



BARGE "MPX 414"

INNAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-03"

February 3, 2021

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MPX 414"

1 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.64	0	290.79	0	625.25	0	966.13	0	1,307.98	0	1,650.66	0	1,993.34	0	2,336.03	0	2,678.71	0	3,021.36
1/4	17.56	1/4	297.39	1/4	632.38	1/4	973.21	1/4	1,315.12	1/4	1,657.80	1/4	2,000.48	1/4	2,343.17	1/4	2,685.84	1/4	3,028.50
1/2	20.48	1/2	303.98	1/2	639.52	1/2	980.28	1/2	1,322.26	1/2	1,664.94	1/2	2,007.62	1/2	2,350.30	1/2	2,692.98	1/2	3,035.64
3/4	23.40	3/4	310.58	3/4	646.66	3/4	987.36	3/4	1,329.40	3/4	1,672.08	3/4	2,014.76	3/4	2,357.44	3/4	2,700.12	3/4	3,042.77
1	26.32	1	317.18	1	653.80	1	994.44	1	1,336.54	1	1,679.22	1	2,021.90	1	2,364.58	1	2,707.26	1	3,049.91
1/4	31.10	1/4	323.86	1/4	660.94	1/4	1,001.52	1/4	1,343.68	1/4	1,686.36	1/4	2,029.04	1/4	2,371.72	1/4	2,714.40	1/4	3,057.05
1/2	35.89	1/2	330.54	1/2	668.08	1/2	1,008.60	1/2	1,350.82	1/2	1,693.50	1/2	2,036.18	1/2	2,378.86	1/2	2,721.54	1/2	3,064.18
3/4	40.67	3/4	337.22	3/4	675.22	3/4	1,015.68	3/4	1,357.96	3/4	1,700.64	3/4	2,043.32	3/4	2,386.00	3/4	2,728.68	3/4	3,071.32
2	45.46	2	343.90	2	682.36	2	1,022.76	2	1,365.09	2	1,707.78	2	2,050.46	2	2,393.14	2	2,735.82	2	3,078.46
1/4	51.19	1/4	350.66	1/4	689.50	1/4	1,029.84	1/4	1,372.23	1/4	1,714.92	1/4	2,057.60	1/4	2,400.28	1/4	2,742.96	1/4	3,085.60
1/2	56.91	1/2	357.43	1/2	696.63	1/2	1,036.93	1/2	1,379.37	1/2	1,722.05	1/2	2,064.74	1/2	2,407.42	1/2	2,750.09	1/2	3,092.73
3/4	62.64	3/4	364.19	3/4	703.77	3/4	1,044.02	3/4	1,386.51	3/4	1,729.19	3/4	2,071.88	3/4	2,414.56	3/4	2,757.23	3/4	3,099.87
3	68.37	3	370.95	3	710.91	3	1,051.11	3	1,393.65	3	1,736.33	3	2,079.01	3	2,421.70	3	2,764.37	3	3,107.01
1/4	74.20	1/4	377.80	1/4	718.05	1/4	1,058.21	1/4	1,400.79	1/4	1,743.47	1/4	2,086.15	1/4	2,428.84	1/4	2,771.51	1/4	3,114.14
1/2	80.04	1/2	384.65	1/2	725.19	1/2	1,065.32	1/2	1,407.93	1/2	1,750.61	1/2	2,093.29	1/2	2,435.97	1/2	2,778.65	1/2	3,121.28
3/4	85.87	3/4	391.49	3/4	732.33	3/4	1,072.42	3/4	1,415.07	3/4	1,757.75	3/4	2,100.43	3/4	2,443.11	3/4	2,785.79	3/4	3,128.42
4	91.71	4	398.34	4	739.47	4	1,079.53	4	1,422.21	4	1,764.89	4	2,107.57	4	2,450.25	4	2,792.93	4	3,135.55
1/4	97.64	1/4	405.27	1/4	746.57	1/4	1,086.67	1/4	1,429.35	1/4	1,772.03	1/4	2,114.71	1/4	2,457.39	1/4	2,800.07	1/4	3,142.69
1/2	103.56	1/2	412.20	1/2	753.68	1/2	1,093.81	1/2	1,436.49	1/2	1,779.17	1/2	2,121.85	1/2	2,464.53	1/2	2,807.21	1/2	3,149.83
3/4	109.49	3/4	419.13	3/4	760.78	3/4	1,100.94	3/4	1,443.63	3/4	1,786.31	3/4	2,128.99	3/4	2,471.67	3/4	2,814.34	3/4	3,156.96
5	115.42	5	426.06	5	767.89	5	1,108.08	5	1,450.77	5	1,793.45	5	2,136.13	5	2,478.81	5	2,821.48	5	3,164.10
1/4	121.43	1/4	433.07	1/4	774.98	1/4	1,115.22	1/4	1,457.90	1/4	1,800.59	1/4	2,143.27	1/4	2,485.95	1/4	2,828.62	1/4	3,171.24
1/2	127.45	1/2	440.08	1/2	782.06	1/2	1,122.36	1/2	1,465.04	1/2	1,807.73	1/2	2,150.41	1/2	2,493.09	1/2	2,835.76	1/2	3,178.37
3/4	133.46	3/4	447.09	3/4	789.15	3/4	1,129.50	3/4	1,472.18	3/4	1,814.86	3/4	2,157.55	3/4	2,500.23	3/4	2,842.90	3/4	3,185.51
6	139.47	6	454.10	6	796.24	6	1,136.64	6	1,479.32	6	1,822.00	6	2,164.69	6	2,507.37	6	2,850.04	6	3,192.65
1/4	145.57	1/4	461.19	1/4	803.32	1/4	1,143.78	1/4	1,486.46	1/4	1,829.14	1/4	2,171.82	1/4	2,514.51	1/4	2,857.18	1/4	3,199.78
1/2	151.66	1/2	468.28	1/2	810.40	1/2	1,150.92	1/2	1,493.60	1/2	1,836.28	1/2	2,178.96	1/2	2,521.65	1/2	2,864.32	1/2	3,206.92
3/4	157.76	3/4	475.38	3/4	817.47	3/4	1,158.06	3/4	1,500.74	3/4	1,843.42	3/4	2,186.10	3/4	2,528.78	3/4	2,871.46	3/4	3,214.06
7	163.86	7	482.47	7	824.55	7	1,165.20	7	1,507.88	7	1,850.56	7	2,193.24	7	2,535.92	7	2,878.59	7	3,221.19
1/4	170.04	1/4	489.61	1/4	831.63	1/4	1,172.34	1/4	1,515.02	1/4	1,857.70	1/4	2,200.38	1/4	2,543.06	1/4	2,885.73	1/4	3,228.33
1/2	176.22	1/2	496.75	1/2	838.71	1/2	1,179.48	1/2	1,522.16	1/2	1,864.84	1/2	2,207.52	1/2	2,550.20	1/2	2,892.87	1/2	3,235.47
3/4	182.40	3/4	503.88	3/4	845.79	3/4	1,186.61	3/4	1,529.30	3/4	1,871.98	3/4	2,214.66	3/4	2,557.34	3/4	2,900.01	3/4	3,242.60
8	188.58	8	511.02	8	852.87	8	1,193.75	8	1,536.44	8	1,879.12	8	2,221.80	8	2,564.48	8	2,907.15	8	3,249.74
1/4	194.84	1/4	518.16	1/4	859.95	1/4	1,200.89	1/4	1,543.57	1/4	1,886.26	1/4	2,228.94	1/4	2,571.62	1/4	2,914.29	1/4	3,256.88
1/2	201.10	1/2	525.30	1/2	867.02	1/2	1,208.03	1/2	1,550.71	1/2	1,893.40	1/2	2,236.08	1/2	2,578.76	1/2	2,921.43	1/2	3,264.02
3/4	207.37	3/4	532.44	3/4	874.10	3/4	1,215.17	3/4	1,557.85	3/4	1,900.53	3/4	2,243.22	3/4	2,585.90	3/4	2,928.57	3/4	3,271.15
9	213.63	9	539.58	9	881.18	9	1,222.31	9	1,564.99	9	1,907.67	9	2,250.36	9	2,593.04	9	2,935.71	9	3,278.29
1/4	219.98	1/4	546.72	1/4	888.26	1/4	1,229.45	1/4	1,572.13	1/4	1,914.81	1/4	2,257.49	1/4	2,600.18	1/4	2,942.84	1/4	3,285.43
1/2	226.32	1/2	553.86	1/2	895.34	1/2	1,236.59	1/2	1,579.27	1/2	1,921.95	1/2	2,264.63	1/2	2,607.32	1/2	2,949.98	1/2	3,292.56
3/4	232.67	3/4	561.00	3/4	902.42	3/4	1,243.73	3/4	1,586.41	3/4	1,929.09	3/4	2,271.77	3/4	2,614.45	3/4	2,957.12	3/4	3,299.70
10	239.02	10	568.13	10	909.50	10	1,250.87	10	1,593.55	10	1,936.23	10	2,278.91	10	2,621.59	10	2,964.26	10	3,306.84
1/4	245.45	1/4	575.27	1/4	916.58	1/4	1,258.01	1/4	1,600.69	1/4	1,943.37	1/4	2,286.05	1/4	2,628.73	1/4	2,971.40	1/4	3,313.97
1/2	251.88	1/2	582.41	1/2	923.65	1/2	1,265.15	1/2	1,607.83	1/2	1,950.51	1/2	2,293.19	1/2	2,635.87	1/2	2,978.54	1/2	3,321.11
3/4	258.31	3/4	589.55	3/4	930.73	3/4	1,272.29	3/4	1,614.97	3/4	1,957.65	3/4	2,300.33	3/4	2,643.01	3/4	2,985.68	3/4	3,328.25
11	264.74	11	596.69	11	937.81	11	1,279.42	11	1,622.11	11	1,964.79	11	2,307.47	11	2,650.15	11	2,992.82	11	3,335.38
1/4	271.25	1/4	603.83	1/4	944.89	1/4	1,286.56	1/4	1,629.25	1/4	1,971.93	1/4	2,314.61	1/4	2,657.29	1/4	2,999.95	1/4	3,342.52
1/2	277.76	1/2	610.97	1/2	951.97	1/2	1,293.70	1/2	1,636.38	1/2	1,979.07	1/2	2,321.75	1/2	2,664.43	1/2	3,007.09	1/2	3,349.66
3/4	284.28	3/4	618.11	3/4	959.05	3/4	1,300.84	3/4	1,643.52	3/4	1,986.21	3/4	2,328.89	3/4	2,671.57	3/4	3,014.23	3/4	3,356.79

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,363.93	0	3,706.52	0	4,049.18	0	4,391.19	0	4,732.29	0		0		0		0		0	
1/4	3,371.07	1/4	3,713.66	1/4	4,056.32	1/4	4,398.30	1/4	4,739.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,378.20	1/2	3,720.80	1/2	4,063.46	1/2	4,405.41	1/2	4,746.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,385.34	3/4	3,727.94	3/4	4,070.60	3/4	4,412.51	3/4	4,753.61	3/4		3/4		3/4		3/4		3/4	
1	3,392.48	1	3,735.08	1	4,077.74	1	4,419.62	1	4,760.72	1		1		1		1		1	
1/4	3,399.61	1/4	3,742.21	1/4	4,084.88	1/4	4,426.72	1/4	4,767.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,406.75	1/2	3,749.35	1/2	4,092.02	1/2	4,433.83	1/2	4,774.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,413.89	3/4	3,756.49	3/4	4,099.15	3/4	4,440.94	3/4	4,782.03	3/4		3/4		3/4		3/4		3/4	
2	3,421.02	2	3,763.63	2	4,106.29	2	4,448.04	2	4,789.14	2		2		2		2		2	
1/4	3,428.16	1/4	3,770.77	1/4	4,113.43	1/4	4,455.15	1/4	4,796.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,435.30	1/2	3,777.91	1/2	4,120.57	1/2	4,462.26	1/2	4,803.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,442.44	3/4	3,785.05	3/4	4,127.71	3/4	4,469.36	3/4	4,810.46	3/4		3/4		3/4		3/4		3/4	
3	3,449.57	3	3,792.19	3	4,134.85	3	4,476.47	3	4,817.57	3		3		3		3		3	
1/4	3,456.71	1/4	3,799.33	1/4	4,141.99	1/4	4,483.57	1/4	4,824.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,463.85	1/2	3,806.46	1/2	4,149.13	1/2	4,490.68	1/2	4,831.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,470.98	3/4	3,813.60	3/4	4,156.27	3/4	4,497.79	3/4	4,838.75	3/4		3/4		3/4		3/4		3/4	
4	3,478.12	4	3,820.74	4	4,163.40	4	4,504.89	4	4,845.81	4		4		4		4		4	
1/4	3,485.26	1/4	3,827.88	1/4	4,170.54	1/4	4,512.00	1/4	4,852.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,492.39	1/2	3,835.02	1/2	4,177.68	1/2	4,519.11	1/2	4,859.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,499.53	3/4	3,842.16	3/4	4,184.82	3/4	4,526.21	3/4	4,866.99	3/4		3/4		3/4		3/4		3/4	
5	3,506.67	5	3,849.30	5	4,191.96	5	4,533.32	5	4,874.05	5		5		5		5		5	
1/4	3,513.80	1/4	3,856.44	1/4	4,199.10	1/4	4,540.42	1/4	4,881.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,520.94	1/2	3,863.57	1/2	4,206.24	1/2	4,547.53	1/2	4,888.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,528.08	3/4	3,870.71	3/4	4,213.38	3/4	4,554.64	3/4	4,895.24	3/4		3/4		3/4		3/4		3/4	
6	3,535.21	6	3,877.85	6	4,220.51	6	4,561.74	6	4,902.30	6		6		6		6		6	
1/4	3,542.35	1/4	3,884.99	1/4	4,227.65	1/4	4,568.85	1/4	4,909.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,549.49	1/2	3,892.13	1/2	4,234.79	1/2	4,575.95	1/2	4,916.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,556.62	3/4	3,899.27	3/4	4,241.93	3/4	4,583.06	3/4	4,923.44	3/4		3/4		3/4		3/4		3/4	
7	3,563.76	7	3,906.41	7	4,249.07	7	4,590.17	7	4,930.49	7		7		7		7		7	
1/4	3,570.90	1/4	3,913.55	1/4	4,256.18	1/4	4,597.27	1/4	4,937.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,578.03	1/2	3,920.68	1/2	4,263.28	1/2	4,604.38	1/2	4,944.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,585.17	3/4	3,927.82	3/4	4,270.39	3/4	4,611.49	3/4	4,951.46	3/4		3/4		3/4		3/4		3/4	
8	3,592.31	8	3,934.96	8	4,277.49	8	4,618.59	8	4,958.46	8		8		8		8		8	
1/4	3,599.44	1/4	3,942.10	1/4	4,284.60	1/4	4,625.70	1/4	4,964.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,606.58	1/2	3,949.24	1/2	4,291.71	1/2	4,632.80	1/2	4,970.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,613.72	3/4	3,956.38	3/4	4,298.81	3/4	4,639.91	3/4	4,976.96	3/4		3/4		3/4		3/4		3/4	
9	3,620.86	9	3,963.52	9	4,305.92	9	4,647.02	9	4,983.13	9		9		9		9		9	
1/4	3,627.99	1/4	3,970.66	1/4	4,313.03	1/4	4,654.12	1/4	4,988.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.13	1/2	3,977.80	1/2	4,320.13	1/2	4,661.23	1/2	4,993.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,642.27	3/4	3,984.93	3/4	4,327.24	3/4	4,668.34	3/4	4,998.07	3/4		3/4		3/4		3/4		3/4	
10	3,649.41	10	3,992.07	10	4,334.34	10	4,675.44	10	5,003.05	10		10		10		10		10	
1/4	3,656.55	1/4	3,999.21	1/4	4,341.45	1/4	4,682.55	1/4	5,006.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,663.69	1/2	4,006.35	1/2	4,348.56	1/2	4,689.65	1/2	5,010.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,670.83	3/4	4,013.49	3/4	4,355.66	3/4	4,696.76	3/4	5,014.41	3/4		3/4		3/4		3/4		3/4	
11	3,677.97	11	4,020.63	11	4,362.77	11	4,703.87	11	5,018.20	11		11		11		11		11	
1/4	3,685.10	1/4	4,027.77	1/4	4,369.88	1/4	4,710.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.24	1/2	4,034.91	1/2	4,376.98	1/2	4,718.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.38	3/4	4,042.04	3/4	4,384.09	3/4	4,725.19	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

1 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.64	0	290.65	0	625.03	0	967.38	0	1,309.88	0	1,652.45	0	1,995.02	0	2,337.59	0	2,680.16	0	3,022.69
1/4	17.55	1/4	297.25	1/4	632.17	1/4	974.51	1/4	1,317.01	1/4	1,659.59	1/4	2,002.16	1/4	2,344.73	1/4	2,687.29	1/4	3,029.83
1/2	20.47	1/2	303.84	1/2	639.30	1/2	981.64	1/2	1,324.15	1/2	1,666.72	1/2	2,009.29	1/2	2,351.86	1/2	2,694.43	1/2	3,036.96
3/4	23.39	3/4	310.43	3/4	646.44	3/4	988.76	3/4	1,331.29	3/4	1,673.86	3/4	2,016.43	3/4	2,359.00	3/4	2,701.57	3/4	3,044.10
1	26.30	1	317.03	1	653.58	1	995.89	1	1,338.42	1	1,681.00	1	2,023.57	1	2,366.14	1	2,708.70	1	3,051.23
1/4	31.09	1/4	323.71	1/4	660.71	1/4	1,003.02	1/4	1,345.56	1/4	1,688.13	1/4	2,030.70	1/4	2,373.28	1/4	2,715.84	1/4	3,058.36
1/2	35.87	1/2	330.38	1/2	667.85	1/2	1,010.15	1/2	1,352.70	1/2	1,695.27	1/2	2,037.84	1/2	2,380.41	1/2	2,722.98	1/2	3,065.50
3/4	40.65	3/4	337.06	3/4	674.99	3/4	1,017.28	3/4	1,359.84	3/4	1,702.41	3/4	2,044.98	3/4	2,387.55	3/4	2,730.11	3/4	3,072.63
2	45.44	2	343.74	2	682.12	2	1,024.40	2	1,366.97	2	1,709.54	2	2,052.11	2	2,394.69	2	2,737.25	2	3,079.77
1/4	51.16	1/4	350.50	1/4	689.26	1/4	1,031.54	1/4	1,374.11	1/4	1,716.68	1/4	2,059.25	1/4	2,401.82	1/4	2,744.38	1/4	3,086.90
1/2	56.88	1/2	357.26	1/2	696.40	1/2	1,038.68	1/2	1,381.25	1/2	1,723.82	1/2	2,066.39	1/2	2,408.96	1/2	2,751.52	1/2	3,094.04
3/4	62.61	3/4	364.02	3/4	703.53	3/4	1,045.81	3/4	1,388.38	3/4	1,730.95	3/4	2,073.53	3/4	2,416.10	3/4	2,758.66	3/4	3,101.17
3	68.33	3	370.78	3	710.67	3	1,052.95	3	1,395.52	3	1,738.09	3	2,080.66	3	2,423.23	3	2,765.79	3	3,108.31
1/4	74.16	1/4	377.63	1/4	717.81	1/4	1,060.09	1/4	1,402.66	1/4	1,745.23	1/4	2,087.80	1/4	2,430.37	1/4	2,772.93	1/4	3,115.44
1/2	79.99	1/2	384.47	1/2	724.94	1/2	1,067.22	1/2	1,409.79	1/2	1,752.37	1/2	2,094.94	1/2	2,437.51	1/2	2,780.07	1/2	3,122.58
3/4	85.83	3/4	391.32	3/4	732.08	3/4	1,074.36	3/4	1,416.93	3/4	1,759.50	3/4	2,102.07	3/4	2,444.64	3/4	2,787.20	3/4	3,129.71
4	91.66	4	398.16	4	739.22	4	1,081.50	4	1,424.07	4	1,766.64	4	2,109.21	4	2,451.78	4	2,794.34	4	3,136.84
1/4	97.58	1/4	405.09	1/4	746.35	1/4	1,088.63	1/4	1,431.20	1/4	1,773.78	1/4	2,116.35	1/4	2,458.92	1/4	2,801.47	1/4	3,143.98
1/2	103.51	1/2	412.02	1/2	753.49	1/2	1,095.77	1/2	1,438.34	1/2	1,780.91	1/2	2,123.48	1/2	2,466.06	1/2	2,808.61	1/2	3,151.11
3/4	109.44	3/4	418.95	3/4	760.63	3/4	1,102.91	3/4	1,445.48	3/4	1,788.05	3/4	2,130.62	3/4	2,473.19	3/4	2,815.75	3/4	3,158.25
5	115.36	5	425.87	5	767.76	5	1,110.04	5	1,452.62	5	1,795.19	5	2,137.76	5	2,480.33	5	2,822.88	5	3,165.38
1/4	121.37	1/4	432.89	1/4	774.90	1/4	1,117.18	1/4	1,459.75	1/4	1,802.32	1/4	2,144.89	1/4	2,487.47	1/4	2,830.02	1/4	3,172.52
1/2	127.38	1/2	439.90	1/2	782.04	1/2	1,124.32	1/2	1,466.89	1/2	1,809.46	1/2	2,152.03	1/2	2,494.60	1/2	2,837.16	1/2	3,179.65
3/4	133.39	3/4	446.91	3/4	789.17	3/4	1,131.45	3/4	1,474.03	3/4	1,816.60	3/4	2,159.17	3/4	2,501.74	3/4	2,844.29	3/4	3,186.79
6	139.40	6	453.92	6	796.31	6	1,138.59	6	1,481.16	6	1,823.73	6	2,166.31	6	2,508.88	6	2,851.43	6	3,193.92
1/4	145.49	1/4	461.01	1/4	803.44	1/4	1,145.73	1/4	1,488.30	1/4	1,830.87	1/4	2,173.44	1/4	2,516.01	1/4	2,858.56	1/4	3,201.05
1/2	151.59	1/2	468.11	1/2	810.57	1/2	1,152.87	1/2	1,495.44	1/2	1,838.01	1/2	2,180.58	1/2	2,523.15	1/2	2,865.70	1/2	3,208.19
3/4	157.68	3/4	475.20	3/4	817.69	3/4	1,160.00	3/4	1,502.57	3/4	1,845.14	3/4	2,187.72	3/4	2,530.29	3/4	2,872.84	3/4	3,215.32
7	163.77	7	482.30	7	824.82	7	1,167.14	7	1,509.71	7	1,852.28	7	2,194.85	7	2,537.42	7	2,879.97	7	3,222.46
1/4	169.95	1/4	489.44	1/4	831.95	1/4	1,174.28	1/4	1,516.85	1/4	1,859.42	1/4	2,201.99	1/4	2,544.56	1/4	2,887.11	1/4	3,229.59
1/2	176.13	1/2	496.57	1/2	839.08	1/2	1,181.41	1/2	1,523.98	1/2	1,866.56	1/2	2,209.13	1/2	2,551.70	1/2	2,894.25	1/2	3,236.73
3/4	182.31	3/4	503.71	3/4	846.20	3/4	1,188.55	3/4	1,531.12	3/4	1,873.69	3/4	2,216.26	3/4	2,558.83	3/4	2,901.38	3/4	3,243.86
8	188.48	8	510.85	8	853.33	8	1,195.69	8	1,538.26	8	1,880.83	8	2,223.40	8	2,565.97	8	2,908.52	8	3,251.00
1/4	194.74	1/4	517.98	1/4	860.46	1/4	1,202.82	1/4	1,545.39	1/4	1,887.97	1/4	2,230.54	1/4	2,573.11	1/4	2,915.66	1/4	3,258.13
1/2	201.00	1/2	525.12	1/2	867.59	1/2	1,209.96	1/2	1,552.53	1/2	1,895.10	1/2	2,237.67	1/2	2,580.25	1/2	2,922.79	1/2	3,265.27
3/4	207.26	3/4	532.26	3/4	874.72	3/4	1,217.10	3/4	1,559.67	3/4	1,902.24	3/4	2,244.81	3/4	2,587.38	3/4	2,929.93	3/4	3,272.40
9	213.52	9	539.39	9	881.84	9	1,224.23	9	1,566.81	9	1,909.38	9	2,251.95	9	2,594.52	9	2,937.06	9	3,279.53
1/4	219.87	1/4	546.53	1/4	888.97	1/4	1,231.37	1/4	1,573.94	1/4	1,916.51	1/4	2,259.08	1/4	2,601.66	1/4	2,944.20	1/4	3,286.67
1/2	226.21	1/2	553.67	1/2	896.10	1/2	1,238.51	1/2	1,581.08	1/2	1,923.65	1/2	2,266.22	1/2	2,608.79	1/2	2,951.34	1/2	3,293.80
3/4	232.56	3/4	560.80	3/4	903.23	3/4	1,245.65	3/4	1,588.22	3/4	1,930.79	3/4	2,273.36	3/4	2,615.93	3/4	2,958.47	3/4	3,300.94
10	238.90	10	567.94	10	910.36	10	1,252.78	10	1,595.35	10	1,937.92	10	2,280.50	10	2,623.07	10	2,965.61	10	3,308.07
1/4	245.33	1/4	575.08	1/4	917.48	1/4	1,259.92	1/4	1,602.49	1/4	1,945.06	1/4	2,287.63	1/4	2,630.20	1/4	2,972.75	1/4	3,315.21
1/2	251.75	1/2	582.21	1/2	924.61	1/2	1,267.06	1/2	1,609.63	1/2	1,952.20	1/2	2,294.77	1/2	2,637.34	1/2	2,979.88	1/2	3,322.34
3/4	258.18	3/4	589.35	3/4	931.74	3/4	1,274.19	3/4	1,616.76	3/4	1,959.34	3/4	2,301.91	3/4	2,644.48	3/4	2,987.02	3/4	3,329.48
11	264.61	11	596.49	11	938.87	11	1,281.33	11	1,623.90	11	1,966.47	11	2,309.04	11	2,651.61	11	2,994.15	11	3,336.61
1/4	271.12	1/4	603.62	1/4	946.00	1/4	1,288.47	1/4	1,631.04	1/4	1,973.61	1/4	2,316.18	1/4	2,658.75	1/4	3,001.29	1/4	3,343.74
1/2	277.63	1/2	610.76	1/2	953.12	1/2	1,295.60	1/2	1,638.17	1/2	1,980.75	1/2	2,323.32	1/2	2,665.88	1/2	3,008.42	1/2	3,350.88
3/4	284.14	3/4	617.90	3/4	960.25	3/4	1,302.74	3/4	1,645.31	3/4	1,987.88	3/4	2,330.45	3/4	2,673.02	3/4	3,015.56	3/4	3,358.01

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

1 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,365.15	0	3,707.63	0	4,050.17	0	4,392.07	0	4,733.05	0		0		0		0		0	
1/4	3,372.28	1/4	3,714.76	1/4	4,057.31	1/4	4,399.17	1/4	4,740.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,379.42	1/2	3,721.90	1/2	4,064.45	1/2	4,406.28	1/2	4,747.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,386.55	3/4	3,729.04	3/4	4,071.58	3/4	4,413.38	3/4	4,754.36	3/4		3/4		3/4		3/4		3/4	
1	3,393.69	1	3,736.17	1	4,078.72	1	4,420.48	1	4,761.47	1		1		1		1		1	
1/4	3,400.82	1/4	3,743.31	1/4	4,085.86	1/4	4,427.59	1/4	4,768.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,407.96	1/2	3,750.45	1/2	4,092.99	1/2	4,434.69	1/2	4,775.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,415.09	3/4	3,757.58	3/4	4,100.13	3/4	4,441.80	3/4	4,782.78	3/4		3/4		3/4		3/4		3/4	
2	3,422.22	2	3,764.72	2	4,107.27	2	4,448.90	2	4,789.88	2		2		2		2		2	
1/4	3,429.36	1/4	3,771.85	1/4	4,114.40	1/4	4,456.00	1/4	4,796.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,436.49	1/2	3,778.99	1/2	4,121.54	1/2	4,463.11	1/2	4,804.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,443.63	3/4	3,786.13	3/4	4,128.67	3/4	4,470.21	3/4	4,811.19	3/4		3/4		3/4		3/4		3/4	
3	3,450.76	3	3,793.26	3	4,135.81	3	4,477.32	3	4,818.30	3		3		3		3		3	
1/4	3,457.90	1/4	3,800.40	1/4	4,142.95	1/4	4,484.42	1/4	4,825.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,465.03	1/2	3,807.54	1/2	4,150.08	1/2	4,491.52	1/2	4,832.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,472.17	3/4	3,814.67	3/4	4,157.22	3/4	4,498.63	3/4	4,839.48	3/4		3/4		3/4		3/4		3/4	
4	3,479.30	4	3,821.81	4	4,164.36	4	4,505.73	4	4,846.54	4		4		4		4		4	
1/4	3,486.43	1/4	3,828.95	1/4	4,171.49	1/4	4,512.83	1/4	4,853.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,493.57	1/2	3,836.08	1/2	4,178.63	1/2	4,519.94	1/2	4,860.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,500.70	3/4	3,843.22	3/4	4,185.77	3/4	4,527.04	3/4	4,867.71	3/4		3/4		3/4		3/4		3/4	
5	3,507.84	5	3,850.36	5	4,192.90	5	4,534.15	5	4,874.77	5		5		5		5		5	
1/4	3,514.97	1/4	3,857.49	1/4	4,200.04	1/4	4,541.25	1/4	4,881.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,522.11	1/2	3,864.63	1/2	4,207.18	1/2	4,548.35	1/2	4,888.89	1/2		1/2		1/2		1/2		1/2	
3/4	3,529.24	3/4	3,871.76	3/4	4,214.31	3/4	4,555.46	3/4	4,895.95	3/4		3/4		3/4		3/4		3/4	
6	3,536.38	6	3,878.90	6	4,221.45	6	4,562.56	6	4,903.00	6		6		6		6		6	
1/4	3,543.51	1/4	3,886.04	1/4	4,228.58	1/4	4,569.66	1/4	4,910.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.65	1/2	3,893.17	1/2	4,235.72	1/2	4,576.77	1/2	4,917.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,557.78	3/4	3,900.31	3/4	4,242.86	3/4	4,583.87	3/4	4,924.14	3/4		3/4		3/4		3/4		3/4	
7	3,564.91	7	3,907.45	7	4,249.99	7	4,590.98	7	4,931.18	7		7		7		7		7	
1/4	3,572.05	1/4	3,914.58	1/4	4,257.10	1/4	4,598.08	1/4	4,938.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,579.18	1/2	3,921.72	1/2	4,264.20	1/2	4,605.18	1/2	4,945.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,586.32	3/4	3,928.86	3/4	4,271.31	3/4	4,612.29	3/4	4,952.15	3/4		3/4		3/4		3/4		3/4	
8	3,593.45	8	3,935.99	8	4,278.41	8	4,619.39	8	4,959.14	8		8		8		8		8	
1/4	3,600.59	1/4	3,943.13	1/4	4,285.51	1/4	4,626.50	1/4	4,965.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,607.72	1/2	3,950.26	1/2	4,292.62	1/2	4,633.60	1/2	4,971.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,614.86	3/4	3,957.40	3/4	4,299.72	3/4	4,640.70	3/4	4,977.64	3/4		3/4		3/4		3/4		3/4	
9	3,621.99	9	3,964.54	9	4,306.82	9	4,647.81	9	4,983.81	9		9		9		9		9	
1/4	3,629.13	1/4	3,971.67	1/4	4,313.93	1/4	4,654.91	1/4	4,988.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,636.26	1/2	3,978.81	1/2	4,321.03	1/2	4,662.01	1/2	4,993.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,643.40	3/4	3,985.95	3/4	4,328.14	3/4	4,669.12	3/4	4,998.74	3/4		3/4		3/4		3/4		3/4	
10	3,650.54	10	3,993.08	10	4,335.24	10	4,676.22	10	5,003.72	10		10		10		10		10	
1/4	3,657.67	1/4	4,000.22	1/4	4,342.34	1/4	4,683.33	1/4	5,007.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,664.81	1/2	4,007.36	1/2	4,349.45	1/2	4,690.43	1/2	5,011.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,671.95	3/4	4,014.49	3/4	4,356.55	3/4	4,697.53	3/4	5,015.08	3/4		3/4		3/4		3/4		3/4	
11	3,679.08	11	4,021.63	11	4,363.65	11	4,704.64	11	5,018.87	11		11		11		11		11	
1/4	3,686.22	1/4	4,028.77	1/4	4,370.76	1/4	4,711.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.35	1/2	4,035.90	1/2	4,377.86	1/2	4,718.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.49	3/4	4,043.04	3/4	4,384.97	3/4	4,725.95	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

2 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.67	0	343.60	0	687.03	0	1,020.75	0	1,359.41	0	1,702.85	0	2,046.30	0	2,389.74	0	2,733.19	0	3,076.62
1/4	19.15	1/4	350.75	1/4	694.18	1/4	1,027.60	1/4	1,366.56	1/4	1,710.01	1/4	2,053.45	1/4	2,396.90	1/4	2,740.34	1/4	3,083.78
1/2	23.62	1/2	357.91	1/2	701.34	1/2	1,034.45	1/2	1,373.72	1/2	1,717.16	1/2	2,060.61	1/2	2,404.05	1/2	2,747.50	1/2	3,090.93
3/4	28.09	3/4	365.06	3/4	708.49	3/4	1,041.30	3/4	1,380.87	3/4	1,724.32	3/4	2,067.76	3/4	2,411.21	3/4	2,754.65	3/4	3,098.08
1	32.56	1	372.22	1	715.65	1	1,048.14	1	1,388.03	1	1,731.47	1	2,074.92	1	2,418.36	1	2,761.81	1	3,105.24
1/4	38.82	1/4	379.37	1/4	722.80	1/4	1,054.99	1/4	1,395.18	1/4	1,738.63	1/4	2,082.07	1/4	2,425.52	1/4	2,768.96	1/4	3,112.39
1/2	45.08	1/2	386.53	1/2	729.96	1/2	1,061.84	1/2	1,402.34	1/2	1,745.78	1/2	2,089.23	1/2	2,432.67	1/2	2,776.12	1/2	3,119.54
3/4	51.34	3/4	393.68	3/4	737.11	3/4	1,068.68	3/4	1,409.49	3/4	1,752.94	3/4	2,096.38	3/4	2,439.83	3/4	2,783.27	3/4	3,126.70
2	57.60	2	400.84	2	744.27	2	1,075.53	2	1,416.65	2	1,760.09	2	2,103.54	2	2,446.98	2	2,790.43	2	3,133.85
1/4	64.72	1/4	407.99	1/4	751.42	1/4	1,082.39	1/4	1,423.80	1/4	1,767.25	1/4	2,110.69	1/4	2,454.14	1/4	2,797.58	1/4	3,141.00
1/2	71.83	1/2	415.15	1/2	758.58	1/2	1,089.24	1/2	1,430.96	1/2	1,774.40	1/2	2,117.85	1/2	2,461.29	1/2	2,804.74	1/2	3,148.16
3/4	78.95	3/4	422.30	3/4	765.73	3/4	1,096.10	3/4	1,438.11	3/4	1,781.56	3/4	2,125.00	3/4	2,468.45	3/4	2,811.89	3/4	3,155.31
3	86.07	3	429.46	3	772.89	3	1,102.95	3	1,445.27	3	1,788.71	3	2,132.16	3	2,475.60	3	2,819.05	3	3,162.46
1/4	93.22	1/4	436.61	1/4	780.04	1/4	1,109.83	1/4	1,452.42	1/4	1,795.87	1/4	2,139.31	1/4	2,482.76	1/4	2,826.20	1/4	3,169.61
1/2	100.36	1/2	443.76	1/2	787.20	1/2	1,116.70	1/2	1,459.58	1/2	1,803.02	1/2	2,146.47	1/2	2,489.91	1/2	2,833.36	1/2	3,176.77
3/4	107.51	3/4	450.92	3/4	794.35	3/4	1,123.57	3/4	1,466.74	3/4	1,810.18	3/4	2,153.62	3/4	2,497.07	3/4	2,840.51	3/4	3,183.92
4	114.65	4	458.07	4	801.50	4	1,130.45	4	1,473.89	4	1,817.33	4	2,160.78	4	2,504.22	4	2,847.67	4	3,191.07
1/4	121.80	1/4	465.23	1/4	808.38	1/4	1,137.60	1/4	1,481.05	1/4	1,824.49	1/4	2,167.93	1/4	2,511.38	1/4	2,854.82	1/4	3,198.23
1/2	128.96	1/2	472.38	1/2	815.25	1/2	1,144.76	1/2	1,488.20	1/2	1,831.65	1/2	2,175.09	1/2	2,518.53	1/2	2,861.98	1/2	3,205.38
3/4	136.11	3/4	479.54	3/4	822.13	3/4	1,151.91	3/4	1,495.36	3/4	1,838.80	3/4	2,182.24	3/4	2,525.69	3/4	2,869.13	3/4	3,212.53
5	143.26	5	486.69	5	829.00	5	1,159.07	5	1,502.51	5	1,845.96	5	2,189.40	5	2,532.84	5	2,876.29	5	3,219.69
1/4	150.42	1/4	493.85	1/4	835.85	1/4	1,166.22	1/4	1,509.67	1/4	1,853.11	1/4	2,196.56	1/4	2,540.00	1/4	2,883.44	1/4	3,226.84
1/2	157.57	1/2	501.00	1/2	842.71	1/2	1,173.38	1/2	1,516.82	1/2	1,860.27	1/2	2,203.71	1/2	2,547.16	1/2	2,890.60	1/2	3,233.99
3/4	164.73	3/4	508.16	3/4	849.57	3/4	1,180.53	3/4	1,523.98	3/4	1,867.42	3/4	2,210.87	3/4	2,554.31	3/4	2,897.75	3/4	3,241.15
6	171.88	6	515.31	6	856.42	6	1,187.69	6	1,531.13	6	1,874.58	6	2,218.02	6	2,561.47	6	2,904.91	6	3,248.30
1/4	179.04	1/4	522.47	1/4	863.27	1/4	1,194.84	1/4	1,538.29	1/4	1,881.73	1/4	2,225.18	1/4	2,568.62	1/4	2,912.07	1/4	3,255.45
1/2	186.19	1/2	529.62	1/2	870.11	1/2	1,202.00	1/2	1,545.44	1/2	1,888.89	1/2	2,232.33	1/2	2,575.78	1/2	2,919.22	1/2	3,262.61
3/4	193.35	3/4	536.78	3/4	876.96	3/4	1,209.15	3/4	1,552.60	3/4	1,896.04	3/4	2,239.49	3/4	2,582.93	3/4	2,926.38	3/4	3,269.76
7	200.50	7	543.93	7	883.81	7	1,216.31	7	1,559.75	7	1,903.20	7	2,246.64	7	2,590.09	7	2,933.53	7	3,276.91
1/4	207.66	1/4	551.09	1/4	890.66	1/4	1,223.46	1/4	1,566.91	1/4	1,910.35	1/4	2,253.80	1/4	2,597.24	1/4	2,940.69	1/4	3,284.06
1/2	214.81	1/2	558.24	1/2	897.50	1/2	1,230.62	1/2	1,574.06	1/2	1,917.51	1/2	2,260.95	1/2	2,604.40	1/2	2,947.84	1/2	3,291.22
3/4	221.97	3/4	565.40	3/4	904.35	3/4	1,237.77	3/4	1,581.22	3/4	1,924.66	3/4	2,268.11	3/4	2,611.55	3/4	2,955.00	3/4	3,298.37
8	229.12	8	572.55	8	911.20	8	1,244.93	8	1,588.37	8	1,931.82	8	2,275.26	8	2,618.71	8	2,962.15	8	3,305.52
1/4	236.28	1/4	579.71	1/4	918.04	1/4	1,252.08	1/4	1,595.53	1/4	1,938.97	1/4	2,282.42	1/4	2,625.86	1/4	2,969.31	1/4	3,312.68
1/2	243.43	1/2	586.86	1/2	924.89	1/2	1,259.24	1/2	1,602.68	1/2	1,946.13	1/2	2,289.57	1/2	2,633.02	1/2	2,976.46	1/2	3,319.83
3/4	250.59	3/4	594.02	3/4	931.74	3/4	1,266.39	3/4	1,609.84	3/4	1,953.28	3/4	2,296.73	3/4	2,640.17	3/4	2,983.62	3/4	3,326.98
9	257.74	9	601.17	9	938.59	9	1,273.55	9	1,616.99	9	1,960.44	9	2,303.88	9	2,647.33	9	2,990.77	9	3,334.14
1/4	264.89	1/4	608.33	1/4	945.43	1/4	1,280.70	1/4	1,624.15	1/4	1,967.59	1/4	2,311.04	1/4	2,654.48	1/4	2,997.93	1/4	3,341.29
1/2	272.05	1/2	615.48	1/2	952.28	1/2	1,287.86	1/2	1,631.30	1/2	1,974.75	1/2	2,318.19	1/2	2,661.64	1/2	3,005.08	1/2	3,348.44
3/4	279.20	3/4	622.63	3/4	959.13	3/4	1,295.01	3/4	1,638.46	3/4	1,981.90	3/4	2,325.35	3/4	2,668.79	3/4	3,012.24	3/4	3,355.60
10	286.36	10	629.79	10	965.97	10	1,302.17	10	1,645.61	10	1,989.06	10	2,332.50	10	2,675.95	10	3,019.39	10	3,362.75
1/4	293.51	1/4	636.94	1/4	972.82	1/4	1,309.32	1/4	1,652.77	1/4	1,996.21	1/4	2,339.66	1/4	2,683.10	1/4	3,026.55	1/4	3,369.90
1/2	300.67	1/2	644.10	1/2	979.67	1/2	1,316.48	1/2	1,659.92	1/2	2,003.37	1/2	2,346.81	1/2	2,690.26	1/2	3,033.70	1/2	3,377.05
3/4	307.82	3/4	651.25	3/4	986.52	3/4	1,323.63	3/4	1,667.08	3/4	2,010.52	3/4	2,353.97	3/4	2,697.41	3/4	3,040.86	3/4	3,384.21
11	314.98	11	658.41	11	993.36	11	1,330.79	11	1,674.23	11	2,017.68	11	2,361.12	11	2,704.57	11	3,048.01	11	3,391.36
1/4	322.13	1/4	665.56	1/4	1,000.21	1/4	1,337.94	1/4	1,681.39	1/4	2,024.83	1/4	2,368.28	1/4	2,711.72	1/4	3,055.17	1/4	3,398.51
1/2	329.29	1/2	672.72	1/2	1,007.06	1/2	1,345.10	1/2	1,688.54	1/2	2,031.99	1/2	2,375.43	1/2	2,718.88	1/2	3,062.32	1/2	3,405.67
3/4	336.44	3/4	679.87	3/4	1,013.91	3/4	1,352.25	3/4	1,695.70	3/4	2,039.14	3/4	2,382.59	3/4	2,726.03	3/4	3,069.47	3/4	3,412.82

