	10	1,903.37	10	2,179.97	10	2,456.66	10	2,732.76	10	
1/4	251.91	1/4	532.11	1/4	808.36	1/4	1,085.06	1/4	1,359.19	1/4	1,633.08	1/4	1,909.13	1/4	2,185.73	1/4	2,462.43	1/4	2,738.49	1/4	
1/2	257.80	1/2	537.88	1/2	814.10	1/2	1,090.84	1/2	1,364.97	1/2	1,638.80	1/2	1,914.89	1/2	2,191.49	1/2	2,468.20	1/2	2,744.21	1/2	
3/4	263.68	3/4	543.66	3/4	819.85	3/4	1,096.62	3/4	1,370.74	3/4	1,644.51	3/4	1,920.65	3/4	2,197.25	3/4	2,473.96	3/4	2,749.94	3/4	
11	269.57	11	549.43	11	825.60	11	1,102.39	11	1,376.51	11	1,650.23	11	1,926.41	11	2,203.01	11	2,479.73	11	2,755.67	11	
1/4	275.45	1/4	555.21	1/4	831.34	1/4	1,108.17	1/4	1,382.28	1/4	1,655.95	1/4	1,932.17	1/4	2,208.77	1/4	2,485.49	1/4	2,761.39	1/4	
1/2	281.33	1/2	560.98	1/2	837.09	1/2	1,113.94	1/2	1,388.05	1/2	1,661.66	1/2	1,937.93	1/2	2,214.53	1/2	2,491.26	1/2	2,767.12	1/2	
3/4	287.20	3/4	566.76	3/4	842.83	3/4	1,119.72	3/4	1,393.83	3/4	1,667.38	3/4	1,943.69	3/4	2,220.29	3/4	2,497.02	3/4	2,772.84	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 50'-09" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW
CALCULATED: 05/10/2013 CL
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2013

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