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,419.97	0	3,763.32	0	4,106.67	0	4,449.36	0	4,791.14	0		0		0		0		0	
1/4	3,427.13	1/4	3,770.48	1/4	4,113.82	1/4	4,456.48	1/4	4,798.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,434.28	1/2	3,777.63	1/2	4,120.98	1/2	4,463.60	1/2	4,805.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,441.43	3/4	3,784.78	3/4	4,128.13	3/4	4,470.72	3/4	4,812.50	3/4		3/4		3/4		3/4		3/4	
1	3,448.59	1	3,791.93	1	4,135.28	1	4,477.84	1	4,819.62	1		1		1		1		1	
1/4	3,455.74	1/4	3,799.09	1/4	4,142.44	1/4	4,484.97	1/4	4,826.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,462.89	1/2	3,806.24	1/2	4,149.59	1/2	4,492.09	1/2	4,833.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,470.04	3/4	3,813.39	3/4	4,156.74	3/4	4,499.21	3/4	4,840.98	3/4		3/4		3/4		3/4		3/4	
2	3,477.20	2	3,820.55	2	4,163.90	2	4,506.33	2	4,848.10	2		2		2		2		2	
1/4	3,484.35	1/4	3,827.70	1/4	4,171.05	1/4	4,513.45	1/4	4,855.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,491.50	1/2	3,834.85	1/2	4,178.20	1/2	4,520.57	1/2	4,862.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,498.66	3/4	3,842.01	3/4	4,185.35	3/4	4,527.69	3/4	4,869.46	3/4		3/4		3/4		3/4		3/4	
3	3,505.81	3	3,849.16	3	4,192.51	3	4,534.81	3	4,876.58	3		3		3		3		3	
1/4	3,512.96	1/4	3,856.31	1/4	4,199.66	1/4	4,541.93	1/4	4,883.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,520.12	1/2	3,863.47	1/2	4,206.81	1/2	4,549.05	1/2	4,890.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,527.27	3/4	3,870.62	3/4	4,213.97	3/4	4,556.17	3/4	4,897.81	3/4		3/4		3/4		3/4		3/4	
4	3,534.42	4	3,877.77	4	4,221.12	4	4,563.29	4	4,904.88	4		4		4		4		4	
1/4	3,541.58	1/4	3,884.92	1/4	4,228.27	1/4	4,570.41	1/4	4,911.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,548.73	1/2	3,892.08	1/2	4,235.43	1/2	4,577.53	1/2	4,919.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.88	3/4	3,899.23	3/4	4,242.58	3/4	4,584.65	3/4	4,926.11	3/4		3/4		3/4		3/4		3/4	
5	3,563.04	5	3,906.38	5	4,249.73	5	4,591.77	5	4,933.19	5		5		5		5		5	
1/4	3,570.19	1/4	3,913.54	1/4	4,256.89	1/4	4,598.89	1/4	4,940.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,577.34	1/2	3,920.69	1/2	4,264.04	1/2	4,606.01	1/2	4,947.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.49	3/4	3,927.84	3/4	4,271.19	3/4	4,613.13	3/4	4,954.40	3/4		3/4		3/4		3/4		3/4	
6	3,591.65	6	3,935.00	6	4,278.35	6	4,620.25	6	4,961.48	6		6		6		6		6	
1/4	3,598.80	1/4	3,942.15	1/4	4,285.50	1/4	4,627.37	1/4	4,968.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,605.95	1/2	3,949.30	1/2	4,292.65	1/2	4,634.49	1/2	4,975.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,613.11	3/4	3,956.46	3/4	4,299.80	3/4	4,641.61	3/4	4,982.66	3/4		3/4		3/4		3/4		3/4	
7	3,620.26	7	3,963.61	7	4,306.96	7	4,648.73	7	4,989.72	7		7		7		7		7	
1/4	3,627.41	1/4	3,970.76	1/4	4,314.08	1/4	4,655.85	1/4	4,996.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,634.57	1/2	3,977.92	1/2	4,321.20	1/2	4,662.97	1/2	5,003.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,641.72	3/4	3,985.07	3/4	4,328.32	3/4	4,670.09	3/4	5,010.74	3/4		3/4		3/4		3/4		3/4	
8	3,648.87	8	3,992.22	8	4,335.44	8	4,677.21	8	5,017.75	8		8		8		8		8	
1/4	3,656.03	1/4	3,999.37	1/4	4,342.56	1/4	4,684.33	1/4	5,023.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,663.18	1/2	4,006.53	1/2	4,349.68	1/2	4,691.45	1/2	5,030.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,670.33	3/4	4,013.68	3/4	4,356.80	3/4	4,698.57	3/4	5,036.29	3/4		3/4		3/4		3/4		3/4	
9	3,677.48	9	4,020.83	9	4,363.92	9	4,705.69	9	5,042.47	9		9		9		9		9	
1/4	3,684.64	1/4	4,027.99	1/4	4,371.04	1/4	4,712.81	1/4	5,047.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,691.79	1/2	4,035.14	1/2	4,378.16	1/2	4,719.94	1/2	5,052.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.94	3/4	4,042.29	3/4	4,385.28	3/4	4,727.06	3/4	5,057.44	3/4		3/4		3/4		3/4		3/4	
10	3,706.10	10	4,049.45	10	4,392.40	10	4,734.18	10	5,062.43	10		10		10		10		10	
1/4	3,713.25	1/4	4,056.60	1/4	4,399.52	1/4	4,741.30	1/4	5,066.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,720.40	1/2	4,063.75	1/2	4,406.64	1/2	4,748.42	1/2	5,070.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,727.56	3/4	4,070.91	3/4	4,413.76	3/4	4,755.54	3/4	5,073.81	3/4		3/4		3/4		3/4		3/4	
11	3,734.71	11	4,078.06	11	4,420.88	11	4,762.66	11	5,077.61	11		11		11		11		11	
1/4	3,741.86	1/4	4,085.21	1/4	4,428.00	1/4	4,769.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,749.02	1/2	4,092.36	1/2	4,435.12	1/2	4,776.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,756.17	3/4	4,099.52	3/4	4,442.24	3/4	4,784.02	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

2 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.70	0	344.08	0	687.99	0	1,031.54	0	1,375.33	0	1,719.26	0	2,063.18	0	2,407.11	0	2,751.03	0	3,094.95
1/4	19.17	1/4	351.24	1/4	695.15	1/4	1,038.70	1/4	1,382.50	1/4	1,726.42	1/4	2,070.35	1/4	2,414.27	1/4	2,758.20	1/4	3,102.11
1/2	23.65	1/2	358.41	1/2	702.32	1/2	1,045.85	1/2	1,389.66	1/2	1,733.59	1/2	2,077.51	1/2	2,421.44	1/2	2,765.36	1/2	3,109.27
3/4	28.13	3/4	365.57	3/4	709.48	3/4	1,053.00	3/4	1,396.83	3/4	1,740.75	3/4	2,084.68	3/4	2,428.60	3/4	2,772.53	3/4	3,116.44
1	32.61	1	372.74	1	716.65	1	1,060.15	1	1,403.99	1	1,747.92	1	2,091.84	1	2,435.77	1	2,779.69	1	3,123.60
1/4	38.88	1/4	379.90	1/4	723.81	1/4	1,067.30	1/4	1,411.16	1/4	1,755.08	1/4	2,099.01	1/4	2,442.93	1/4	2,786.86	1/4	3,130.76
1/2	45.14	1/2	387.07	1/2	730.98	1/2	1,074.45	1/2	1,418.32	1/2	1,762.25	1/2	2,106.17	1/2	2,450.10	1/2	2,794.02	1/2	3,137.92
3/4	51.41	3/4	394.23	3/4	738.14	3/4	1,081.60	3/4	1,425.49	3/4	1,769.41	3/4	2,113.34	3/4	2,457.26	3/4	2,801.19	3/4	3,145.09
2	57.68	2	401.40	2	745.31	2	1,088.75	2	1,432.65	2	1,776.58	2	2,120.50	2	2,464.43	2	2,808.35	2	3,152.25
1/4	64.81	1/4	408.56	1/4	752.47	1/4	1,095.91	1/4	1,439.82	1/4	1,783.74	1/4	2,127.67	1/4	2,471.59	1/4	2,815.52	1/4	3,159.41
1/2	71.94	1/2	415.73	1/2	759.64	1/2	1,103.07	1/2	1,446.98	1/2	1,790.91	1/2	2,134.83	1/2	2,478.76	1/2	2,822.68	1/2	3,166.58
3/4	79.06	3/4	422.89	3/4	766.80	3/4	1,110.23	3/4	1,454.15	3/4	1,798.07	3/4	2,142.00	3/4	2,485.92	3/4	2,829.85	3/4	3,173.74
3	86.19	3	430.06	3	773.97	3	1,117.39	3	1,461.31	3	1,805.24	3	2,149.16	3	2,493.09	3	2,837.01	3	3,180.90
1/4	93.35	1/4	437.22	1/4	781.13	1/4	1,124.55	1/4	1,468.48	1/4	1,812.40	1/4	2,156.33	1/4	2,500.25	1/4	2,844.18	1/4	3,188.07
1/2	100.50	1/2	444.39	1/2	788.30	1/2	1,131.72	1/2	1,475.64	1/2	1,819.57	1/2	2,163.49	1/2	2,507.42	1/2	2,851.34	1/2	3,195.23
3/4	107.66	3/4	451.55	3/4	795.46	3/4	1,138.88	3/4	1,482.81	3/4	1,826.73	3/4	2,170.66	3/4	2,514.58	3/4	2,858.51	3/4	3,202.39
4	114.81	4	458.72	4	802.63	4	1,146.05	4	1,489.97	4	1,833.90	4	2,177.82	4	2,521.75	4	2,865.67	4	3,209.55
1/4	121.97	1/4	465.88	1/4	809.79	1/4	1,153.21	1/4	1,497.14	1/4	1,841.06	1/4	2,184.99	1/4	2,528.91	1/4	2,872.84	1/4	3,216.72
1/2	129.14	1/2	473.04	1/2	816.96	1/2	1,160.38	1/2	1,504.30	1/2	1,848.23	1/2	2,192.15	1/2	2,536.08	1/2	2,880.00	1/2	3,223.88
3/4	136.30	3/4	480.21	3/4	824.12	3/4	1,167.54	3/4	1,511.47	3/4	1,855.39	3/4	2,199.32	3/4	2,543.24	3/4	2,887.17	3/4	3,231.04
5	143.46	5	487.37	5	831.28	5	1,174.71	5	1,518.63	5	1,862.56	5	2,206.48	5	2,550.41	5	2,894.33	5	3,238.21
1/4	150.63	1/4	494.54	1/4	838.44	1/4	1,181.87	1/4	1,525.80	1/4	1,869.72	1/4	2,213.65	1/4	2,557.57	1/4	2,901.50	1/4	3,245.37
1/2	157.79	1/2	501.70	1/2	845.60	1/2	1,189.04	1/2	1,532.96	1/2	1,876.89	1/2	2,220.81	1/2	2,564.74	1/2	2,908.66	1/2	3,252.53
3/4	164.96	3/4	508.87	3/4	852.76	3/4	1,196.20	3/4	1,540.13	3/4	1,884.05	3/4	2,227.98	3/4	2,571.90	3/4	2,915.83	3/4	3,259.69
6	172.12	6	516.03	6	859.92	6	1,203.37	6	1,547.29	6	1,891.22	6	2,235.14	6	2,579.07	6	2,922.99	6	3,266.86
1/4	179.29	1/4	523.20	1/4	867.07	1/4	1,210.54	1/4	1,554.46	1/4	1,898.38	1/4	2,242.31	1/4	2,586.23	1/4	2,930.16	1/4	3,274.02
1/2	186.45	1/2	530.36	1/2	874.22	1/2	1,217.70	1/2	1,561.62	1/2	1,905.55	1/2	2,249.47	1/2	2,593.40	1/2	2,937.32	1/2	3,281.18
3/4	193.62	3/4	537.53	3/4	881.38	3/4	1,224.87	3/4	1,568.79	3/4	1,912.71	3/4	2,256.64	3/4	2,600.56	3/4	2,944.49	3/4	3,288.35
7	200.78	7	544.69	7	888.53	7	1,232.03	7	1,575.96	7	1,919.88	7	2,263.80	7	2,607.73	7	2,951.65	7	3,295.51
1/4	207.95	1/4	551.86	1/4	895.68	1/4	1,239.20	1/4	1,583.12	1/4	1,927.04	1/4	2,270.97	1/4	2,614.89	1/4	2,958.82	1/4	3,302.67
1/2	215.11	1/2	559.02	1/2	902.83	1/2	1,246.36	1/2	1,590.29	1/2	1,934.21	1/2	2,278.13	1/2	2,622.06	1/2	2,965.98	1/2	3,309.83
3/4	222.28	3/4	566.19	3/4	909.98	3/4	1,253.53	3/4	1,597.45	3/4	1,941.38	3/4	2,285.30	3/4	2,629.22	3/4	2,973.15	3/4	3,317.00
8	229.44	8	573.35	8	917.13	8	1,260.69	8	1,604.62	8	1,948.54	8	2,292.47	8	2,636.39	8	2,980.31	8	3,324.16
1/4	236.61	1/4	580.52	1/4	924.28	1/4	1,267.86	1/4	1,611.78	1/4	1,955.71	1/4	2,299.63	1/4	2,643.56	1/4	2,987.48	1/4	3,331.32
1/2	243.77	1/2	587.68	1/2	931.43	1/2	1,275.02	1/2	1,618.95	1/2	1,962.87	1/2	2,306.80	1/2	2,650.72	1/2	2,994.64	1/2	3,338.49
3/4	250.94	3/4	594.85	3/4	938.58	3/4	1,282.19	3/4	1,626.11	3/4	1,970.04	3/4	2,313.96	3/4	2,657.89	3/4	3,001.81	3/4	3,345.65
9	258.10	9	602.01	9	945.73	9	1,289.35	9	1,633.28	9	1,977.20	9	2,321.13	9	2,665.05	9	3,008.98	9	3,352.81
1/4	265.27	1/4	609.18	1/4	952.88	1/4	1,296.52	1/4	1,640.44	1/4	1,984.37	1/4	2,328.29	1/4	2,672.22	1/4	3,016.14	1/4	3,359.97
1/2	272.43	1/2	616.34	1/2	960.03	1/2	1,303.68	1/2	1,647.61	1/2	1,991.53	1/2	2,335.46	1/2	2,679.38	1/2	3,023.31	1/2	3,367.14
3/4	279.60	3/4	623.51	3/4	967.19	3/4	1,310.85	3/4	1,654.77	3/4	1,998.70	3/4	2,342.62	3/4	2,686.55	3/4	3,030.47	3/4	3,374.30
10	286.76	10	630.67	10	974.34	10	1,318.01	10	1,661.94	10	2,005.86	10	2,349.79	10	2,693.71	10	3,037.64	10	3,381.46
1/4	293.92	1/4	637.84	1/4	981.49	1/4	1,325.18	1/4	1,669.10	1/4	2,013.03	1/4	2,356.95	1/4	2,700.88	1/4	3,044.80	1/4	3,388.63
1/2	301.09	1/2	645.00	1/2	988.64	1/2	1,332.34	1/2	1,676.27	1/2	2,020.19	1/2	2,364.12	1/2	2,708.04	1/2	3,051.97	1/2	3,395.79
3/4	308.25	3/4	652.16	3/4	995.79	3/4	1,339.51	3/4	1,683.43	3/4	2,027.36	3/4	2,371.28	3/4	2,715.21	3/4	3,059.13	3/4	3,402.95
11	315.42	11	659.33	11	1,002.94	11	1,346.67	11	1,690.60	11	2,034.52	11	2,378.45	11	2,722.37	11	3,066.30	11	3,410.12
1/4	322.58	1/4	666.49	1/4	1,010.09	1/4	1,353.84	1/4	1,697.76	1/4	2,041.69	1/4	2,385.61	1/4	2,729.54	1/4	3,073.46	1/4	3,417.28
1/2	329.75	1/2	673.66	1/2	1,017.24	1/2	1,361.00	1/2	1,704.93	1/2	2,048.85	1/2	2,392.78	1/2	2,736.70	1/2	3,080.62	1/2	3,424.44
3/4	336.91	3/4	680.82	3/4	1,024.39	3/4	1,368.17	3/4	1,712.09	3/4	2,056.02	3/4	2,399.94	3/4	2,743.87	3/4	3,087.78	3/4	3,431.60

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

2 STBD

INNAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,438.77	0	3,782.61	0	4,126.54	0	4,469.81	0	4,812.16	0		0		0		0		0	
1/4	3,445.93	1/4	3,789.78	1/4	4,133.70	1/4	4,476.94	1/4	4,819.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,453.09	1/2	3,796.94	1/2	4,140.87	1/2	4,484.07	1/2	4,826.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,460.26	3/4	3,804.11	3/4	4,148.03	3/4	4,491.20	3/4	4,833.55	3/4		3/4		3/4		3/4		3/4	
1	3,467.42	1	3,811.27	1	4,155.20	1	4,498.34	1	4,840.69	1		1		1		1		1	
1/4	3,474.58	1/4	3,818.44	1/4	4,162.36	1/4	4,505.47	1/4	4,847.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,481.74	1/2	3,825.60	1/2	4,169.53	1/2	4,512.60	1/2	4,854.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,488.91	3/4	3,832.77	3/4	4,176.69	3/4	4,519.73	3/4	4,862.08	3/4		3/4		3/4		3/4		3/4	
2	3,496.07	2	3,839.93	2	4,183.86	2	4,526.86	2	4,869.21	2		2		2		2		2	
1/4	3,503.23	1/4	3,847.10	1/4	4,191.02	1/4	4,534.00	1/4	4,876.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,510.40	1/2	3,854.26	1/2	4,198.19	1/2	4,541.13	1/2	4,883.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,517.56	3/4	3,861.43	3/4	4,205.35	3/4	4,548.26	3/4	4,890.61	3/4		3/4		3/4		3/4		3/4	
3	3,524.72	3	3,868.59	3	4,212.52	3	4,555.39	3	4,897.74	3		3		3		3		3	
1/4	3,531.88	1/4	3,875.76	1/4	4,219.68	1/4	4,562.53	1/4	4,904.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,539.05	1/2	3,882.92	1/2	4,226.85	1/2	4,569.66	1/2	4,911.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,546.21	3/4	3,890.09	3/4	4,234.01	3/4	4,576.79	3/4	4,919.00	3/4		3/4		3/4		3/4		3/4	
4	3,553.37	4	3,897.25	4	4,241.18	4	4,583.92	4	4,926.09	4		4		4		4		4	
1/4	3,560.54	1/4	3,904.42	1/4	4,248.34	1/4	4,591.06	1/4	4,933.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,567.70	1/2	3,911.58	1/2	4,255.51	1/2	4,598.19	1/2	4,940.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,574.86	3/4	3,918.75	3/4	4,262.67	3/4	4,605.32	3/4	4,947.35	3/4		3/4		3/4		3/4		3/4	
5	3,582.02	5	3,925.91	5	4,269.84	5	4,612.45	5	4,954.44	5		5		5		5		5	
1/4	3,589.19	1/4	3,933.08	1/4	4,277.00	1/4	4,619.58	1/4	4,961.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,596.35	1/2	3,940.24	1/2	4,284.17	1/2	4,626.72	1/2	4,968.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,603.51	3/4	3,947.41	3/4	4,291.33	3/4	4,633.85	3/4	4,975.69	3/4		3/4		3/4		3/4		3/4	
6	3,610.68	6	3,954.57	6	4,298.50	6	4,640.98	6	4,982.78	6		6		6		6		6	
1/4	3,617.84	1/4	3,961.74	1/4	4,305.66	1/4	4,648.11	1/4	4,989.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,625.00	1/2	3,968.90	1/2	4,312.83	1/2	4,655.25	1/2	4,996.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,632.17	3/4	3,976.07	3/4	4,319.99	3/4	4,662.38	3/4	5,004.00	3/4		3/4		3/4		3/4		3/4	
7	3,639.33	7	3,983.24	7	4,327.16	7	4,669.51	7	5,011.07	7		7		7		7		7	
1/4	3,646.49	1/4	3,990.40	1/4	4,334.29	1/4	4,676.64	1/4	5,018.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,653.65	1/2	3,997.57	1/2	4,341.42	1/2	4,683.77	1/2	5,025.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,660.82	3/4	4,004.73	3/4	4,348.56	3/4	4,690.91	3/4	5,032.13	3/4		3/4		3/4		3/4		3/4	
8	3,667.98	8	4,011.90	8	4,355.69	8	4,698.04	8	5,039.14	8		8		8		8		8	
1/4	3,675.14	1/4	4,019.06	1/4	4,362.82	1/4	4,705.17	1/4	5,045.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,682.31	1/2	4,026.23	1/2	4,369.95	1/2	4,712.30	1/2	5,051.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,689.47	3/4	4,033.39	3/4	4,377.09	3/4	4,719.44	3/4	5,057.72	3/4		3/4		3/4		3/4		3/4	
9	3,696.63	9	4,040.56	9	4,384.22	9	4,726.57	9	5,063.91	9		9		9		9		9	
1/4	3,703.80	1/4	4,047.72	1/4	4,391.35	1/4	4,733.70	1/4	5,068.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,710.96	1/2	4,054.89	1/2	4,398.48	1/2	4,740.83	1/2	5,073.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,718.13	3/4	4,062.05	3/4	4,405.62	3/4	4,747.97	3/4	5,078.90	3/4		3/4		3/4		3/4		3/4	
10	3,725.29	10	4,069.22	10	4,412.75	10	4,755.10	10	5,083.90	10		10		10		10		10	
1/4	3,732.46	1/4	4,076.38	1/4	4,419.88	1/4	4,762.23	1/4	5,087.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,739.62	1/2	4,083.55	1/2	4,427.01	1/2	4,769.36	1/2	5,091.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,746.79	3/4	4,090.71	3/4	4,434.14	3/4	4,776.49	3/4	5,095.31	3/4		3/4		3/4		3/4		3/4	
11	3,753.95	11	4,097.88	11	4,441.28	11	4,783.63	11	5,099.11	11		11		11		11		11	
1/4	3,761.12	1/4	4,105.04	1/4	4,448.41	1/4	4,790.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,768.28	1/2	4,112.21	1/2	4,455.54	1/2	4,797.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,775.45	3/4	4,119.37	3/4	4,462.67	3/4	4,805.02	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

3 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.61	0	341.94	0	683.20	0	1,014.82	0	1,351.37	0	1,692.52	0	2,033.67	0	2,374.82	0	2,715.94	0	3,057.22
1/4	19.06	1/4	349.06	1/4	690.30	1/4	1,021.62	1/4	1,358.48	1/4	1,699.63	1/4	2,040.78	1/4	2,381.93	1/4	2,723.05	1/4	3,064.33
1/2	23.51	1/2	356.18	1/2	697.41	1/2	1,028.42	1/2	1,365.59	1/2	1,706.74	1/2	2,047.89	1/2	2,389.04	1/2	2,730.16	1/2	3,071.43
3/4	27.96	3/4	363.30	3/4	704.52	3/4	1,035.22	3/4	1,372.70	3/4	1,713.85	3/4	2,055.00	3/4	2,396.15	3/4	2,737.26	3/4	3,078.53
1	32.41	1	370.42	1	711.63	1	1,042.02	1	1,379.80	1	1,720.95	1	2,062.10	1	2,403.25	1	2,744.37	1	3,085.63
1/4	38.63	1/4	377.53	1/4	718.74	1/4	1,048.82	1/4	1,386.91	1/4	1,728.06	1/4	2,069.21	1/4	2,410.36	1/4	2,751.47	1/4	3,092.73
1/2	44.86	1/2	384.63	1/2	725.85	1/2	1,055.61	1/2	1,394.02	1/2	1,735.17	1/2	2,076.32	1/2	2,417.47	1/2	2,758.58	1/2	3,099.84
3/4	51.09	3/4	391.74	3/4	732.96	3/4	1,062.41	3/4	1,401.12	3/4	1,742.28	3/4	2,083.43	3/4	2,424.58	3/4	2,765.69	3/4	3,106.94
2	57.32	2	398.85	2	740.06	2	1,069.21	2	1,408.23	2	1,749.38	2	2,090.53	2	2,431.68	2	2,772.79	2	3,114.04
1/4	64.40	1/4	405.96	1/4	747.17	1/4	1,076.02	1/4	1,415.34	1/4	1,756.49	1/4	2,097.64	1/4	2,438.79	1/4	2,779.90	1/4	3,121.13
1/2	71.49	1/2	413.07	1/2	754.28	1/2	1,082.82	1/2	1,422.45	1/2	1,763.60	1/2	2,104.75	1/2	2,445.90	1/2	2,787.01	1/2	3,128.21
3/4	78.57	3/4	420.18	3/4	761.39	3/4	1,089.63	3/4	1,429.55	3/4	1,770.70	3/4	2,111.85	3/4	2,453.01	3/4	2,794.11	3/4	3,135.30
3	85.66	3	427.29	3	768.50	3	1,096.43	3	1,436.66	3	1,777.81	3	2,118.96	3	2,460.11	3	2,801.22	3	3,142.38
1/4	92.77	1/4	434.39	1/4	775.61	1/4	1,103.31	1/4	1,443.77	1/4	1,784.92	1/4	2,126.07	1/4	2,467.22	1/4	2,808.33	1/4	3,149.47
1/2	99.88	1/2	441.50	1/2	782.72	1/2	1,110.19	1/2	1,450.88	1/2	1,792.03	1/2	2,133.18	1/2	2,474.33	1/2	2,815.43	1/2	3,156.55
3/4	106.99	3/4	448.61	3/4	789.82	3/4	1,117.06	3/4	1,457.98	3/4	1,799.13	3/4	2,140.28	3/4	2,481.43	3/4	2,822.54	3/4	3,163.64
4	114.10	4	455.72	4	796.93	4	1,123.94	4	1,465.09	4	1,806.24	4	2,147.39	4	2,488.54	4	2,829.64	4	3,170.72
1/4	121.21	1/4	462.83	1/4	803.81	1/4	1,131.05	1/4	1,472.20	1/4	1,813.35	1/4	2,154.50	1/4	2,495.65	1/4	2,836.75	1/4	3,177.81
1/2	128.33	1/2	469.94	1/2	810.69	1/2	1,138.15	1/2	1,479.31	1/2	1,820.46	1/2	2,161.61	1/2	2,502.75	1/2	2,843.86	1/2	3,184.89
3/4	135.45	3/4	477.05	3/4	817.56	3/4	1,145.26	3/4	1,486.41	3/4	1,827.56	3/4	2,168.71	3/4	2,509.86	3/4	2,850.96	3/4	3,191.98
5	142.57	5	484.15	5	824.44	5	1,152.37	5	1,493.52	5	1,834.67	5	2,175.82	5	2,516.97	5	2,858.07	5	3,199.06
1/4	149.69	1/4	491.26	1/4	831.25	1/4	1,159.48	1/4	1,500.63	1/4	1,841.78	1/4	2,182.93	1/4	2,524.07	1/4	2,865.18	1/4	3,206.15
1/2	156.81	1/2	498.37	1/2	838.05	1/2	1,166.58	1/2	1,507.73	1/2	1,848.88	1/2	2,190.03	1/2	2,531.18	1/2	2,872.28	1/2	3,213.23
3/4	163.93	3/4	505.48	3/4	844.86	3/4	1,173.69	3/4	1,514.84	3/4	1,855.99	3/4	2,197.14	3/4	2,538.29	3/4	2,879.39	3/4	3,220.32
6	171.05	6	512.59	6	851.67	6	1,180.80	6	1,521.95	6	1,863.10	6	2,204.25	6	2,545.39	6	2,886.49	6	3,227.40
1/4	178.17	1/4	519.70	1/4	858.46	1/4	1,187.91	1/4	1,529.06	1/4	1,870.21	1/4	2,211.36	1/4	2,552.50	1/4	2,893.60	1/4	3,234.49
1/2	185.29	1/2	526.81	1/2	865.26	1/2	1,195.01	1/2	1,536.16	1/2	1,877.31	1/2	2,218.46	1/2	2,559.60	1/2	2,900.71	1/2	3,241.57
3/4	192.41	3/4	533.92	3/4	872.06	3/4	1,202.12	3/4	1,543.27	3/4	1,884.42	3/4	2,225.57	3/4	2,566.71	3/4	2,907.81	3/4	3,248.66
7	199.53	7	541.02	7	878.86	7	1,209.23	7	1,550.38	7	1,891.53	7	2,232.68	7	2,573.82	7	2,914.92	7	3,255.74
1/4	206.65	1/4	548.13	1/4	885.66	1/4	1,216.33	1/4	1,557.49	1/4	1,898.64	1/4	2,239.79	1/4	2,580.92	1/4	2,922.04	1/4	3,262.83
1/2	213.77	1/2	555.24	1/2	892.45	1/2	1,223.44	1/2	1,564.59	1/2	1,905.74	1/2	2,246.89	1/2	2,588.03	1/2	2,929.16	1/2	3,269.92
3/4	220.89	3/4	562.35	3/4	899.25	3/4	1,230.55	3/4	1,571.70	3/4	1,912.85	3/4	2,254.00	3/4	2,595.14	3/4	2,936.27	3/4	3,277.00
8	228.01	8	569.46	8	906.05	8	1,237.66	8	1,578.81	8	1,919.96	8	2,261.11	8	2,602.24	8	2,943.39	8	3,284.09
1/4	235.13	1/4	576.57	1/4	912.85	1/4	1,244.76	1/4	1,585.91	1/4	1,927.06	1/4	2,268.22	1/4	2,609.35	1/4	2,950.51	1/4	3,291.18
1/2	242.25	1/2	583.68	1/2	919.65	1/2	1,251.87	1/2	1,593.02	1/2	1,934.17	1/2	2,275.32	1/2	2,616.45	1/2	2,957.63	1/2	3,298.26
3/4	249.37	3/4	590.78	3/4	926.44	3/4	1,258.98	3/4	1,600.13	3/4	1,941.28	3/4	2,282.43	3/4	2,623.56	3/4	2,964.75	3/4	3,305.35
9	256.49	9	597.89	9	933.24	9	1,266.09	9	1,607.24	9	1,948.39	9	2,289.54	9	2,630.67	9	2,971.87	9	3,312.43
1/4	263.61	1/4	605.00	1/4	940.04	1/4	1,273.19	1/4	1,614.34	1/4	1,955.49	1/4	2,296.64	1/4	2,637.77	1/4	2,978.99	1/4	3,319.52
1/2	270.73	1/2	612.11	1/2	946.84	1/2	1,280.30	1/2	1,621.45	1/2	1,962.60	1/2	2,303.75	1/2	2,644.88	1/2	2,986.10	1/2	3,326.61
3/4	277.85	3/4	619.22	3/4	953.64	3/4	1,287.41	3/4	1,628.56	3/4	1,969.71	3/4	2,310.86	3/4	2,651.99	3/4	2,993.22	3/4	3,333.69
10	284.97	10	626.33	10	960.44	10	1,294.52	10	1,635.67	10	1,976.82	10	2,317.97	10	2,659.09	10	3,000.34	10	3,340.78
1/4	292.10	1/4	633.44	1/4	967.23	1/4	1,301.62	1/4	1,642.77	1/4	1,983.92	1/4	2,325.07	1/4	2,666.20	1/4	3,007.46	1/4	3,347.87
1/2	299.22	1/2	640.54	1/2	974.03	1/2	1,308.73	1/2	1,649.88	1/2	1,991.03	1/2	2,332.18	1/2	2,673.31	1/2	3,014.58	1/2	3,354.94
3/4	306.34	3/4	647.65	3/4	980.83	3/4	1,315.84	3/4	1,656.99	3/4	1,998.14	3/4	2,339.29	3/4	2,680.41	3/4	3,021.70	3/4	3,362.02
11	313.46	11	654.76	11	987.63	11	1,322.94	11	1,664.09	11	2,005.25	11	2,346.40	11	2,687.52	11	3,028.81	11	3,369.10
1/4	320.58	1/4	661.87	1/4	994.43	1/4	1,330.05	1/4	1,671.20	1/4	2,012.35	1/4	2,353.50	1/4	2,694.62	1/4	3,035.92	1/4	3,376.18
1/2	327.70	1/2	668.98	1/2	1,001.23	1/2	1,337.16	1/2	1,678.31	1/2	2,019.46	1/2	2,360.61	1/2	2,701.73	1/2	3,043.02	1/2	3,383.26
3/4	334.82	3/4	676.09	3/4	1,008.02	3/4	1,344.27	3/4	1,685.42	3/4	2,026.57	3/4	2,367.72	3/4	2,708.84	3/4	3,050.12	3/4	3,390.34

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,375.42	0	3,584.31	0	3,793.77	0	4,002.84	0	4,211.39	0		0		0		0		0	
1/4	3,379.77	1/4	3,588.67	1/4	3,798.13	1/4	4,007.19	1/4	4,215.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,384.11	1/2	3,593.03	1/2	3,802.49	1/2	4,011.53	1/2	4,220.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,388.46	3/4	3,597.40	3/4	3,806.86	3/4	4,015.88	3/4	4,224.42	3/4		3/4		3/4		3/4		3/4	
1	3,392.81	1	3,601.76	1	3,811.22	1	4,020.22	1	4,228.77	1		1		1		1		1	
1/4	3,397.16	1/4	3,606.13	1/4	3,815.58	1/4	4,024.57	1/4	4,233.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,401.51	1/2	3,610.49	1/2	3,819.95	1/2	4,028.91	1/2	4,237.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,405.85	3/4	3,614.85	3/4	3,824.31	3/4	4,033.26	3/4	4,241.80	3/4		3/4		3/4		3/4		3/4	
2	3,410.20	2	3,619.22	2	3,828.67	2	4,037.60	2	4,246.15	2		2		2		2		2	
1/4	3,414.55	1/4	3,623.58	1/4	3,833.04	1/4	4,041.95	1/4	4,250.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,418.90	1/2	3,627.94	1/2	3,837.40	1/2	4,046.29	1/2	4,254.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,423.25	3/4	3,632.31	3/4	3,841.77	3/4	4,050.63	3/4	4,259.18	3/4		3/4		3/4		3/4		3/4	
3	3,427.59	3	3,636.67	3	3,846.13	3	4,054.98	3	4,263.52	3		3		3		3		3	
1/4	3,431.94	1/4	3,641.04	1/4	3,850.49	1/4	4,059.32	1/4	4,267.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,436.29	1/2	3,645.40	1/2	3,854.86	1/2	4,063.67	1/2	4,272.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,440.64	3/4	3,649.76	3/4	3,859.22	3/4	4,068.01	3/4	4,276.47	3/4		3/4		3/4		3/4		3/4	
4	3,444.99	4	3,654.13	4	3,863.58	4	4,072.36	4	4,280.79	4		4		4		4		4	
1/4	3,449.33	1/4	3,658.49	1/4	3,867.95	1/4	4,076.70	1/4	4,285.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,453.68	1/2	3,662.85	1/2	3,872.31	1/2	4,081.05	1/2	4,289.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,458.03	3/4	3,667.22	3/4	3,876.68	3/4	4,085.39	3/4	4,293.74	3/4		3/4		3/4		3/4		3/4	
5	3,462.38	5	3,671.58	5	3,881.04	5	4,089.74	5	4,298.06	5		5		5		5		5	
1/4	3,466.72	1/4	3,675.95	1/4	3,885.40	1/4	4,094.08	1/4	4,302.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,471.07	1/2	3,680.31	1/2	3,889.77	1/2	4,098.43	1/2	4,306.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,475.42	3/4	3,684.67	3/4	3,894.13	3/4	4,102.77	3/4	4,311.00	3/4		3/4		3/4		3/4		3/4	
6	3,479.77	6	3,689.04	6	3,898.49	6	4,107.12	6	4,315.31	6		6		6		6		6	
1/4	3,484.12	1/4	3,693.40	1/4	3,902.86	1/4	4,111.46	1/4	4,319.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,488.46	1/2	3,697.76	1/2	3,907.22	1/2	4,115.80	1/2	4,323.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,492.81	3/4	3,702.13	3/4	3,911.59	3/4	4,120.15	3/4	4,328.22	3/4		3/4		3/4		3/4		3/4	
7	3,497.16	7	3,706.49	7	3,915.95	7	4,124.49	7	4,332.52	7		7		7		7		7	
1/4	3,501.51	1/4	3,710.85	1/4	3,920.29	1/4	4,128.84	1/4	4,336.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,505.86	1/2	3,715.22	1/2	3,924.64	1/2	4,133.18	1/2	4,341.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,510.20	3/4	3,719.58	3/4	3,928.98	3/4	4,137.53	3/4	4,345.27	3/4		3/4		3/4		3/4		3/4	
8	3,514.55	8	3,723.95	8	3,933.33	8	4,141.87	8	4,349.52	8		8		8		8		8	
1/4	3,518.90	1/4	3,728.31	1/4	3,937.67	1/4	4,146.22	1/4	4,352.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,523.25	1/2	3,732.67	1/2	3,942.02	1/2	4,150.56	1/2	4,356.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,527.60	3/4	3,737.04	3/4	3,946.36	3/4	4,154.91	3/4	4,359.80	3/4		3/4		3/4		3/4		3/4	
9	3,531.94	9	3,741.40	9	3,950.71	9	4,159.25	9	4,363.23	9		9		9		9		9	
1/4	3,536.31	1/4	3,745.76	1/4	3,955.05	1/4	4,163.60	1/4	4,365.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,540.67	1/2	3,750.13	1/2	3,959.40	1/2	4,167.94	1/2	4,367.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,545.03	3/4	3,754.49	3/4	3,963.74	3/4	4,172.29	3/4	4,369.95	3/4		3/4		3/4		3/4		3/4	
10	3,549.40	10	3,758.86	10	3,968.09	10	4,176.63	10	4,372.19	10		10		10		10		10	
1/4	3,553.76	1/4	3,763.22	1/4	3,972.43	1/4	4,180.98	1/4	4,373.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,558.13	1/2	3,767.58	1/2	3,976.77	1/2	4,185.32	1/2	4,375.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,562.49	3/4	3,771.95	3/4	3,981.12	3/4	4,189.66	3/4	4,377.30	3/4		3/4		3/4		3/4		3/4	
11	3,566.85	11	3,776.31	11	3,985.46	11	4,194.01	11	4,379.01	11		11		11		11		11	
1/4	3,571.22	1/4	3,780.67	1/4	3,989.81	1/4	4,198.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,575.58	1/2	3,785.04	1/2	3,994.15	1/2	4,202.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,579.94	3/4	3,789.40	3/4	3,998.50	3/4	4,207.04	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

3 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.62	0	342.21	0	684.26	0	1,025.95	0	1,367.87	0	1,709.92	0	2,051.97	0	2,394.02	0	2,735.82	0	3,077.00
1/4	19.07	1/4	349.34	1/4	691.39	1/4	1,033.06	1/4	1,374.99	1/4	1,717.04	1/4	2,059.10	1/4	2,401.15	1/4	2,742.93	1/4	3,084.11
1/2	23.52	1/2	356.47	1/2	698.51	1/2	1,040.17	1/2	1,382.12	1/2	1,724.17	1/2	2,066.22	1/2	2,408.28	1/2	2,750.03	1/2	3,091.22
3/4	27.98	3/4	363.59	3/4	705.64	3/4	1,047.28	3/4	1,389.24	3/4	1,731.30	3/4	2,073.35	3/4	2,415.40	3/4	2,757.14	3/4	3,098.33
1	32.43	1	370.72	1	712.77	1	1,054.40	1	1,396.37	1	1,738.42	1	2,080.48	1	2,422.53	1	2,764.25	1	3,105.43
1/4	38.67	1/4	377.84	1/4	719.89	1/4	1,061.51	1/4	1,403.50	1/4	1,745.55	1/4	2,087.60	1/4	2,429.65	1/4	2,771.36	1/4	3,112.54
1/2	44.90	1/2	384.97	1/2	727.02	1/2	1,068.62	1/2	1,410.62	1/2	1,752.67	1/2	2,094.73	1/2	2,436.78	1/2	2,778.47	1/2	3,119.65
3/4	51.13	3/4	392.10	3/4	734.14	3/4	1,075.73	3/4	1,417.75	3/4	1,759.80	3/4	2,101.85	3/4	2,443.91	3/4	2,785.57	3/4	3,126.76
2	57.37	2	399.22	2	741.27	2	1,082.84	2	1,424.87	2	1,766.93	2	2,108.98	2	2,451.03	2	2,792.68	2	3,133.87
1/4	64.46	1/4	406.35	1/4	748.40	1/4	1,089.96	1/4	1,432.00	1/4	1,774.05	1/4	2,116.11	1/4	2,458.16	1/4	2,799.79	1/4	3,140.96
1/2	71.55	1/2	413.47	1/2	755.52	1/2	1,097.08	1/2	1,439.13	1/2	1,781.18	1/2	2,123.23	1/2	2,465.28	1/2	2,806.90	1/2	3,148.05
3/4	78.64	3/4	420.60	3/4	762.65	3/4	1,104.21	3/4	1,446.25	3/4	1,788.31	3/4	2,130.36	3/4	2,472.41	3/4	2,814.01	3/4	3,155.14
3	85.73	3	427.73	3	769.77	3	1,111.33	3	1,453.38	3	1,795.43	3	2,137.48	3	2,479.54	3	2,821.11	3	3,162.23
1/4	92.84	1/4	434.85	1/4	776.90	1/4	1,118.45	1/4	1,460.50	1/4	1,802.56	1/4	2,144.61	1/4	2,486.66	1/4	2,828.22	1/4	3,169.32
1/2	99.96	1/2	441.98	1/2	784.03	1/2	1,125.58	1/2	1,467.63	1/2	1,809.68	1/2	2,151.74	1/2	2,493.79	1/2	2,835.33	1/2	3,176.41
3/4	107.07	3/4	449.10	3/4	791.15	3/4	1,132.70	3/4	1,474.76	3/4	1,816.81	3/4	2,158.86	3/4	2,500.92	3/4	2,842.44	3/4	3,183.50
4	114.19	4	456.23	4	798.28	4	1,139.83	4	1,481.88	4	1,823.94	4	2,165.99	4	2,508.04	4	2,849.55	4	3,190.59
1/4	121.31	1/4	463.36	1/4	805.40	1/4	1,146.96	1/4	1,489.01	1/4	1,831.06	1/4	2,173.11	1/4	2,515.17	1/4	2,856.65	1/4	3,197.68
1/2	128.44	1/2	470.48	1/2	812.53	1/2	1,154.08	1/2	1,496.14	1/2	1,838.19	1/2	2,180.24	1/2	2,522.30	1/2	2,863.76	1/2	3,204.77
3/4	135.56	3/4	477.61	3/4	819.66	3/4	1,161.21	3/4	1,503.26	3/4	1,845.31	3/4	2,187.37	3/4	2,529.43	3/4	2,870.87	3/4	3,211.86
5	142.69	5	484.73	5	826.78	5	1,168.33	5	1,510.39	5	1,852.44	5	2,194.49	5	2,536.55	5	2,877.98	5	3,218.95
1/4	149.81	1/4	491.86	1/4	833.90	1/4	1,175.46	1/4	1,517.51	1/4	1,859.57	1/4	2,201.62	1/4	2,543.68	1/4	2,885.09	1/4	3,226.04
1/2	156.94	1/2	498.99	1/2	841.02	1/2	1,182.59	1/2	1,524.64	1/2	1,866.69	1/2	2,208.75	1/2	2,550.81	1/2	2,892.19	1/2	3,233.13
3/4	164.06	3/4	506.11	3/4	848.14	3/4	1,189.71	3/4	1,531.77	3/4	1,873.82	3/4	2,215.87	3/4	2,557.94	3/4	2,899.30	3/4	3,240.22
6	171.19	6	513.24	6	855.26	6	1,196.84	6	1,538.89	6	1,880.94	6	2,223.00	6	2,565.07	6	2,906.41	6	3,247.32
1/4	178.32	1/4	520.36	1/4	862.37	1/4	1,203.97	1/4	1,546.02	1/4	1,888.07	1/4	2,230.12	1/4	2,572.19	1/4	2,913.52	1/4	3,254.41
1/2	185.44	1/2	527.49	1/2	869.48	1/2	1,211.09	1/2	1,553.14	1/2	1,895.20	1/2	2,237.25	1/2	2,579.32	1/2	2,920.63	1/2	3,261.50
3/4	192.57	3/4	534.62	3/4	876.59	3/4	1,218.22	3/4	1,560.27	3/4	1,902.32	3/4	2,244.38	3/4	2,586.45	3/4	2,927.73	3/4	3,268.59
7	199.69	7	541.74	7	883.71	7	1,225.34	7	1,567.40	7	1,909.45	7	2,251.50	7	2,593.58	7	2,934.84	7	3,275.68
1/4	206.82	1/4	548.87	1/4	890.82	1/4	1,232.47	1/4	1,574.52	1/4	1,916.58	1/4	2,258.63	1/4	2,600.71	1/4	2,941.95	1/4	3,282.77
1/2	213.95	1/2	555.99	1/2	897.93	1/2	1,239.60	1/2	1,581.65	1/2	1,923.70	1/2	2,265.75	1/2	2,607.83	1/2	2,949.06	1/2	3,289.86
3/4	221.07	3/4	563.12	3/4	905.04	3/4	1,246.72	3/4	1,588.77	3/4	1,930.83	3/4	2,272.88	3/4	2,614.96	3/4	2,956.17	3/4	3,296.95
8	228.20	8	570.25	8	912.15	8	1,253.85	8	1,595.90	8	1,937.95	8	2,280.01	8	2,622.09	8	2,963.27	8	3,304.04
1/4	235.32	1/4	577.37	1/4	919.27	1/4	1,260.97	1/4	1,603.03	1/4	1,945.08	1/4	2,287.13	1/4	2,629.20	1/4	2,970.38	1/4	3,311.13
1/2	242.45	1/2	584.50	1/2	926.38	1/2	1,268.10	1/2	1,610.15	1/2	1,952.21	1/2	2,294.26	1/2	2,636.31	1/2	2,977.49	1/2	3,318.22
3/4	249.58	3/4	591.62	3/4	933.49	3/4	1,275.23	3/4	1,617.28	3/4	1,959.33	3/4	2,301.38	3/4	2,643.41	3/4	2,984.60	3/4	3,325.31
9	256.70	9	598.75	9	940.60	9	1,282.35	9	1,624.41	9	1,966.46	9	2,308.51	9	2,650.52	9	2,991.71	9	3,332.40
1/4	263.83	1/4	605.88	1/4	947.71	1/4	1,289.48	1/4	1,631.53	1/4	1,973.58	1/4	2,315.64	1/4	2,657.63	1/4	2,998.81	1/4	3,339.49
1/2	270.95	1/2	613.00	1/2	954.83	1/2	1,296.60	1/2	1,638.66	1/2	1,980.71	1/2	2,322.76	1/2	2,664.74	1/2	3,005.92	1/2	3,346.58
3/4	278.08	3/4	620.13	3/4	961.94	3/4	1,303.73	3/4	1,645.78	3/4	1,987.84	3/4	2,329.89	3/4	2,671.85	3/4	3,013.03	3/4	3,353.67
10	285.21	10	627.25	10	969.05	10	1,310.86	10	1,652.91	10	1,994.96	10	2,337.01	10	2,678.95	10	3,020.14	10	3,360.76
1/4	292.33	1/4	634.38	1/4	976.16	1/4	1,317.98	1/4	1,660.04	1/4	2,002.09	1/4	2,344.14	1/4	2,686.06	1/4	3,027.25	1/4	3,367.85
1/2	299.46	1/2	641.51	1/2	983.27	1/2	1,325.11	1/2	1,667.16	1/2	2,009.21	1/2	2,351.27	1/2	2,693.17	1/2	3,034.35	1/2	3,369.43
3/4	306.58	3/4	648.63	3/4	990.39	3/4	1,332.23	3/4	1,674.29	3/4	2,016.34	3/4	2,358.39	3/4	2,700.28	3/4	3,041.46	3/4	3,373.77
11	313.71	11	655.76	11	997.50	11	1,339.36	11	1,681.41	11	2,023.47	11	2,365.52	11	2,707.39	11	3,048.57	11	3,378.10
1/4	320.84	1/4	662.88	1/4	1,004.61	1/4	1,346.49	1/4	1,688.54	1/4	2,030.59	1/4	2,372.65	1/4	2,714.49	1/4	3,055.68	1/4	3,382.44
1/2	327.96	1/2	670.01	1/2	1,011.72	1/2	1,353.61	1/2	1,695.67	1/2	2,037.72	1/2	2,379.77	1/2	2,721.60	1/2	3,062.79	1/2	3,386.77
3/4	335.09	3/4	677.14	3/4	1,018.83	3/4	1,360.74	3/4	1,702.79	3/4	2,044.84	3/4	2,386.90	3/4	2,728.71	3/4	3,069.89	3/4	3,391.11

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

**3 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,395.44	0	3,605.22	0	3,815.00	0	4,024.40	0	4,233.26	0		0		0		0		0	
1/4	3,399.81	1/4	3,609.59	1/4	3,819.37	1/4	4,028.75	1/4	4,237.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,404.18	1/2	3,613.96	1/2	3,823.74	1/2	4,033.10	1/2	4,241.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,408.55	3/4	3,618.33	3/4	3,828.11	3/4	4,037.45	3/4	4,246.31	3/4		3/4		3/4		3/4		3/4	
1	3,412.92	1	3,622.70	1	3,832.48	1	4,041.80	1	4,250.67	1		1		1		1		1	
1/4	3,417.29	1/4	3,627.07	1/4	3,836.85	1/4	4,046.15	1/4	4,255.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,421.66	1/2	3,631.44	1/2	3,841.22	1/2	4,050.51	1/2	4,259.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,426.04	3/4	3,635.81	3/4	3,845.59	3/4	4,054.86	3/4	4,263.72	3/4		3/4		3/4		3/4		3/4	
2	3,430.41	2	3,640.18	2	3,849.96	2	4,059.21	2	4,268.07	2		2		2		2		2	
1/4	3,434.78	1/4	3,644.55	1/4	3,854.33	1/4	4,063.56	1/4	4,272.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,439.15	1/2	3,648.93	1/2	3,858.70	1/2	4,067.91	1/2	4,276.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,443.52	3/4	3,653.30	3/4	3,863.07	3/4	4,072.26	3/4	4,281.12	3/4		3/4		3/4		3/4		3/4	
3	3,447.89	3	3,657.67	3	3,867.45	3	4,076.61	3	4,285.48	3		3		3		3		3	
1/4	3,452.26	1/4	3,662.04	1/4	3,871.82	1/4	4,080.96	1/4	4,289.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,456.63	1/2	3,666.41	1/2	3,876.19	1/2	4,085.32	1/2	4,294.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,461.00	3/4	3,670.78	3/4	3,880.56	3/4	4,089.67	3/4	4,298.45	3/4		3/4		3/4		3/4		3/4	
4	3,465.37	4	3,675.15	4	3,884.93	4	4,094.02	4	4,302.77	4		4		4		4		4	
1/4	3,469.74	1/4	3,679.52	1/4	3,889.30	1/4	4,098.37	1/4	4,307.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,474.11	1/2	3,683.89	1/2	3,893.67	1/2	4,102.72	1/2	4,311.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,478.48	3/4	3,688.26	3/4	3,898.04	3/4	4,107.07	3/4	4,315.74	3/4		3/4		3/4		3/4		3/4	
5	3,482.85	5	3,692.63	5	3,902.41	5	4,111.42	5	4,320.07	5		5		5		5		5	
1/4	3,487.22	1/4	3,697.00	1/4	3,906.78	1/4	4,115.78	1/4	4,324.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,491.59	1/2	3,701.37	1/2	3,911.15	1/2	4,120.13	1/2	4,328.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,495.96	3/4	3,705.74	3/4	3,915.52	3/4	4,124.48	3/4	4,333.03	3/4		3/4		3/4		3/4		3/4	
6	3,500.33	6	3,710.11	6	3,919.89	6	4,128.83	6	4,337.35	6		6		6		6		6	
1/4	3,504.70	1/4	3,714.48	1/4	3,924.26	1/4	4,133.18	1/4	4,341.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,509.07	1/2	3,718.85	1/2	3,928.63	1/2	4,137.53	1/2	4,345.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,513.44	3/4	3,723.22	3/4	3,933.00	3/4	4,141.88	3/4	4,350.28	3/4		3/4		3/4		3/4		3/4	
7	3,517.81	7	3,727.59	7	3,937.37	7	4,146.23	7	4,354.59	7		7		7		7		7	
1/4	3,522.18	1/4	3,731.96	1/4	3,941.72	1/4	4,150.59	1/4	4,358.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,526.55	1/2	3,736.33	1/2	3,946.07	1/2	4,154.94	1/2	4,363.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,530.92	3/4	3,740.70	3/4	3,950.43	3/4	4,159.29	3/4	4,367.35	3/4		3/4		3/4		3/4		3/4	
8	3,535.30	8	3,745.07	8	3,954.78	8	4,163.64	8	4,371.61	8		8		8		8		8	
1/4	3,539.67	1/4	3,749.44	1/4	3,959.13	1/4	4,167.99	1/4	4,375.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,544.04	1/2	3,753.81	1/2	3,963.48	1/2	4,172.34	1/2	4,378.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,548.41	3/4	3,758.19	3/4	3,967.83	3/4	4,176.69	3/4	4,381.91	3/4		3/4		3/4		3/4		3/4	
9	3,552.78	9	3,762.56	9	3,972.18	9	4,181.04	9	4,385.34	9		9		9		9		9	
1/4	3,557.15	1/4	3,766.93	1/4	3,976.53	1/4	4,185.40	1/4	4,387.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,561.52	1/2	3,771.30	1/2	3,980.88	1/2	4,189.75	1/2	4,389.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,565.89	3/4	3,775.67	3/4	3,985.24	3/4	4,194.10	3/4	4,392.08	3/4		3/4		3/4		3/4		3/4	
10	3,570.26	10	3,780.04	10	3,989.59	10	4,198.45	10	4,394.32	10		10		10		10		10	
1/4	3,574.63	1/4	3,784.41	1/4	3,993.94	1/4	4,202.80	1/4	4,396.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,579.00	1/2	3,788.78	1/2	3,998.29	1/2	4,207.15	1/2	4,397.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,583.37	3/4	3,793.15	3/4	4,002.64	3/4	4,211.50	3/4	4,399.44	3/4		3/4		3/4		3/4		3/4	
11	3,587.74	11	3,797.52	11	4,006.99	11	4,215.85	11	4,401.15	11		11		11		11		11	
1/4	3,592.11	1/4	3,801.89	1/4	4,011.34	1/4	4,220.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,596.48	1/2	3,806.26	1/2	4,015.70	1/2	4,224.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,600.85	3/4	3,810.63	3/4	4,020.05	3/4	4,228.91	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

ULLAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-03"

February 3, 2021

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

<http://www.pmacorp.net>



BARGE "MPX 414"

1 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,866.99	0	4,526.21	0	4,184.82	0	3,842.15	0	3,499.53	0	3,156.96	0	2,814.34	0	2,471.67
1/4		1/4		1/4	4,859.93	1/4	4,519.10	1/4	4,177.68	1/4	3,835.02	1/4	3,492.39	1/4	3,149.82	1/4	2,807.20	1/4	2,464.53
1/2		1/2		1/2	4,852.87	1/2	4,512.00	1/2	4,170.54	1/2	3,827.88	1/2	3,485.25	1/2	3,142.69	1/2	2,800.06	1/2	2,457.39
3/4		3/4		3/4	4,845.81	3/4	4,504.89	3/4	4,163.40	3/4	3,820.74	3/4	3,478.12	3/4	3,135.55	3/4	2,792.92	3/4	2,450.25
1		1		1	4,838.75	1	4,497.78	1	4,156.26	1	3,813.60	1	3,470.98	1	3,128.41	1	2,785.79	1	2,443.11
1/4		1/4		1/4	4,831.68	1/4	4,490.68	1/4	4,149.12	1/4	3,806.46	1/4	3,463.84	1/4	3,121.28	1/4	2,778.65	1/4	2,435.97
1/2		1/2		1/2	4,824.62	1/2	4,483.57	1/2	4,141.98	1/2	3,799.32	1/2	3,456.71	1/2	3,114.14	1/2	2,771.51	1/2	2,428.83
3/4		3/4		3/4	4,817.56	3/4	4,476.46	3/4	4,134.85	3/4	3,792.18	3/4	3,449.57	3/4	3,107.00	3/4	2,764.37	3/4	2,421.69
2		2		2	4,810.46	2	4,469.36	2	4,127.71	2	3,785.04	2	3,442.43	2	3,099.87	2	2,757.23	2	2,414.55
1/4		1/4		1/4	4,803.35	1/4	4,462.25	1/4	4,120.57	1/4	3,777.91	1/4	3,435.29	1/4	3,092.73	1/4	2,750.09	1/4	2,407.41
1/2		1/2		1/2	4,796.24	1/2	4,455.15	1/2	4,113.43	1/2	3,770.77	1/2	3,428.16	1/2	3,085.59	1/2	2,742.95	1/2	2,400.28
3/4		3/4		3/4	4,789.14	3/4	4,448.04	3/4	4,106.29	3/4	3,763.63	3/4	3,421.02	3/4	3,078.45	3/4	2,735.81	3/4	2,393.14
3		3		3	4,782.03	3	4,440.93	3	4,099.15	3	3,756.49	3	3,413.88	3	3,071.32	3	2,728.67	3	2,386.00
1/4		1/4		1/4	4,774.92	1/4	4,433.83	1/4	4,092.01	1/4	3,749.35	1/4	3,406.75	1/4	3,064.18	1/4	2,721.53	1/4	2,378.86
1/2		1/2		1/2	4,767.82	1/2	4,426.72	1/2	4,084.87	1/2	3,742.21	1/2	3,399.61	1/2	3,057.04	1/2	2,714.40	1/2	2,371.72
3/4		3/4		3/4	4,760.71	3/4	4,419.61	3/4	4,077.73	3/4	3,735.07	3/4	3,392.47	3/4	3,049.91	3/4	2,707.26	3/4	2,364.58
4		4		4	4,753.61	4	4,412.51	4	4,070.60	4	3,727.93	4	3,385.34	4	3,042.77	4	2,700.12	4	2,357.44
1/4		1/4		1/4	4,746.50	1/4	4,405.40	1/4	4,063.46	1/4	3,720.79	1/4	3,378.20	1/4	3,035.63	1/4	2,692.98	1/4	2,350.30
1/2		1/2		1/2	4,739.39	1/2	4,398.30	1/2	4,056.32	1/2	3,713.66	1/2	3,371.06	1/2	3,028.50	1/2	2,685.84	1/2	2,343.16
3/4		3/4		3/4	4,732.29	3/4	4,391.19	3/4	4,049.18	3/4	3,706.52	3/4	3,363.93	3/4	3,021.36	3/4	2,678.70	3/4	2,336.02
5		5		5	4,725.18	5	4,384.08	5	4,042.04	5	3,699.38	5	3,356.79	5	3,014.22	5	2,671.56	5	2,328.88
1/4		1/4		1/4	4,718.08	1/4	4,376.98	1/4	4,034.90	1/4	3,692.24	1/4	3,349.65	1/4	3,007.09	1/4	2,664.42	1/4	2,321.74
1/2		1/2		1/2	4,710.97	1/2	4,369.87	1/2	4,027.76	1/2	3,685.10	1/2	3,342.52	1/2	2,999.95	1/2	2,657.28	1/2	2,314.60
3/4		3/4		3/4	5,018.20	3/4	4,703.86	3/4	4,362.77	3/4	4,020.62	3/4	3,677.96	3/4	3,335.38	3/4	2,992.81	3/4	2,650.15
6		6		6	5,014.41	6	4,696.76	6	4,355.66	6	4,013.49	6	3,670.82	6	3,328.24	6	2,985.67	6	2,643.01
1/4		1/4		1/4	5,010.62	1/4	4,689.65	1/4	4,348.55	1/4	4,006.35	1/4	3,663.68	1/4	3,321.11	1/4	2,978.54	1/4	2,635.87
1/2		1/2		1/2	5,006.83	1/2	4,682.54	1/2	4,341.45	1/2	3,999.21	1/2	3,656.55	1/2	3,313.97	1/2	2,971.40	1/2	2,628.73
3/4		3/4		3/4	5,003.04	3/4	4,675.44	3/4	4,334.34	3/4	3,992.07	3/4	3,649.41	3/4	3,306.83	3/4	2,964.26	3/4	2,621.59
7		7		7	4,998.06	7	4,668.33	7	4,327.23	7	3,984.93	7	3,642.27	7	3,299.70	7	2,957.12	7	2,614.45
1/4		1/4		1/4	4,993.09	1/4	4,661.23	1/4	4,320.13	1/4	3,977.79	1/4	3,635.13	1/4	3,292.56	1/4	2,949.98	1/4	2,607.31
1/2		1/2		1/2	4,988.11	1/2	4,654.12	1/2	4,313.02	1/2	3,970.65	1/2	3,627.99	1/2	3,285.42	1/2	2,942.84	1/2	2,600.17
3/4		3/4		3/4	4,983.13	3/4	4,647.01	3/4	4,305.92	3/4	3,963.51	3/4	3,620.85	3/4	3,278.29	3/4	2,935.70	3/4	2,593.03
8		8		8	4,976.96	8	4,639.91	8	4,298.81	8	3,956.38	8	3,613.71	8	3,271.15	8	2,928.56	8	2,585.89
1/4		1/4		1/4	4,970.79	1/4	4,632.80	1/4	4,291.70	1/4	3,949.24	1/4	3,606.58	1/4	3,264.01	1/4	2,921.42	1/4	2,578.76
1/2		1/2		1/2	4,964.62	1/2	4,625.69	1/2	4,284.60	1/2	3,942.10	1/2	3,599.44	1/2	3,256.87	1/2	2,914.29	1/2	2,571.62
3/4		3/4		3/4	4,958.45	3/4	4,618.59	3/4	4,277.49	3/4	3,934.96	3/4	3,592.30	3/4	3,249.74	3/4	2,907.15	3/4	2,564.48
9		9		9	4,951.46	9	4,611.48	9	4,270.38	9	3,927.82	9	3,585.17	9	3,242.60	9	2,900.01	9	2,557.34
1/4		1/4		1/4	4,944.47	1/4	4,604.38	1/4	4,263.28	1/4	3,920.68	1/4	3,578.03	1/4	3,235.46	1/4	2,892.87	1/4	2,550.20
1/2		1/2		1/2	4,937.47	1/2	4,597.27	1/2	4,256.17	1/2	3,913.54	1/2	3,570.89	1/2	3,228.33	1/2	2,885.73	1/2	2,543.06
3/4		3/4		3/4	4,930.48	3/4	4,590.16	3/4	4,249.07	3/4	3,906.40	3/4	3,563.76	3/4	3,221.19	3/4	2,878.59	3/4	2,535.92
10		10		10	4,923.44	10	4,583.06	10	4,241.93	10	3,899.26	10	3,556.62	10	3,214.05	10	2,871.45	10	2,528.78
1/4		1/4		1/4	4,916.39	1/4	4,575.95	1/4	4,234.79	1/4	3,892.13	1/4	3,549.48	1/4	3,206.92	1/4	2,864.31	1/4	2,521.64
1/2		1/2		1/2	4,909.34	1/2	4,568.84	1/2	4,227.65	1/2	3,884.99	1/2	3,542.35	1/2	3,199.78	1/2	2,857.17	1/2	2,514.50
3/4		3/4		3/4	4,902.29	3/4	4,561.74	3/4	4,220.51	3/4	3,877.85	3/4	3,535.21	3/4	3,192.64	3/4	2,850.04	3/4	2,507.36
11		11		11	4,895.23	11	4,554.63	11	4,213.37	11	3,870.71	11	3,528.07	11	3,185.51	11	2,842.90	11	2,500.22
1/4		1/4		1/4	4,888.17	1/4	4,547.53	1/4	4,206.23	1/4	3,863.57	1/4	3,520.94	1/4	3,178.37	1/4	2,835.76	1/4	2,493.08
1/2		1/2		1/2	4,881.11	1/2	4,540.42	1/2	4,199.09	1/2	3,856.43	1/2	3,513.80	1/2	3,171.23	1/2	2,828.62	1/2	2,485.95
3/4		3/4		3/4	4,874.05	3/4	4,533.31	3/4	4,191.96	3/4	3,849.29	3/4	3,506.66	3/4	3,164.10	3/4	2,821.48	3/4	2,478.81

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,128.99	0	1,786.30	0	1,443.62	0	1,100.94	0	760.78	0	419.13	0	109.49	0		0		0	
1/4	2,121.85	1/4	1,779.16	1/4	1,436.48	1/4	1,093.80	1/4	753.68	1/4	412.20	1/4	103.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,114.71	1/2	1,772.03	1/2	1,429.34	1/2	1,086.66	1/2	746.57	1/2	405.27	1/2	97.63	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,107.57	3/4	1,764.89	3/4	1,422.20	3/4	1,079.52	3/4	739.46	3/4	398.34	3/4	91.70	3/4	3/4	3/4	3/4	3/4	3/4
1	2,100.43	1	1,757.75	1	1,415.07	1	1,072.42	1	732.33	1	391.49	1	85.87	1	1	1	1	1	1
1/4	2,093.29	1/4	1,750.61	1/4	1,407.93	1/4	1,065.31	1/4	725.19	1/4	384.64	1/4	80.03	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,086.15	1/2	1,743.47	1/2	1,400.79	1/2	1,058.21	1/2	718.05	1/2	377.80	1/2	74.20	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,079.01	3/4	1,736.33	3/4	1,393.65	3/4	1,051.10	3/4	710.91	3/4	370.95	3/4	68.36	3/4	3/4	3/4	3/4	3/4	3/4
2	2,071.87	2	1,729.19	2	1,386.51	2	1,044.02	2	703.77	2	364.19	2	62.64	2	2	2	2	2	2
1/4	2,064.73	1/4	1,722.05	1/4	1,379.37	1/4	1,036.93	1/4	696.63	1/4	357.42	1/4	56.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,057.59	1/2	1,714.91	1/2	1,372.23	1/2	1,029.84	1/2	689.49	1/2	350.66	1/2	51.18	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,050.45	3/4	1,707.77	3/4	1,365.09	3/4	1,022.75	3/4	682.35	3/4	343.89	3/4	45.46	3/4	3/4	3/4	3/4	3/4	3/4
3	2,043.32	3	1,700.63	3	1,357.95	3	1,015.67	3	675.21	3	337.21	3	40.67	3	3	3	3	3	3
1/4	2,036.18	1/4	1,693.49	1/4	1,350.81	1/4	1,008.60	1/4	668.08	1/4	330.53	1/4	35.89	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,029.04	1/2	1,686.36	1/2	1,343.67	1/2	1,001.52	1/2	660.94	1/2	323.85	1/2	31.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,021.90	3/4	1,679.22	3/4	1,336.53	3/4	994.44	3/4	653.80	3/4	317.17	3/4	26.31	3/4	3/4	3/4	3/4	3/4	3/4
4	2,014.76	4	1,672.08	4	1,329.40	4	987.36	4	646.66	4	310.58	4	23.40	4	4	4	4	4	4
1/4	2,007.62	1/4	1,664.94	1/4	1,322.26	1/4	980.28	1/4	639.52	1/4	303.98	1/4	20.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,000.48	1/2	1,657.80	1/2	1,315.12	1/2	973.20	1/2	632.38	1/2	297.38	1/2	17.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,993.34	3/4	1,650.66	3/4	1,307.98	3/4	966.12	3/4	625.24	3/4	290.79	3/4	14.64	3/4	3/4	3/4	3/4	3/4	3/4
5	1,986.20	5	1,643.52	5	1,300.84	5	959.04	5	618.10	5	284.27	5		5	5	5	5	5	5
1/4	1,979.06	1/4	1,636.38	1/4	1,293.70	1/4	951.97	1/4	610.96	1/4	277.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,971.92	1/2	1,629.24	1/2	1,286.56	1/2	944.89	1/2	603.83	1/2	271.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,964.78	3/4	1,622.10	3/4	1,279.42	3/4	937.81	3/4	596.69	3/4	264.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	1,957.64	6	1,614.96	6	1,272.28	6	930.73	6	589.55	6	258.30	6		6	6	6	6	6	6
1/4	1,950.51	1/4	1,607.82	1/4	1,265.14	1/4	923.65	1/4	582.41	1/4	251.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,943.37	1/2	1,600.68	1/2	1,258.00	1/2	916.57	1/2	575.27	1/2	245.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,936.23	3/4	1,593.55	3/4	1,250.86	3/4	909.49	3/4	568.13	3/4	239.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,929.09	7	1,586.41	7	1,243.72	7	902.41	7	560.99	7	232.67	7		7	7	7	7	7	7
1/4	1,921.95	1/4	1,579.27	1/4	1,236.59	1/4	895.34	1/4	553.85	1/4	226.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,914.81	1/2	1,572.13	1/2	1,229.45	1/2	888.26	1/2	546.71	1/2	219.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,907.67	3/4	1,564.99	3/4	1,222.31	3/4	881.18	3/4	539.58	3/4	213.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,900.53	8	1,557.85	8	1,215.17	8	874.10	8	532.44	8	207.36	8		8	8	8	8	8	8
1/4	1,893.39	1/4	1,550.71	1/4	1,208.03	1/4	867.02	1/4	525.30	1/4	201.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,886.25	1/2	1,543.57	1/2	1,200.89	1/2	859.94	1/2	518.16	1/2	194.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,879.11	3/4	1,536.43	3/4	1,193.75	3/4	852.86	3/4	511.02	3/4	188.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,871.97	9	1,529.29	9	1,186.61	9	845.78	9	503.88	9	182.39	9		9	9	9	9	9	9
1/4	1,864.84	1/4	1,522.15	1/4	1,179.47	1/4	838.71	1/4	496.74	1/4	176.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,857.70	1/2	1,515.01	1/2	1,172.33	1/2	831.63	1/2	489.60	1/2	170.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,850.56	3/4	1,507.88	3/4	1,165.19	3/4	824.55	3/4	482.46	3/4	163.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,843.42	10	1,500.74	10	1,158.05	10	817.47	10	475.37	10	157.76	10		10	10	10	10	10	10
1/4	1,836.28	1/4	1,493.60	1/4	1,150.92	1/4	810.39	1/4	468.28	1/4	151.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,829.14	1/2	1,486.46	1/2	1,143.78	1/2	803.31	1/2	461.19	1/2	145.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,822.00	3/4	1,479.32	3/4	1,136.64	3/4	796.23	3/4	454.10	3/4	139.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,814.86	11	1,472.18	11	1,129.50	11	789.15	11	447.09	11	133.46	11		11	11	11	11	11	11
1/4	1,807.72	1/4	1,465.04	1/4	1,122.36	1/4	782.06	1/4	440.08	1/4	127.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,800.58	1/2	1,457.90	1/2	1,115.22	1/2	774.97	1/2	433.07	1/2	121.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,793.44	3/4	1,450.76	3/4	1,108.08	3/4	767.89	3/4	426.06	3/4	115.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

1 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0	4,867.71	0	4,527.04	0	4,185.77	0	3,843.22	0	3,500.70	0	3,158.25	0	2,815.75	0	2,473.19		
1/4		1/4		1/4	4,860.65	1/4	4,519.94	1/4	4,178.63	1/4	3,836.08	1/4	3,493.57	1/4	3,151.11	1/4	2,808.61	1/4	2,466.06		
1/2		1/2		1/2	4,853.59	1/2	4,512.83	1/2	4,171.49	1/2	3,828.95	1/2	3,486.43	1/2	3,143.98	1/2	2,801.47	1/2	2,458.92		
3/4		3/4		3/4	4,846.54	3/4	4,505.73	3/4	4,164.36	3/4	3,821.81	3/4	3,479.30	3/4	3,136.84	3/4	2,794.34	3/4	2,451.78		
1		1		1	4,839.48	1	4,498.63	1	4,157.22	1	3,814.67	1	3,472.17	1	3,129.71	1	2,787.20	1	2,444.64		
1/4		1/4		1/4	4,832.42	1/4	4,491.52	1/4	4,150.08	1/4	3,807.54	1/4	3,465.03	1/4	3,122.58	1/4	2,780.07	1/4	2,437.51		
1/2		1/2		1/2	4,825.36	1/2	4,484.42	1/2	4,142.95	1/2	3,800.40	1/2	3,457.90	1/2	3,115.44	1/2	2,772.93	1/2	2,430.37		
3/4		3/4		3/4	4,818.30	3/4	4,477.32	3/4	4,135.81	3/4	3,793.26	3/4	3,450.76	3/4	3,108.31	3/4	2,765.79	3/4	2,423.23		
2		2		2	4,811.19	2	4,470.21	2	4,128.67	2	3,786.13	2	3,443.63	2	3,101.17	2	2,758.66	2	2,416.10		
1/4		1/4		1/4	4,804.09	1/4	4,463.11	1/4	4,121.54	1/4	3,778.99	1/4	3,436.49	1/4	3,094.04	1/4	2,751.52	1/4	2,408.96		
1/2		1/2		1/2	4,796.99	1/2	4,456.00	1/2	4,114.40	1/2	3,771.85	1/2	3,429.36	1/2	3,086.90	1/2	2,744.38	1/2	2,401.82		
3/4		3/4		3/4	4,789.88	3/4	4,448.90	3/4	4,107.27	3/4	3,764.72	3/4	3,422.22	3/4	3,079.77	3/4	2,737.25	3/4	2,394.69		
3		3		3	4,782.78	3	4,441.80	3	4,100.13	3	3,757.58	3	3,415.09	3	3,072.63	3	2,730.11	3	2,387.55		
1/4		1/4		1/4	4,775.67	1/4	4,434.69	1/4	4,092.99	1/4	3,750.45	1/4	3,407.96	1/4	3,065.50	1/4	2,722.98	1/4	2,380.41		
1/2		1/2		1/2	4,768.57	1/2	4,427.59	1/2	4,085.86	1/2	3,743.31	1/2	3,400.82	1/2	3,058.36	1/2	2,715.84	1/2	2,373.28		
3/4		3/4		3/4	4,761.47	3/4	4,420.48	3/4	4,078.72	3/4	3,736.17	3/4	3,393.69	3/4	3,051.23	3/4	2,708.70	3/4	2,366.14		
4		4		4	4,754.36	4	4,413.38	4	4,071.58	4	3,729.04	4	3,386.55	4	3,044.10	4	2,701.57	4	2,359.00		
1/4		1/4		1/4	4,747.26	1/4	4,406.28	1/4	4,064.45	1/4	3,721.90	1/4	3,379.42	1/4	3,036.96	1/4	2,694.43	1/4	2,351.86		
1/2		1/2		1/2	4,740.16	1/2	4,399.17	1/2	4,057.31	1/2	3,714.76	1/2	3,372.28	1/2	3,029.83	1/2	2,687.29	1/2	2,344.73		
3/4		3/4		3/4	4,733.05	3/4	4,392.07	3/4	4,050.17	3/4	3,707.63	3/4	3,365.15	3/4	3,022.69	3/4	2,680.16	3/4	2,337.59		
5		5		5	4,725.95	5	4,384.97	5	4,043.04	5	3,700.49	5	3,358.01	5	3,015.56	5	2,673.02	5	2,330.45		
1/4		1/4		1/4	4,718.84	1/4	4,377.86	1/4	4,035.90	1/4	3,693.35	1/4	3,350.88	1/4	3,008.42	1/4	2,665.88	1/4	2,323.32		
1/2		1/2		1/2	4,711.74	1/2	4,370.76	1/2	4,028.77	1/2	3,686.22	1/2	3,343.74	1/2	3,001.29	1/2	2,658.75	1/2	2,316.18		
3/4		3/4		3/4	5,018.87	3/4	4,704.64	3/4	4,363.65	3/4	4,021.63	3/4	3,679.08	3/4	3,336.61	3/4	2,994.15	3/4	2,309.04		
6		6		6	5,015.08	6	4,697.53	6	4,356.55	6	4,014.49	6	3,671.95	6	3,329.48	6	2,987.02	6	2,644.48	6	2,301.91
1/4		1/4		1/4	5,011.29	1/4	4,690.43	1/4	4,349.45	1/4	4,007.36	1/4	3,664.81	1/4	3,322.34	1/4	2,979.88	1/4	2,637.34	1/4	2,294.77
1/2		1/2		1/2	5,007.51	1/2	4,683.33	1/2	4,342.34	1/2	4,000.22	1/2	3,657.67	1/2	3,315.21	1/2	2,972.75	1/2	2,630.20	1/2	2,287.63
3/4		3/4		3/4	5,003.72	3/4	4,676.22	3/4	4,335.24	3/4	3,993.08	3/4	3,650.54	3/4	3,308.07	3/4	2,965.61	3/4	2,623.07	3/4	2,280.50
7		7		7	4,998.74	7	4,669.12	7	4,328.14	7	3,985.95	7	3,643.40	7	3,300.94	7	2,958.47	7	2,615.93	7	2,273.36
1/4		1/4		1/4	4,993.76	1/4	4,662.01	1/4	4,321.03	1/4	3,978.81	1/4	3,636.26	1/4	3,293.80	1/4	2,951.34	1/4	2,608.79	1/4	2,266.22
1/2		1/2		1/2	4,988.79	1/2	4,654.91	1/2	4,313.93	1/2	3,971.67	1/2	3,629.13	1/2	3,286.67	1/2	2,944.20	1/2	2,601.66	1/2	2,259.08
3/4		3/4		3/4	4,983.81	3/4	4,647.81	3/4	4,306.82	3/4	3,964.54	3/4	3,621.99	3/4	3,279.53	3/4	2,937.06	3/4	2,594.52	3/4	2,251.95
8		8		8	4,977.64	8	4,640.70	8	4,299.72	8	3,957.40	8	3,614.86	8	3,272.40	8	2,929.93	8	2,587.38	8	2,244.81
1/4		1/4		1/4	4,971.48	1/4	4,633.60	1/4	4,292.62	1/4	3,950.26	1/4	3,607.72	1/4	3,265.27	1/4	2,922.79	1/4	2,580.25	1/4	2,237.67
1/2		1/2		1/2	4,965.31	1/2	4,626.50	1/2	4,285.51	1/2	3,943.13	1/2	3,600.59	1/2	3,258.13	1/2	2,915.66	1/2	2,573.11	1/2	2,230.54
3/4		3/4		3/4	4,959.14	3/4	4,619.39	3/4	4,278.41	3/4	3,935.99	3/4	3,593.45	3/4	3,251.00	3/4	2,908.52	3/4	2,565.97	3/4	2,223.40
9		9		9	4,952.15	9	4,612.29	9	4,271.31	9	3,928.86	9	3,586.32	9	3,243.86	9	2,901.38	9	2,558.83	9	2,216.26
1/4		1/4		1/4	4,945.16	1/4	4,605.18	1/4	4,264.20	1/4	3,921.72	1/4	3,579.18	1/4	3,236.73	1/4	2,894.25	1/4	2,551.70	1/4	2,209.13
1/2		1/2		1/2	4,938.17	1/2	4,598.08	1/2	4,257.10	1/2	3,914.58	1/2	3,572.05	1/2	3,229.59	1/2	2,887.11	1/2	2,544.56	1/2	2,201.99
3/4		3/4		3/4	4,931.18	3/4	4,590.98	3/4	4,249.99	3/4	3,907.45	3/4	3,564.91	3/4	3,222.46	3/4	2,879.97	3/4	2,537.42	3/4	2,194.85
10		10		10	4,924.14	10	4,583.87	10	4,242.86	10	3,900.31	10	3,557.78	10	3,215.32	10	2,872.84	10	2,530.29	10	2,187.72
1/4		1/4		1/4	4,917.09	1/4	4,576.77	1/4	4,235.72	1/4	3,893.17	1/4	3,550.65	1/4	3,208.19	1/4	2,865.70	1/4	2,523.15	1/4	2,180.58
1/2		1/2		1/2	4,910.05	1/2	4,569.66	1/2	4,228.58	1/2	3,886.04	1/2	3,543.51	1/2	3,201.05	1/2	2,858.56	1/2	2,516.01	1/2	2,173.44
3/4		3/4		3/4	4,903.00	3/4	4,562.56	3/4	4,221.45	3/4	3,878.90	3/4	3,536.38	3/4	3,193.92	3/4	2,851.43	3/4	2,508.88	3/4	2,166.31
11		11		11	4,895.95	11	4,555.46	11	4,214.31	11	3,871.76	11	3,529.24	11	3,186.79	11	2,844.29	11	2,501.74	11	2,159.17
1/4		1/4		1/4	4,888.89	1/4	4,548.35	1/4	4,207.18	1/4	3,864.63	1/4	3,522.11	1/4	3,179.65	1/4	2,837.16	1/4	2,494.60	1/4	2,152.03
1/2		1/2		1/2	4,881.83	1/2	4,541.25	1/2	4,200.04	1/2	3,857.49	1/2	3,514.97	1/2	3,172.52	1/2	2,830.02	1/2	2,487.47	1/2	2,144.89
3/4		3/4		3/4	4,874.77	3/4	4,534.15	3/4	4,192.90	3/4	3,850.36	3/4	3,507.84	3/4	3,165.38	3/4	2,822.88	3/4	2,480.33	3/4	2,137.76

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "MPX 414"

1 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,130.62	0	1,788.05	0	1,445.48	0	1,102.91	0	760.63	0	418.95	0	109.44	0		0		0	
1/4	2,123.48	1/4	1,780.91	1/4	1,438.34	1/4	1,095.77	1/4	753.49	1/4	412.02	1/4	103.51	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,116.35	1/2	1,773.78	1/2	1,431.20	1/2	1,088.63	1/2	746.35	1/2	405.09	1/2	97.58	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,109.21	3/4	1,766.64	3/4	1,424.07	3/4	1,081.50	3/4	739.22	3/4	398.16	3/4	91.66	3/4	3/4	3/4	3/4	3/4	3/4
1	2,102.07	1	1,759.50	1	1,416.93	1	1,074.36	1	732.08	1	391.32	1	85.83	1	1	1	1	1	1
1/4	2,094.94	1/4	1,752.37	1/4	1,409.79	1/4	1,067.22	1/4	724.94	1/4	384.47	1/4	79.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,087.80	1/2	1,745.23	1/2	1,402.66	1/2	1,060.09	1/2	717.81	1/2	377.63	1/2	74.16	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,080.66	3/4	1,738.09	3/4	1,395.52	3/4	1,052.95	3/4	710.67	3/4	370.78	3/4	68.33	3/4	3/4	3/4	3/4	3/4	3/4
2	2,073.53	2	1,730.95	2	1,388.38	2	1,045.81	2	703.53	2	364.02	2	62.61	2	2	2	2	2	2
1/4	2,066.39	1/4	1,723.82	1/4	1,381.25	1/4	1,038.68	1/4	696.40	1/4	357.26	1/4	56.88	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,059.25	1/2	1,716.68	1/2	1,374.11	1/2	1,031.54	1/2	689.26	1/2	350.50	1/2	51.16	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,052.11	3/4	1,709.54	3/4	1,366.97	3/4	1,024.40	3/4	682.12	3/4	343.74	3/4	45.44	3/4	3/4	3/4	3/4	3/4	3/4
3	2,044.98	3	1,702.41	3	1,359.84	3	1,017.28	3	674.99	3	337.06	3	40.65	3	3	3	3	3	3
1/4	2,037.84	1/4	1,695.27	1/4	1,352.70	1/4	1,010.15	1/4	667.85	1/4	330.38	1/4	35.87	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,030.70	1/2	1,688.13	1/2	1,345.56	1/2	1,003.02	1/2	660.71	1/2	323.71	1/2	31.09	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,023.57	3/4	1,681.00	3/4	1,338.42	3/4	995.89	3/4	653.58	3/4	317.03	3/4	26.30	3/4	3/4	3/4	3/4	3/4	3/4
4	2,016.43	4	1,673.86	4	1,331.29	4	988.76	4	646.44	4	310.43	4	23.39	4	4	4	4	4	4
1/4	2,009.29	1/4	1,666.72	1/4	1,324.15	1/4	981.64	1/4	639.30	1/4	303.84	1/4	20.47	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,002.16	1/2	1,659.59	1/2	1,317.01	1/2	974.51	1/2	632.17	1/2	297.25	1/2	17.55	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,995.02	3/4	1,652.45	3/4	1,309.88	3/4	967.38	3/4	625.03	3/4	290.65	3/4	14.64	3/4	3/4	3/4	3/4	3/4	3/4
5	1,987.88	5	1,645.31	5	1,302.74	5	960.25	5	617.90	5	284.14	5		5	5	5	5	5	5
1/4	1,980.75	1/4	1,638.17	1/4	1,295.60	1/4	953.12	1/4	610.76	1/4	277.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,973.61	1/2	1,631.04	1/2	1,288.47	1/2	946.00	1/2	603.62	1/2	271.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,966.47	3/4	1,623.90	3/4	1,281.33	3/4	938.87	3/4	596.49	3/4	264.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	1,959.34	6	1,616.76	6	1,274.19	6	931.74	6	589.35	6	258.18	6		6	6	6	6	6	6
1/4	1,952.20	1/4	1,609.63	1/4	1,267.06	1/4	924.61	1/4	582.21	1/4	251.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,945.06	1/2	1,602.49	1/2	1,259.92	1/2	917.48	1/2	575.08	1/2	245.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,937.92	3/4	1,595.35	3/4	1,252.78	3/4	910.36	3/4	567.94	3/4	238.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,930.79	7	1,588.22	7	1,245.65	7	903.23	7	560.80	7	232.56	7		7	7	7	7	7	7
1/4	1,923.65	1/4	1,581.08	1/4	1,238.51	1/4	896.10	1/4	553.67	1/4	226.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,916.51	1/2	1,573.94	1/2	1,231.37	1/2	888.97	1/2	546.53	1/2	219.87	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,909.38	3/4	1,566.81	3/4	1,224.23	3/4	881.84	3/4	539.39	3/4	213.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,902.24	8	1,559.67	8	1,217.10	8	874.72	8	532.26	8	207.26	8		8	8	8	8	8	8
1/4	1,895.10	1/4	1,552.53	1/4	1,209.96	1/4	867.59	1/4	525.12	1/4	201.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,887.97	1/2	1,545.39	1/2	1,202.82	1/2	860.46	1/2	517.98	1/2	194.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,880.83	3/4	1,538.26	3/4	1,195.69	3/4	853.33	3/4	510.85	3/4	188.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,873.69	9	1,531.12	9	1,188.55	9	846.20	9	503.71	9	182.31	9		9	9	9	9	9	9
1/4	1,866.56	1/4	1,523.98	1/4	1,181.41	1/4	839.08	1/4	496.57	1/4	176.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.42	1/2	1,516.85	1/2	1,174.28	1/2	831.95	1/2	489.44	1/2	169.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,852.28	3/4	1,509.71	3/4	1,167.14	3/4	824.82	3/4	482.30	3/4	163.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,845.14	10	1,502.57	10	1,160.00	10	817.69	10	475.20	10	157.68	10		10	10	10	10	10	10
1/4	1,838.01	1/4	1,495.44	1/4	1,152.87	1/4	810.57	1/4	468.11	1/4	151.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,830.87	1/2	1,488.30	1/2	1,145.73	1/2	803.44	1/2	461.01	1/2	145.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,823.73	3/4	1,481.16	3/4	1,138.59	3/4	796.31	3/4	453.92	3/4	139.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,816.60	11	1,474.03	11	1,131.45	11	789.17	11	446.91	11	133.39	11		11	11	11	11	11	11
1/4	1,809.46	1/4	1,466.89	1/4	1,124.32	1/4	782.04	1/4	439.90	1/4	127.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,802.32	1/2	1,459.75	1/2	1,117.18	1/2	774.90	1/2	432.89	1/2	121.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,795.19	3/4	1,452.62	3/4	1,110.04	3/4	767.76	3/4	425.87	3/4	115.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

2 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,940.26	0	4,598.89	0	4,256.89	0	3,913.54	0	3,570.19	0	3,226.84	0	2,883.44	0	2,540.00
1/4		1/4		1/4	4,933.19	1/4	4,591.77	1/4	4,249.73	1/4	3,906.38	1/4	3,563.04	1/4	3,219.69	1/4	2,876.29	1/4	2,532.84
1/2		1/2		1/2	4,926.11	1/2	4,584.65	1/2	4,242.58	1/2	3,899.23	1/2	3,555.88	1/2	3,212.53	1/2	2,869.13	1/2	2,525.69
3/4		3/4		3/4	4,919.03	3/4	4,577.53	3/4	4,235.43	3/4	3,892.08	3/4	3,548.73	3/4	3,205.38	3/4	2,861.98	3/4	2,518.53
1		1		1	4,911.96	1	4,570.41	1	4,228.27	1	3,884.92	1	3,541.58	1	3,198.23	1	2,854.82	1	2,511.38
1/4		1/4		1/4	4,904.88	1/4	4,563.29	1/4	4,221.12	1/4	3,877.77	1/4	3,534.42	1/4	3,191.07	1/4	2,847.67	1/4	2,504.22
1/2		1/2		1/2	4,897.81	1/2	4,556.17	1/2	4,213.97	1/2	3,870.62	1/2	3,527.27	1/2	3,183.92	1/2	2,840.51	1/2	2,497.07
3/4		3/4		3/4	4,890.73	3/4	4,549.05	3/4	4,206.81	3/4	3,863.47	3/4	3,520.12	3/4	3,176.77	3/4	2,833.36	3/4	2,489.91
2		2		2	4,883.66	2	4,541.93	2	4,199.66	2	3,856.31	2	3,512.96	2	3,169.61	2	2,826.20	2	2,482.76
1/4		1/4		1/4	4,876.58	1/4	4,534.81	1/4	4,192.51	1/4	3,849.16	1/4	3,505.81	1/4	3,162.46	1/4	2,819.05	1/4	2,475.60
1/2		1/2		1/2	4,869.46	1/2	4,527.69	1/2	4,185.35	1/2	3,842.01	1/2	3,498.66	1/2	3,155.31	1/2	2,811.89	1/2	2,468.45
3/4		3/4		3/4	4,862.34	3/4	4,520.57	3/4	4,178.20	3/4	3,834.85	3/4	3,491.50	3/4	3,148.16	3/4	2,804.74	3/4	2,461.29
3		3		3	4,855.22	3	4,513.45	3	4,171.05	3	3,827.70	3	3,484.35	3	3,141.00	3	2,797.58	3	2,454.14
1/4		1/4		1/4	4,848.10	1/4	4,506.33	1/4	4,163.90	1/4	3,820.55	1/4	3,477.20	1/4	3,133.85	1/4	2,790.43	1/4	2,446.98
1/2		1/2		1/2	4,840.98	1/2	4,499.21	1/2	4,156.74	1/2	3,813.39	1/2	3,470.04	1/2	3,126.70	1/2	2,783.27	1/2	2,439.83
3/4		3/4		3/4	4,833.86	3/4	4,492.09	3/4	4,149.59	3/4	3,806.24	3/4	3,462.89	3/4	3,119.54	3/4	2,776.12	3/4	2,432.67
4		4		4	4,826.74	4	4,484.97	4	4,142.44	4	3,799.09	4	3,455.74	4	3,112.39	4	2,768.96	4	2,425.52
1/4		1/4		1/4	4,819.62	1/4	4,477.84	1/4	4,135.28	1/4	3,791.93	1/4	3,448.59	1/4	3,105.24	1/4	2,761.81	1/4	2,418.36
1/2		1/2		1/2	4,812.50	1/2	4,470.72	1/2	4,128.13	1/2	3,784.78	1/2	3,441.43	1/2	3,098.08	1/2	2,754.65	1/2	2,411.21
3/4		3/4		3/4	4,805.38	3/4	4,463.60	3/4	4,120.98	3/4	3,777.63	3/4	3,434.28	3/4	3,090.93	3/4	2,747.50	3/4	2,404.05
5		5		5	4,798.26	5	4,456.48	5	4,113.82	5	3,770.48	5	3,427.13	5	3,083.78	5	2,740.34	5	2,396.90
1/4		1/4		1/4	4,791.14	1/4	4,449.36	1/4	4,106.67	1/4	3,763.32	1/4	3,419.97	1/4	3,076.62	1/4	2,733.19	1/4	2,389.74
1/2		1/2		1/2	4,784.02	1/2	4,442.24	1/2	4,099.52	1/2	3,756.17	1/2	3,412.82	1/2	3,069.47	1/2	2,726.03	1/2	2,382.59
3/4		3/4		3/4	4,776.90	3/4	4,435.12	3/4	4,092.36	3/4	3,749.02	3/4	3,405.67	3/4	3,062.32	3/4	2,718.88	3/4	2,375.43
6		6		6	4,769.78	6	4,428.00	6	4,085.21	6	3,741.86	6	3,398.51	6	3,055.17	6	2,711.72	6	2,368.28
1/4		1/4	5,077.61	1/4	4,762.66	1/4	4,420.88	1/4	4,078.06	1/4	3,734.71	1/4	3,391.36	1/4	3,048.01	1/4	2,704.57	1/4	2,361.12
1/2		1/2	5,073.81	1/2	4,755.54	1/2	4,413.76	1/2	4,070.91	1/2	3,727.56	1/2	3,384.21	1/2	3,040.86	1/2	2,697.41	1/2	2,353.97
3/4		3/4	5,070.02	3/4	4,748.42	3/4	4,406.64	3/4	4,063.75	3/4	3,720.40	3/4	3,377.05	3/4	3,033.70	3/4	2,690.26	3/4	2,346.81
7		7	5,066.22	7	4,741.30	7	4,399.52	7	4,056.60	7	3,713.25	7	3,369.90	7	3,026.55	7	2,683.10	7	2,339.66
1/4		1/4	5,062.43	1/4	4,734.18	1/4	4,392.40	1/4	4,049.45	1/4	3,706.10	1/4	3,362.75	1/4	3,019.39	1/4	2,675.95	1/4	2,332.50
1/2		1/2	5,057.44	1/2	4,727.06	1/2	4,385.28	1/2	4,042.29	1/2	3,698.94	1/2	3,355.60	1/2	3,012.24	1/2	2,668.79	1/2	2,325.35
3/4		3/4	5,052.45	3/4	4,719.94	3/4	4,378.16	3/4	4,035.14	3/4	3,691.79	3/4	3,348.44	3/4	3,005.08	3/4	2,661.64	3/4	2,318.19
8		8	5,047.46	8	4,712.81	8	4,371.04	8	4,027.99	8	3,684.64	8	3,341.29	8	2,997.93	8	2,654.48	8	2,311.04
1/4		1/4	5,042.47	1/4	4,705.69	1/4	4,363.92	1/4	4,020.83	1/4	3,677.48	1/4	3,334.14	1/4	2,990.77	1/4	2,647.33	1/4	2,303.88
1/2		1/2	5,036.29	1/2	4,698.57	1/2	4,356.80	1/2	4,013.68	1/2	3,670.33	1/2	3,326.98	1/2	2,983.62	1/2	2,640.17	1/2	2,296.73
3/4		3/4	5,030.11	3/4	4,691.45	3/4	4,349.68	3/4	4,006.53	3/4	3,663.18	3/4	3,319.83	3/4	2,976.46	3/4	2,633.02	3/4	2,289.57
9		9	5,023.93	9	4,684.33	9	4,342.56	9	3,999.37	9	3,656.03	9	3,312.68	9	2,969.31	9	2,625.86	9	2,282.42
1/4		1/4	5,017.75	1/4	4,677.21	1/4	4,335.44	1/4	3,992.22	1/4	3,648.87	1/4	3,305.52	1/4	2,962.15	1/4	2,618.71	1/4	2,275.26
1/2		1/2	5,010.74	1/2	4,670.09	1/2	4,328.32	1/2	3,985.07	1/2	3,641.72	1/2	3,298.37	1/2	2,955.00	1/2	2,611.55	1/2	2,268.11
3/4		3/4	5,003.73	3/4	4,662.97	3/4	4,321.20	3/4	3,977.92	3/4	3,634.57	3/4	3,291.22	3/4	2,947.84	3/4	2,604.40	3/4	2,260.95
10		10	4,996.73	10	4,655.85	10	4,314.08	10	3,970.76	10	3,627.41	10	3,284.06	10	2,940.69	10	2,597.24	10	2,253.80
1/4		1/4	4,989.72	1/4	4,648.73	1/4	4,306.96	1/4	3,963.61	1/4	3,620.26	1/4	3,276.91	1/4	2,933.53	1/4	2,590.09	1/4	2,246.64
1/2		1/2	4,982.66	1/2	4,641.61	1/2	4,299.80	1/2	3,956.46	1/2	3,613.11	1/2	3,269.76	1/2	2,926.38	1/2	2,582.93	1/2	2,239.49
3/4		3/4	4,975.60	3/4	4,634.49	3/4	4,292.65	3/4	3,949.30	3/4	3,605.95	3/4	3,262.61	3/4	2,919.22	3/4	2,575.78	3/4	2,232.33
11		11	4,968.54	11	4,627.37	11	4,285.50	11	3,942.15	11	3,598.80	11	3,255.45	11	2,912.07	11	2,568.62	11	2,225.18
1/4		1/4	4,961.48	1/4	4,620.25	1/4	4,278.35	1/4	3,935.00	1/4	3,591.65	1/4	3,248.30	1/4	2,904.91	1/4	2,561.47	1/4	2,218.02
1/2		1/2	4,954.40	1/2	4,613.13	1/2	4,271.19	1/2	3,927.84	1/2	3,584.49	1/2	3,241.15	1/2	2,897.75	1/2	2,554.31	1/2	2,210.87
3/4		3/4	4,947.33	3/4	4,606.01	3/4	4,264.04	3/4	3,920.69	3/4	3,577.34	3/4	3,233.99	3/4	2,890.60	3/4	2,547.16	3/4	2,203.71

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,196.56	0	1,853.11	0	1,509.67	0	1,166.22	0	835.85	0	493.85	0	150.42	0		0		0	
1/4	2,189.40	1/4	1,845.96	1/4	1,502.51	1/4	1,159.07	1/4	829.00	1/4	486.69	1/4	143.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,182.24	1/2	1,838.80	1/2	1,495.36	1/2	1,151.91	1/2	822.13	1/2	479.54	1/2	136.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,175.09	3/4	1,831.65	3/4	1,488.20	3/4	1,144.76	3/4	815.25	3/4	472.38	3/4	128.96	3/4	3/4	3/4	3/4	3/4	3/4
1	2,167.93	1	1,824.49	1	1,481.05	1	1,137.60	1	808.38	1	465.23	1	121.80	1	1	1	1	1	1
1/4	2,160.78	1/4	1,817.33	1/4	1,473.89	1/4	1,130.45	1/4	801.50	1/4	458.07	1/4	114.65	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,153.62	1/2	1,810.18	1/2	1,466.73	1/2	1,123.57	1/2	794.35	1/2	450.92	1/2	107.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,146.47	3/4	1,803.02	3/4	1,459.58	3/4	1,116.70	3/4	787.20	3/4	443.76	3/4	100.36	3/4	3/4	3/4	3/4	3/4	3/4
2	2,139.31	2	1,795.87	2	1,452.42	2	1,109.83	2	780.04	2	436.61	2	93.22	2	2	2	2	2	2
1/4	2,132.16	1/4	1,788.71	1/4	1,445.27	1/4	1,102.95	1/4	772.89	1/4	429.46	1/4	86.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,125.00	1/2	1,781.56	1/2	1,438.11	1/2	1,096.10	1/2	765.73	1/2	422.30	1/2	78.95	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,117.85	3/4	1,774.40	3/4	1,430.96	3/4	1,089.24	3/4	758.58	3/4	415.15	3/4	71.83	3/4	3/4	3/4	3/4	3/4	3/4
3	2,110.69	3	1,767.25	3	1,423.80	3	1,082.39	3	751.42	3	407.99	3	64.72	3	3	3	3	3	3
1/4	2,103.54	1/4	1,760.09	1/4	1,416.65	1/4	1,075.53	1/4	744.27	1/4	400.84	1/4	57.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,096.38	1/2	1,752.94	1/2	1,409.49	1/2	1,068.68	1/2	737.11	1/2	393.68	1/2	51.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,089.23	3/4	1,745.78	3/4	1,402.34	3/4	1,061.84	3/4	729.96	3/4	386.53	3/4	45.08	3/4	3/4	3/4	3/4	3/4	3/4
4	2,082.07	4	1,738.63	4	1,395.18	4	1,054.99	4	722.80	4	379.37	4	38.82	4	4	4	4	4	4
1/4	2,074.92	1/4	1,731.47	1/4	1,388.03	1/4	1,048.14	1/4	715.65	1/4	372.22	1/4	32.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,067.76	1/2	1,724.32	1/2	1,380.87	1/2	1,041.30	1/2	708.49	1/2	365.06	1/2	28.09	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,060.61	3/4	1,717.16	3/4	1,373.72	3/4	1,034.45	3/4	701.34	3/4	357.91	3/4	23.62	3/4	3/4	3/4	3/4	3/4	3/4
5	2,053.45	5	1,710.01	5	1,366.56	5	1,027.60	5	694.18	5	350.75	5	19.15	5	5	5	5	5	5
1/4	2,046.30	1/4	1,702.85	1/4	1,359.41	1/4	1,020.75	1/4	687.03	1/4	343.60	1/4	14.67	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,039.14	1/2	1,695.70	1/2	1,352.25	1/2	1,013.91	1/2	679.87	1/2	336.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,031.99	3/4	1,688.54	3/4	1,345.10	3/4	1,007.06	3/4	672.72	3/4	329.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,024.83	6	1,681.39	6	1,337.94	6	1,000.21	6	665.56	6	322.13	6		6	6	6	6	6	6
1/4	2,017.68	1/4	1,674.23	1/4	1,330.79	1/4	993.36	1/4	658.41	1/4	314.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,010.52	1/2	1,667.08	1/2	1,323.63	1/2	986.52	1/2	651.25	1/2	307.82	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,003.37	3/4	1,659.92	3/4	1,316.48	3/4	979.67	3/4	644.10	3/4	300.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,996.21	7	1,652.77	7	1,309.32	7	972.82	7	636.94	7	293.51	7		7	7	7	7	7	7
1/4	1,989.06	1/4	1,645.61	1/4	1,302.17	1/4	965.97	1/4	629.79	1/4	286.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,981.90	1/2	1,638.46	1/2	1,295.01	1/2	959.13	1/2	622.63	1/2	279.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,974.75	3/4	1,631.30	3/4	1,287.86	3/4	952.28	3/4	615.48	3/4	272.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,967.59	8	1,624.15	8	1,280.70	8	945.43	8	608.33	8	264.89	8		8	8	8	8	8	8
1/4	1,960.44	1/4	1,616.99	1/4	1,273.55	1/4	938.59	1/4	601.17	1/4	257.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,953.28	1/2	1,609.84	1/2	1,266.39	1/2	931.74	1/2	594.02	1/2	250.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,946.13	3/4	1,602.68	3/4	1,259.24	3/4	924.89	3/4	586.86	3/4	243.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,938.97	9	1,595.53	9	1,252.08	9	918.04	9	579.71	9	236.28	9		9	9	9	9	9	9
1/4	1,931.82	1/4	1,588.37	1/4	1,244.93	1/4	911.20	1/4	572.55	1/4	229.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,924.66	1/2	1,581.22	1/2	1,237.77	1/2	904.35	1/2	565.40	1/2	221.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,917.51	3/4	1,574.06	3/4	1,230.62	3/4	897.50	3/4	558.24	3/4	214.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,910.35	10	1,566.91	10	1,223.46	10	890.66	10	551.09	10	207.66	10		10	10	10	10	10	10
1/4	1,903.20	1/4	1,559.75	1/4	1,216.31	1/4	883.81	1/4	543.93	1/4	200.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,896.04	1/2	1,552.60	1/2	1,209.15	1/2	876.96	1/2	536.78	1/2	193.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,888.89	3/4	1,545.44	3/4	1,202.00	3/4	870.11	3/4	529.62	3/4	186.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,881.73	11	1,538.29	11	1,194.84	11	863.27	11	522.47	11	179.04	11		11	11	11	11	11	11
1/4	1,874.58	1/4	1,531.13	1/4	1,187.69	1/4	856.42	1/4	515.31	1/4	171.88	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,867.42	1/2	1,523.98	1/2	1,180.53	1/2	849.57	1/2	508.16	1/2	164.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,860.27	3/4	1,516.82	3/4	1,173.38	3/4	842.71	3/4	501.00	3/4	157.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

2 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,940.26	0	4,598.18	0	4,255.50	0	3,911.58	0	3,567.69	0	3,223.88	0	2,880.00	0	2,536.07
1/4		1/4		1/4	4,933.17	1/4	4,591.05	1/4	4,248.34	1/4	3,904.42	1/4	3,560.53	1/4	3,216.71	1/4	2,872.83	1/4	2,528.91
1/2		1/2		1/2	4,926.09	1/2	4,583.92	1/2	4,241.17	1/2	3,897.25	1/2	3,553.37	1/2	3,209.55	1/2	2,865.67	1/2	2,521.74
3/4		3/4		3/4	4,919.00	3/4	4,576.79	3/4	4,234.01	3/4	3,890.08	3/4	3,546.21	3/4	3,202.39	3/4	2,858.50	3/4	2,514.58
1		1		1	4,911.91	1	4,569.65	1	4,226.84	1	3,882.92	1	3,539.04	1	3,195.22	1	2,851.34	1	2,507.41
1/4		1/4		1/4	4,904.83	1/4	4,562.52	1/4	4,219.68	1/4	3,875.75	1/4	3,531.88	1/4	3,188.06	1/4	2,844.17	1/4	2,500.25
1/2		1/2		1/2	4,897.74	1/2	4,555.39	1/2	4,212.51	1/2	3,868.59	1/2	3,524.72	1/2	3,180.90	1/2	2,837.01	1/2	2,493.08
3/4		3/4		3/4	4,890.61	3/4	4,548.26	3/4	4,205.35	3/4	3,861.42	3/4	3,517.55	3/4	3,173.74	3/4	2,829.84	3/4	2,485.92
2		2		2	4,883.48	2	4,541.12	2	4,198.18	2	3,854.26	2	3,510.39	2	3,166.57	2	2,822.68	2	2,478.75
1/4		1/4		1/4	4,876.34	1/4	4,533.99	1/4	4,191.02	1/4	3,847.09	1/4	3,503.23	1/4	3,159.41	1/4	2,815.51	1/4	2,471.59
1/2		1/2		1/2	4,869.21	1/2	4,526.86	1/2	4,183.85	1/2	3,839.93	1/2	3,496.07	1/2	3,152.25	1/2	2,808.35	1/2	2,464.42
3/4		3/4		3/4	4,862.08	3/4	4,519.73	3/4	4,176.69	3/4	3,832.76	3/4	3,488.90	3/4	3,145.08	3/4	2,801.18	3/4	2,457.26
3		3		3	4,854.95	3	4,512.60	3	4,169.52	3	3,825.60	3	3,481.74	3	3,137.92	3	2,794.02	3	2,450.09
1/4		1/4		1/4	4,847.81	1/4	4,505.46	1/4	4,162.36	1/4	3,818.43	1/4	3,474.58	1/4	3,130.76	1/4	2,786.85	1/4	2,442.93
1/2		1/2		1/2	4,840.68	1/2	4,498.33	1/2	4,155.19	1/2	3,811.27	1/2	3,467.41	1/2	3,123.60	1/2	2,779.69	1/2	2,435.76
3/4		3/4		3/4	4,833.55	3/4	4,491.20	3/4	4,148.03	3/4	3,804.10	3/4	3,460.25	3/4	3,116.43	3/4	2,772.52	3/4	2,428.60
4		4		4	4,826.42	4	4,484.07	4	4,140.86	4	3,796.94	4	3,453.09	4	3,109.27	4	2,765.36	4	2,421.43
1/4		1/4		1/4	4,819.28	1/4	4,476.93	1/4	4,133.70	1/4	3,789.77	1/4	3,445.93	1/4	3,102.11	1/4	2,758.19	1/4	2,414.27
1/2		1/2		1/2	4,812.15	1/2	4,469.80	1/2	4,126.53	1/2	3,782.61	1/2	3,438.76	1/2	3,094.94	1/2	2,751.03	1/2	2,407.10
3/4		3/4		3/4	4,805.02	3/4	4,462.67	3/4	4,119.37	3/4	3,775.44	3/4	3,431.60	3/4	3,087.78	3/4	2,743.86	3/4	2,399.94
5		5		5	4,797.89	5	4,455.54	5	4,112.20	5	3,768.28	5	3,424.44	5	3,080.62	5	2,736.70	5	2,392.77
1/4		1/4		1/4	4,790.76	1/4	4,448.41	1/4	4,105.04	1/4	3,761.11	1/4	3,417.27	1/4	3,073.45	1/4	2,729.53	1/4	2,385.61
1/2		1/2		1/2	5,099.11	1/2	4,783.62	1/2	4,441.27	1/2	4,097.87	1/2	3,753.95	1/2	3,410.11	1/2	3,066.29	1/2	2,722.37
3/4		3/4		3/4	5,095.31	3/4	4,776.49	3/4	4,434.14	3/4	4,090.71	3/4	3,746.78	3/4	3,402.95	3/4	3,059.13	3/4	2,715.20
6		6		6	5,091.50	6	4,769.36	6	4,427.01	6	4,083.54	6	3,739.62	6	3,395.79	6	3,051.96	6	2,708.04
1/4		1/4		1/4	5,087.70	1/4	4,762.23	1/4	4,419.88	1/4	4,076.38	1/4	3,732.45	1/4	3,388.62	1/4	3,044.80	1/4	2,700.87
1/2		1/2		1/2	5,083.90	1/2	4,755.09	1/2	4,412.74	1/2	4,069.21	1/2	3,725.29	1/2	3,381.46	1/2	3,037.63	1/2	2,693.71
3/4		3/4		3/4	5,078.90	3/4	4,747.96	3/4	4,405.61	3/4	4,062.05	3/4	3,718.12	3/4	3,374.30	3/4	3,030.47	3/4	2,686.54
7		7		7	5,073.90	7	4,740.83	7	4,398.48	7	4,054.88	7	3,710.96	7	3,367.13	7	3,023.30	7	2,679.38
1/4		1/4		1/4	5,068.90	1/4	4,733.70	1/4	4,391.35	1/4	4,047.72	1/4	3,703.79	1/4	3,359.97	1/4	3,016.14	1/4	2,672.21
1/2		1/2		1/2	5,063.91	1/2	4,726.56	1/2	4,384.21	1/2	4,040.55	1/2	3,696.63	1/2	3,352.81	1/2	3,008.97	1/2	2,665.05
3/4		3/4		3/4	5,057.72	3/4	4,719.43	3/4	4,377.08	3/4	4,033.39	3/4	3,689.46	3/4	3,345.65	3/4	3,001.81	3/4	2,657.88
8		8		8	5,051.52	8	4,712.30	8	4,369.95	8	4,026.22	8	3,682.30	8	3,338.48	8	2,994.64	8	2,650.72
1/4		1/4		1/4	5,045.33	1/4	4,705.17	1/4	4,362.82	1/4	4,019.06	1/4	3,675.14	1/4	3,331.32	1/4	2,987.48	1/4	2,643.55
1/2		1/2		1/2	5,039.14	1/2	4,698.04	1/2	4,355.69	1/2	4,011.89	1/2	3,667.98	1/2	3,324.16	1/2	2,980.31	1/2	2,636.39
3/4		3/4		3/4	5,032.12	3/4	4,690.90	3/4	4,348.55	3/4	4,004.73	3/4	3,660.81	3/4	3,316.99	3/4	2,973.15	3/4	2,629.22
9		9		9	5,025.10	9	4,683.77	9	4,341.42	9	3,997.56	9	3,653.65	9	3,309.83	9	2,965.98	9	2,622.06
1/4		1/4		1/4	5,018.09	1/4	4,676.64	1/4	4,334.29	1/4	3,990.40	1/4	3,646.49	1/4	3,302.67	1/4	2,958.82	1/4	2,614.89
1/2		1/2		1/2	5,011.07	1/2	4,669.51	1/2	4,327.16	1/2	3,983.23	1/2	3,639.32	1/2	3,295.50	1/2	2,951.65	1/2	2,607.73
3/4		3/4		3/4	5,003.99	3/4	4,662.37	3/4	4,319.99	3/4	3,976.07	3/4	3,632.16	3/4	3,288.34	3/4	2,944.49	3/4	2,600.56
10		10		10	4,996.92	10	4,655.24	10	4,312.83	10	3,968.90	10	3,625.00	10	3,281.18	10	2,937.32	10	2,593.40
1/4		1/4		1/4	4,989.85	1/4	4,648.11	1/4	4,305.66	1/4	3,961.74	1/4	3,617.84	1/4	3,274.02	1/4	2,930.16	1/4	2,586.23
1/2		1/2		1/2	4,982.78	1/2	4,640.98	1/2	4,298.50	1/2	3,954.57	1/2	3,610.67	1/2	3,266.85	1/2	2,922.99	1/2	2,579.07
3/4		3/4		3/4	4,975.69	3/4	4,633.84	3/4	4,291.33	3/4	3,947.41	3/4	3,603.51	3/4	3,259.69	3/4	2,915.82	3/4	2,571.90
11		11		11	4,968.61	11	4,626.71	11	4,284.17	11	3,940.24	11	3,596.35	11	3,252.53	11	2,908.66	11	2,564.73
1/4		1/4		1/4	4,961.52	1/4	4,619.58	1/4	4,277.00	1/4	3,933.08	1/4	3,589.18	1/4	3,245.36	1/4	2,901.49	1/4	2,557.57
1/2		1/2		1/2	4,954.43	1/2	4,612.45	1/2	4,269.84	1/2	3,925.91	1/2	3,582.02	1/2	3,238.20	1/2	2,894.33	1/2	2,550.40
3/4		3/4		3/4	4,947.35	3/4	4,605.32	3/4	4,262.67	3/4	3,918.75	3/4	3,574.86	3/4	3,231.04	3/4	2,887.16	3/4	2,543.24

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "MPX 414"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,192.15	0	1,848.22	0	1,504.30	0	1,160.38	0	816.95	0	473.04	0	129.13	0		0		0	
1/4	2,184.98	1/4	1,841.06	1/4	1,497.14	1/4	1,153.21	1/4	809.79	1/4	465.88	1/4	121.97	1/4	1/4	1/4		1/4	
1/2	2,177.82	1/2	1,833.89	1/2	1,489.97	1/2	1,146.05	1/2	802.62	1/2	458.71	1/2	114.81	1/2	1/2	1/2		1/2	
3/4	2,170.65	3/4	1,826.73	3/4	1,482.80	3/4	1,138.88	3/4	795.46	3/4	451.55	3/4	107.65	3/4	3/4	3/4		3/4	
1	2,163.49	1	1,819.56	1	1,475.64	1	1,131.71	1	788.29	1	444.38	1	100.50	1	1	1		1	
1/4	2,156.32	1/4	1,812.40	1/4	1,468.47	1/4	1,124.55	1/4	781.13	1/4	437.22	1/4	93.34	1/4	1/4	1/4		1/4	
1/2	2,149.16	1/2	1,805.23	1/2	1,461.31	1/2	1,117.38	1/2	773.96	1/2	430.05	1/2	86.19	1/2	1/2	1/2		1/2	
3/4	2,141.99	3/4	1,798.07	3/4	1,454.14	3/4	1,110.23	3/4	766.80	3/4	422.89	3/4	79.06	3/4	3/4	3/4		3/4	
2	2,134.83	2	1,790.90	2	1,446.98	2	1,103.07	2	759.63	2	415.72	2	71.93	2	2	2		2	
1/4	2,127.66	1/4	1,783.74	1/4	1,439.81	1/4	1,095.91	1/4	752.47	1/4	408.56	1/4	64.80	1/4	1/4	1/4		1/4	
1/2	2,120.50	1/2	1,776.57	1/2	1,432.65	1/2	1,088.75	1/2	745.30	1/2	401.39	1/2	57.68	1/2	1/2	1/2		1/2	
3/4	2,113.33	3/4	1,769.41	3/4	1,425.48	3/4	1,081.60	3/4	738.14	3/4	394.23	3/4	51.41	3/4	3/4	3/4		3/4	
3	2,106.17	3	1,762.24	3	1,418.32	3	1,074.45	3	730.97	3	387.06	3	45.14	3	3	3		3	
1/4	2,099.00	1/4	1,755.08	1/4	1,411.15	1/4	1,067.30	1/4	723.81	1/4	379.90	1/4	38.87	1/4	1/4	1/4		1/4	
1/2	2,091.84	1/2	1,747.91	1/2	1,403.99	1/2	1,060.14	1/2	716.64	1/2	372.73	1/2	32.60	1/2	1/2	1/2		1/2	
3/4	2,084.67	3/4	1,740.75	3/4	1,396.82	3/4	1,052.99	3/4	709.48	3/4	365.57	3/4	28.13	3/4	3/4	3/4		3/4	
4	2,077.51	4	1,733.58	4	1,389.66	4	1,045.84	4	702.31	4	358.40	4	23.65	4	4	4		4	
1/4	2,070.34	1/4	1,726.42	1/4	1,382.49	1/4	1,038.69	1/4	695.15	1/4	351.24	1/4	19.17	1/4	1/4	1/4		1/4	
1/2	2,063.18	1/2	1,719.25	1/2	1,375.33	1/2	1,031.54	1/2	687.98	1/2	344.07	1/2	14.70	1/2	1/2	1/2		1/2	
3/4	2,056.01	3/4	1,712.09	3/4	1,368.16	3/4	1,024.39	3/4	680.82	3/4	336.91	3/4		3/4	3/4	3/4		3/4	
5	2,048.85	5	1,704.92	5	1,361.00	5	1,017.24	5	673.66	5	329.74	5		5	5	5		5	
1/4	2,041.68	1/4	1,697.76	1/4	1,353.83	1/4	1,010.09	1/4	666.49	1/4	322.58	1/4		1/4	1/4	1/4		1/4	
1/2	2,034.52	1/2	1,690.59	1/2	1,346.67	1/2	1,002.94	1/2	659.33	1/2	315.42	1/2		1/2	1/2	1/2		1/2	
3/4	2,027.35	3/4	1,683.43	3/4	1,339.50	3/4	995.79	3/4	652.16	3/4	308.25	3/4		3/4	3/4	3/4		3/4	
6	2,020.19	6	1,676.26	6	1,332.34	6	988.63	6	645.00	6	301.09	6		6	6	6		6	
1/4	2,013.02	1/4	1,669.10	1/4	1,325.17	1/4	981.48	1/4	637.83	1/4	293.92	1/4		1/4	1/4	1/4		1/4	
1/2	2,005.86	1/2	1,661.93	1/2	1,318.01	1/2	974.33	1/2	630.67	1/2	286.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,998.69	3/4	1,654.77	3/4	1,310.84	3/4	967.18	3/4	623.50	3/4	279.59	3/4		3/4	3/4	3/4		3/4	
7	1,991.53	7	1,647.60	7	1,303.68	7	960.03	7	616.34	7	272.43	7		7	7	7		7	
1/4	1,984.36	1/4	1,640.44	1/4	1,296.51	1/4	952.88	1/4	609.17	1/4	265.26	1/4		1/4	1/4	1/4		1/4	
1/2	1,977.20	1/2	1,633.27	1/2	1,289.35	1/2	945.73	1/2	602.01	1/2	258.10	1/2		1/2	1/2	1/2		1/2	
3/4	1,970.03	3/4	1,626.11	3/4	1,282.18	3/4	938.58	3/4	594.84	3/4	250.93	3/4		3/4	3/4	3/4		3/4	
8	1,962.87	8	1,618.94	8	1,275.02	8	931.43	8	587.68	8	243.77	8		8	8	8		8	
1/4	1,955.70	1/4	1,611.78	1/4	1,267.85	1/4	924.28	1/4	580.51	1/4	236.60	1/4		1/4	1/4	1/4		1/4	
1/2	1,948.54	1/2	1,604.61	1/2	1,260.69	1/2	917.13	1/2	573.35	1/2	229.44	1/2		1/2	1/2	1/2		1/2	
3/4	1,941.37	3/4	1,597.45	3/4	1,253.52	3/4	909.97	3/4	566.18	3/4	222.27	3/4		3/4	3/4	3/4		3/4	
9	1,934.21	9	1,590.28	9	1,246.36	9	902.82	9	559.02	9	215.11	9		9	9	9		9	
1/4	1,927.04	1/4	1,583.12	1/4	1,239.19	1/4	895.67	1/4	551.85	1/4	207.94	1/4		1/4	1/4	1/4		1/4	
1/2	1,919.88	1/2	1,575.95	1/2	1,232.03	1/2	888.52	1/2	544.69	1/2	200.78	1/2		1/2	1/2	1/2		1/2	
3/4	1,912.71	3/4	1,568.79	3/4	1,224.86	3/4	881.37	3/4	537.52	3/4	193.61	3/4		3/4	3/4	3/4		3/4	
10	1,905.55	10	1,561.62	10	1,217.70	10	874.22	10	530.36	10	186.45	10		10	10	10		10	
1/4	1,898.38	1/4	1,554.46	1/4	1,210.53	1/4	867.07	1/4	523.19	1/4	179.28	1/4		1/4	1/4	1/4		1/4	
1/2	1,891.22	1/2	1,547.29	1/2	1,203.37	1/2	859.92	1/2	516.03	1/2	172.12	1/2		1/2	1/2	1/2		1/2	
3/4	1,884.05	3/4	1,540.13	3/4	1,196.20	3/4	852.76	3/4	508.86	3/4	164.95	3/4		3/4	3/4	3/4		3/4	
11	1,876.89	11	1,532.96	11	1,189.04	11	845.60	11	501.70	11	157.79	11		11	11	11		11	
1/4	1,869.72	1/4	1,525.80	1/4	1,181.87	1/4	838.44	1/4	494.54	1/4	150.62	1/4		1/4	1/4	1/4		1/4	
1/2	1,862.56	1/2	1,518.63	1/2	1,174.71	1/2	831.28	1/2	487.37	1/2	143.46	1/2		1/2	1/2	1/2		1/2	
3/4	1,855.39	3/4	1,511.47	3/4	1,167.54	3/4	824.12	3/4	480.21	3/4	136.30	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

3 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,289.43	0	4,081.05	0	3,872.31	0	3,662.86	0	3,453.68	0	3,184.90	0	2,843.86	0	2,502.76
1/4		1/4		1/4	4,285.11	1/4	4,076.71	1/4	3,867.95	1/4	3,658.49	1/4	3,449.34	1/4	3,177.81	1/4	2,836.75	1/4	2,495.65
1/2		1/2		1/2	4,280.79	1/2	4,072.36	1/2	3,863.59	1/2	3,654.13	1/2	3,444.99	1/2	3,170.72	1/2	2,829.65	1/2	2,488.54
3/4		3/4		3/4	4,276.48	3/4	4,068.02	3/4	3,859.22	3/4	3,649.77	3/4	3,440.64	3/4	3,163.64	3/4	2,822.54	3/4	2,481.44
1		1		1	4,272.16	1	4,063.67	1	3,854.86	1	3,645.40	1	3,436.29	1	3,156.55	1	2,815.43	1	2,474.33
1/4		1/4		1/4	4,267.84	1/4	4,059.33	1/4	3,850.50	1/4	3,641.04	1/4	3,431.94	1/4	3,149.47	1/4	2,808.33	1/4	2,467.22
1/2		1/2		1/2	4,263.53	1/2	4,054.98	1/2	3,846.13	1/2	3,636.67	1/2	3,427.60	1/2	3,142.38	1/2	2,801.22	1/2	2,460.11
3/4		3/4		3/4	4,259.18	3/4	4,050.64	3/4	3,841.77	3/4	3,632.31	3/4	3,423.25	3/4	3,135.30	3/4	2,794.11	3/4	2,453.01
2		2		2	4,254.84	2	4,046.29	2	3,837.40	2	3,627.95	2	3,418.90	2	3,128.21	2	2,787.01	2	2,445.90
1/4		1/4		1/4	4,250.49	1/4	4,041.95	1/4	3,833.04	1/4	3,623.58	1/4	3,414.55	1/4	3,121.13	1/4	2,779.90	1/4	2,438.79
1/2		1/2		1/2	4,246.15	1/2	4,037.60	1/2	3,828.68	1/2	3,619.22	1/2	3,410.20	1/2	3,114.04	1/2	2,772.80	1/2	2,431.69
3/4		3/4		3/4	4,241.80	3/4	4,033.26	3/4	3,824.31	3/4	3,614.86	3/4	3,405.86	3/4	3,106.94	3/4	2,765.69	3/4	2,424.58
3		3		3	4,237.46	3	4,028.91	3	3,819.95	3	3,610.49	3	3,401.51	3	3,099.84	3	2,758.58	3	2,417.47
1/4		1/4		1/4	4,233.11	1/4	4,024.57	1/4	3,815.59	1/4	3,606.13	1/4	3,397.16	1/4	3,092.74	1/4	2,751.48	1/4	2,410.36
1/2		1/2		1/2	4,228.77	1/2	4,020.22	1/2	3,811.22	1/2	3,601.76	1/2	3,392.81	1/2	3,085.63	1/2	2,744.37	1/2	2,403.26
3/4		3/4		3/4	4,224.42	3/4	4,015.88	3/4	3,806.86	3/4	3,597.40	3/4	3,388.46	3/4	3,078.53	3/4	2,737.26	3/4	2,396.15
4		4		4	4,220.08	4	4,011.53	4	3,802.50	4	3,593.04	4	3,384.12	4	3,071.43	4	2,730.16	4	2,389.04
1/4		1/4		1/4	4,215.74	1/4	4,007.19	1/4	3,798.13	1/4	3,588.67	1/4	3,379.77	1/4	3,064.33	1/4	2,723.05	1/4	2,381.93
1/2		1/2		1/2	4,211.39	1/2	4,002.85	1/2	3,793.77	1/2	3,584.31	1/2	3,375.42	1/2	3,057.23	1/2	2,715.95	1/2	2,374.83
3/4		3/4		3/4	4,207.05	3/4	3,998.50	3/4	3,789.40	3/4	3,579.95	3/4	3,371.09	3/4	3,050.12	3/4	2,708.84	3/4	2,367.72
5		5		5	4,202.70	5	3,994.16	5	3,785.04	5	3,575.58	5	3,366.76	5	3,043.02	5	2,701.73	5	2,360.61
1/4		1/4		1/4	4,198.36	1/4	3,989.81	1/4	3,780.68	1/4	3,571.22	1/4	3,362.43	1/4	3,035.92	1/4	2,694.63	1/4	2,353.51
1/2		1/2		1/2	4,194.01	1/2	3,985.47	1/2	3,776.31	1/2	3,566.86	1/2	3,358.10	1/2	3,028.82	1/2	2,687.52	1/2	2,346.40
3/4		3/4		3/4	4,189.67	3/4	3,981.12	3/4	3,771.95	3/4	3,562.49	3/4	3,353.77	3/4	3,021.70	3/4	2,680.41	3/4	2,339.29
6		6		6	4,185.32	6	3,976.78	6	3,767.59	6	3,558.13	6	3,349.44	6	3,014.58	6	2,673.31	6	2,332.18
1/4		1/4		1/4	4,180.98	1/4	3,972.43	1/4	3,763.22	1/4	3,553.76	1/4	3,345.11	1/4	3,007.46	1/4	2,666.20	1/4	2,325.08
1/2		1/2		1/2	4,176.63	1/2	3,968.09	1/2	3,758.86	1/2	3,549.40	1/2	3,340.78	1/2	3,000.34	1/2	2,659.10	1/2	2,317.97
3/4		3/4		3/4	4,172.29	3/4	3,963.74	3/4	3,754.49	3/4	3,545.04	3/4	3,333.70	3/4	2,993.22	3/4	2,651.99	3/4	2,310.86
7		7		7	4,167.94	7	3,959.40	7	3,750.13	7	3,540.67	7	3,326.61	7	2,986.11	7	2,644.88	7	2,303.75
1/4		1/4		1/4	4,163.60	1/4	3,955.05	1/4	3,745.77	1/4	3,536.31	1/4	3,319.52	1/4	2,978.99	1/4	2,637.78	1/4	2,296.65
1/2		1/2		1/2	4,159.25	1/2	3,950.71	1/2	3,741.40	1/2	3,531.95	1/2	3,312.44	1/2	2,971.87	1/2	2,630.67	1/2	2,289.54
3/4		3/4		3/4	4,154.91	3/4	3,946.36	3/4	3,737.04	3/4	3,527.60	3/4	3,305.35	3/4	2,964.75	3/4	2,623.56	3/4	2,282.43
8		8		8	4,150.57	8	3,942.02	8	3,732.68	8	3,523.25	8	3,298.26	8	2,957.63	8	2,616.46	8	2,275.33
1/4		1/4		1/4	4,146.22	1/4	3,937.67	1/4	3,728.31	1/4	3,518.90	1/4	3,291.18	1/4	2,950.51	1/4	2,609.35	1/4	2,268.22
1/2		1/2		1/2	4,141.88	1/2	3,933.33	1/2	3,723.95	1/2	3,514.55	1/2	3,284.09	1/2	2,943.40	1/2	2,602.24	1/2	2,261.11
3/4		3/4		3/4	4,137.53	3/4	3,928.99	3/4	3,719.58	3/4	3,510.21	3/4	3,277.01	3/4	2,936.28	3/4	2,595.14	3/4	2,254.00
9		9		9	4,133.19	9	3,924.64	9	3,715.22	9	3,505.86	9	3,269.92	9	2,929.16	9	2,588.03	9	2,246.90
1/4		1/4		1/4	4,128.84	1/4	3,920.30	1/4	3,710.86	1/4	3,501.51	1/4	3,262.83	1/4	2,922.04	1/4	2,580.93	1/4	2,239.79
1/2		1/2		1/2	4,124.50	1/2	3,915.95	1/2	3,706.49	1/2	3,497.16	1/2	3,255.75	1/2	2,914.92	1/2	2,573.82	1/2	2,232.68
3/4		3/4		3/4	4,120.15	3/4	3,911.59	3/4	3,702.13	3/4	3,492.81	3/4	3,248.66	3/4	2,907.82	3/4	2,566.71	3/4	2,225.57
10		10		10	4,115.81	10	3,907.22	10	3,697.77	10	3,488.47	10	3,241.58	10	2,900.71	10	2,559.61	10	2,218.47
1/4		1/4		1/4	4,111.46	1/4	3,902.86	1/4	3,693.40	1/4	3,484.12	1/4	3,234.49	1/4	2,893.60	1/4	2,552.50	1/4	2,211.36
1/2		1/2		1/2	4,107.12	1/2	3,898.50	1/2	3,689.04	1/2	3,479.77	1/2	3,227.41	1/2	2,886.50	1/2	2,545.39	1/2	2,204.25
3/4		3/4		3/4	4,102.77	3/4	3,894.13	3/4	3,684.68	3/4	3,475.42	3/4	3,220.32	3/4	2,879.39	3/4	2,538.29	3/4	2,197.14
11		11		11	4,108.43	11	3,889.77	11	3,680.31	11	3,471.08	11	3,213.24	11	2,872.28	11	2,531.18	11	2,190.04
1/4		1/4		1/4	4,104.08	1/4	3,885.41	1/4	3,675.95	1/4	3,466.73	1/4	3,206.15	1/4	2,865.18	1/4	2,524.08	1/4	2,182.93
1/2		1/2		1/2	4,099.74	1/2	3,881.04	1/2	3,671.58	1/2	3,462.38	1/2	3,199.07	1/2	2,858.07	1/2	2,516.97	1/2	2,175.82
3/4		3/4		3/4	4,095.39	3/4	3,876.68	3/4	3,667.22	3/4	3,458.03	3/4	3,191.98	3/4	2,850.97	3/4	2,509.86	3/4	2,168.72

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,161.61	0	1,820.46	0	1,479.31	0	1,138.16	0	810.69	0	469.94	0	128.34	0		0		0	
1/4	2,154.50	1/4	1,813.35	1/4	1,472.20	1/4	1,131.05	1/4	803.81	1/4	462.83	1/4	121.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,147.39	1/2	1,806.24	1/2	1,465.09	1/2	1,123.94	1/2	796.94	1/2	455.72	1/2	114.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,140.29	3/4	1,799.14	3/4	1,457.99	3/4	1,117.07	3/4	789.83	3/4	448.61	3/4	106.99	3/4	3/4	3/4	3/4	3/4	3/4
1	2,133.18	1	1,792.03	1	1,450.88	1	1,110.19	1	782.72	1	441.51	1	99.88	1	1	1	1	1	1
1/4	2,126.07	1/4	1,784.92	1/4	1,443.77	1/4	1,103.31	1/4	775.61	1/4	434.40	1/4	92.77	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,118.96	1/2	1,777.81	1/2	1,436.66	1/2	1,096.44	1/2	768.50	1/2	427.29	1/2	85.66	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,111.86	3/4	1,770.71	3/4	1,429.56	3/4	1,089.63	3/4	761.39	3/4	420.18	3/4	78.58	3/4	3/4	3/4	3/4	3/4	3/4
2	2,104.75	2	1,763.60	2	1,422.45	2	1,082.83	2	754.28	2	413.07	2	71.49	2	2	2	2	2	2
1/4	2,097.64	1/4	1,756.49	1/4	1,415.34	1/4	1,076.02	1/4	747.18	1/4	405.96	1/4	64.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,090.54	1/2	1,749.38	1/2	1,408.23	1/2	1,069.21	1/2	740.07	1/2	398.85	1/2	57.32	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,083.43	3/4	1,742.28	3/4	1,401.13	3/4	1,062.41	3/4	732.96	3/4	391.75	3/4	51.09	3/4	3/4	3/4	3/4	3/4	3/4
3	2,076.32	3	1,735.17	3	1,394.02	3	1,055.62	3	725.85	3	384.64	3	44.87	3	3	3	3	3	3
1/4	2,069.21	1/4	1,728.06	1/4	1,386.91	1/4	1,048.82	1/4	718.74	1/4	377.53	1/4	38.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,062.11	1/2	1,720.96	1/2	1,379.81	1/2	1,042.02	1/2	711.63	1/2	370.42	1/2	32.41	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,055.00	3/4	1,713.85	3/4	1,372.70	3/4	1,035.22	3/4	704.52	3/4	363.30	3/4	27.96	3/4	3/4	3/4	3/4	3/4	3/4
4	2,047.89	4	1,706.74	4	1,365.59	4	1,028.42	4	697.42	4	356.18	4	23.51	4	4	4	4	4	4
1/4	2,040.78	1/4	1,699.63	1/4	1,358.48	1/4	1,021.62	1/4	690.31	1/4	349.06	1/4	19.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,033.68	1/2	1,692.53	1/2	1,351.38	1/2	1,014.83	1/2	683.20	1/2	341.94	1/2	14.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,026.57	3/4	1,685.42	3/4	1,344.27	3/4	1,008.03	3/4	676.09	3/4	334.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	2,019.46	5	1,678.31	5	1,337.16	5	1,001.23	5	668.98	5	327.70	5		5	5	5	5	5	5
1/4	2,012.35	1/4	1,671.20	1/4	1,330.05	1/4	994.43	1/4	661.87	1/4	320.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,005.25	1/2	1,664.10	1/2	1,322.95	1/2	987.63	1/2	654.76	1/2	313.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,998.14	3/4	1,656.99	3/4	1,315.84	3/4	980.83	3/4	647.66	3/4	306.34	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	1,991.03	6	1,649.88	6	1,308.73	6	974.04	6	640.55	6	299.22	6		6	6	6	6	6	6
1/4	1,983.93	1/4	1,642.78	1/4	1,301.62	1/4	967.24	1/4	633.44	1/4	292.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,976.82	1/2	1,635.67	1/2	1,294.52	1/2	960.44	1/2	626.33	1/2	284.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,969.71	3/4	1,628.56	3/4	1,287.41	3/4	953.64	3/4	619.22	3/4	277.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,962.60	7	1,621.45	7	1,280.30	7	946.84	7	612.11	7	270.74	7		7	7	7	7	7	7
1/4	1,955.50	1/4	1,614.35	1/4	1,273.20	1/4	940.04	1/4	605.00	1/4	263.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,948.39	1/2	1,607.24	1/2	1,266.09	1/2	933.24	1/2	597.89	1/2	256.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,941.28	3/4	1,600.13	3/4	1,258.98	3/4	926.45	3/4	590.79	3/4	249.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,934.17	8	1,593.02	8	1,251.87	8	919.65	8	583.68	8	242.26	8		8	8	8	8	8	8
1/4	1,927.07	1/4	1,585.92	1/4	1,244.77	1/4	912.85	1/4	576.57	1/4	235.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,919.96	1/2	1,578.81	1/2	1,237.66	1/2	906.05	1/2	569.46	1/2	228.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.85	3/4	1,571.70	3/4	1,230.55	3/4	899.25	3/4	562.35	3/4	220.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,905.75	9	1,564.60	9	1,223.44	9	892.46	9	555.24	9	213.78	9		9	9	9	9	9	9
1/4	1,898.64	1/4	1,557.49	1/4	1,216.34	1/4	885.66	1/4	548.13	1/4	206.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,891.53	1/2	1,550.38	1/2	1,209.23	1/2	878.86	1/2	541.03	1/2	199.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,884.42	3/4	1,543.27	3/4	1,202.12	3/4	872.06	3/4	533.92	3/4	192.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,877.32	10	1,536.17	10	1,195.02	10	865.26	10	526.81	10	185.29	10		10	10	10	10	10	10
1/4	1,870.21	1/4	1,529.06	1/4	1,187.91	1/4	858.47	1/4	519.70	1/4	178.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,863.10	1/2	1,521.95	1/2	1,180.80	1/2	851.67	1/2	512.59	1/2	171.05	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,855.99	3/4	1,514.84	3/4	1,173.69	3/4	844.86	3/4	505.48	3/4	163.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,848.89	11	1,507.74	11	1,166.59	11	838.06	11	498.37	11	156.81	11		11	11	11	11	11	11
1/4	1,841.78	1/4	1,500.63	1/4	1,159.48	1/4	831.25	1/4	491.27	1/4	149.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,834.67	1/2	1,493.52	1/2	1,152.37	1/2	824.44	1/2	484.16	1/2	142.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,827.57	3/4	1,486.41	3/4	1,145.26	3/4	817.57	3/4	477.05	3/4	135.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

3 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,320.07	0	4,111.42	0	3,902.41	0	3,692.63	0	3,482.85	0	3,218.95	0	2,877.98	0	2,536.55
1/4		1/4		1/4	4,315.74	1/4	4,107.07	1/4	3,898.04	1/4	3,688.26	1/4	3,478.48	1/4	3,211.86	1/4	2,870.87	1/4	2,529.42
1/2		1/2		1/2	4,311.42	1/2	4,102.72	1/2	3,893.67	1/2	3,683.89	1/2	3,474.11	1/2	3,204.77	1/2	2,863.76	1/2	2,522.30
3/4		3/4		3/4	4,307.09	3/4	4,098.37	3/4	3,889.30	3/4	3,679.52	3/4	3,469.74	3/4	3,197.68	3/4	2,856.65	3/4	2,515.17
1		1		1	4,302.77	1	4,094.02	1	3,884.93	1	3,675.15	1	3,465.37	1	3,190.59	1	2,849.54	1	2,508.04
1/4		1/4		1/4	4,298.45	1/4	4,089.67	1/4	3,880.56	1/4	3,670.78	1/4	3,461.00	1/4	3,183.50	1/4	2,842.44	1/4	2,500.91
1/2		1/2		1/2	4,294.12	1/2	4,085.31	1/2	3,876.19	1/2	3,666.41	1/2	3,456.63	1/2	3,176.41	1/2	2,835.33	1/2	2,493.79
3/4		3/4		3/4	4,289.80	3/4	4,080.96	3/4	3,871.81	3/4	3,662.04	3/4	3,452.26	3/4	3,169.32	3/4	2,828.22	3/4	2,486.66
2		2		2	4,285.47	2	4,076.61	2	3,867.44	2	3,657.67	2	3,447.89	2	3,162.23	2	2,821.11	2	2,479.54
1/4		1/4		1/4	4,281.12	1/4	4,072.26	1/4	3,863.07	1/4	3,653.29	1/4	3,443.52	1/4	3,155.14	1/4	2,814.00	1/4	2,472.41
1/2		1/2		1/2	4,276.77	1/2	4,067.91	1/2	3,858.70	1/2	3,648.92	1/2	3,439.15	1/2	3,148.05	1/2	2,806.90	1/2	2,465.28
3/4		3/4		3/4	4,272.42	3/4	4,063.56	3/4	3,854.33	3/4	3,644.55	3/4	3,434.77	3/4	3,140.96	3/4	2,799.79	3/4	2,458.16
3		3		3	4,268.07	3	4,059.21	3	3,849.96	3	3,640.18	3	3,430.40	3	3,133.86	3	2,792.68	3	2,451.03
1/4		1/4		1/4	4,263.72	1/4	4,054.86	1/4	3,845.59	1/4	3,635.81	1/4	3,426.03	1/4	3,126.76	1/4	2,785.57	1/4	2,443.91
1/2		1/2		1/2	4,259.37	1/2	4,050.50	1/2	3,841.22	1/2	3,631.44	1/2	3,421.66	1/2	3,119.65	1/2	2,778.46	1/2	2,436.78
3/4		3/4		3/4	4,255.02	3/4	4,046.15	3/4	3,836.85	3/4	3,627.07	3/4	3,417.29	3/4	3,112.54	3/4	2,771.36	3/4	2,429.65
4		4		4	4,250.66	4	4,041.80	4	3,832.48	4	3,622.70	4	3,412.92	4	3,105.43	4	2,764.25	4	2,422.53
1/4		1/4		1/4	4,246.31	1/4	4,037.45	1/4	3,828.11	1/4	3,618.33	1/4	3,408.55	1/4	3,098.32	1/4	2,757.14	1/4	2,415.40
1/2		1/2		1/2	4,241.96	1/2	4,033.10	1/2	3,823.74	1/2	3,613.96	1/2	3,404.18	1/2	3,091.22	1/2	2,750.03	1/2	2,408.28
3/4		3/4		3/4	4,237.61	3/4	4,028.75	3/4	3,819.37	3/4	3,609.59	3/4	3,399.81	3/4	3,084.11	3/4	2,742.92	3/4	2,401.15
5		5		5	4,233.26	5	4,024.40	5	3,815.00	5	3,605.22	5	3,395.44	5	3,077.00	5	2,735.82	5	2,394.02
1/4		1/4		1/4	4,228.91	1/4	4,020.05	1/4	3,810.63	1/4	3,600.85	1/4	3,391.11	1/4	3,069.89	1/4	2,728.71	1/4	2,386.90
1/2		1/2		1/2	4,224.56	1/2	4,015.69	1/2	3,806.26	1/2	3,596.48	1/2	3,386.77	1/2	3,062.78	1/2	2,721.60	1/2	2,379.77
3/4		3/4		3/4	4,220.21	3/4	4,011.34	3/4	3,801.89	3/4	3,592.11	3/4	3,382.44	3/4	3,055.68	3/4	2,714.49	3/4	2,372.64
6		6	4,401.15	6	4,215.85	6	4,006.99	6	3,797.52	6	3,587.74	6	3,378.10	6	3,048.57	6	2,707.38	6	2,365.52
1/4		1/4	4,399.44	1/4	4,211.50	1/4	4,002.64	1/4	3,793.15	1/4	3,583.37	1/4	3,373.77	1/4	3,041.46	1/4	2,700.28	1/4	2,358.39
1/2		1/2	4,397.74	1/2	4,207.15	1/2	3,998.29	1/2	3,788.78	1/2	3,579.00	1/2	3,369.43	1/2	3,034.35	1/2	2,693.17	1/2	2,351.27
3/4		3/4	4,396.03	3/4	4,202.80	3/4	3,993.94	3/4	3,784.41	3/4	3,574.63	3/4	3,365.10	3/4	3,027.24	3/4	2,686.06	3/4	2,344.14
7		7	4,394.32	7	4,198.45	7	3,989.59	7	3,780.04	7	3,570.26	7	3,360.76	7	3,020.14	7	2,678.95	7	2,337.01
1/4		1/4	4,392.08	1/4	4,194.10	1/4	3,985.24	1/4	3,775.67	1/4	3,565.89	1/4	3,353.67	1/4	3,013.03	1/4	2,671.84	1/4	2,329.89
1/2		1/2	4,389.83	1/2	4,189.75	1/2	3,980.88	1/2	3,771.30	1/2	3,561.52	1/2	3,346.58	1/2	3,005.92	1/2	2,664.74	1/2	2,322.76
3/4		3/4	4,387.58	3/4	4,185.39	3/4	3,976.53	3/4	3,766.93	3/4	3,557.15	3/4	3,339.49	3/4	2,998.81	3/4	2,657.63	3/4	2,315.64
8		8	4,385.34	8	4,181.04	8	3,972.18	8	3,762.55	8	3,552.78	8	3,332.40	8	2,991.70	8	2,650.52	8	2,308.51
1/4		1/4	4,381.91	1/4	4,176.69	1/4	3,967.83	1/4	3,758.18	1/4	3,548.41	1/4	3,325.31	1/4	2,984.60	1/4	2,643.41	1/4	2,301.38
1/2		1/2	4,378.47	1/2	4,172.34	1/2	3,963.48	1/2	3,753.81	1/2	3,544.03	1/2	3,318.22	1/2	2,977.49	1/2	2,636.30	1/2	2,294.26
3/4		3/4	4,375.04	3/4	4,167.99	3/4	3,959.13	3/4	3,749.44	3/4	3,539.66	3/4	3,311.13	3/4	2,970.38	3/4	2,629.20	3/4	2,287.13
9		9	4,371.61	9	4,163.64	9	3,954.78	9	3,745.07	9	3,535.29	9	3,304.04	9	2,963.27	9	2,622.09	9	2,280.01
1/4		1/4	4,367.35	1/4	4,159.29	1/4	3,950.42	1/4	3,740.70	1/4	3,530.92	1/4	3,296.95	1/4	2,956.16	1/4	2,614.96	1/4	2,272.88
1/2		1/2	4,363.10	1/2	4,154.94	1/2	3,946.07	1/2	3,736.33	1/2	3,526.55	1/2	3,289.86	1/2	2,949.06	1/2	2,607.83	1/2	2,265.75
3/4		3/4	4,358.84	3/4	4,150.58	3/4	3,941.72	3/4	3,731.96	3/4	3,522.18	3/4	3,282.77	3/4	2,941.95	3/4	2,600.70	3/4	2,258.63
10		10	4,354.59	10	4,146.23	10	3,937.37	10	3,727.59	10	3,517.81	10	3,275.68	10	2,934.84	10	2,593.58	10	2,251.50
1/4		1/4	4,350.28	1/4	4,141.88	1/4	3,933.00	1/4	3,723.22	1/4	3,513.44	1/4	3,268.59	1/4	2,927.73	1/4	2,586.45	1/4	2,244.37
1/2		1/2	4,345.97	1/2	4,137.53	1/2	3,928.63	1/2	3,718.85	1/2	3,509.07	1/2	3,261.50	1/2	2,920.62	1/2	2,579.32	1/2	2,237.25
3/4		3/4	4,341.66	3/4	4,133.18	3/4	3,924.26	3/4	3,714.48	3/4	3,504.70	3/4	3,254.40	3/4	2,913.52	3/4	2,572.19	3/4	2,230.12
11		11	4,337.35	11	4,128.83	11	3,919.89	11	3,710.11	11	3,500.33	11	3,247.31	11	2,906.41	11	2,565.06	11	2,223.00
1/4		1/4	4,333.03	1/4	4,124.48	1/4	3,915.52	1/4	3,705.74	1/4	3,495.96	1/4	3,240.22	1/4	2,899.30	1/4	2,557.94	1/4	2,215.87
1/2		1/2	4,328.71	1/2	4,120.13	1/2	3,911.15	1/2	3,701.37	1/2	3,491.59	1/2	3,233.13	1/2	2,892.19	1/2	2,550.81	1/2	2,208.74
3/4		3/4	4,324.39	3/4	4,115.77	3/4	3,906.78	3/4	3,697.00	3/4	3,487.22	3/4	3,226.04	3/4	2,885.08	3/4	2,543.68	3/4	2,201.62

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "MPX 414"

3 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,194.49	0	1,852.44	0	1,510.39	0	1,168.33	0	826.78	0	484.73	0	142.68	0		0			
1/4	2,187.37	1/4	1,845.31	1/4	1,503.26	1/4	1,161.21	1/4	819.65	1/4	477.61	1/4	135.56	1/4	1/4				
1/2	2,180.24	1/2	1,838.19	1/2	1,496.13	1/2	1,154.08	1/2	812.53	1/2	470.48	1/2	128.44	1/2	1/2				
3/4	2,173.11	3/4	1,831.06	3/4	1,489.01	3/4	1,146.96	3/4	805.40	3/4	463.35	3/4	121.31	3/4	3/4				
1	2,165.99	1	1,823.93	1	1,481.88	1	1,139.83	1	798.28	1	456.23	1	114.19	1	1				
1/4	2,158.86	1/4	1,816.81	1/4	1,474.76	1/4	1,132.70	1/4	791.15	1/4	449.10	1/4	107.07	1/4	1/4				
1/2	2,151.74	1/2	1,809.68	1/2	1,467.63	1/2	1,125.58	1/2	784.02	1/2	441.98	1/2	99.96	1/2	1/2				
3/4	2,144.61	3/4	1,802.56	3/4	1,460.50	3/4	1,118.45	3/4	776.90	3/4	434.85	3/4	92.84	3/4	3/4				
2	2,137.48	2	1,795.43	2	1,453.38	2	1,111.32	2	769.77	2	427.72	2	85.72	2	2				
1/4	2,130.36	1/4	1,788.30	1/4	1,446.25	1/4	1,104.20	1/4	762.65	1/4	420.60	1/4	78.64	1/4	1/4				
1/2	2,123.23	1/2	1,781.18	1/2	1,439.13	1/2	1,097.08	1/2	755.52	1/2	413.47	1/2	71.55	1/2	1/2				
3/4	2,116.10	3/4	1,774.05	3/4	1,432.00	3/4	1,089.96	3/4	748.39	3/4	406.35	3/4	64.46	3/4	3/4				
3	2,108.98	3	1,766.93	3	1,424.87	3	1,082.84	3	741.27	3	399.22	3	57.37	3	3				
1/4	2,101.85	1/4	1,759.80	1/4	1,417.75	1/4	1,075.73	1/4	734.14	1/4	392.09	1/4	51.13	1/4	1/4				
1/2	2,094.73	1/2	1,752.67	1/2	1,410.62	1/2	1,068.62	1/2	727.02	1/2	384.97	1/2	44.90	1/2	1/2				
3/4	2,087.60	3/4	1,745.55	3/4	1,403.49	3/4	1,061.51	3/4	719.89	3/4	377.84	3/4	38.66	3/4	3/4				
4	2,080.47	4	1,738.42	4	1,396.37	4	1,054.39	4	712.76	4	370.72	4	32.43	4	4				
1/4	2,073.35	1/4	1,731.30	1/4	1,389.24	1/4	1,047.28	1/4	705.64	1/4	363.59	1/4	27.98	1/4	1/4				
1/2	2,066.22	1/2	1,724.17	1/2	1,382.12	1/2	1,040.17	1/2	698.51	1/2	356.46	1/2	23.52	1/2	1/2				
3/4	2,059.10	3/4	1,717.04	3/4	1,374.99	3/4	1,033.06	3/4	691.39	3/4	349.34	3/4	19.07	3/4	3/4				
5	2,051.97	5	1,709.92	5	1,367.86	5	1,025.95	5	684.26	5	342.21	5	14.62	5	5				
1/4	2,044.84	1/4	1,702.79	1/4	1,360.74	1/4	1,018.83	1/4	677.13	1/4	335.09	1/4		1/4	1/4				
1/2	2,037.72	1/2	1,695.67	1/2	1,353.61	1/2	1,011.72	1/2	670.01	1/2	327.96	1/2		1/2	1/2				
3/4	2,030.59	3/4	1,688.54	3/4	1,346.49	3/4	1,004.61	3/4	662.88	3/4	320.83	3/4		3/4	3/4				
6	2,023.47	6	1,681.41	6	1,339.36	6	997.50	6	655.76	6	313.71	6		6	6				
1/4	2,016.34	1/4	1,674.29	1/4	1,332.23	1/4	990.39	1/4	648.63	1/4	306.58	1/4		1/4	1/4				
1/2	2,009.21	1/2	1,667.16	1/2	1,325.11	1/2	983.27	1/2	641.50	1/2	299.46	1/2		1/2	1/2				
3/4	2,002.09	3/4	1,660.03	3/4	1,317.98	3/4	976.16	3/4	634.38	3/4	292.33	3/4		3/4	3/4				
7	1,994.96	7	1,652.91	7	1,310.86	7	969.05	7	627.25	7	285.20	7		7	7				
1/4	1,987.84	1/4	1,645.78	1/4	1,303.73	1/4	961.94	1/4	620.13	1/4	278.08	1/4		1/4	1/4				
1/2	1,980.71	1/2	1,638.66	1/2	1,296.60	1/2	954.83	1/2	613.00	1/2	270.95	1/2		1/2	1/2				
3/4	1,973.58	3/4	1,631.53	3/4	1,289.48	3/4	947.71	3/4	605.87	3/4	263.83	3/4		3/4	3/4				
8	1,966.46	8	1,624.40	8	1,282.35	8	940.60	8	598.75	8	256.70	8		8	8				
1/4	1,959.33	1/4	1,617.28	1/4	1,275.23	1/4	933.49	1/4	591.62	1/4	249.57	1/4		1/4	1/4				
1/2	1,952.20	1/2	1,610.15	1/2	1,268.10	1/2	926.38	1/2	584.50	1/2	242.45	1/2		1/2	1/2				
3/4	1,945.08	3/4	1,603.03	3/4	1,260.97	3/4	919.26	3/4	577.37	3/4	235.32	3/4		3/4	3/4				
9	1,937.95	9	1,595.90	9	1,253.85	9	912.15	9	570.24	9	228.20	9		9	9				
1/4	1,930.83	1/4	1,588.77	1/4	1,246.72	1/4	905.04	1/4	563.12	1/4	221.07	1/4		1/4	1/4				
1/2	1,923.70	1/2	1,581.65	1/2	1,239.59	1/2	897.93	1/2	555.99	1/2	213.94	1/2		1/2	1/2				
3/4	1,916.57	3/4	1,574.52	3/4	1,232.47	3/4	890.82	3/4	548.87	3/4	206.82	3/4		3/4	3/4				
10	1,909.45	10	1,567.40	10	1,225.34	10	883.70	10	541.74	10	199.69	10		10	10				
1/4	1,902.32	1/4	1,560.27	1/4	1,218.22	1/4	876.59	1/4	534.61	1/4	192.57	1/4		1/4	1/4				
1/2	1,895.20	1/2	1,553.14	1/2	1,211.09	1/2	869.48	1/2	527.49	1/2	185.44	1/2		1/2	1/2				
3/4	1,888.07	3/4	1,546.02	3/4	1,203.96	3/4	862.37	3/4	520.36	3/4	178.31	3/4		3/4	3/4				
11	1,880.94	11	1,538.89	11	1,196.84	11	855.26	11	513.24	11	171.19	11		11	11				
1/4	1,873.82	1/4	1,531.76	1/4	1,189.71	1/4	848.14	1/4	506.11	1/4	164.06	1/4		1/4	1/4				
1/2	1,866.69	1/2	1,524.64	1/2	1,182.59	1/2	841.02	1/2	498.98	1/2	156.94	1/2		1/2	1/2				
3/4	1,859.57	3/4	1,517.51	3/4	1,175.46	3/4	833.90	3/4	491.86	3/4	149.81	3/4		3/4	3/4				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2021



BARGE "MPX 414"

INNAGE (10" HATCH)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-03"

February 3, 2021

**PRECISION MEASUREMENT
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BARGE "MPX 414"

1 PORT INNAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	251.88	0	582.41	0	923.65	0	1,265.15	0	1,607.83	0	1,950.51	0	2,293.19	0	2,635.88	0	2,978.53
1/4	3.94	1/4	258.35	1/4	589.55	1/4	930.73	1/4	1,272.29	1/4	1,614.97	1/4	1,957.65	1/4	2,300.33	1/4	2,643.02	1/4	2,985.67
1/2	5.72	1/2	264.82	1/2	596.69	1/2	937.81	1/2	1,279.42	1/2	1,622.11	1/2	1,964.79	1/2	2,307.47	1/2	2,650.15	1/2	2,992.81
3/4	7.51	3/4	271.29	3/4	603.83	3/4	944.89	3/4	1,286.56	3/4	1,629.25	3/4	1,971.93	3/4	2,314.61	3/4	2,657.29	3/4	2,999.95
1	9.29	1	277.76	1	610.97	1	951.97	1	1,293.70	1	1,636.38	1	1,979.07	1	2,321.75	1	2,664.43	1	3,007.09
1/4	12.09	1/4	284.32	1/4	618.11	1/4	959.05	1/4	1,300.84	1/4	1,643.52	1/4	1,986.21	1/4	2,328.89	1/4	2,671.57	1/4	3,014.23
1/2	14.89	1/2	290.87	1/2	625.25	1/2	966.13	1/2	1,307.98	1/2	1,650.66	1/2	1,993.34	1/2	2,336.03	1/2	2,678.71	1/2	3,021.36
3/4	17.68	3/4	297.43	3/4	632.39	3/4	973.21	3/4	1,315.12	3/4	1,657.80	3/4	2,000.48	3/4	2,343.17	3/4	2,685.85	3/4	3,028.50
2	20.48	2	303.98	2	639.53	2	980.28	2	1,322.26	2	1,664.94	2	2,007.62	2	2,350.30	2	2,692.99	2	3,035.64
1/4	24.33	1/4	310.62	1/4	646.66	1/4	987.36	1/4	1,329.40	1/4	1,672.08	1/4	2,014.76	1/4	2,357.44	1/4	2,700.13	1/4	3,042.77
1/2	28.19	1/2	317.26	1/2	653.80	1/2	994.44	1/2	1,336.54	1/2	1,679.22	1/2	2,021.90	1/2	2,364.58	1/2	2,707.26	1/2	3,049.91
3/4	32.04	3/4	323.90	3/4	660.94	3/4	1,001.52	3/4	1,343.68	3/4	1,686.36	3/4	2,029.04	3/4	2,371.72	3/4	2,714.40	3/4	3,057.05
3	35.89	3	330.54	3	668.08	3	1,008.60	3	1,350.82	3	1,693.50	3	2,036.18	3	2,378.86	3	2,721.54	3	3,064.19
1/4	41.14	1/4	337.26	1/4	675.22	1/4	1,015.68	1/4	1,357.96	1/4	1,700.64	1/4	2,043.32	1/4	2,386.00	1/4	2,728.68	1/4	3,071.32
1/2	46.40	1/2	343.98	1/2	682.36	1/2	1,022.77	1/2	1,365.10	1/2	1,707.78	1/2	2,050.46	1/2	2,393.14	1/2	2,735.82	1/2	3,078.46
3/4	51.66	3/4	350.70	3/4	689.50	3/4	1,029.85	3/4	1,372.23	3/4	1,714.92	3/4	2,057.60	3/4	2,400.28	3/4	2,742.96	3/4	3,085.60
4	56.91	4	357.43	4	696.64	4	1,036.93	4	1,379.37	4	1,722.06	4	2,064.74	4	2,407.42	4	2,750.10	4	3,092.73
1/4	62.69	1/4	364.23	1/4	703.78	1/4	1,044.03	1/4	1,386.51	1/4	1,729.19	1/4	2,071.88	1/4	2,414.56	1/4	2,757.23	1/4	3,099.87
1/2	68.47	1/2	371.04	1/2	710.92	1/2	1,051.12	1/2	1,393.65	1/2	1,736.33	1/2	2,079.02	1/2	2,421.70	1/2	2,764.37	1/2	3,107.01
3/4	74.26	3/4	377.84	3/4	718.05	3/4	1,058.22	3/4	1,400.79	3/4	1,743.47	3/4	2,086.15	3/4	2,428.84	3/4	2,771.51	3/4	3,114.14
5	80.04	5	384.65	5	725.19	5	1,065.32	5	1,407.93	5	1,750.61	5	2,093.29	5	2,435.98	5	2,778.65	5	3,121.28
1/4	85.92	1/4	391.54	1/4	732.32	1/4	1,072.44	1/4	1,415.07	1/4	1,757.75	1/4	2,100.43	1/4	2,443.11	1/4	2,785.79	1/4	3,128.42
1/2	91.80	1/2	398.42	1/2	739.44	1/2	1,079.56	1/2	1,422.21	1/2	1,764.89	1/2	2,107.57	1/2	2,450.25	1/2	2,792.93	1/2	3,135.55
3/4	97.68	3/4	405.31	3/4	746.56	3/4	1,086.68	3/4	1,429.35	3/4	1,772.03	3/4	2,114.71	3/4	2,457.39	3/4	2,800.07	3/4	3,142.69
6	103.56	6	412.20	6	753.68	6	1,093.81	6	1,436.49	6	1,779.17	6	2,121.85	6	2,464.53	6	2,807.21	6	3,149.83
1/4	109.53	1/4	419.17	1/4	760.78	1/4	1,100.94	1/4	1,443.63	1/4	1,786.31	1/4	2,128.99	1/4	2,471.67	1/4	2,814.34	1/4	3,156.97
1/2	115.51	1/2	426.14	1/2	767.87	1/2	1,108.08	1/2	1,450.77	1/2	1,793.45	1/2	2,136.13	1/2	2,478.81	1/2	2,821.48	1/2	3,164.10
3/4	121.48	3/4	433.11	3/4	774.97	3/4	1,115.22	3/4	1,457.90	3/4	1,800.59	3/4	2,143.27	3/4	2,485.95	3/4	2,828.62	3/4	3,171.24
7	127.45	7	440.08	7	782.06	7	1,122.36	7	1,465.04	7	1,807.73	7	2,150.41	7	2,493.09	7	2,835.76	7	3,178.38
1/4	133.50	1/4	447.13	1/4	789.15	1/4	1,129.50	1/4	1,472.18	1/4	1,814.86	1/4	2,157.55	1/4	2,500.23	1/4	2,842.90	1/4	3,185.51
1/2	139.56	1/2	454.18	1/2	796.23	1/2	1,136.64	1/2	1,479.32	1/2	1,822.00	1/2	2,164.69	1/2	2,507.37	1/2	2,850.04	1/2	3,192.65
3/4	145.61	3/4	461.23	3/4	803.31	3/4	1,143.78	3/4	1,486.46	3/4	1,829.14	3/4	2,171.82	3/4	2,514.51	3/4	2,857.18	3/4	3,199.79
8	151.66	8	468.28	8	810.40	8	1,150.92	8	1,493.60	8	1,836.28	8	2,178.96	8	2,521.65	8	2,864.32	8	3,206.92
1/4	157.80	1/4	475.40	1/4	817.47	1/4	1,158.06	1/4	1,500.74	1/4	1,843.42	1/4	2,186.10	1/4	2,528.78	1/4	2,871.45	1/4	3,214.06
1/2	163.94	1/2	482.51	1/2	824.55	1/2	1,165.20	1/2	1,507.88	1/2	1,850.56	1/2	2,193.24	1/2	2,535.92	1/2	2,878.59	1/2	3,221.20
3/4	170.08	3/4	489.63	3/4	831.63	3/4	1,172.34	3/4	1,515.02	3/4	1,857.70	3/4	2,200.38	3/4	2,543.06	3/4	2,885.73	3/4	3,228.33
9	176.22	9	496.75	9	838.71	9	1,179.48	9	1,522.16	9	1,864.84	9	2,207.52	9	2,550.20	9	2,892.87	9	3,235.47
1/4	182.44	1/4	503.88	1/4	845.79	1/4	1,186.62	1/4	1,529.30	1/4	1,871.98	1/4	2,214.66	1/4	2,557.34	1/4	2,900.01	1/4	3,242.61
1/2	188.66	1/2	511.02	1/2	852.87	1/2	1,193.75	1/2	1,536.44	1/2	1,879.12	1/2	2,221.80	1/2	2,564.48	1/2	2,907.15	1/2	3,249.74
3/4	194.88	3/4	518.16	3/4	859.95	3/4	1,200.89	3/4	1,543.58	3/4	1,886.26	3/4	2,228.94	3/4	2,571.62	3/4	2,914.29	3/4	3,256.88
10	201.10	10	525.30	10	867.02	10	1,208.03	10	1,550.71	10	1,893.40	10	2,236.08	10	2,578.76	10	2,921.43	10	3,264.02
1/4	207.41	1/4	532.44	1/4	874.10	1/4	1,215.17	1/4	1,557.85	1/4	1,900.54	1/4	2,243.22	1/4	2,585.90	1/4	2,928.56	1/4	3,271.16
1/2	213.71	1/2	539.58	1/2	881.18	1/2	1,222.31	1/2	1,564.99	1/2	1,907.67	1/2	2,250.36	1/2	2,593.04	1/2	2,935.70	1/2	3,278.29
3/4	220.02	3/4	546.72	3/4	888.26	3/4	1,229.45	3/4	1,572.13	3/4	1,914.81	3/4	2,257.50	3/4	2,600.18	3/4	2,942.84	3/4	3,285.43
11	226.32	11	553.86	11	895.34	11	1,236.59	11	1,579.27	11	1,921.95	11	2,264.63	11	2,607.32	11	2,949.98	11	3,292.57
1/4	232.71	1/4	561.00	1/4	902.42	1/4	1,243.73	1/4	1,586.41	1/4	1,929.09	1/4	2,271.77	1/4	2,614.46	1/4	2,957.12	1/4	3,299.70
1/2	239.10	1/2	568.14	1/2	909.50	1/2	1,250.87	1/2	1,593.55	1/2	1,936.23	1/2	2,278.91	1/2	2,621.60	1/2	2,964.26	1/2	3,306.84
3/4	245.49	3/4	575.27	3/4	916.58	3/4	1,258.01	3/4	1,600.69	3/4	1,943.37	3/4	2,286.05	3/4	2,628.74	3/4	2,971.40	3/4	3,313.98

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,321.11	0	3,663.69	0	4,006.36	0	4,348.56	0	4,689.65	0	5,010.63	0		0		0		0	
1/4	3,328.25	1/4	3,670.83	1/4	4,013.49	1/4	4,355.66	1/4	4,696.76	1/4	5,013.82	1/4		1/4		1/4		1/4	
1/2	3,335.39	1/2	3,677.97	1/2	4,020.63	1/2	4,362.77	1/2	4,703.87	1/2	5,017.01	1/2		1/2		1/2		1/2	
3/4	3,342.52	3/4	3,685.11	3/4	4,027.77	3/4	4,369.88	3/4	4,710.97	3/4	5,020.21	3/4		3/4		3/4		3/4	
1	3,349.66	1	3,692.24	1	4,034.91	1	4,376.98	1	4,718.08	1	5,023.40	1		1		1		1	
1/4	3,356.80	1/4	3,699.38	1/4	4,042.05	1/4	4,384.09	1/4	4,725.19	1/4	5,025.41	1/4		1/4		1/4		1/4	
1/2	3,363.94	1/2	3,706.52	1/2	4,049.19	1/2	4,391.19	1/2	4,732.29	1/2	5,027.41	1/2		1/2		1/2		1/2	
3/4	3,371.07	3/4	3,713.66	3/4	4,056.33	3/4	4,398.30	3/4	4,739.40	3/4	5,029.42	3/4		3/4		3/4		3/4	
2	3,378.21	2	3,720.80	2	4,063.47	2	4,405.41	2	4,746.50	2	5,031.42	2		2		2		2	
1/4	3,385.35	1/4	3,727.94	1/4	4,070.61	1/4	4,412.51	1/4	4,753.61	1/4	5,032.35	1/4		1/4		1/4		1/4	
1/2	3,392.48	1/2	3,735.08	1/2	4,077.74	1/2	4,419.62	1/2	4,760.72	1/2	5,033.28	1/2		1/2		1/2		1/2	
3/4	3,399.62	3/4	3,742.22	3/4	4,084.88	3/4	4,426.72	3/4	4,767.82	3/4	5,034.20	3/4		3/4		3/4		3/4	
3	3,406.76	3	3,749.36	3	4,092.02	3	4,433.83	3	4,774.93	3	5,035.13	3		3		3		3	
1/4	3,413.89	1/4	3,756.49	1/4	4,099.16	1/4	4,440.94	1/4	4,782.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,421.03	1/2	3,763.63	1/2	4,106.30	1/2	4,448.04	1/2	4,789.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,428.17	3/4	3,770.77	3/4	4,113.44	3/4	4,455.15	3/4	4,796.25	3/4		3/4		3/4		3/4		3/4	
4	3,435.30	4	3,777.91	4	4,120.58	4	4,462.26	4	4,803.35	4		4		4		4		4	
1/4	3,442.44	1/4	3,785.05	1/4	4,127.72	1/4	4,469.36	1/4	4,810.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,449.58	1/2	3,792.19	1/2	4,134.86	1/2	4,476.47	1/2	4,817.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,456.71	3/4	3,799.33	3/4	4,141.99	3/4	4,483.57	3/4	4,824.60	3/4		3/4		3/4		3/4		3/4	
5	3,463.85	5	3,806.47	5	4,149.13	5	4,490.68	5	4,831.69	5		5		5		5		5	
1/4	3,470.99	1/4	3,813.61	1/4	4,156.27	1/4	4,497.79	1/4	4,838.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,478.13	1/2	3,820.74	1/2	4,163.41	1/2	4,504.89	1/2	4,845.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,485.26	3/4	3,827.88	3/4	4,170.55	3/4	4,512.00	3/4	4,852.87	3/4		3/4		3/4		3/4		3/4	
6	3,492.40	6	3,835.02	6	4,177.69	6	4,519.11	6	4,859.93	6		6		6		6		6	
1/4	3,499.54	1/4	3,842.16	1/4	4,184.83	1/4	4,526.21	1/4	4,866.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,506.67	1/2	3,849.30	1/2	4,191.97	1/2	4,533.32	1/2	4,874.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,513.81	3/4	3,856.44	3/4	4,199.11	3/4	4,540.42	3/4	4,881.11	3/4		3/4		3/4		3/4		3/4	
7	3,520.95	7	3,863.58	7	4,206.25	7	4,547.53	7	4,888.18	7		7		7		7		7	
1/4	3,528.08	1/4	3,870.72	1/4	4,213.38	1/4	4,554.64	1/4	4,895.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,535.22	1/2	3,877.86	1/2	4,220.52	1/2	4,561.74	1/2	4,902.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,542.36	3/4	3,884.99	3/4	4,227.66	3/4	4,568.85	3/4	4,909.34	3/4		3/4		3/4		3/4		3/4	
8	3,549.49	8	3,892.13	8	4,234.80	8	4,575.96	8	4,916.39	8		8		8		8		8	
1/4	3,556.63	1/4	3,899.27	1/4	4,241.92	1/4	4,583.06	1/4	4,923.41	1/4		1/4		1/4		1/4		1/4	
1/2	3,563.77	1/2	3,906.41	1/2	4,249.04	1/2	4,590.17	1/2	4,930.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,570.91	3/4	3,913.55	3/4	4,256.16	3/4	4,597.27	3/4	4,937.45	3/4		3/4		3/4		3/4		3/4	
9	3,578.04	9	3,920.69	9	4,263.28	9	4,604.38	9	4,944.47	9		9		9		9		9	
1/4	3,585.18	1/4	3,927.83	1/4	4,270.39	1/4	4,611.49	1/4	4,951.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.32	1/2	3,934.97	1/2	4,277.49	1/2	4,618.59	1/2	4,957.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,599.45	3/4	3,942.11	3/4	4,284.60	3/4	4,625.70	3/4	4,964.21	3/4		3/4		3/4		3/4		3/4	
10	3,606.59	10	3,949.24	10	4,291.71	10	4,632.80	10	4,970.79	10		10		10		10		10	
1/4	3,613.73	1/4	3,956.38	1/4	4,298.81	1/4	4,639.91	1/4	4,976.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,620.86	1/2	3,963.52	1/2	4,305.92	1/2	4,647.02	1/2	4,981.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,628.00	3/4	3,970.66	3/4	4,313.03	3/4	4,654.12	3/4	4,987.52	3/4		3/4		3/4		3/4		3/4	
11	3,635.13	11	3,977.80	11	4,320.13	11	4,661.23	11	4,993.09	11		11		11		11		11	
1/4	3,642.27	1/4	3,984.94	1/4	4,327.24	1/4	4,668.34	1/4	4,997.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,649.41	1/2	3,992.08	1/2	4,334.34	1/2	4,675.44	1/2	5,001.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.55	3/4	3,999.22	3/4	4,341.45	3/4	4,682.55	3/4	5,006.24	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

1 STBD INNAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	251.75	0	582.21	0	924.61	0	1,267.06	0	1,609.63	0	1,952.20	0	2,294.77	0	2,637.33	0	2,979.88
1/4	3.93	1/4	258.22	1/4	589.35	1/4	931.74	1/4	1,274.19	1/4	1,616.76	1/4	1,959.34	1/4	2,301.91	1/4	2,644.47	1/4	2,987.02
1/2	5.72	1/2	264.69	1/2	596.49	1/2	938.87	1/2	1,281.33	1/2	1,623.90	1/2	1,966.47	1/2	2,309.04	1/2	2,651.61	1/2	2,994.15
3/4	7.50	3/4	271.16	3/4	603.62	3/4	946.00	3/4	1,288.47	3/4	1,631.04	3/4	1,973.61	3/4	2,316.18	3/4	2,658.74	3/4	3,001.29
1	9.29	1	277.63	1	610.76	1	953.12	1	1,295.60	1	1,638.17	1	1,980.75	1	2,323.32	1	2,665.88	1	3,008.43
1/4	12.08	1/4	284.18	1/4	617.90	1/4	960.25	1/4	1,302.74	1/4	1,645.31	1/4	1,987.88	1/4	2,330.45	1/4	2,673.02	1/4	3,015.56
1/2	14.88	1/2	290.74	1/2	625.03	1/2	967.38	1/2	1,309.88	1/2	1,652.45	1/2	1,995.02	1/2	2,337.59	1/2	2,680.15	1/2	3,022.69
3/4	17.67	3/4	297.29	3/4	632.17	3/4	974.51	3/4	1,317.01	3/4	1,659.59	3/4	2,002.16	3/4	2,344.73	3/4	2,687.29	3/4	3,029.83
2	20.47	2	303.84	2	639.31	2	981.64	2	1,324.15	2	1,666.72	2	2,009.29	2	2,351.86	2	2,694.43	2	3,036.96
1/4	24.32	1/4	310.48	1/4	646.44	1/4	988.76	1/4	1,331.29	1/4	1,673.86	1/4	2,016.43	1/4	2,359.00	1/4	2,701.56	1/4	3,044.10
1/2	28.17	1/2	317.11	1/2	653.58	1/2	995.89	1/2	1,338.42	1/2	1,681.00	1/2	2,023.57	1/2	2,366.14	1/2	2,708.70	1/2	3,051.23
3/4	32.02	3/4	323.75	3/4	660.72	3/4	1,003.02	3/4	1,345.56	3/4	1,688.13	3/4	2,030.70	3/4	2,373.28	3/4	2,715.83	3/4	3,058.37
3	35.87	3	330.38	3	667.85	3	1,010.15	3	1,352.70	3	1,695.27	3	2,037.84	3	2,380.41	3	2,722.97	3	3,065.50
1/4	41.12	1/4	337.10	1/4	674.99	1/4	1,017.28	1/4	1,359.84	1/4	1,702.41	1/4	2,044.98	1/4	2,387.55	1/4	2,730.11	1/4	3,072.64
1/2	46.38	1/2	343.82	1/2	682.13	1/2	1,024.41	1/2	1,366.97	1/2	1,709.54	1/2	2,052.11	1/2	2,394.69	1/2	2,737.24	1/2	3,079.77
3/4	51.63	3/4	350.54	3/4	689.26	3/4	1,031.54	3/4	1,374.11	3/4	1,716.68	3/4	2,059.25	3/4	2,401.82	3/4	2,744.38	3/4	3,086.90
4	56.88	4	357.26	4	696.40	4	1,038.68	4	1,381.25	4	1,723.82	4	2,066.39	4	2,408.96	4	2,751.52	4	3,094.04
1/4	62.66	1/4	364.06	1/4	703.54	1/4	1,045.81	1/4	1,388.38	1/4	1,730.95	1/4	2,073.53	1/4	2,416.10	1/4	2,758.65	1/4	3,101.17
1/2	68.44	1/2	370.87	1/2	710.67	1/2	1,052.95	1/2	1,395.52	1/2	1,738.09	1/2	2,080.66	1/2	2,423.23	1/2	2,765.79	1/2	3,108.31
3/4	74.22	3/4	377.67	3/4	717.81	3/4	1,060.09	3/4	1,402.66	3/4	1,745.23	3/4	2,087.80	3/4	2,430.37	3/4	2,772.93	3/4	3,115.44
5	79.99	5	384.47	5	724.95	5	1,067.22	5	1,409.79	5	1,752.37	5	2,094.94	5	2,437.51	5	2,780.06	5	3,122.58
1/4	85.87	1/4	391.36	1/4	732.08	1/4	1,074.36	1/4	1,416.93	1/4	1,759.50	1/4	2,102.07	1/4	2,444.64	1/4	2,787.20	1/4	3,129.71
1/2	91.75	1/2	398.25	1/2	739.22	1/2	1,081.50	1/2	1,424.07	1/2	1,766.64	1/2	2,109.21	1/2	2,451.78	1/2	2,794.34	1/2	3,136.85
3/4	97.63	3/4	405.13	3/4	746.36	3/4	1,088.63	3/4	1,431.20	3/4	1,773.78	3/4	2,116.35	3/4	2,458.92	3/4	2,801.47	3/4	3,143.98
6	103.51	6	412.02	6	753.49	6	1,095.77	6	1,438.34	6	1,780.91	6	2,123.48	6	2,466.06	6	2,808.61	6	3,151.12
1/4	109.48	1/4	418.99	1/4	760.63	1/4	1,102.91	1/4	1,445.48	1/4	1,788.05	1/4	2,130.62	1/4	2,473.19	1/4	2,815.74	1/4	3,158.25
1/2	115.45	1/2	425.96	1/2	767.77	1/2	1,110.04	1/2	1,452.62	1/2	1,795.19	1/2	2,137.76	1/2	2,480.33	1/2	2,822.88	1/2	3,165.38
3/4	121.41	3/4	432.93	3/4	774.90	3/4	1,117.18	3/4	1,459.75	3/4	1,802.32	3/4	2,144.89	3/4	2,487.47	3/4	2,830.02	3/4	3,172.52
7	127.38	7	439.90	7	782.04	7	1,124.32	7	1,466.89	7	1,809.46	7	2,152.03	7	2,494.60	7	2,837.15	7	3,179.65
1/4	133.43	1/4	446.95	1/4	789.17	1/4	1,131.45	1/4	1,474.03	1/4	1,816.60	1/4	2,159.17	1/4	2,501.74	1/4	2,844.29	1/4	3,186.79
1/2	139.48	1/2	454.00	1/2	796.30	1/2	1,138.59	1/2	1,481.16	1/2	1,823.73	1/2	2,166.31	1/2	2,508.88	1/2	2,851.43	1/2	3,193.92
3/4	145.54	3/4	461.06	3/4	803.43	3/4	1,145.73	3/4	1,488.30	3/4	1,830.87	3/4	2,173.44	3/4	2,516.01	3/4	2,858.56	3/4	3,201.06
8	151.59	8	468.11	8	810.57	8	1,152.87	8	1,495.44	8	1,838.01	8	2,180.58	8	2,523.15	8	2,865.70	8	3,208.19
1/4	157.72	1/4	475.23	1/4	817.69	1/4	1,160.00	1/4	1,502.57	1/4	1,845.14	1/4	2,187.72	1/4	2,530.29	1/4	2,872.84	1/4	3,215.33
1/2	163.86	1/2	482.34	1/2	824.82	1/2	1,167.14	1/2	1,509.71	1/2	1,852.28	1/2	2,194.85	1/2	2,537.42	1/2	2,879.97	1/2	3,222.46
3/4	169.99	3/4	489.46	3/4	831.95	3/4	1,174.28	3/4	1,516.85	3/4	1,859.42	3/4	2,201.99	3/4	2,544.56	3/4	2,887.11	3/4	3,229.59
9	176.13	9	496.57	9	839.08	9	1,181.41	9	1,523.98	9	1,866.56	9	2,209.13	9	2,551.70	9	2,894.24	9	3,236.73
1/4	182.35	1/4	503.71	1/4	846.20	1/4	1,188.55	1/4	1,531.12	1/4	1,873.69	1/4	2,216.26	1/4	2,558.83	1/4	2,901.38	1/4	3,243.86
1/2	188.57	1/2	510.85	1/2	853.33	1/2	1,195.69	1/2	1,538.26	1/2	1,880.83	1/2	2,223.40	1/2	2,565.97	1/2	2,908.52	1/2	3,251.00
3/4	194.78	3/4	517.98	3/4	860.46	3/4	1,202.82	3/4	1,545.40	3/4	1,887.97	3/4	2,230.54	3/4	2,573.11	3/4	2,915.65	3/4	3,258.13
10	201.00	10	525.12	10	867.59	10	1,209.96	10	1,552.53	10	1,895.10	10	2,237.67	10	2,580.25	10	2,922.79	10	3,265.27
1/4	207.31	1/4	532.26	1/4	874.72	1/4	1,217.10	1/4	1,559.67	1/4	1,902.24	1/4	2,244.81	1/4	2,587.38	1/4	2,929.93	1/4	3,272.40
1/2	213.61	1/2	539.39	1/2	881.84	1/2	1,224.23	1/2	1,566.81	1/2	1,909.38	1/2	2,251.95	1/2	2,594.52	1/2	2,937.06	1/2	3,279.54
3/4	219.91	3/4	546.53	3/4	888.97	3/4	1,231.37	3/4	1,573.94	3/4	1,916.51	3/4	2,259.09	3/4	2,601.66	3/4	2,944.20	3/4	3,286.67
11	226.21	11	553.67	11	896.10	11	1,238.51	11	1,581.08	11	1,923.65	11	2,266.22	11	2,608.79	11	2,951.34	11	3,293.81
1/4	232.60	1/4	560.80	1/4	903.23	1/4	1,245.65	1/4	1,588.22	1/4	1,930.79	1/4	2,273.36	1/4	2,615.93	1/4	2,958.47	1/4	3,300.94
1/2	238.98	1/2	567.94	1/2	910.36	1/2	1,252.78	1/2	1,595.35	1/2	1,937.92	1/2	2,280.50	1/2	2,623.06	1/2	2,965.61	1/2	3,308.07
3/4	245.37	3/4	575.08	3/4	917.48	3/4	1,259.92	3/4	1,602.49	3/4	1,945.06	3/4	2,287.63	3/4	2,630.20	3/4	2,972.75	3/4	3,315.21

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,322.34	0	3,664.81	0	4,007.36	0	4,349.45	0	4,690.43	0	5,011.29	0		0		0		0	
1/4	3,329.48	1/4	3,671.94	1/4	4,014.50	1/4	4,356.55	1/4	4,697.54	1/4	5,014.49	1/4		1/4		1/4		1/4	
1/2	3,336.61	1/2	3,679.08	1/2	4,021.63	1/2	4,363.66	1/2	4,704.64	1/2	5,017.68	1/2		1/2		1/2		1/2	
3/4	3,343.75	3/4	3,686.22	3/4	4,028.77	3/4	4,370.76	3/4	4,711.74	3/4	5,020.87	3/4		3/4		3/4		3/4	
1	3,350.88	1	3,693.35	1	4,035.91	1	4,377.86	1	4,718.85	1	5,024.07	1		1		1		1	
1/4	3,358.02	1/4	3,700.49	1/4	4,043.04	1/4	4,384.97	1/4	4,725.95	1/4	5,026.07	1/4		1/4		1/4		1/4	
1/2	3,365.15	1/2	3,707.63	1/2	4,050.18	1/2	4,392.07	1/2	4,733.05	1/2	5,028.07	1/2		1/2		1/2		1/2	
3/4	3,372.28	3/4	3,714.76	3/4	4,057.32	3/4	4,399.18	3/4	4,740.16	3/4	5,030.08	3/4		3/4		3/4		3/4	
2	3,379.42	2	3,721.90	2	4,064.45	2	4,406.28	2	4,747.26	2	5,032.08	2		2		2		2	
1/4	3,386.55	1/4	3,729.04	1/4	4,071.59	1/4	4,413.38	1/4	4,754.37	1/4	5,033.01	1/4		1/4		1/4		1/4	
1/2	3,393.69	1/2	3,736.17	1/2	4,078.72	1/2	4,420.49	1/2	4,761.47	1/2	5,033.94	1/2		1/2		1/2		1/2	
3/4	3,400.82	3/4	3,743.31	3/4	4,085.86	3/4	4,427.59	3/4	4,768.57	3/4	5,034.86	3/4		3/4		3/4		3/4	
3	3,407.96	3	3,750.45	3	4,093.00	3	4,434.70	3	4,775.68	3	5,035.79	3		3		3		3	
1/4	3,415.09	1/4	3,757.58	1/4	4,100.13	1/4	4,441.80	1/4	4,782.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,422.23	1/2	3,764.72	1/2	4,107.27	1/2	4,448.90	1/2	4,789.89	1/2		1/2		1/2		1/2		1/2	
3/4	3,429.36	3/4	3,771.86	3/4	4,114.41	3/4	4,456.01	3/4	4,796.99	3/4		3/4		3/4		3/4		3/4	
4	3,436.50	4	3,778.99	4	4,121.54	4	4,463.11	4	4,804.09	4		4		4		4		4	
1/4	3,443.63	1/4	3,786.13	1/4	4,128.68	1/4	4,470.21	1/4	4,811.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,450.76	1/2	3,793.26	1/2	4,135.82	1/2	4,477.32	1/2	4,818.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,457.90	3/4	3,800.40	3/4	4,142.95	3/4	4,484.42	3/4	4,825.34	3/4		3/4		3/4		3/4		3/4	
5	3,465.03	5	3,807.54	5	4,150.09	5	4,491.53	5	4,832.42	5		5		5		5		5	
1/4	3,472.17	1/4	3,814.67	1/4	4,157.23	1/4	4,498.63	1/4	4,839.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,479.30	1/2	3,821.81	1/2	4,164.36	1/2	4,505.73	1/2	4,846.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,486.44	3/4	3,828.95	3/4	4,171.50	3/4	4,512.84	3/4	4,853.60	3/4		3/4		3/4		3/4		3/4	
6	3,493.57	6	3,836.08	6	4,178.64	6	4,519.94	6	4,860.66	6		6		6		6		6	
1/4	3,500.71	1/4	3,843.22	1/4	4,185.77	1/4	4,527.04	1/4	4,867.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,507.84	1/2	3,850.36	1/2	4,192.91	1/2	4,534.15	1/2	4,874.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,514.98	3/4	3,857.49	3/4	4,200.05	3/4	4,541.25	3/4	4,881.83	3/4		3/4		3/4		3/4		3/4	
7	3,522.11	7	3,864.63	7	4,207.18	7	4,548.36	7	4,888.89	7		7		7		7		7	
1/4	3,529.24	1/4	3,871.77	1/4	4,214.32	1/4	4,555.46	1/4	4,895.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,536.38	1/2	3,878.90	1/2	4,221.45	1/2	4,562.56	1/2	4,902.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,543.51	3/4	3,886.04	3/4	4,228.59	3/4	4,569.67	3/4	4,910.04	3/4		3/4		3/4		3/4		3/4	
8	3,550.65	8	3,893.18	8	4,235.73	8	4,576.77	8	4,917.09	8		8		8		8		8	
1/4	3,557.78	1/4	3,900.31	1/4	4,242.85	1/4	4,583.87	1/4	4,924.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.92	1/2	3,907.45	1/2	4,249.97	1/2	4,590.98	1/2	4,931.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.05	3/4	3,914.59	3/4	4,257.08	3/4	4,598.08	3/4	4,938.14	3/4		3/4		3/4		3/4		3/4	
9	3,579.19	9	3,921.72	9	4,264.20	9	4,605.19	9	4,945.16	9		9		9		9		9	
1/4	3,586.32	1/4	3,928.86	1/4	4,271.31	1/4	4,612.29	1/4	4,951.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,593.45	1/2	3,935.99	1/2	4,278.41	1/2	4,619.39	1/2	4,958.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,600.59	3/4	3,943.13	3/4	4,285.52	3/4	4,626.50	3/4	4,964.90	3/4		3/4		3/4		3/4		3/4	
10	3,607.72	10	3,950.27	10	4,292.62	10	4,633.60	10	4,971.48	10		10		10		10		10	
1/4	3,614.86	1/4	3,957.40	1/4	4,299.72	1/4	4,640.71	1/4	4,977.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,621.99	1/2	3,964.54	1/2	4,306.83	1/2	4,647.81	1/2	4,982.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.13	3/4	3,971.68	3/4	4,313.93	3/4	4,654.91	3/4	4,988.19	3/4		3/4		3/4		3/4		3/4	
11	3,636.26	11	3,978.81	11	4,321.03	11	4,662.02	11	4,993.76	11		11		11		11		11	
1/4	3,643.40	1/4	3,985.95	1/4	4,328.14	1/4	4,669.12	1/4	4,998.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,650.53	1/2	3,993.09	1/2	4,335.24	1/2	4,676.22	1/2	5,002.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,657.67	3/4	4,000.22	3/4	4,342.35	3/4	4,683.33	3/4	5,006.91	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

2 PORT INNAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	300.67	0	644.10	0	979.67	0	1,316.48	0	1,659.92	0	2,003.37	0	2,346.81	0	2,690.26	0	3,033.70
1/4	3.94	1/4	307.82	1/4	651.25	1/4	986.52	1/4	1,323.63	1/4	1,667.08	1/4	2,010.52	1/4	2,353.97	1/4	2,697.41	1/4	3,040.85
1/2	5.73	1/2	314.98	1/2	658.41	1/2	993.36	1/2	1,330.79	1/2	1,674.23	1/2	2,017.68	1/2	2,361.12	1/2	2,704.57	1/2	3,048.01
3/4	7.52	3/4	322.13	3/4	665.56	3/4	1,000.21	3/4	1,337.94	3/4	1,681.39	3/4	2,024.83	3/4	2,368.28	3/4	2,711.72	3/4	3,055.16
1	9.31	1	329.29	1	672.72	1	1,007.06	1	1,345.10	1	1,688.54	1	2,031.99	1	2,375.43	1	2,718.88	1	3,062.31
1/4	12.89	1/4	336.44	1/4	679.87	1/4	1,013.91	1/4	1,352.25	1/4	1,695.70	1/4	2,039.14	1/4	2,382.59	1/4	2,726.03	1/4	3,069.46
1/2	16.46	1/2	343.60	1/2	687.03	1/2	1,020.75	1/2	1,359.41	1/2	1,702.85	1/2	2,046.30	1/2	2,389.74	1/2	2,733.19	1/2	3,076.62
3/4	20.04	3/4	350.75	3/4	694.18	3/4	1,027.60	3/4	1,366.56	3/4	1,710.01	3/4	2,053.45	3/4	2,396.90	3/4	2,740.34	3/4	3,083.77
2	23.62	2	357.91	2	701.34	2	1,034.45	2	1,373.72	2	1,717.16	2	2,060.61	2	2,404.05	2	2,747.50	2	3,090.92
1/4	28.98	1/4	365.06	1/4	708.49	1/4	1,041.30	1/4	1,380.87	1/4	1,724.32	1/4	2,067.76	1/4	2,411.21	1/4	2,754.65	1/4	3,098.08
1/2	34.35	1/2	372.22	1/2	715.65	1/2	1,048.14	1/2	1,388.03	1/2	1,731.47	1/2	2,074.92	1/2	2,418.36	1/2	2,761.81	1/2	3,105.23
3/4	39.71	3/4	379.37	3/4	722.80	3/4	1,054.99	3/4	1,395.18	3/4	1,738.63	3/4	2,082.07	3/4	2,425.52	3/4	2,768.96	3/4	3,112.38
3	45.08	3	386.53	3	729.96	3	1,061.84	3	1,402.34	3	1,745.78	3	2,089.23	3	2,432.67	3	2,776.12	3	3,119.54
1/4	51.77	1/4	393.68	1/4	737.11	1/4	1,068.69	1/4	1,409.49	1/4	1,752.94	1/4	2,096.38	1/4	2,439.83	1/4	2,783.27	1/4	3,126.69
1/2	58.46	1/2	400.84	1/2	744.27	1/2	1,075.54	1/2	1,416.65	1/2	1,760.09	1/2	2,103.54	1/2	2,446.98	1/2	2,790.43	1/2	3,133.84
3/4	65.15	3/4	407.99	3/4	751.42	3/4	1,082.39	3/4	1,423.80	3/4	1,767.25	3/4	2,110.69	3/4	2,454.14	3/4	2,797.58	3/4	3,140.99
4	71.84	4	415.15	4	758.58	4	1,089.24	4	1,430.96	4	1,774.40	4	2,117.85	4	2,461.29	4	2,804.74	4	3,148.15
1/4	78.97	1/4	422.30	1/4	765.73	1/4	1,096.11	1/4	1,438.11	1/4	1,781.56	1/4	2,125.00	1/4	2,468.45	1/4	2,811.89	1/4	3,155.30
1/2	86.10	1/2	429.46	1/2	772.89	1/2	1,102.97	1/2	1,445.27	1/2	1,788.71	1/2	2,132.16	1/2	2,475.60	1/2	2,819.05	1/2	3,162.45
3/4	93.23	3/4	436.61	3/4	780.04	3/4	1,109.84	3/4	1,452.43	3/4	1,795.87	3/4	2,139.31	3/4	2,482.76	3/4	2,826.20	3/4	3,169.61
5	100.36	5	443.77	5	787.20	5	1,116.70	5	1,459.58	5	1,803.03	5	2,146.47	5	2,489.91	5	2,833.36	5	3,176.76
1/4	107.51	1/4	450.92	1/4	794.21	1/4	1,123.71	1/4	1,466.74	1/4	1,810.18	1/4	2,153.62	1/4	2,497.07	1/4	2,840.51	1/4	3,183.91
1/2	114.66	1/2	458.08	1/2	801.23	1/2	1,130.73	1/2	1,473.89	1/2	1,817.34	1/2	2,160.78	1/2	2,504.22	1/2	2,847.67	1/2	3,191.07
3/4	121.81	3/4	465.23	3/4	808.24	3/4	1,137.74	3/4	1,481.05	3/4	1,824.49	3/4	2,167.94	3/4	2,511.38	3/4	2,854.82	3/4	3,198.22
6	128.96	6	472.38	6	815.25	6	1,144.76	6	1,488.20	6	1,831.65	6	2,175.09	6	2,518.53	6	2,861.98	6	3,205.37
1/4	136.11	1/4	479.54	1/4	822.12	1/4	1,151.91	1/4	1,495.36	1/4	1,838.80	1/4	2,182.25	1/4	2,525.69	1/4	2,869.13	1/4	3,212.52
1/2	143.26	1/2	486.69	1/2	828.98	1/2	1,159.07	1/2	1,502.51	1/2	1,845.96	1/2	2,189.40	1/2	2,532.85	1/2	2,876.29	1/2	3,219.68
3/4	150.42	3/4	493.85	3/4	835.85	3/4	1,166.22	3/4	1,509.67	3/4	1,853.11	3/4	2,196.56	3/4	2,540.00	3/4	2,883.45	3/4	3,226.83
7	157.57	7	501.00	7	842.71	7	1,173.38	7	1,516.82	7	1,860.27	7	2,203.71	7	2,547.16	7	2,890.60	7	3,233.98
1/4	164.73	1/4	508.16	1/4	849.56	1/4	1,180.53	1/4	1,523.98	1/4	1,867.42	1/4	2,210.87	1/4	2,554.31	1/4	2,897.76	1/4	3,241.14
1/2	171.88	1/2	515.31	1/2	856.41	1/2	1,187.69	1/2	1,531.13	1/2	1,874.58	1/2	2,218.02	1/2	2,561.47	1/2	2,904.91	1/2	3,248.29
3/4	179.04	3/4	522.47	3/4	863.26	3/4	1,194.84	3/4	1,538.29	3/4	1,881.73	3/4	2,225.18	3/4	2,568.62	3/4	2,912.07	3/4	3,255.44
8	186.19	8	529.62	8	870.11	8	1,202.00	8	1,545.44	8	1,888.89	8	2,232.33	8	2,575.78	8	2,919.22	8	3,262.60
1/4	193.35	1/4	536.78	1/4	876.96	1/4	1,209.15	1/4	1,552.60	1/4	1,896.04	1/4	2,239.49	1/4	2,582.93	1/4	2,926.38	1/4	3,269.75
1/2	200.50	1/2	543.93	1/2	883.81	1/2	1,216.31	1/2	1,559.75	1/2	1,903.20	1/2	2,246.64	1/2	2,590.09	1/2	2,933.53	1/2	3,276.90
3/4	207.66	3/4	551.09	3/4	890.66	3/4	1,223.46	3/4	1,566.91	3/4	1,910.35	3/4	2,253.80	3/4	2,597.24	3/4	2,940.69	3/4	3,284.05
9	214.81	9	558.24	9	897.50	9	1,230.62	9	1,574.06	9	1,917.51	9	2,260.95	9	2,604.40	9	2,947.84	9	3,291.21
1/4	221.97	1/4	565.40	1/4	904.35	1/4	1,237.77	1/4	1,581.22	1/4	1,924.66	1/4	2,268.11	1/4	2,611.55	1/4	2,955.00	1/4	3,298.36
1/2	229.12	1/2	572.55	1/2	911.20	1/2	1,244.93	1/2	1,588.37	1/2	1,931.82	1/2	2,275.26	1/2	2,618.71	1/2	2,962.15	1/2	3,305.51
3/4	236.28	3/4	579.71	3/4	918.04	3/4	1,252.08	3/4	1,595.53	3/4	1,938.97	3/4	2,282.42	3/4	2,625.86	3/4	2,969.31	3/4	3,312.67
10	243.43	10	586.86	10	924.89	10	1,259.24	10	1,602.68	10	1,946.13	10	2,289.57	10	2,633.02	10	2,976.46	10	3,319.82
1/4	250.59	1/4	594.02	1/4	931.74	1/4	1,266.39	1/4	1,609.84	1/4	1,953.28	1/4	2,296.73	1/4	2,640.17	1/4	2,983.62	1/4	3,326.97
1/2	257.74	1/2	601.17	1/2	938.59	1/2	1,273.55	1/2	1,616.99	1/2	1,960.44	1/2	2,303.88	1/2	2,647.33	1/2	2,990.77	1/2	3,334.13
3/4	264.90	3/4	608.33	3/4	945.43	3/4	1,280.70	3/4	1,624.15	3/4	1,967.59	3/4	2,311.04	3/4	2,654.48	3/4	2,997.93	3/4	3,341.28
11	272.05	11	615.48	11	952.28	11	1,287.86	11	1,631.30	11	1,974.75	11	2,318.19	11	2,661.64	11	3,005.08	11	3,348.43
1/4	279.21	1/4	622.64	1/4	959.13	1/4	1,295.01	1/4	1,638.46	1/4	1,981.90	1/4	2,325.35	1/4	2,668.79	1/4	3,012.24	1/4	3,355.58
1/2	286.36	1/2	629.79	1/2	965.98	1/2	1,302.17	1/2	1,645.61	1/2	1,989.06	1/2	2,332.50	1/2	2,675.95	1/2	3,019.39	1/2	3,362.74
3/4	293.51	3/4	636.95	3/4	972.82	3/4	1,309.32	3/4	1,652.77	3/4	1,996.21	3/4	2,339.66	3/4	2,683.10	3/4	3,026.55	3/4	3,369.89

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,377.04	0	3,720.39	0	4,063.73	0	4,406.63	0	4,748.41	0	5,070.02	0		0		0		0	
1/4	3,384.20	1/4	3,727.54	1/4	4,070.88	1/4	4,413.75	1/4	4,755.53	1/4	5,073.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,391.35	1/2	3,734.69	1/2	4,078.04	1/2	4,420.87	1/2	4,762.65	1/2	5,076.42	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,398.50	3/4	3,741.85	3/4	4,085.19	3/4	4,427.99	3/4	4,769.77	3/4	5,079.62	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,405.66	1	3,749.00	1	4,092.34	1	4,435.11	1	4,776.89	1	5,082.82	1	1	1	1	1	1	1	1
1/4	3,412.81	1/4	3,756.15	1/4	4,099.50	1/4	4,442.23	1/4	4,784.01	1/4	5,084.82	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,419.96	1/2	3,763.31	1/2	4,106.65	1/2	4,449.35	1/2	4,791.13	1/2	5,086.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,427.11	3/4	3,770.46	3/4	4,113.80	3/4	4,456.48	3/4	4,798.25	3/4	5,088.84	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,434.27	2	3,777.61	2	4,120.96	2	4,463.60	2	4,805.37	2	5,090.85	2	2	2	2	2	2	2	2
1/4	3,441.42	1/4	3,784.76	1/4	4,128.11	1/4	4,470.72	1/4	4,812.50	1/4	5,091.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,448.57	1/2	3,791.92	1/2	4,135.26	1/2	4,477.84	1/2	4,819.62	1/2	5,092.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,455.73	3/4	3,799.07	3/4	4,142.41	3/4	4,484.96	3/4	4,826.74	3/4	5,093.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,462.88	3	3,806.22	3	4,149.57	3	4,492.08	3	4,833.86	3	5,094.56	3	3	3	3	3	3	3	3
1/4	3,470.03	1/4	3,813.38	1/4	4,156.72	1/4	4,499.20	1/4	4,840.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,477.19	1/2	3,820.53	1/2	4,163.87	1/2	4,506.32	1/2	4,848.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,484.34	3/4	3,827.68	3/4	4,171.03	3/4	4,513.44	3/4	4,855.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,491.49	4	3,834.84	4	4,178.18	4	4,520.56	4	4,862.34	4	4	4	4	4	4	4	4	4	4
1/4	3,498.64	1/4	3,841.99	1/4	4,185.33	1/4	4,527.68	1/4	4,869.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,505.80	1/2	3,849.14	1/2	4,192.49	1/2	4,534.80	1/2	4,876.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,512.95	3/4	3,856.29	3/4	4,199.64	3/4	4,541.92	3/4	4,883.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,520.10	5	3,863.45	5	4,206.79	5	4,549.04	5	4,890.73	5	5	5	5	5	5	5	5	5	5
1/4	3,527.26	1/4	3,870.60	1/4	4,213.94	1/4	4,556.16	1/4	4,897.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,534.41	1/2	3,877.75	1/2	4,221.10	1/2	4,563.28	1/2	4,904.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,541.56	3/4	3,884.91	3/4	4,228.25	3/4	4,570.40	3/4	4,911.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,548.72	6	3,892.06	6	4,235.40	6	4,577.52	6	4,919.03	6	6	6	6	6	6	6	6	6	6
1/4	3,555.87	1/4	3,899.21	1/4	4,242.56	1/4	4,584.64	1/4	4,926.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,563.02	1/2	3,906.37	1/2	4,249.71	1/2	4,591.76	1/2	4,933.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,570.17	3/4	3,913.52	3/4	4,256.86	3/4	4,598.88	3/4	4,940.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,577.33	7	3,920.67	7	4,264.02	7	4,606.00	7	4,947.33	7	7	7	7	7	7	7	7	7	7
1/4	3,584.48	1/4	3,927.82	1/4	4,271.17	1/4	4,613.12	1/4	4,954.40	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,591.63	1/2	3,934.98	1/2	4,278.32	1/2	4,620.24	1/2	4,961.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,598.79	3/4	3,942.13	3/4	4,285.47	3/4	4,627.36	3/4	4,968.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,605.94	8	3,949.28	8	4,292.63	8	4,634.49	8	4,975.60	8	8	8	8	8	8	8	8	8	8
1/4	3,613.09	1/4	3,956.44	1/4	4,299.77	1/4	4,641.61	1/4	4,982.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,620.25	1/2	3,963.59	1/2	4,306.91	1/2	4,648.73	1/2	4,989.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,627.40	3/4	3,970.74	3/4	4,314.05	3/4	4,655.85	3/4	4,996.70	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,634.55	9	3,977.90	9	4,321.19	9	4,662.97	9	5,003.73	9	9	9	9	9	9	9	9	9	9
1/4	3,641.70	1/4	3,985.05	1/4	4,328.31	1/4	4,670.09	1/4	5,010.33	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,648.86	1/2	3,992.20	1/2	4,335.43	1/2	4,677.21	1/2	5,016.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,656.01	3/4	3,999.35	3/4	4,342.55	3/4	4,684.33	3/4	5,023.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,663.16	10	4,006.51	10	4,349.67	10	4,691.45	10	5,030.11	10	10	10	10	10	10	10	10	10	10
1/4	3,670.32	1/4	4,013.66	1/4	4,356.79	1/4	4,698.57	1/4	5,035.69	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,677.47	1/2	4,020.81	1/2	4,363.91	1/2	4,705.69	1/2	5,041.28	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,684.62	3/4	4,027.97	3/4	4,371.03	3/4	4,712.81	3/4	5,046.86	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,691.78	11	4,035.12	11	4,378.15	11	4,719.93	11	5,052.45	11	11	11	11	11	11	11	11	11	11
1/4	3,698.93	1/4	4,042.27	1/4	4,385.27	1/4	4,727.05	1/4	5,056.84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,706.08	1/2	4,049.43	1/2	4,392.39	1/2	4,734.17	1/2	5,061.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,713.23	3/4	4,056.58	3/4	4,399.51	3/4	4,741.29	3/4	5,065.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

2 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	301.09	0	645.00	0	988.64	0	1,332.34	0	1,676.27	0	2,020.19	0	2,364.12	0	2,708.04	0	3,051.97
1/4	3.95	1/4	308.25	1/4	652.16	1/4	995.79	1/4	1,339.51	1/4	1,683.43	1/4	2,027.36	1/4	2,371.28	1/4	2,715.21	1/4	3,059.13
1/2	5.74	1/2	315.42	1/2	659.33	1/2	1,002.94	1/2	1,346.67	1/2	1,690.60	1/2	2,034.52	1/2	2,378.45	1/2	2,722.37	1/2	3,066.29
3/4	7.53	3/4	322.58	3/4	666.49	3/4	1,010.09	3/4	1,353.84	3/4	1,697.76	3/4	2,041.69	3/4	2,385.61	3/4	2,729.54	3/4	3,073.45
1	9.32	1	329.75	1	673.66	1	1,017.24	1	1,361.00	1	1,704.93	1	2,048.85	1	2,392.78	1	2,736.70	1	3,080.61
1/4	12.90	1/4	336.91	1/4	680.82	1/4	1,024.39	1/4	1,368.17	1/4	1,712.09	1/4	2,056.02	1/4	2,399.94	1/4	2,743.87	1/4	3,087.77
1/2	16.49	1/2	344.08	1/2	687.99	1/2	1,031.54	1/2	1,375.33	1/2	1,719.26	1/2	2,063.18	1/2	2,407.11	1/2	2,751.03	1/2	3,094.93
3/4	20.07	3/4	351.24	3/4	695.15	3/4	1,038.69	3/4	1,382.50	3/4	1,726.42	3/4	2,070.35	3/4	2,414.27	3/4	2,758.20	3/4	3,102.10
2	23.65	2	358.41	2	702.32	2	1,045.85	2	1,389.66	2	1,733.59	2	2,077.51	2	2,421.44	2	2,765.36	2	3,109.26
1/4	29.02	1/4	365.57	1/4	709.48	1/4	1,053.00	1/4	1,396.83	1/4	1,740.75	1/4	2,084.68	1/4	2,428.60	1/4	2,772.53	1/4	3,116.42
1/2	34.40	1/2	372.74	1/2	716.65	1/2	1,060.15	1/2	1,403.99	1/2	1,747.92	1/2	2,091.84	1/2	2,435.77	1/2	2,779.69	1/2	3,123.59
3/4	39.77	3/4	379.90	3/4	723.81	3/4	1,067.30	3/4	1,411.16	3/4	1,755.08	3/4	2,099.01	3/4	2,442.93	3/4	2,786.86	3/4	3,130.75
3	45.14	3	387.07	3	730.98	3	1,074.45	3	1,418.32	3	1,762.25	3	2,106.17	3	2,450.10	3	2,794.02	3	3,137.91
1/4	51.84	1/4	394.23	1/4	738.14	1/4	1,081.60	1/4	1,425.49	1/4	1,769.41	1/4	2,113.34	1/4	2,457.26	1/4	2,801.19	1/4	3,145.08
1/2	58.54	1/2	401.40	1/2	745.31	1/2	1,088.76	1/2	1,432.65	1/2	1,776.58	1/2	2,120.50	1/2	2,464.43	1/2	2,808.35	1/2	3,152.24
3/4	65.24	3/4	408.56	3/4	752.47	3/4	1,095.91	3/4	1,439.82	3/4	1,783.74	3/4	2,127.67	3/4	2,471.59	3/4	2,815.52	3/4	3,159.40
4	71.94	4	415.73	4	759.64	4	1,103.07	4	1,446.98	4	1,790.91	4	2,134.83	4	2,478.76	4	2,822.68	4	3,166.57
1/4	79.08	1/4	422.89	1/4	766.80	1/4	1,110.23	1/4	1,454.15	1/4	1,798.07	1/4	2,142.00	1/4	2,485.92	1/4	2,829.85	1/4	3,173.73
1/2	86.22	1/2	430.06	1/2	773.97	1/2	1,117.39	1/2	1,461.31	1/2	1,805.24	1/2	2,149.16	1/2	2,493.09	1/2	2,837.01	1/2	3,180.89
3/4	93.36	3/4	437.22	3/4	781.13	3/4	1,124.56	3/4	1,468.48	3/4	1,812.40	3/4	2,156.33	3/4	2,500.25	3/4	2,844.18	3/4	3,188.06
5	100.50	5	444.39	5	788.30	5	1,131.72	5	1,475.64	5	1,819.57	5	2,163.49	5	2,507.42	5	2,851.34	5	3,195.22
1/4	107.66	1/4	451.55	1/4	795.46	1/4	1,138.88	1/4	1,482.81	1/4	1,826.73	1/4	2,170.66	1/4	2,514.58	1/4	2,858.51	1/4	3,202.38
1/2	114.82	1/2	458.72	1/2	802.63	1/2	1,146.05	1/2	1,489.97	1/2	1,833.90	1/2	2,177.82	1/2	2,521.75	1/2	2,865.67	1/2	3,209.54
3/4	121.98	3/4	465.88	3/4	809.79	3/4	1,153.21	3/4	1,497.14	3/4	1,841.06	3/4	2,184.99	3/4	2,528.91	3/4	2,872.84	3/4	3,216.71
6	129.14	6	473.04	6	816.96	6	1,160.38	6	1,504.30	6	1,848.23	6	2,192.15	6	2,536.08	6	2,880.00	6	3,223.87
1/4	136.30	1/4	480.21	1/4	824.12	1/4	1,167.54	1/4	1,511.47	1/4	1,855.39	1/4	2,199.32	1/4	2,543.24	1/4	2,887.17	1/4	3,231.03
1/2	143.47	1/2	487.37	1/2	831.28	1/2	1,174.71	1/2	1,518.63	1/2	1,862.56	1/2	2,206.48	1/2	2,550.41	1/2	2,894.33	1/2	3,238.20
3/4	150.63	3/4	494.54	3/4	838.44	3/4	1,181.87	3/4	1,525.80	3/4	1,869.72	3/4	2,213.65	3/4	2,557.57	3/4	2,901.50	3/4	3,245.36
7	157.79	7	501.70	7	845.61	7	1,189.04	7	1,532.96	7	1,876.89	7	2,220.81	7	2,564.74	7	2,908.66	7	3,252.52
1/4	164.96	1/4	508.87	1/4	852.76	1/4	1,196.20	1/4	1,540.13	1/4	1,884.05	1/4	2,227.98	1/4	2,571.90	1/4	2,915.83	1/4	3,259.69
1/2	172.12	1/2	516.03	1/2	859.91	1/2	1,203.37	1/2	1,547.29	1/2	1,891.22	1/2	2,235.14	1/2	2,579.07	1/2	2,922.99	1/2	3,266.85
3/4	179.29	3/4	523.20	3/4	867.07	3/4	1,210.54	3/4	1,554.46	3/4	1,898.38	3/4	2,242.31	3/4	2,586.23	3/4	2,930.16	3/4	3,274.01
8	186.45	8	530.36	8	874.22	8	1,217.70	8	1,561.63	8	1,905.55	8	2,249.47	8	2,593.40	8	2,937.32	8	3,281.18
1/4	193.62	1/4	537.53	1/4	881.38	1/4	1,224.87	1/4	1,568.79	1/4	1,912.71	1/4	2,256.64	1/4	2,600.56	1/4	2,944.49	1/4	3,288.34
1/2	200.78	1/2	544.69	1/2	888.53	1/2	1,232.03	1/2	1,575.96	1/2	1,919.88	1/2	2,263.80	1/2	2,607.73	1/2	2,951.65	1/2	3,295.50
3/4	207.95	3/4	551.86	3/4	895.68	3/4	1,239.20	3/4	1,583.12	3/4	1,927.05	3/4	2,270.97	3/4	2,614.89	3/4	2,958.82	3/4	3,302.66
9	215.11	9	559.02	9	902.83	9	1,246.36	9	1,590.29	9	1,934.21	9	2,278.14	9	2,622.06	9	2,965.98	9	3,309.83
1/4	222.28	1/4	566.19	1/4	909.98	1/4	1,253.53	1/4	1,597.45	1/4	1,941.38	1/4	2,285.30	1/4	2,629.22	1/4	2,973.15	1/4	3,316.99
1/2	229.44	1/2	573.35	1/2	917.13	1/2	1,260.69	1/2	1,604.62	1/2	1,948.54	1/2	2,292.47	1/2	2,636.39	1/2	2,980.31	1/2	3,324.15
3/4	236.61	3/4	580.52	3/4	924.28	3/4	1,267.86	3/4	1,611.78	3/4	1,955.71	3/4	2,299.63	3/4	2,643.56	3/4	2,987.48	3/4	3,331.32
10	243.77	10	587.68	10	931.43	10	1,275.02	10	1,618.95	10	1,962.87	10	2,306.80	10	2,650.72	10	2,994.65	10	3,338.48
1/4	250.94	1/4	594.85	1/4	938.58	1/4	1,282.19	1/4	1,626.11	1/4	1,970.04	1/4	2,313.96	1/4	2,657.89	1/4	3,001.81	1/4	3,345.64
1/2	258.10	1/2	602.01	1/2	945.73	1/2	1,289.35	1/2	1,633.28	1/2	1,977.20	1/2	2,321.13	1/2	2,665.05	1/2	3,008.98	1/2	3,352.81
3/4	265.27	3/4	609.18	3/4	952.88	3/4	1,296.52	3/4	1,640.44	3/4	1,984.37	3/4	2,328.29	3/4	2,672.22	3/4	3,016.14	3/4	3,359.97
11	272.43	11	616.34	11	960.03	11	1,303.68	11	1,647.61	11	1,991.53	11	2,335.46	11	2,679.38	11	3,023.31	11	3,367.13
1/4	279.60	1/4	623.51	1/4	967.19	1/4	1,310.85	1/4	1,654.77	1/4	1,998.70	1/4	2,342.62	1/4	2,686.55	1/4	3,030.47	1/4	3,374.30
1/2	286.76	1/2	630.67	1/2	974.34	1/2	1,318.01	1/2	1,661.94	1/2	2,005.86	1/2	2,349.79	1/2	2,693.71	1/2	3,037.64	1/2	3,381.46
3/4	293.92	3/4	637.84	3/4	981.49	3/4	1,325.18	3/4	1,669.10	3/4	2,013.03	3/4	2,356.95	3/4	2,700.88	3/4	3,044.80	3/4	3,388.62

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MPX 414"

2 STBD INNAGE TABLE 10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-01 3/4"

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	3,395.79	0	3,739.62	0	4,083.55	0	4,427.01	0	4,769.36	0	5,091.51	0		0		0		0	
1/4	3,402.95	1/4	3,746.79	1/4	4,090.71	1/4	4,434.14	1/4	4,776.49	1/4	5,094.71	1/4		1/4		1/4		1/4	
1/2	3,410.11	1/2	3,753.95	1/2	4,097.88	1/2	4,441.27	1/2	4,783.62	1/2	5,097.92	1/2		1/2		1/2		1/2	
3/4	3,417.27	3/4	3,761.12	3/4	4,105.04	3/4	4,448.40	3/4	4,790.75	3/4	5,101.13	3/4		3/4		3/4		3/4	
1	3,424.44	1	3,768.28	1	4,112.21	1	4,455.54	1	4,797.89	1	5,104.33	1		1		1		1	
1/4	3,431.60	1/4	3,775.45	1/4	4,119.37	1/4	4,462.67	1/4	4,805.02	1/4	5,106.34	1/4		1/4		1/4		1/4	
1/2	3,438.76	1/2	3,782.61	1/2	4,126.54	1/2	4,469.80	1/2	4,812.15	1/2	5,108.36	1/2		1/2		1/2		1/2	
3/4	3,445.93	3/4	3,789.78	3/4	4,133.70	3/4	4,476.93	3/4	4,819.28	3/4	5,110.37	3/4		3/4		3/4		3/4	
2	3,453.09	2	3,796.94	2	4,140.87	2	4,484.07	2	4,826.42	2	5,112.38	2		2		2		2	
1/4	3,460.25	1/4	3,804.11	1/4	4,148.03	1/4	4,491.20	1/4	4,833.55	1/4	5,113.31	1/4		1/4		1/4		1/4	
1/2	3,467.42	1/2	3,811.27	1/2	4,155.20	1/2	4,498.33	1/2	4,840.68	1/2	5,114.24	1/2		1/2		1/2		1/2	
3/4	3,474.58	3/4	3,818.44	3/4	4,162.36	3/4	4,505.46	3/4	4,847.81	3/4	5,115.18	3/4		3/4		3/4		3/4	
3	3,481.74	3	3,825.60	3	4,169.53	3	4,512.59	3	4,854.95	3	5,116.11	3		3		3		3	
1/4	3,488.91	1/4	3,832.77	1/4	4,176.69	1/4	4,519.73	1/4	4,862.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,496.07	1/2	3,839.93	1/2	4,183.86	1/2	4,526.86	1/2	4,869.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,503.23	3/4	3,847.10	3/4	4,191.02	3/4	4,533.99	3/4	4,876.34	3/4		3/4		3/4		3/4		3/4	
4	3,510.39	4	3,854.26	4	4,198.19	4	4,541.12	4	4,883.47	4		4		4		4		4	
1/4	3,517.56	1/4	3,861.43	1/4	4,205.35	1/4	4,548.26	1/4	4,890.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,524.72	1/2	3,868.59	1/2	4,212.52	1/2	4,555.39	1/2	4,897.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,531.88	3/4	3,875.76	3/4	4,219.68	3/4	4,562.52	3/4	4,904.80	3/4		3/4		3/4		3/4		3/4	
5	3,539.05	5	3,882.92	5	4,226.85	5	4,569.65	5	4,911.91	5		5		5		5		5	
1/4	3,546.21	1/4	3,890.09	1/4	4,234.01	1/4	4,576.79	1/4	4,919.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,553.37	1/2	3,897.25	1/2	4,241.18	1/2	4,583.92	1/2	4,926.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,560.54	3/4	3,904.42	3/4	4,248.34	3/4	4,591.05	3/4	4,933.18	3/4		3/4		3/4		3/4		3/4	
6	3,567.70	6	3,911.58	6	4,255.51	6	4,598.18	6	4,940.26	6		6		6		6		6	
1/4	3,574.86	1/4	3,918.75	1/4	4,262.67	1/4	4,605.31	1/4	4,947.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,582.03	1/2	3,925.91	1/2	4,269.84	1/2	4,612.45	1/2	4,954.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.19	3/4	3,933.08	3/4	4,277.00	3/4	4,619.58	3/4	4,961.52	3/4		3/4		3/4		3/4		3/4	
7	3,596.35	7	3,940.24	7	4,284.17	7	4,626.71	7	4,968.61	7		7		7		7		7	
1/4	3,603.51	1/4	3,947.41	1/4	4,291.33	1/4	4,633.84	1/4	4,975.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,610.68	1/2	3,954.57	1/2	4,298.50	1/2	4,640.98	1/2	4,982.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,617.84	3/4	3,961.74	3/4	4,305.66	3/4	4,648.11	3/4	4,989.85	3/4		3/4		3/4		3/4		3/4	
8	3,625.00	8	3,968.90	8	4,312.83	8	4,655.24	8	4,996.93	8		8		8		8		8	
1/4	3,632.17	1/4	3,976.07	1/4	4,319.98	1/4	4,662.37	1/4	5,003.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.33	1/2	3,983.23	1/2	4,327.12	1/2	4,669.51	1/2	5,011.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.49	3/4	3,990.40	3/4	4,334.27	3/4	4,676.64	3/4	5,018.06	3/4		3/4		3/4		3/4		3/4	
9	3,653.66	9	3,997.56	9	4,341.42	9	4,683.77	9	5,025.11	9		9		9		9		9	
1/4	3,660.82	1/4	4,004.73	1/4	4,348.55	1/4	4,690.90	1/4	5,031.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,667.98	1/2	4,011.89	1/2	4,355.68	1/2	4,698.03	1/2	5,038.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.15	3/4	4,019.06	3/4	4,362.82	3/4	4,705.17	3/4	5,044.92	3/4		3/4		3/4		3/4		3/4	
10	3,682.31	10	4,026.23	10	4,369.95	10	4,712.30	10	5,051.53	10		10		10		10		10	
1/4	3,689.47	1/4	4,033.39	1/4	4,377.08	1/4	4,719.43	1/4	5,057.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,696.63	1/2	4,040.56	1/2	4,384.21	1/2	4,726.56	1/2	5,062.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,703.80	3/4	4,047.72	3/4	4,391.35	3/4	4,733.70	3/4	5,068.31	3/4		3/4		3/4		3/4		3/4	
11	3,710.96	11	4,054.89	11	4,398.48	11	4,740.83	11	5,073.91	11		11		11		11		11	
1/4	3,718.13	1/4	4,062.05	1/4	4,405.61	1/4	4,747.96	1/4	5,078.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,725.29	1/2	4,069.22	1/2	4,412.74	1/2	4,755.09	1/2	5,082.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,732.46	3/4	4,076.38	3/4	4,419.87	3/4	4,762.23	3/4	5,087.11	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

3 PORT INNAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.22	0	640.54	0	974.03	0	1,308.73	0	1,649.88	0	1,991.03	0	2,332.18	0	2,673.31	0	3,014.58
1/4	3.93	1/4	306.34	1/4	647.65	1/4	980.83	1/4	1,315.84	1/4	1,656.99	1/4	1,998.14	1/4	2,339.29	1/4	2,680.41	1/4	3,021.69
1/2	5.71	1/2	313.46	1/2	654.76	1/2	987.63	1/2	1,322.94	1/2	1,664.09	1/2	2,005.25	1/2	2,346.40	1/2	2,687.52	1/2	3,028.80
3/4	7.49	3/4	320.58	3/4	661.87	3/4	994.43	3/4	1,330.05	3/4	1,671.20	3/4	2,012.35	3/4	2,353.50	3/4	2,694.62	3/4	3,035.91
1	9.27	1	327.70	1	668.98	1	1,001.23	1	1,337.16	1	1,678.31	1	2,019.46	1	2,360.61	1	2,701.73	1	3,043.02
1/4	12.83	1/4	334.82	1/4	676.09	1/4	1,008.02	1/4	1,344.27	1/4	1,685.42	1/4	2,026.57	1/4	2,367.72	1/4	2,708.84	1/4	3,050.12
1/2	16.39	1/2	341.94	1/2	683.20	1/2	1,014.82	1/2	1,351.37	1/2	1,692.52	1/2	2,033.67	1/2	2,374.82	1/2	2,715.94	1/2	3,057.22
3/4	19.95	3/4	349.06	3/4	690.30	3/4	1,021.62	3/4	1,358.48	3/4	1,699.63	3/4	2,040.78	3/4	2,381.93	3/4	2,723.05	3/4	3,064.33
2	23.51	2	356.18	2	697.41	2	1,028.42	2	1,365.59	2	1,706.74	2	2,047.89	2	2,389.04	2	2,730.16	2	3,071.43
1/4	28.84	1/4	363.29	1/4	704.52	1/4	1,035.22	1/4	1,372.70	1/4	1,713.85	1/4	2,055.00	1/4	2,396.15	1/4	2,737.26	1/4	3,078.53
1/2	34.18	1/2	370.41	1/2	711.63	1/2	1,042.02	1/2	1,379.80	1/2	1,720.95	1/2	2,062.10	1/2	2,403.25	1/2	2,744.37	1/2	3,085.63
3/4	39.52	3/4	377.52	3/4	718.74	3/4	1,048.81	3/4	1,386.91	3/4	1,728.06	3/4	2,069.21	3/4	2,410.36	3/4	2,751.48	3/4	3,092.73
3	44.86	3	384.63	3	725.85	3	1,055.61	3	1,394.02	3	1,735.17	3	2,076.32	3	2,417.47	3	2,758.58	3	3,099.84
1/4	51.52	1/4	391.74	1/4	732.96	1/4	1,062.41	1/4	1,401.12	1/4	1,742.28	1/4	2,083.43	1/4	2,424.58	1/4	2,765.69	1/4	3,106.93
1/2	58.18	1/2	398.85	1/2	740.06	1/2	1,069.22	1/2	1,408.23	1/2	1,749.38	1/2	2,090.53	1/2	2,431.68	1/2	2,772.79	1/2	3,114.02
3/4	64.83	3/4	405.96	3/4	747.17	3/4	1,076.02	3/4	1,415.34	3/4	1,756.49	3/4	2,097.64	3/4	2,438.79	3/4	2,779.90	3/4	3,121.12
4	71.49	4	413.07	4	754.28	4	1,082.82	4	1,422.45	4	1,763.60	4	2,104.75	4	2,445.90	4	2,787.01	4	3,128.21
1/4	78.59	1/4	420.18	1/4	761.39	1/4	1,089.66	1/4	1,429.55	1/4	1,770.70	1/4	2,111.85	1/4	2,453.01	1/4	2,794.11	1/4	3,135.30
1/2	85.68	1/2	427.29	1/2	768.50	1/2	1,096.50	1/2	1,436.66	1/2	1,777.81	1/2	2,118.96	1/2	2,460.11	1/2	2,801.22	1/2	3,142.38
3/4	92.78	3/4	434.39	3/4	775.61	3/4	1,103.35	3/4	1,443.77	3/4	1,784.92	3/4	2,126.07	3/4	2,467.22	3/4	2,808.33	3/4	3,149.47
5	99.88	5	441.50	5	782.72	5	1,110.19	5	1,450.88	5	1,792.03	5	2,133.18	5	2,474.33	5	2,815.43	5	3,156.55
1/4	106.99	1/4	448.61	1/4	789.71	1/4	1,117.18	1/4	1,457.98	1/4	1,799.13	1/4	2,140.28	1/4	2,481.43	1/4	2,822.54	1/4	3,163.64
1/2	114.10	1/2	455.72	1/2	796.70	1/2	1,124.17	1/2	1,465.09	1/2	1,806.24	1/2	2,147.39	1/2	2,488.54	1/2	2,829.65	1/2	3,170.72
3/4	121.22	3/4	462.83	3/4	803.69	3/4	1,131.16	3/4	1,472.20	3/4	1,813.35	3/4	2,154.50	3/4	2,495.65	3/4	2,836.75	3/4	3,177.81
6	128.33	6	469.94	6	810.69	6	1,138.15	6	1,479.31	6	1,820.46	6	2,161.61	6	2,502.75	6	2,843.86	6	3,184.89
1/4	135.45	1/4	477.05	1/4	817.53	1/4	1,145.26	1/4	1,486.41	1/4	1,827.56	1/4	2,168.71	1/4	2,509.86	1/4	2,850.97	1/4	3,191.98
1/2	142.57	1/2	484.16	1/2	824.37	1/2	1,152.37	1/2	1,493.52	1/2	1,834.67	1/2	2,175.82	1/2	2,516.96	1/2	2,858.07	1/2	3,199.06
3/4	149.69	3/4	491.26	3/4	831.21	3/4	1,159.48	3/4	1,500.63	3/4	1,841.78	3/4	2,182.93	3/4	2,524.07	3/4	2,865.18	3/4	3,206.15
7	156.81	7	498.37	7	838.05	7	1,166.58	7	1,507.73	7	1,848.88	7	2,190.04	7	2,531.18	7	2,872.28	7	3,213.23
1/4	163.93	1/4	505.48	1/4	844.86	1/4	1,173.69	1/4	1,514.84	1/4	1,855.99	1/4	2,197.14	1/4	2,538.28	1/4	2,879.39	1/4	3,220.32
1/2	171.05	1/2	512.59	1/2	851.66	1/2	1,180.80	1/2	1,521.95	1/2	1,863.10	1/2	2,204.25	1/2	2,545.39	1/2	2,886.50	1/2	3,227.40
3/4	178.17	3/4	519.70	3/4	858.46	3/4	1,187.91	3/4	1,529.06	3/4	1,870.21	3/4	2,211.36	3/4	2,552.50	3/4	2,893.60	3/4	3,234.49
8	185.29	8	526.81	8	865.26	8	1,195.01	8	1,536.16	8	1,877.31	8	2,218.46	8	2,559.60	8	2,900.71	8	3,241.57
1/4	192.41	1/4	533.92	1/4	872.06	1/4	1,202.12	1/4	1,543.27	1/4	1,884.42	1/4	2,225.57	1/4	2,566.71	1/4	2,907.82	1/4	3,248.66
1/2	199.53	1/2	541.02	1/2	878.86	1/2	1,209.23	1/2	1,550.38	1/2	1,891.53	1/2	2,232.68	1/2	2,573.82	1/2	2,914.94	1/2	3,255.74
3/4	206.65	3/4	548.13	3/4	885.66	3/4	1,216.34	3/4	1,557.49	3/4	1,898.64	3/4	2,239.79	3/4	2,580.92	3/4	2,922.05	3/4	3,262.83
9	213.77	9	555.24	9	892.45	9	1,223.44	9	1,564.59	9	1,905.74	9	2,246.89	9	2,588.03	9	2,929.16	9	3,269.92
1/4	220.89	1/4	562.35	1/4	899.25	1/4	1,230.55	1/4	1,571.70	1/4	1,912.85	1/4	2,254.00	1/4	2,595.13	1/4	2,936.28	1/4	3,277.00
1/2	228.01	1/2	569.46	1/2	906.05	1/2	1,237.66	1/2	1,578.81	1/2	1,919.96	1/2	2,261.11	1/2	2,602.24	1/2	2,943.40	1/2	3,284.09
3/4	235.13	3/4	576.57	3/4	912.85	3/4	1,244.76	3/4	1,585.91	3/4	1,927.06	3/4	2,268.22	3/4	2,609.35	3/4	2,950.52	3/4	3,291.18
10	242.25	10	583.68	10	919.65	10	1,251.87	10	1,593.02	10	1,934.17	10	2,275.32	10	2,616.45	10	2,957.63	10	3,298.26
1/4	249.37	1/4	590.78	1/4	926.45	1/4	1,258.98	1/4	1,600.13	1/4	1,941.28	1/4	2,282.43	1/4	2,623.56	1/4	2,964.75	1/4	3,305.35
1/2	256.49	1/2	597.89	1/2	933.24	1/2	1,266.09	1/2	1,607.24	1/2	1,948.39	1/2	2,289.54	1/2	2,630.67	1/2	2,971.87	1/2	3,312.43
3/4	263.61	3/4	605.00	3/4	940.04	3/4	1,273.19	3/4	1,614.34	3/4	1,955.49	3/4	2,296.64	3/4	2,637.77	3/4	2,978.99	3/4	3,319.52
11	270.73	11	612.11	11	946.84	11	1,280.30	11	1,621.45	11	1,962.60	11	2,303.75	11	2,644.88	11	2,986.11	11	3,326.61
1/4	277.85	1/4	619.22	1/4	953.64	1/4	1,287.41	1/4	1,628.56	1/4	1,969.71	1/4	2,310.86	1/4	2,651.99	1/4	2,993.22	1/4	3,333.70
1/2	284.98	1/2	626.33	1/2	960.44	1/2	1,294.52	1/2	1,635.67	1/2	1,976.82	1/2	2,317.97	1/2	2,659.09	1/2	3,000.34	1/2	3,340.79
3/4	292.10	3/4	633.44	3/4	967.23	3/4	1,301.62	3/4	1,642.77	3/4	1,983.92	3/4	2,325.07	3/4	2,666.20	3/4	3,007.46	3/4	3,347.88

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,349.44	0	3,558.13	0	3,767.59	0	3,976.77	0	4,185.32	0	4,375.60	0		0		0		0	
1/4	3,353.77	1/4	3,562.49	1/4	3,771.95	1/4	3,981.12	1/4	4,189.66	1/4	4,377.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,358.10	1/2	3,566.85	1/2	3,776.31	1/2	3,985.46	1/2	4,194.00	1/2	4,379.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,362.43	3/4	3,571.22	3/4	3,780.68	3/4	3,989.81	3/4	4,198.35	3/4	4,380.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,366.76	1	3,575.58	1	3,785.04	1	3,994.15	1	4,202.69	1	4,382.42	1	1	1	1	1	1	1	1
1/4	3,371.10	1/4	3,579.95	1/4	3,789.40	1/4	3,998.50	1/4	4,207.04	1/4	4,384.12	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,375.44	1/2	3,584.31	1/2	3,793.77	1/2	4,002.84	1/2	4,211.38	1/2	4,385.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,379.78	3/4	3,588.67	3/4	3,798.13	3/4	4,007.19	3/4	4,215.73	3/4	4,387.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,384.12	2	3,593.04	2	3,802.49	2	4,011.53	2	4,220.07	2	4,389.24	2	2	2	2	2	2	2	2
1/4	3,388.46	1/4	3,597.40	1/4	3,806.86	1/4	4,015.88	1/4	4,224.42	1/4	4,390.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,392.81	1/2	3,601.76	1/2	3,811.22	1/2	4,020.22	1/2	4,228.76	1/2	4,391.39	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,397.16	3/4	3,606.13	3/4	3,815.59	3/4	4,024.56	3/4	4,233.11	3/4	4,392.46	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,401.51	3	3,610.49	3	3,819.95	3	4,028.91	3	4,237.45	3	4,393.54	3	3	3	3	3	3	3	3
1/4	3,405.85	1/4	3,614.86	1/4	3,824.31	1/4	4,033.25	1/4	4,241.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,410.20	1/2	3,619.22	1/2	3,828.68	1/2	4,037.60	1/2	4,246.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,414.55	3/4	3,623.58	3/4	3,833.04	3/4	4,041.94	3/4	4,250.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,418.90	4	3,627.95	4	3,837.40	4	4,046.29	4	4,254.83	4	4	4	4	4	4	4	4	4	4
1/4	3,423.25	1/4	3,632.31	1/4	3,841.77	1/4	4,050.63	1/4	4,259.16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,427.59	1/2	3,636.67	1/2	3,846.13	1/2	4,054.98	1/2	4,263.49	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,431.94	3/4	3,641.04	3/4	3,850.50	3/4	4,059.32	3/4	4,267.82	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,436.29	5	3,645.40	5	3,854.86	5	4,063.67	5	4,272.15	5	5	5	5	5	5	5	5	5	5
1/4	3,440.64	1/4	3,649.77	1/4	3,859.22	1/4	4,068.01	1/4	4,276.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,444.99	1/2	3,654.13	1/2	3,863.59	1/2	4,072.36	1/2	4,280.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,449.33	3/4	3,658.49	3/4	3,867.95	3/4	4,076.70	3/4	4,285.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,453.68	6	3,662.86	6	3,872.31	6	4,081.04	6	4,289.42	6	6	6	6	6	6	6	6	6	6
1/4	3,458.03	1/4	3,667.22	1/4	3,876.68	1/4	4,085.39	1/4	4,293.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,462.38	1/2	3,671.58	1/2	3,881.04	1/2	4,089.73	1/2	4,298.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,466.73	3/4	3,675.95	3/4	3,885.41	3/4	4,094.08	3/4	4,302.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,471.07	7	3,680.31	7	3,889.77	7	4,098.42	7	4,306.69	7	7	7	7	7	7	7	7	7	7
1/4	3,475.42	1/4	3,684.67	1/4	3,894.13	1/4	4,102.77	1/4	4,310.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,479.77	1/2	3,689.04	1/2	3,898.50	1/2	4,107.11	1/2	4,315.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,484.12	3/4	3,693.40	3/4	3,902.86	3/4	4,111.46	3/4	4,319.61	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,488.46	8	3,697.77	8	3,907.22	8	4,115.80	8	4,323.92	8	8	8	8	8	8	8	8	8	8
1/4	3,492.81	1/4	3,702.13	1/4	3,911.58	1/4	4,120.15	1/4	4,328.19	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,497.16	1/2	3,706.49	1/2	3,915.93	1/2	4,124.49	1/2	4,332.47	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,501.51	3/4	3,710.86	3/4	3,920.29	3/4	4,128.84	3/4	4,336.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,505.86	9	3,715.22	9	3,924.64	9	4,133.18	9	4,341.02	9	9	9	9	9	9	9	9	9	9
1/4	3,510.20	1/4	3,719.58	1/4	3,928.98	1/4	4,137.52	1/4	4,344.86	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,514.55	1/2	3,723.95	1/2	3,933.33	1/2	4,141.87	1/2	4,348.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,518.90	3/4	3,728.31	3/4	3,937.67	3/4	4,146.21	3/4	4,352.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,523.25	10	3,732.68	10	3,942.02	10	4,150.56	10	4,356.37	10	10	10	10	10	10	10	10	10	10
1/4	3,527.60	1/4	3,737.04	1/4	3,946.36	1/4	4,154.90	1/4	4,359.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,531.96	1/2	3,741.40	1/2	3,950.71	1/2	4,159.25	1/2	4,362.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,536.32	3/4	3,745.77	3/4	3,955.05	3/4	4,163.59	3/4	4,364.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,540.67	11	3,750.13	11	3,959.40	11	4,167.94	11	4,367.71	11	11	11	11	11	11	11	11	11	11
1/4	3,545.04	1/4	3,754.49	1/4	3,963.74	1/4	4,172.28	1/4	4,369.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,549.40	1/2	3,758.86	1/2	3,968.09	1/2	4,176.63	1/2	4,371.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,553.76	3/4	3,763.22	3/4	3,972.43	3/4	4,180.97	3/4	4,373.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

3 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.46	0	641.50	0	983.27	0	1,325.11	0	1,667.16	0	2,009.21	0	2,351.27	0	2,693.17	0	3,034.35
1/4	3.93	1/4	306.58	1/4	648.63	1/4	990.39	1/4	1,332.23	1/4	1,674.29	1/4	2,016.34	1/4	2,358.39	1/4	2,700.28	1/4	3,041.46
1/2	5.71	1/2	313.71	1/2	655.75	1/2	997.50	1/2	1,339.36	1/2	1,681.41	1/2	2,023.47	1/2	2,365.52	1/2	2,707.38	1/2	3,048.57
3/4	7.49	3/4	320.83	3/4	662.88	3/4	1,004.61	3/4	1,346.49	3/4	1,688.54	3/4	2,030.59	3/4	2,372.65	3/4	2,714.49	3/4	3,055.68
1	9.27	1	327.96	1	670.00	1	1,011.72	1	1,353.61	1	1,695.67	1	2,037.72	1	2,379.77	1	2,721.60	1	3,062.78
1/4	12.84	1/4	335.09	1/4	677.13	1/4	1,018.83	1/4	1,360.74	1/4	1,702.79	1/4	2,044.84	1/4	2,386.90	1/4	2,728.71	1/4	3,069.89
1/2	16.40	1/2	342.21	1/2	684.25	1/2	1,025.95	1/2	1,367.87	1/2	1,709.92	1/2	2,051.97	1/2	2,394.02	1/2	2,735.82	1/2	3,077.00
3/4	19.96	3/4	349.34	3/4	691.38	3/4	1,033.06	3/4	1,374.99	3/4	1,717.04	3/4	2,059.10	3/4	2,401.15	3/4	2,742.92	3/4	3,084.11
2	23.52	2	356.46	2	698.51	2	1,040.17	2	1,382.12	2	1,724.17	2	2,066.22	2	2,408.28	2	2,750.03	2	3,091.22
1/4	28.87	1/4	363.59	1/4	705.63	1/4	1,047.28	1/4	1,389.24	1/4	1,731.30	1/4	2,073.35	1/4	2,415.40	1/4	2,757.14	1/4	3,098.32
1/2	34.21	1/2	370.72	1/2	712.76	1/2	1,054.40	1/2	1,396.37	1/2	1,738.42	1/2	2,080.48	1/2	2,422.53	1/2	2,764.25	1/2	3,105.43
3/4	39.56	3/4	377.84	3/4	719.88	3/4	1,061.51	3/4	1,403.50	3/4	1,745.55	3/4	2,087.60	3/4	2,429.65	3/4	2,771.36	3/4	3,112.54
3	44.90	3	384.97	3	727.01	3	1,068.62	3	1,410.62	3	1,752.67	3	2,094.73	3	2,436.78	3	2,778.46	3	3,119.65
1/4	51.56	1/4	392.09	1/4	734.14	1/4	1,075.74	1/4	1,417.75	1/4	1,759.80	1/4	2,101.85	1/4	2,443.91	1/4	2,785.57	1/4	3,126.75
1/2	58.22	1/2	399.22	1/2	741.26	1/2	1,082.85	1/2	1,424.87	1/2	1,766.93	1/2	2,108.98	1/2	2,451.03	1/2	2,792.68	1/2	3,133.85
3/4	64.88	3/4	406.34	3/4	748.39	3/4	1,089.97	3/4	1,432.00	3/4	1,774.05	3/4	2,116.11	3/4	2,458.16	3/4	2,799.79	3/4	3,140.94
4	71.55	4	413.47	4	755.51	4	1,097.08	4	1,439.13	4	1,781.18	4	2,123.23	4	2,465.28	4	2,806.90	4	3,148.04
1/4	78.65	1/4	420.60	1/4	762.64	1/4	1,104.21	1/4	1,446.25	1/4	1,788.31	1/4	2,130.36	1/4	2,472.41	1/4	2,814.00	1/4	3,155.13
1/2	85.75	1/2	427.72	1/2	769.77	1/2	1,111.33	1/2	1,453.38	1/2	1,795.43	1/2	2,137.48	1/2	2,479.54	1/2	2,821.11	1/2	3,162.23
3/4	92.85	3/4	434.85	3/4	776.89	3/4	1,118.45	3/4	1,460.50	3/4	1,802.56	3/4	2,144.61	3/4	2,486.66	3/4	2,828.22	3/4	3,169.32
5	99.96	5	441.97	5	784.02	5	1,125.58	5	1,467.63	5	1,809.68	5	2,151.74	5	2,493.79	5	2,835.33	5	3,176.41
1/4	107.08	1/4	449.10	1/4	791.14	1/4	1,132.70	1/4	1,474.76	1/4	1,816.81	1/4	2,158.86	1/4	2,500.92	1/4	2,842.44	1/4	3,183.50
1/2	114.20	1/2	456.23	1/2	798.27	1/2	1,139.83	1/2	1,481.88	1/2	1,823.94	1/2	2,165.99	1/2	2,508.05	1/2	2,849.54	1/2	3,190.59
3/4	121.32	3/4	463.35	3/4	805.39	3/4	1,146.96	3/4	1,489.01	3/4	1,831.06	3/4	2,173.11	3/4	2,515.18	3/4	2,856.65	3/4	3,197.68
6	128.44	6	470.48	6	812.52	6	1,154.08	6	1,496.14	6	1,838.19	6	2,180.24	6	2,522.31	6	2,863.76	6	3,204.77
1/4	135.56	1/4	477.60	1/4	819.65	1/4	1,161.21	1/4	1,503.26	1/4	1,845.31	1/4	2,187.37	1/4	2,529.44	1/4	2,870.87	1/4	3,211.86
1/2	142.69	1/2	484.73	1/2	826.77	1/2	1,168.33	1/2	1,510.39	1/2	1,852.44	1/2	2,194.49	1/2	2,536.56	1/2	2,877.98	1/2	3,218.95
3/4	149.81	3/4	491.86	3/4	833.89	3/4	1,175.46	3/4	1,517.51	3/4	1,859.57	3/4	2,201.62	3/4	2,543.69	3/4	2,885.08	3/4	3,226.04
7	156.94	7	498.98	7	841.02	7	1,182.59	7	1,524.64	7	1,866.69	7	2,208.75	7	2,550.82	7	2,892.19	7	3,233.13
1/4	164.06	1/4	506.11	1/4	848.13	1/4	1,189.71	1/4	1,531.77	1/4	1,873.82	1/4	2,215.87	1/4	2,557.95	1/4	2,899.30	1/4	3,240.22
1/2	171.19	1/2	513.23	1/2	855.25	1/2	1,196.84	1/2	1,538.89	1/2	1,880.94	1/2	2,223.00	1/2	2,565.07	1/2	2,906.41	1/2	3,247.31
3/4	178.32	3/4	520.36	3/4	862.37	3/4	1,203.97	3/4	1,546.02	3/4	1,888.07	3/4	2,230.12	3/4	2,572.20	3/4	2,913.52	3/4	3,254.40
8	185.44	8	527.48	8	869.48	8	1,211.09	8	1,553.14	8	1,895.20	8	2,237.25	8	2,579.33	8	2,920.62	8	3,261.49
1/4	192.57	1/4	534.61	1/4	876.59	1/4	1,218.22	1/4	1,560.27	1/4	1,902.32	1/4	2,244.38	1/4	2,586.45	1/4	2,927.73	1/4	3,268.59
1/2	199.69	1/2	541.74	1/2	883.71	1/2	1,225.34	1/2	1,567.40	1/2	1,909.45	1/2	2,251.50	1/2	2,593.58	1/2	2,934.84	1/2	3,275.68
3/4	206.82	3/4	548.86	3/4	890.82	3/4	1,232.47	3/4	1,574.52	3/4	1,916.58	3/4	2,258.63	3/4	2,600.71	3/4	2,941.95	3/4	3,282.77
9	213.95	9	555.99	9	897.93	9	1,239.60	9	1,581.65	9	1,923.70	9	2,265.75	9	2,607.84	9	2,949.06	9	3,289.86
1/4	221.07	1/4	563.11	1/4	905.04	1/4	1,246.72	1/4	1,588.77	1/4	1,930.83	1/4	2,272.88	1/4	2,614.95	1/4	2,956.16	1/4	3,296.95
1/2	228.20	1/2	570.24	1/2	912.15	1/2	1,253.85	1/2	1,595.90	1/2	1,937.95	1/2	2,280.01	1/2	2,622.07	1/2	2,963.27	1/2	3,304.04
3/4	235.32	3/4	577.37	3/4	919.27	3/4	1,260.97	3/4	1,603.03	3/4	1,945.08	3/4	2,287.13	3/4	2,629.19	3/4	2,970.38	3/4	3,311.13
10	242.45	10	584.49	10	926.38	10	1,268.10	10	1,610.15	10	1,952.21	10	2,294.26	10	2,636.30	10	2,977.49	10	3,318.22
1/4	249.57	1/4	591.62	1/4	933.49	1/4	1,275.23	1/4	1,617.28	1/4	1,959.33	1/4	2,301.38	1/4	2,643.41	1/4	2,984.60	1/4	3,325.31
1/2	256.70	1/2	598.74	1/2	940.60	1/2	1,282.35	1/2	1,624.41	1/2	1,966.46	1/2	2,308.51	1/2	2,650.52	1/2	2,991.70	1/2	3,332.40
3/4	263.83	3/4	605.87	3/4	947.71	3/4	1,289.48	3/4	1,631.53	3/4	1,973.58	3/4	2,315.64	3/4	2,657.63	3/4	2,998.81	3/4	3,339.49
11	270.95	11	613.00	11	954.83	11	1,296.60	11	1,638.66	11	1,980.71	11	2,322.76	11	2,664.74	11	3,005.92	11	3,346.58
1/4	278.08	1/4	620.12	1/4	961.94	1/4	1,303.73	1/4	1,645.78	1/4	1,987.84	1/4	2,329.89	1/4	2,671.84	1/4	3,013.03	1/4	3,353.67
1/2	285.20	1/2	627.25	1/2	969.05	1/2	1,310.86	1/2	1,652.91	1/2	1,994.96	1/2	2,337.01	1/2	2,678.95	1/2	3,020.14	1/2	3,358.01
3/4	292.33	3/4	634.37	3/4	976.16	3/4	1,317.98	3/4	1,660.04	3/4	2,002.09	3/4	2,344.14	3/4	2,686.06	3/4	3,027.24	3/4	3,363.72

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "MPX 414"

3 STBD

INNAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,369.43	0	3,579.00	0	3,788.78	0	3,998.29	0	4,207.15	0	4,397.74	0		0		0		0	
1/4	3,373.77	1/4	3,583.37	1/4	3,793.15	1/4	4,002.64	1/4	4,211.50	1/4	4,399.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,378.10	1/2	3,587.74	1/2	3,797.52	1/2	4,006.99	1/2	4,215.85	1/2	4,401.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,382.44	3/4	3,592.11	3/4	3,801.89	3/4	4,011.34	3/4	4,220.20	3/4	4,402.86	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,386.77	1	3,596.48	1	3,806.26	1	4,015.69	1	4,224.56	1	4,404.57	1	1	1	1	1	1	1	1
1/4	3,391.13	1/4	3,600.85	1/4	3,810.63	1/4	4,020.04	1/4	4,228.91	1/4	4,406.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,395.48	1/2	3,605.22	1/2	3,815.00	1/2	4,024.40	1/2	4,233.26	1/2	4,407.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,399.83	3/4	3,609.59	3/4	3,819.37	3/4	4,028.75	3/4	4,237.61	3/4	4,409.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,404.18	2	3,613.96	2	3,823.74	2	4,033.10	2	4,241.96	2	4,411.39	2	2	2	2	2	2	2	2
1/4	3,408.55	1/4	3,618.33	1/4	3,828.11	1/4	4,037.45	1/4	4,246.31	1/4	4,412.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,412.92	1/2	3,622.70	1/2	3,832.48	1/2	4,041.80	1/2	4,250.66	1/2	4,413.55	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,417.29	3/4	3,627.07	3/4	3,836.85	3/4	4,046.15	3/4	4,255.01	3/4	4,414.62	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,421.66	3	3,631.44	3	3,841.22	3	4,050.50	3	4,259.37	3	4,415.70	3	3	3	3	3	3	3	3
1/4	3,426.04	1/4	3,635.81	1/4	3,845.59	1/4	4,054.85	1/4	4,263.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,430.41	1/2	3,640.18	1/2	3,849.96	1/2	4,059.21	1/2	4,268.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,434.78	3/4	3,644.56	3/4	3,854.33	3/4	4,063.56	3/4	4,272.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,439.15	4	3,648.93	4	3,858.70	4	4,067.91	4	4,276.77	4		4	4	4	4	4	4	4	4
1/4	3,443.52	1/4	3,653.30	1/4	3,863.08	1/4	4,072.26	1/4	4,281.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,447.89	1/2	3,657.67	1/2	3,867.45	1/2	4,076.61	1/2	4,285.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,452.26	3/4	3,662.04	3/4	3,871.82	3/4	4,080.96	3/4	4,289.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,456.63	5	3,666.41	5	3,876.19	5	4,085.31	5	4,294.12	5		5	5	5	5	5	5	5	5
1/4	3,461.00	1/4	3,670.78	1/4	3,880.56	1/4	4,089.67	1/4	4,298.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,465.37	1/2	3,675.15	1/2	3,884.93	1/2	4,094.02	1/2	4,302.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,469.74	3/4	3,679.52	3/4	3,889.30	3/4	4,098.37	3/4	4,307.10	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,474.11	6	3,683.89	6	3,893.67	6	4,102.72	6	4,311.42	6		6	6	6	6	6	6	6	6
1/4	3,478.48	1/4	3,688.26	1/4	3,898.04	1/4	4,107.07	1/4	4,315.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,482.85	1/2	3,692.63	1/2	3,902.41	1/2	4,111.42	1/2	4,320.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,487.22	3/4	3,697.00	3/4	3,906.78	3/4	4,115.77	3/4	4,324.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,491.59	7	3,701.37	7	3,911.15	7	4,120.12	7	4,328.71	7		7	7	7	7	7	7	7	7
1/4	3,495.96	1/4	3,705.74	1/4	3,915.52	1/4	4,124.48	1/4	4,333.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,500.33	1/2	3,710.11	1/2	3,919.89	1/2	4,128.83	1/2	4,337.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,504.70	3/4	3,714.48	3/4	3,924.26	3/4	4,133.18	3/4	4,341.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,509.07	8	3,718.85	8	3,928.63	8	4,137.53	8	4,345.97	8		8	8	8	8	8	8	8	8
1/4	3,513.44	1/4	3,723.22	1/4	3,932.99	1/4	4,141.88	1/4	4,350.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,517.81	1/2	3,727.59	1/2	3,937.35	1/2	4,146.23	1/2	4,354.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,522.18	3/4	3,731.96	3/4	3,941.71	3/4	4,150.58	3/4	4,358.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,526.55	9	3,736.33	9	3,946.07	9	4,154.93	9	4,363.10	9		9	9	9	9	9	9	9	9
1/4	3,530.92	1/4	3,740.70	1/4	3,950.42	1/4	4,159.29	1/4	4,366.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,535.30	1/2	3,745.07	1/2	3,954.77	1/2	4,163.64	1/2	4,370.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,539.67	3/4	3,749.44	3/4	3,959.13	3/4	4,167.99	3/4	4,374.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,544.04	10	3,753.82	10	3,963.48	10	4,172.34	10	4,378.47	10		10	10	10	10	10	10	10	10
1/4	3,548.41	1/4	3,758.19	1/4	3,967.83	1/4	4,176.69	1/4	4,381.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,552.78	1/2	3,762.56	1/2	3,972.18	1/2	4,181.04	1/2	4,384.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,557.15	3/4	3,766.93	3/4	3,976.53	3/4	4,185.39	3/4	4,386.99	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,561.52	11	3,771.30	11	3,980.88	11	4,189.75	11	4,389.83	11		11	11	11	11	11	11	11	11
1/4	3,565.89	1/4	3,775.67	1/4	3,985.23	1/4	4,194.10	1/4	4,391.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,570.26	1/2	3,780.04	1/2	3,989.59	1/2	4,198.45	1/2	4,393.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,574.63	3/4	3,784.41	3/4	3,993.94	3/4	4,202.80	3/4	4,395.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

ULLAGE (10" HATCH)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-03"

February 3, 2021

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MPX 414"

1 PORT ULLAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,032.35	0	4,753.61	0	4,412.51	0	4,070.61	0	3,727.94	0	3,385.35	0	3,042.77
1/4		1/4		1/4		1/4	5,031.42	1/4	4,746.50	1/4	4,405.41	1/4	4,063.47	1/4	3,720.80	1/4	3,378.21	1/4	3,035.64
1/2		1/2		1/2		1/2	5,029.41	1/2	4,739.40	1/2	4,398.30	1/2	4,056.33	1/2	3,713.66	1/2	3,371.07	1/2	3,028.50
3/4		3/4		3/4		3/4	5,027.41	3/4	4,732.29	3/4	4,391.19	3/4	4,049.19	3/4	3,706.52	3/4	3,363.93	3/4	3,021.36
1		1		1		1	5,025.41	1	4,725.18	1	4,384.09	1	4,042.05	1	3,699.38	1	3,356.80	1	3,014.23
1/4		1/4		1/4		1/4	5,023.40	1/4	4,718.08	1/4	4,376.98	1/4	4,034.91	1/4	3,692.24	1/4	3,349.66	1/4	3,007.09
1/2		1/2		1/2		1/2	5,020.21	1/2	4,710.97	1/2	4,369.87	1/2	4,027.77	1/2	3,685.10	1/2	3,342.52	1/2	2,999.95
3/4		3/4		3/4		3/4	5,017.01	3/4	4,703.87	3/4	4,362.77	3/4	4,020.63	3/4	3,677.97	3/4	3,335.39	3/4	2,992.81
2		2		2		2	5,013.82	2	4,696.76	2	4,355.66	2	4,013.49	2	3,670.83	2	3,328.25	2	2,985.67
1/4		1/4		1/4		1/4	5,010.63	1/4	4,689.65	1/4	4,348.56	1/4	4,006.36	1/4	3,663.69	1/4	3,321.11	1/4	2,978.53
1/2		1/2		1/2		1/2	5,006.24	1/2	4,682.55	1/2	4,341.45	1/2	3,999.22	1/2	3,656.55	1/2	3,313.98	1/2	2,971.40
3/4		3/4		3/4		3/4	5,001.86	3/4	4,675.44	3/4	4,334.34	3/4	3,992.08	3/4	3,649.41	3/4	3,306.84	3/4	2,964.26
3		3		3		3	4,997.47	3	4,668.34	3	4,327.24	3	3,984.94	3	3,642.27	3	3,299.70	3	2,957.12
1/4		1/4		1/4		1/4	4,993.09	1/4	4,661.23	1/4	4,320.13	1/4	3,977.80	1/4	3,635.13	1/4	3,292.57	1/4	2,949.98
1/2		1/2		1/2		1/2	4,987.51	1/2	4,654.12	1/2	4,313.02	1/2	3,970.66	1/2	3,628.00	1/2	3,285.43	1/2	2,942.84
3/4		3/4		3/4		3/4	4,981.94	3/4	4,647.02	3/4	4,305.92	3/4	3,963.52	3/4	3,620.86	3/4	3,278.29	3/4	2,935.70
4		4		4		4	4,976.37	4	4,639.91	4	4,298.81	4	3,956.38	4	3,613.73	4	3,271.15	4	2,928.56
1/4		1/4		1/4		1/4	4,970.79	1/4	4,632.80	1/4	4,291.71	1/4	3,949.24	1/4	3,606.59	1/4	3,264.02	1/4	2,921.42
1/2		1/2		1/2		1/2	4,964.21	1/2	4,625.70	1/2	4,284.60	1/2	3,942.11	1/2	3,599.45	1/2	3,256.88	1/2	2,914.29
3/4		3/4		3/4		3/4	4,957.63	3/4	4,618.59	3/4	4,277.49	3/4	3,934.97	3/4	3,592.32	3/4	3,249.74	3/4	2,907.15
5		5		5		5	4,951.05	5	4,611.49	5	4,270.39	5	3,927.83	5	3,585.18	5	3,242.61	5	2,900.01
1/4		1/4		1/4		1/4	4,944.47	1/4	4,604.38	1/4	4,263.28	1/4	3,920.69	1/4	3,578.04	1/4	3,235.47	1/4	2,892.87
1/2		1/2		1/2		1/2	4,937.45	1/2	4,597.27	1/2	4,256.16	1/2	3,913.55	1/2	3,570.90	1/2	3,228.33	1/2	2,885.73
3/4		3/4		3/4		3/4	4,930.43	3/4	4,590.17	3/4	4,249.04	3/4	3,906.41	3/4	3,563.77	3/4	3,221.20	3/4	2,878.59
6		6		6		6	4,923.41	6	4,583.06	6	4,241.92	6	3,899.27	6	3,556.63	6	3,214.06	6	2,871.45
1/4		1/4		1/4		1/4	4,916.39	1/4	4,575.95	1/4	4,234.80	1/4	3,892.13	1/4	3,549.49	1/4	3,206.92	1/4	2,864.31
1/2		1/2		1/2		1/2	4,909.34	1/2	4,568.85	1/2	4,227.66	1/2	3,884.99	1/2	3,542.36	1/2	3,199.79	1/2	2,857.18
3/4		3/4		3/4		3/4	4,902.28	3/4	4,561.74	3/4	4,220.52	3/4	3,877.86	3/4	3,535.22	3/4	3,192.65	3/4	2,850.04
7		7		7		7	4,895.23	7	4,554.64	7	4,213.38	7	3,870.72	7	3,528.08	7	3,185.51	7	2,842.90
1/4		1/4		1/4		1/4	4,888.18	1/4	4,547.53	1/4	4,206.24	1/4	3,863.58	1/4	3,520.95	1/4	3,178.38	1/4	2,835.76
1/2		1/2		1/2		1/2	4,881.11	1/2	4,540.42	1/2	4,199.11	1/2	3,856.44	1/2	3,513.81	1/2	3,171.24	1/2	2,828.62
3/4		3/4		3/4		3/4	4,874.05	3/4	4,533.32	3/4	4,191.97	3/4	3,849.30	3/4	3,506.67	3/4	3,164.10	3/4	2,821.48
8		8		8		8	4,866.99	8	4,526.21	8	4,184.83	8	3,842.16	8	3,499.54	8	3,156.96	8	2,814.34
1/4		1/4		1/4		1/4	4,859.93	1/4	4,519.10	1/4	4,177.69	1/4	3,835.02	1/4	3,492.40	1/4	3,149.83	1/4	2,807.21
1/2		1/2		1/2		1/2	4,852.87	1/2	4,512.00	1/2	4,170.55	1/2	3,827.88	1/2	3,485.26	1/2	3,142.69	1/2	2,800.07
3/4		3/4		3/4		3/4	4,845.81	3/4	4,504.89	3/4	4,163.41	3/4	3,820.74	3/4	3,478.13	3/4	3,135.55	3/4	2,792.93
9		9		9		9	4,838.75	9	4,497.79	9	4,156.27	9	3,813.60	9	3,470.99	9	3,128.42	9	2,785.79
1/4		1/4		1/4		1/4	4,831.69	1/4	4,490.68	1/4	4,149.13	1/4	3,806.47	1/4	3,463.85	1/4	3,121.28	1/4	2,778.65
1/2		1/2		1/2		1/2	4,824.60	1/2	4,483.57	1/2	4,141.99	1/2	3,799.33	1/2	3,456.71	1/2	3,114.14	1/2	2,771.51
3/4		3/4		3/4		3/4	4,817.52	3/4	4,476.47	3/4	4,134.86	3/4	3,792.19	3/4	3,449.58	3/4	3,107.01	3/4	2,764.37
10		10		10		10	4,810.44	10	4,469.36	10	4,127.72	10	3,785.05	10	3,442.44	10	3,099.87	10	2,757.23
1/4		1/4		1/4		1/4	4,803.35	1/4	4,462.26	1/4	4,120.58	1/4	3,777.91	1/4	3,435.30	1/4	3,092.73	1/4	2,750.10
1/2		1/2		1/2		1/2	4,796.25	1/2	4,455.15	1/2	4,113.44	1/2	3,770.77	1/2	3,428.17	1/2	3,085.60	1/2	2,742.96
3/4		3/4		3/4		3/4	4,789.14	3/4	4,448.04	3/4	4,106.30	3/4	3,763.63	3/4	3,421.03	3/4	3,078.46	3/4	2,735.82
11		11		11		11	4,782.03	11	4,440.94	11	4,099.16	11	3,756.49	11	3,413.89	11	3,071.32	11	2,728.68
1/4		1/4		1/4	5,035.13	1/4	4,774.93	1/4	4,433.83	1/4	4,092.02	1/4	3,749.35	1/4	3,406.76	1/4	3,064.18	1/4	2,721.54
1/2		1/2		1/2	5,034.20	1/2	4,767.82	1/2	4,426.72	1/2	4,084.88	1/2	3,742.22	1/2	3,399.62	1/2	3,057.05	1/2	2,714.40
3/4		3/4		3/4	5,033.27	3/4	4,760.72	3/4	4,419.62	3/4	4,077.74	3/4	3,735.08	3/4	3,392.48	3/4	3,049.91	3/4	2,707.26

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

1 PORT ULLAGE TABLE 10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 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	2,700.12	0	2,357.44	0	2,014.76	0	1,672.08	0	1,329.40	0	987.36	0	646.66	0	310.62	0	24.33	0	
1/4	2,692.99	1/4	2,350.30	1/4	2,007.62	1/4	1,664.94	1/4	1,322.26	1/4	980.28	1/4	639.52	1/4	303.98	1/4	20.48	1/4	
1/2	2,685.85	1/2	2,343.16	1/2	2,000.48	1/2	1,657.80	1/2	1,315.12	1/2	973.21	1/2	632.39	1/2	297.43	1/2	17.68	1/2	
3/4	2,678.71	3/4	2,336.03	3/4	1,993.34	3/4	1,650.66	3/4	1,307.98	3/4	966.13	3/4	625.25	3/4	290.87	3/4	14.88	3/4	
1	2,671.57	1	2,328.89	1	1,986.20	1	1,643.52	1	1,300.84	1	959.05	1	618.11	1	284.32	1	12.09	1	
1/4	2,664.43	1/4	2,321.75	1/4	1,979.07	1/4	1,636.38	1/4	1,293.70	1/4	951.97	1/4	610.97	1/4	277.76	1/4	9.29	1/4	
1/2	2,657.29	1/2	2,314.61	1/2	1,971.93	1/2	1,629.24	1/2	1,286.56	1/2	944.89	1/2	603.83	1/2	271.29	1/2	7.50	1/2	
3/4	2,650.15	3/4	2,307.47	3/4	1,964.79	3/4	1,622.11	3/4	1,279.42	3/4	937.81	3/4	596.69	3/4	264.82	3/4	5.72	3/4	
2	2,643.02	2	2,300.33	2	1,957.65	2	1,614.97	2	1,272.28	2	930.73	2	589.55	2	258.35	2	3.94	2	
1/4	2,635.88	1/4	2,293.19	1/4	1,950.51	1/4	1,607.83	1/4	1,265.15	1/4	923.65	1/4	582.41	1/4	251.87	1/4	2.15	1/4	
1/2	2,628.74	1/2	2,286.05	1/2	1,943.37	1/2	1,600.69	1/2	1,258.01	1/2	916.57	1/2	575.27	1/2	245.49	1/2		1/2	
3/4	2,621.60	3/4	2,278.91	3/4	1,936.23	3/4	1,593.55	3/4	1,250.87	3/4	909.50	3/4	568.13	3/4	239.10	3/4		3/4	
3	2,614.46	3	2,271.77	3	1,929.09	3	1,586.41	3	1,243.73	3	902.42	3	561.00	3	232.71	3		3	
1/4	2,607.32	1/4	2,264.63	1/4	1,921.95	1/4	1,579.27	1/4	1,236.59	1/4	895.34	1/4	553.86	1/4	226.32	1/4		1/4	
1/2	2,600.18	1/2	2,257.49	1/2	1,914.81	1/2	1,572.13	1/2	1,229.45	1/2	888.26	1/2	546.72	1/2	220.02	1/2		1/2	
3/4	2,593.04	3/4	2,250.36	3/4	1,907.67	3/4	1,564.99	3/4	1,222.31	3/4	881.18	3/4	539.58	3/4	213.71	3/4		3/4	
4	2,585.90	4	2,243.22	4	1,900.53	4	1,557.85	4	1,215.17	4	874.10	4	532.44	4	207.41	4		4	
1/4	2,578.76	1/4	2,236.08	1/4	1,893.40	1/4	1,550.71	1/4	1,208.03	1/4	867.02	1/4	525.30	1/4	201.10	1/4		1/4	
1/2	2,571.62	1/2	2,228.94	1/2	1,886.26	1/2	1,543.57	1/2	1,200.89	1/2	859.94	1/2	518.16	1/2	194.88	1/2		1/2	
3/4	2,564.48	3/4	2,221.80	3/4	1,879.12	3/4	1,536.44	3/4	1,193.75	3/4	852.87	3/4	511.02	3/4	188.66	3/4		3/4	
5	2,557.34	5	2,214.66	5	1,871.98	5	1,529.30	5	1,186.61	5	845.79	5	503.88	5	182.44	5		5	
1/4	2,550.20	1/4	2,207.52	1/4	1,864.84	1/4	1,522.16	1/4	1,179.48	1/4	838.71	1/4	496.74	1/4	176.22	1/4		1/4	
1/2	2,543.06	1/2	2,200.38	1/2	1,857.70	1/2	1,515.02	1/2	1,172.34	1/2	831.63	1/2	489.63	1/2	170.08	1/2		1/2	
3/4	2,535.92	3/4	2,193.24	3/4	1,850.56	3/4	1,507.88	3/4	1,165.20	3/4	824.55	3/4	482.51	3/4	163.94	3/4		3/4	
6	2,528.78	6	2,186.10	6	1,843.42	6	1,500.74	6	1,158.06	6	817.47	6	475.40	6	157.80	6		6	
1/4	2,521.64	1/4	2,178.96	1/4	1,836.28	1/4	1,493.60	1/4	1,150.92	1/4	810.39	1/4	468.28	1/4	151.66	1/4		1/4	
1/2	2,514.51	1/2	2,171.82	1/2	1,829.14	1/2	1,486.46	1/2	1,143.78	1/2	803.31	1/2	461.23	1/2	145.61	1/2		1/2	
3/4	2,507.37	3/4	2,164.68	3/4	1,822.00	3/4	1,479.32	3/4	1,136.64	3/4	796.23	3/4	454.18	3/4	139.55	3/4		3/4	
7	2,500.23	7	2,157.55	7	1,814.86	7	1,472.18	7	1,129.50	7	789.15	7	447.13	7	133.50	7		7	
1/4	2,493.09	1/4	2,150.41	1/4	1,807.72	1/4	1,465.04	1/4	1,122.36	1/4	782.06	1/4	440.08	1/4	127.45	1/4		1/4	
1/2	2,485.95	1/2	2,143.27	1/2	1,800.59	1/2	1,457.90	1/2	1,115.22	1/2	774.97	1/2	433.11	1/2	121.48	1/2		1/2	
3/4	2,478.81	3/4	2,136.13	3/4	1,793.45	3/4	1,450.76	3/4	1,108.08	3/4	767.87	3/4	426.14	3/4	115.50	3/4		3/4	
8	2,471.67	8	2,128.99	8	1,786.31	8	1,443.63	8	1,100.94	8	760.78	8	419.17	8	109.53	8		8	
1/4	2,464.53	1/4	2,121.85	1/4	1,779.17	1/4	1,436.49	1/4	1,093.80	1/4	753.68	1/4	412.20	1/4	103.56	1/4		1/4	
1/2	2,457.39	1/2	2,114.71	1/2	1,772.03	1/2	1,429.35	1/2	1,086.68	1/2	746.56	1/2	405.31	1/2	97.68	1/2		1/2	
3/4	2,450.25	3/4	2,107.57	3/4	1,764.89	3/4	1,422.21	3/4	1,079.56	3/4	739.44	3/4	398.42	3/4	91.80	3/4		3/4	
9	2,443.11	9	2,100.43	9	1,757.75	9	1,415.07	9	1,072.44	9	732.31	9	391.54	9	85.92	9		9	
1/4	2,435.97	1/4	2,093.29	1/4	1,750.61	1/4	1,407.93	1/4	1,065.32	1/4	725.19	1/4	384.65	1/4	80.04	1/4		1/4	
1/2	2,428.84	1/2	2,086.15	1/2	1,743.47	1/2	1,400.79	1/2	1,058.22	1/2	718.05	1/2	377.84	1/2	74.25	1/2		1/2	
3/4	2,421.70	3/4	2,079.01	3/4	1,736.33	3/4	1,393.65	3/4	1,051.12	3/4	710.91	3/4	371.04	3/4	68.47	3/4		3/4	
10	2,414.56	10	2,071.88	10	1,729.19	10	1,386.51	10	1,044.03	10	703.78	10	364.23	10	62.69	10		10	
1/4	2,407.42	1/4	2,064.74	1/4	1,722.05	1/4	1,379.37	1/4	1,036.93	1/4	696.64	1/4	357.42	1/4	56.91	1/4		1/4	
1/2	2,400.28	1/2	2,057.60	1/2	1,714.92	1/2	1,372.23	1/2	1,029.85	1/2	689.50	1/2	350.70	1/2	51.66	1/2		1/2	
3/4	2,393.14	3/4	2,050.46	3/4	1,707.78	3/4	1,365.09	3/4	1,022.77	3/4	682.36	3/4	343.98	3/4	46.40	3/4		3/4	
11	2,386.00	11	2,043.32	11	1,700.64	11	1,357.96	11	1,015.68	11	675.22	11	337.26	11	41.14	11		11	
1/4	2,378.86	1/4	2,036.18	1/4	1,693.50	1/4	1,350.82	1/4	1,008.60	1/4	668.08	1/4	330.54	1/4	35.89	1/4		1/4	
1/2	2,371.72	1/2	2,029.04	1/2	1,686.36	1/2	1,343.68	1/2	1,001.52	1/2	660.94	1/2	323.90	1/2	32.04	1/2		1/2	
3/4	2,364.58	3/4	2,021.90	3/4	1,679.22	3/4	1,336.54	3/4	994.44	3/4	653.80	3/4	317.26	3/4	28.18	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

1 STBD ULLAGE TABLE

10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,032.08	0	4,747.26	0	4,406.28	0	4,064.45	0	3,721.90	0	3,379.42	0	3,036.96
1/4		1/4		1/4		1/4	5,030.08	1/4	4,740.16	1/4	4,399.17	1/4	4,057.31	1/4	3,714.76	1/4	3,372.28	1/4	3,029.83
1/2		1/2		1/2		1/2	5,028.07	1/2	4,733.05	1/2	4,392.07	1/2	4,050.18	1/2	3,707.63	1/2	3,365.15	1/2	3,022.69
3/4		3/4		3/4		3/4	5,026.07	3/4	4,725.95	3/4	4,384.97	3/4	4,043.04	3/4	3,700.49	3/4	3,358.01	3/4	3,015.56
1		1		1		1	5,024.07	1	4,718.85	1	4,377.86	1	4,035.90	1	3,693.35	1	3,350.88	1	3,008.42
1/4		1/4		1/4		1/4	5,020.87	1/4	4,711.74	1/4	4,370.76	1/4	4,028.77	1/4	3,686.22	1/4	3,343.75	1/4	3,001.29
1/2		1/2		1/2		1/2	5,017.68	1/2	4,704.64	1/2	4,363.66	1/2	4,021.63	1/2	3,679.08	1/2	3,336.61	1/2	2,994.15
3/4		3/4		3/4		3/4	5,014.49	3/4	4,697.53	3/4	4,356.55	3/4	4,014.49	3/4	3,671.94	3/4	3,329.48	3/4	2,987.02
2		2		2		2	5,011.29	2	4,690.43	2	4,349.45	2	4,007.36	2	3,664.81	2	3,322.34	2	2,979.88
1/4		1/4		1/4		1/4	5,006.91	1/4	4,683.33	1/4	4,342.34	1/4	4,000.22	1/4	3,657.67	1/4	3,315.21	1/4	2,972.74
1/2		1/2		1/2		1/2	5,002.53	1/2	4,676.22	1/2	4,335.24	1/2	3,993.09	1/2	3,650.53	1/2	3,308.07	1/2	2,965.61
3/4		3/4		3/4		3/4	4,998.15	3/4	4,669.12	3/4	4,328.14	3/4	3,985.95	3/4	3,643.40	3/4	3,300.94	3/4	2,958.47
3		3		3		3	4,993.76	3	4,662.02	3	4,321.03	3	3,978.81	3	3,636.26	3	3,293.80	3	2,951.33
1/4		1/4		1/4		1/4	4,988.19	1/4	4,654.91	1/4	4,313.93	1/4	3,971.68	1/4	3,629.13	1/4	3,286.67	1/4	2,944.20
1/2		1/2		1/2		1/2	4,982.62	1/2	4,647.81	1/2	4,306.83	1/2	3,964.54	1/2	3,621.99	1/2	3,279.54	1/2	2,937.06
3/4		3/4		3/4		3/4	4,977.05	3/4	4,640.70	3/4	4,299.72	3/4	3,957.40	3/4	3,614.86	3/4	3,272.40	3/4	2,929.93
4		4		4		4	4,971.47	4	4,633.60	4	4,292.62	4	3,950.27	4	3,607.72	4	3,265.27	4	2,922.79
1/4		1/4		1/4		1/4	4,964.90	1/4	4,626.50	1/4	4,285.51	1/4	3,943.13	1/4	3,600.59	1/4	3,258.13	1/4	2,915.65
1/2		1/2		1/2		1/2	4,958.32	1/2	4,619.39	1/2	4,278.41	1/2	3,935.99	1/2	3,593.45	1/2	3,251.00	1/2	2,908.52
3/4		3/4		3/4		3/4	4,951.74	3/4	4,612.29	3/4	4,271.31	3/4	3,928.86	3/4	3,586.32	3/4	3,243.86	3/4	2,901.38
5		5		5		5	4,945.16	5	4,605.18	5	4,264.20	5	3,921.72	5	3,579.18	5	3,236.73	5	2,894.24
1/4		1/4		1/4		1/4	4,938.14	1/4	4,598.08	1/4	4,257.08	1/4	3,914.58	1/4	3,572.05	1/4	3,229.59	1/4	2,887.11
1/2		1/2		1/2		1/2	4,931.13	1/2	4,590.98	1/2	4,249.96	1/2	3,907.45	1/2	3,564.92	1/2	3,222.46	1/2	2,879.97
3/4		3/4		3/4		3/4	4,924.11	3/4	4,583.87	3/4	4,242.85	3/4	3,900.31	3/4	3,557.78	3/4	3,215.32	3/4	2,872.83
6		6		6		6	4,917.09	6	4,576.77	6	4,235.73	6	3,893.17	6	3,550.65	6	3,208.19	6	2,865.70
1/4		1/4		1/4		1/4	4,910.04	1/4	4,569.67	1/4	4,228.59	1/4	3,886.04	1/4	3,543.51	1/4	3,201.06	1/4	2,858.56
1/2		1/2		1/2		1/2	4,902.99	1/2	4,562.56	1/2	4,221.45	1/2	3,878.90	1/2	3,536.38	1/2	3,193.92	1/2	2,851.42
3/4		3/4		3/4		3/4	4,895.94	3/4	4,555.46	3/4	4,214.32	3/4	3,871.76	3/4	3,529.24	3/4	3,186.79	3/4	2,844.29
7		7		7		7	4,888.89	7	4,548.35	7	4,207.18	7	3,864.63	7	3,522.11	7	3,179.65	7	2,837.15
1/4		1/4		1/4		1/4	4,881.83	1/4	4,541.25	1/4	4,200.04	1/4	3,857.49	1/4	3,514.97	1/4	3,172.52	1/4	2,830.02
1/2		1/2		1/2		1/2	4,874.77	1/2	4,534.15	1/2	4,192.91	1/2	3,850.36	1/2	3,507.84	1/2	3,165.38	1/2	2,822.88
3/4		3/4		3/4		3/4	4,867.71	3/4	4,527.04	3/4	4,185.77	3/4	3,843.22	3/4	3,500.70	3/4	3,158.25	3/4	2,815.74
8		8		8		8	4,860.65	8	4,519.94	8	4,178.63	8	3,836.08	8	3,493.57	8	3,151.11	8	2,808.61
1/4		1/4		1/4		1/4	4,853.59	1/4	4,512.84	1/4	4,171.50	1/4	3,828.95	1/4	3,486.44	1/4	3,143.98	1/4	2,801.47
1/2		1/2		1/2		1/2	4,846.54	1/2	4,505.73	1/2	4,164.36	1/2	3,821.81	1/2	3,479.30	1/2	3,136.85	1/2	2,794.33
3/4		3/4		3/4		3/4	4,839.48	3/4	4,498.63	3/4	4,157.22	3/4	3,814.67	3/4	3,472.17	3/4	3,129.71	3/4	2,787.20
9		9		9		9	4,832.42	9	4,491.52	9	4,150.09	9	3,807.54	9	3,465.03	9	3,122.58	9	2,780.06
1/4		1/4		1/4		1/4	4,825.34	1/4	4,484.42	1/4	4,142.95	1/4	3,800.40	1/4	3,457.90	1/4	3,115.44	1/4	2,772.92
1/2		1/2		1/2		1/2	4,818.25	1/2	4,477.32	1/2	4,135.82	1/2	3,793.26	1/2	3,450.76	1/2	3,108.31	1/2	2,765.79
3/4		3/4		3/4		3/4	4,811.17	3/4	4,470.21	3/4	4,128.68	3/4	3,786.13	3/4	3,443.63	3/4	3,101.17	3/4	2,758.65
10		10		10		10	4,804.09	10	4,463.11	10	4,121.54	10	3,778.99	10	3,436.49	10	3,094.04	10	2,751.52
1/4		1/4		1/4		1/4	4,796.99	1/4	4,456.01	1/4	4,114.41	1/4	3,771.85	1/4	3,429.36	1/4	3,086.90	1/4	2,744.38
1/2		1/2		1/2		1/2	4,789.88	1/2	4,448.90	1/2	4,107.27	1/2	3,764.72	1/2	3,422.23	1/2	3,079.77	1/2	2,737.24
3/4		3/4		3/4		3/4	4,782.78	3/4	4,441.80	3/4	4,100.13	3/4	3,757.58	3/4	3,415.09	3/4	3,072.63	3/4	2,730.11
11		11		11	5,035.79	11	4,775.68	11	4,434.69	11	4,093.00	11	3,750.44	11	3,407.96	11	3,065.50	11	2,722.97
1/4		1/4		1/4	5,034.86	1/4	4,768.57	1/4	4,427.59	1/4	4,085.86	1/4	3,743.31	1/4	3,400.82	1/4	3,058.37	1/4	2,715.83
1/2		1/2		1/2	5,033.93	1/2	4,761.47	1/2	4,420.49	1/2	4,078.72	1/2	3,736.17	1/2	3,393.69	1/2	3,051.23	1/2	2,708.70
3/4		3/4		3/4	5,033.01	3/4	4,754.36	3/4	4,413.38	3/4	4,071.59	3/4	3,729.03	3/4	3,386.55	3/4	3,044.10	3/4	2,701.56

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "MPX 414"

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,694.42	0	2,351.86	0	2,009.29	0	1,666.72	0	1,324.15	0	981.63	0	639.31	0	303.84	0	20.47	0	
1/4	2,687.29	1/4	2,344.73	1/4	2,002.16	1/4	1,659.58	1/4	1,317.01	1/4	974.51	1/4	632.17	1/4	297.29	1/4	17.67	1/4	
1/2	2,680.15	1/2	2,337.59	1/2	1,995.02	1/2	1,652.45	1/2	1,309.88	1/2	967.38	1/2	625.03	1/2	290.73	1/2	14.88	1/2	
3/4	2,673.01	3/4	2,330.45	3/4	1,987.88	3/4	1,645.31	3/4	1,302.74	3/4	960.25	3/4	617.90	3/4	284.18	3/4	12.08	3/4	
1	2,665.88	1	2,323.32	1	1,980.74	1	1,638.17	1	1,295.60	1	953.12	1	610.76	1	277.63	1	9.28	1	
1/4	2,658.74	1/4	2,316.18	1/4	1,973.61	1/4	1,631.04	1/4	1,288.47	1/4	945.99	1/4	603.62	1/4	271.16	1/4	7.50	1/4	
1/2	2,651.61	1/2	2,309.04	1/2	1,966.47	1/2	1,623.90	1/2	1,281.33	1/2	938.87	1/2	596.49	1/2	264.69	1/2	5.72	1/2	
3/4	2,644.47	3/4	2,301.90	3/4	1,959.33	3/4	1,616.76	3/4	1,274.19	3/4	931.74	3/4	589.35	3/4	258.22	3/4	3.93	3/4	
2	2,637.33	2	2,294.77	2	1,952.20	2	1,609.63	2	1,267.05	2	924.61	2	582.21	2	251.75	2	2.15	2	
1/4	2,630.20	1/4	2,287.63	1/4	1,945.06	1/4	1,602.49	1/4	1,259.92	1/4	917.48	1/4	575.07	1/4	245.37	1/4		1/4	
1/2	2,623.06	1/2	2,280.49	1/2	1,937.92	1/2	1,595.35	1/2	1,252.78	1/2	910.35	1/2	567.94	1/2	238.98	1/2		1/2	
3/4	2,615.93	3/4	2,273.36	3/4	1,930.79	3/4	1,588.21	3/4	1,245.64	3/4	903.23	3/4	560.80	3/4	232.60	3/4		3/4	
3	2,608.79	3	2,266.22	3	1,923.65	3	1,581.08	3	1,238.51	3	896.10	3	553.66	3	226.21	3		3	
1/4	2,601.65	1/4	2,259.08	1/4	1,916.51	1/4	1,573.94	1/4	1,231.37	1/4	888.97	1/4	546.53	1/4	219.91	1/4		1/4	
1/2	2,594.52	1/2	2,251.95	1/2	1,909.38	1/2	1,566.80	1/2	1,224.23	1/2	881.84	1/2	539.39	1/2	213.61	1/2		1/2	
3/4	2,587.38	3/4	2,244.81	3/4	1,902.24	3/4	1,559.67	3/4	1,217.10	3/4	874.71	3/4	532.25	3/4	207.30	3/4		3/4	
4	2,580.24	4	2,237.67	4	1,895.10	4	1,552.53	4	1,209.96	4	867.59	4	525.12	4	201.00	4		4	
1/4	2,573.11	1/4	2,230.54	1/4	1,887.96	1/4	1,545.39	1/4	1,202.82	1/4	860.46	1/4	517.98	1/4	194.78	1/4		1/4	
1/2	2,565.97	1/2	2,223.40	1/2	1,880.83	1/2	1,538.26	1/2	1,195.69	1/2	853.33	1/2	510.84	1/2	188.56	1/2		1/2	
3/4	2,558.83	3/4	2,216.26	3/4	1,873.69	3/4	1,531.12	3/4	1,188.55	3/4	846.20	3/4	503.71	3/4	182.35	3/4		3/4	
5	2,551.70	5	2,209.13	5	1,866.55	5	1,523.98	5	1,181.41	5	839.07	5	496.57	5	176.13	5		5	
1/4	2,544.56	1/4	2,201.99	1/4	1,859.42	1/4	1,516.85	1/4	1,174.27	1/4	831.95	1/4	489.46	1/4	169.99	1/4		1/4	
1/2	2,537.42	1/2	2,194.85	1/2	1,852.28	1/2	1,509.71	1/2	1,167.14	1/2	824.82	1/2	482.34	1/2	163.86	1/2		1/2	
3/4	2,530.29	3/4	2,187.71	3/4	1,845.14	3/4	1,502.57	3/4	1,160.00	3/4	817.69	3/4	475.22	3/4	157.72	3/4		3/4	
6	2,523.15	6	2,180.58	6	1,838.01	6	1,495.44	6	1,152.86	6	810.56	6	468.11	6	151.59	6		6	
1/4	2,516.01	1/4	2,173.44	1/4	1,830.87	1/4	1,488.30	1/4	1,145.73	1/4	803.43	1/4	461.06	1/4	145.53	1/4		1/4	
1/2	2,508.88	1/2	2,166.30	1/2	1,823.73	1/2	1,481.16	1/2	1,138.59	1/2	796.30	1/2	454.00	1/2	139.48	1/2		1/2	
3/4	2,501.74	3/4	2,159.17	3/4	1,816.60	3/4	1,474.02	3/4	1,131.45	3/4	789.17	3/4	446.95	3/4	133.43	3/4		3/4	
7	2,494.60	7	2,152.03	7	1,809.46	7	1,466.89	7	1,124.32	7	782.04	7	439.90	7	127.38	7		7	
1/4	2,487.46	1/4	2,144.89	1/4	1,802.32	1/4	1,459.75	1/4	1,117.18	1/4	774.90	1/4	432.93	1/4	121.41	1/4		1/4	
1/2	2,480.33	1/2	2,137.76	1/2	1,795.19	1/2	1,452.61	1/2	1,110.04	1/2	767.76	1/2	425.96	1/2	115.44	1/2		1/2	
3/4	2,473.19	3/4	2,130.62	3/4	1,788.05	3/4	1,445.48	3/4	1,102.91	3/4	760.63	3/4	418.99	3/4	109.48	3/4		3/4	
8	2,466.05	8	2,123.48	8	1,780.91	8	1,438.34	8	1,095.77	8	753.49	8	412.02	8	103.51	8		8	
1/4	2,458.92	1/4	2,116.35	1/4	1,773.77	1/4	1,431.20	1/4	1,088.63	1/4	746.36	1/4	405.13	1/4	97.63	1/4		1/4	
1/2	2,451.78	1/2	2,109.21	1/2	1,766.64	1/2	1,424.07	1/2	1,081.50	1/2	739.22	1/2	398.24	1/2	91.75	1/2		1/2	
3/4	2,444.64	3/4	2,102.07	3/4	1,759.50	3/4	1,416.93	3/4	1,074.36	3/4	732.08	3/4	391.36	3/4	85.87	3/4		3/4	
9	2,437.51	9	2,094.93	9	1,752.36	9	1,409.79	9	1,067.22	9	724.95	9	384.47	9	79.99	9		9	
1/4	2,430.37	1/4	2,087.80	1/4	1,745.23	1/4	1,402.66	1/4	1,060.08	1/4	717.81	1/4	377.67	1/4	74.21	1/4		1/4	
1/2	2,423.23	1/2	2,080.66	1/2	1,738.09	1/2	1,395.52	1/2	1,052.95	1/2	710.67	1/2	370.87	1/2	68.44	1/2		1/2	
3/4	2,416.10	3/4	2,073.52	3/4	1,730.95	3/4	1,388.38	3/4	1,045.81	3/4	703.54	3/4	364.06	3/4	62.66	3/4		3/4	
10	2,408.96	10	2,066.39	10	1,723.82	10	1,381.24	10	1,038.67	10	696.40	10	357.26	10	56.88	10		10	
1/4	2,401.82	1/4	2,059.25	1/4	1,716.68	1/4	1,374.11	1/4	1,031.54	1/4	689.26	1/4	350.54	1/4	51.63	1/4		1/4	
1/2	2,394.68	1/2	2,052.11	1/2	1,709.54	1/2	1,366.97	1/2	1,024.41	1/2	682.13	1/2	343.82	1/2	46.37	1/2		1/2	
3/4	2,387.55	3/4	2,044.98	3/4	1,702.41	3/4	1,359.83	3/4	1,017.28	3/4	674.99	3/4	337.10	3/4	41.12	3/4		3/4	
11	2,380.41	11	2,037.84	11	1,695.27	11	1,352.70	11	1,010.15	11	667.85	11	330.38	11	35.87	11		11	
1/4	2,373.27	1/4	2,030.70	1/4	1,688.13	1/4	1,345.56	1/4	1,003.02	1/4	660.72	1/4	323.75	1/4	32.02	1/4		1/4	
1/2	2,366.14	1/2	2,023.57	1/2	1,680.99	1/2	1,338.42	1/2	995.89	1/2	653.58	1/2	317.11	1/2	28.17	1/2		1/2	
3/4	2,359.00	3/4	2,016.43	3/4	1,673.86	3/4	1,331.29	3/4	988.76	3/4	646.44	3/4	310.47	3/4	24.32	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

2 PORT ULLAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	5,091.77	0	4,812.49	0	4,470.71	0	4,128.11	0	3,784.76	0	3,441.42	0	3,098.07		
1/4		1/4		1/4		1/4	5,090.84	1/4	4,805.37	1/4	4,463.59	1/4	4,120.95	1/4	3,777.61	1/4	3,434.26	1/4	3,090.92		
1/2		1/2		1/2		1/2	5,088.84	1/2	4,798.25	1/2	4,456.47	1/2	4,113.80	1/2	3,770.46	1/2	3,427.11	1/2	3,083.77		
3/4		3/4		3/4		3/4	5,086.83	3/4	4,791.13	3/4	4,449.35	3/4	4,106.65	3/4	3,763.30	3/4	3,419.96	3/4	3,076.61		
1		1		1		1	5,084.82	1	4,784.01	1	4,442.23	1	4,099.49	1	3,756.15	1	3,412.81	1	3,069.46		
1/4		1/4		1/4		1/4	5,082.81	1/4	4,776.89	1/4	4,435.11	1/4	4,092.34	1/4	3,749.00	1/4	3,405.65	1/4	3,062.31		
1/2		1/2		1/2		1/2	5,079.61	1/2	4,769.77	1/2	4,427.99	1/2	4,085.19	1/2	3,741.84	1/2	3,398.50	1/2	3,055.16		
3/4		3/4		3/4		3/4	5,076.41	3/4	4,762.65	3/4	4,420.87	3/4	4,078.03	3/4	3,734.69	3/4	3,391.35	3/4	3,048.00		
2		2		2		2	5,073.21	2	4,755.53	2	4,413.75	2	4,070.88	2	3,727.54	2	3,384.19	2	3,040.85		
1/4		1/4		1/4		1/4	5,070.01	1/4	4,748.41	1/4	4,406.63	1/4	4,063.73	1/4	3,720.38	1/4	3,377.04	1/4	3,033.70		
1/2		1/2		1/2		1/2	5,065.62	1/2	4,741.29	1/2	4,399.51	1/2	4,056.58	1/2	3,713.23	1/2	3,369.89	1/2	3,026.54		
3/4		3/4		3/4		3/4	5,061.23	3/4	4,734.17	3/4	4,392.39	3/4	4,049.42	3/4	3,706.08	3/4	3,362.73	3/4	3,019.39		
3		3		3		3	5,056.84	3	4,727.05	3	4,385.27	3	4,042.27	3	3,698.93	3	3,355.58	3	3,012.23		
1/4		1/4		1/4		1/4	5,052.45	1/4	4,719.93	1/4	4,378.15	1/4	4,035.12	1/4	3,691.77	1/4	3,348.43	1/4	3,005.08		
1/2		1/2		1/2		1/2	5,046.86	1/2	4,712.81	1/2	4,371.03	1/2	4,027.96	1/2	3,684.62	1/2	3,341.28	1/2	2,997.92		
3/4		3/4		3/4		3/4	5,041.28	3/4	4,705.69	3/4	4,363.91	3/4	4,020.81	3/4	3,677.47	3/4	3,334.12	3/4	2,990.77		
4		4		4		4	5,035.69	4	4,698.57	4	4,356.79	4	4,013.66	4	3,670.31	4	3,326.97	4	2,983.61		
1/4		1/4		1/4		1/4	5,030.11	1/4	4,691.45	1/4	4,349.67	1/4	4,006.50	1/4	3,663.16	1/4	3,319.82	1/4	2,976.46		
1/2		1/2		1/2		1/2	5,023.51	1/2	4,684.33	1/2	4,342.55	1/2	3,999.35	1/2	3,656.01	1/2	3,312.66	1/2	2,969.30		
3/4		3/4		3/4		3/4	5,016.92	3/4	4,677.20	3/4	4,335.43	3/4	3,992.20	3/4	3,648.85	3/4	3,305.51	3/4	2,962.15		
5		5		5		5	5,010.32	5	4,670.08	5	4,328.31	5	3,985.05	5	3,641.70	5	3,298.36	5	2,954.99		
1/4		1/4		1/4		1/4	5,003.73	1/4	4,662.96	1/4	4,321.18	1/4	3,977.89	1/4	3,634.55	1/4	3,291.20	1/4	2,947.84		
1/2		1/2		1/2		1/2	4,996.70	1/2	4,655.84	1/2	4,314.04	1/2	3,970.74	1/2	3,627.40	1/2	3,284.05	1/2	2,940.68		
3/4		3/4		3/4		3/4	4,989.66	3/4	4,648.72	3/4	4,306.90	3/4	3,963.59	3/4	3,620.24	3/4	3,276.90	3/4	2,933.53		
6		6		6		6	4,982.63	6	4,641.60	6	4,299.76	6	3,956.43	6	3,613.09	6	3,269.75	6	2,926.37		
1/4		1/4		1/4		1/4	4,975.59	1/4	4,634.48	1/4	4,292.62	1/4	3,949.28	1/4	3,605.94	1/4	3,262.59	1/4	2,919.22		
1/2		1/2		1/2		1/2	4,968.53	1/2	4,627.36	1/2	4,285.47	1/2	3,942.13	1/2	3,598.78	1/2	3,255.44	1/2	2,912.06		
3/4		3/4		3/4		3/4	4,961.46	3/4	4,620.24	3/4	4,278.32	3/4	3,934.97	3/4	3,591.63	3/4	3,248.29	3/4	2,904.91		
7		7		7		7	4,954.39	7	4,613.12	7	4,271.17	7	3,927.82	7	3,584.48	7	3,241.13	7	2,897.75		
1/4		1/4		1/4		1/4	4,947.33	1/4	4,606.00	1/4	4,264.01	1/4	3,920.67	1/4	3,577.32	1/4	3,233.98	1/4	2,890.60		
1/2		1/2		1/2		1/2	4,940.25	1/2	4,598.88	1/2	4,256.86	1/2	3,913.52	1/2	3,570.17	1/2	3,226.83	1/2	2,883.44		
3/4		3/4		3/4		3/4	4,933.18	3/4	4,591.76	3/4	4,249.71	3/4	3,906.36	3/4	3,563.02	3/4	3,219.67	3/4	2,876.29		
8		8		8		8	4,926.11	8	4,584.64	8	4,242.55	8	3,899.21	8	3,555.87	8	3,212.52	8	2,869.13		
1/4		1/4		1/4		1/4	4,919.03	1/4	4,577.52	1/4	4,235.40	1/4	3,892.06	1/4	3,548.71	1/4	3,205.37	1/4	2,861.98		
1/2		1/2		1/2		1/2	4,911.96	1/2	4,570.40	1/2	4,228.25	1/2	3,884.90	1/2	3,541.56	1/2	3,198.22	1/2	2,854.82		
3/4		3/4		3/4		3/4	4,904.88	3/4	4,563.28	3/4	4,221.09	3/4	3,877.75	3/4	3,534.41	3/4	3,191.06	3/4	2,847.67		
9		9		9		9	4,897.80	9	4,556.16	9	4,213.94	9	3,870.60	9	3,527.25	9	3,183.91	9	2,840.51		
1/4		1/4		1/4		1/4	4,890.73	1/4	4,549.04	1/4	4,206.79	1/4	3,863.44	1/4	3,520.10	1/4	3,176.76	1/4	2,833.36		
1/2		1/2		1/2		1/2	4,883.63	1/2	4,541.92	1/2	4,199.64	1/2	3,856.29	1/2	3,512.95	1/2	3,169.60	1/2	2,826.20		
3/4		3/4		3/4		3/4	4,876.53	3/4	4,534.80	3/4	4,192.48	3/4	3,849.14	3/4	3,505.79	3/4	3,162.45	3/4	2,819.05		
10		10		10		10	4,869.43	10	4,527.68	10	4,185.33	10	3,841.99	10	3,498.64	10	3,155.30	10	2,811.89		
1/4		1/4		1/4		1/4	4,862.34	1/4	4,520.56	1/4	4,178.18	1/4	3,834.83	1/4	3,491.49	1/4	3,148.14	1/4	2,804.74		
1/2		1/2		1/2		1/2	4,855.21	1/2	4,513.44	1/2	4,171.02	1/2	3,827.68	1/2	3,484.34	1/2	3,140.99	1/2	2,797.58		
3/4		3/4		3/4		3/4	4,848.09	3/4	4,506.32	3/4	4,163.87	3/4	3,820.53	3/4	3,477.18	3/4	3,133.84	3/4	2,790.43		
11		11		11		11	4,840.97	11	4,499.19	11	4,156.72	11	3,813.37	11	3,470.03	11	3,126.69	11	2,783.27		
1/4		1/4		1/4		1/4	5,094.56	1/4	4,833.85	1/4	4,492.07	1/4	4,149.56	1/4	3,806.22	1/4	3,462.88	1/4	3,119.53	1/4	2,776.12
1/2		1/2		1/2		1/2	5,093.63	1/2	4,826.73	1/2	4,484.95	1/2	4,142.41	1/2	3,799.07	1/2	3,455.72	1/2	3,112.38	1/2	2,768.96
3/4		3/4		3/4		3/4	5,092.70	3/4	4,819.61	3/4	4,477.83	3/4	4,135.26	3/4	3,791.91	3/4	3,448.57	3/4	3,105.23	3/4	2,761.81

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

2 PORT ULLAGE TABLE 10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 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	2,754.65	0	2,411.21	0	2,067.76	0	1,724.32	0	1,380.87	0	1,041.29	0	708.49	0	365.06	0	28.98	0	
1/4	2,747.50	1/4	2,404.05	1/4	2,060.61	1/4	1,717.16	1/4	1,373.72	1/4	1,034.45	1/4	701.34	1/4	357.90	1/4	23.62	1/4	
1/2	2,740.34	1/2	2,396.90	1/2	2,053.45	1/2	1,710.01	1/2	1,366.56	1/2	1,027.60	1/2	694.18	1/2	350.75	1/2	20.04	1/2	
3/4	2,733.19	3/4	2,389.74	3/4	2,046.30	3/4	1,702.85	3/4	1,359.41	3/4	1,020.75	3/4	687.03	3/4	343.60	3/4	16.46	3/4	
1	2,726.03	1	2,382.59	1	2,039.14	1	1,695.70	1	1,352.25	1	1,013.90	1	679.87	1	336.44	1	12.88	1	
1/4	2,718.87	1/4	2,375.43	1/4	2,031.99	1/4	1,688.54	1/4	1,345.10	1/4	1,007.06	1/4	672.72	1/4	329.29	1/4	9.31	1/4	
1/2	2,711.72	1/2	2,368.27	1/2	2,024.83	1/2	1,681.39	1/2	1,337.94	1/2	1,000.21	1/2	665.56	1/2	322.13	1/2	7.52	1/2	
3/4	2,704.56	3/4	2,361.12	3/4	2,017.68	3/4	1,674.23	3/4	1,330.79	3/4	993.36	3/4	658.41	3/4	314.98	3/4	5.73	3/4	
2	2,697.41	2	2,353.96	2	2,010.52	2	1,667.08	2	1,323.63	2	986.51	2	651.25	2	307.82	2	3.94	2	
1/4	2,690.25	1/4	2,346.81	1/4	2,003.36	1/4	1,659.92	1/4	1,316.48	1/4	979.67	1/4	644.10	1/4	300.67	1/4	2.16	1/4	
1/2	2,683.10	1/2	2,339.65	1/2	1,996.21	1/2	1,652.76	1/2	1,309.32	1/2	972.82	1/2	636.94	1/2	293.51	1/2		1/2	
3/4	2,675.94	3/4	2,332.50	3/4	1,989.05	3/4	1,645.61	3/4	1,302.17	3/4	965.97	3/4	629.79	3/4	286.36	3/4		3/4	
3	2,668.79	3	2,325.34	3	1,981.90	3	1,638.45	3	1,295.01	3	959.12	3	622.63	3	279.20	3		3	
1/4	2,661.63	1/4	2,318.19	1/4	1,974.74	1/4	1,631.30	1/4	1,287.85	1/4	952.28	1/4	615.48	1/4	272.05	1/4		1/4	
1/2	2,654.48	1/2	2,311.03	1/2	1,967.59	1/2	1,624.14	1/2	1,280.70	1/2	945.43	1/2	608.32	1/2	264.89	1/2		1/2	
3/4	2,647.32	3/4	2,303.88	3/4	1,960.43	3/4	1,616.99	3/4	1,273.54	3/4	938.58	3/4	601.17	3/4	257.74	3/4		3/4	
4	2,640.17	4	2,296.72	4	1,953.28	4	1,609.83	4	1,266.39	4	931.74	4	594.01	4	250.58	4		4	
1/4	2,633.01	1/4	2,289.57	1/4	1,946.12	1/4	1,602.68	1/4	1,259.23	1/4	924.89	1/4	586.86	1/4	243.43	1/4		1/4	
1/2	2,625.86	1/2	2,282.41	1/2	1,938.97	1/2	1,595.52	1/2	1,252.08	1/2	918.04	1/2	579.70	1/2	236.27	1/2		1/2	
3/4	2,618.70	3/4	2,275.26	3/4	1,931.81	3/4	1,588.37	3/4	1,244.92	3/4	911.19	3/4	572.55	3/4	229.12	3/4		3/4	
5	2,611.55	5	2,268.10	5	1,924.66	5	1,581.21	5	1,237.77	5	904.35	5	565.39	5	221.96	5		5	
1/4	2,604.39	1/4	2,260.95	1/4	1,917.50	1/4	1,574.06	1/4	1,230.61	1/4	897.50	1/4	558.24	1/4	214.81	1/4		1/4	
1/2	2,597.24	1/2	2,253.79	1/2	1,910.35	1/2	1,566.90	1/2	1,223.46	1/2	890.65	1/2	551.08	1/2	207.65	1/2		1/2	
3/4	2,590.08	3/4	2,246.64	3/4	1,903.19	3/4	1,559.75	3/4	1,216.30	3/4	883.81	3/4	543.93	3/4	200.50	3/4		3/4	
6	2,582.93	6	2,239.48	6	1,896.04	6	1,552.59	6	1,209.15	6	876.96	6	536.77	6	193.34	6		6	
1/4	2,575.77	1/4	2,232.33	1/4	1,888.88	1/4	1,545.44	1/4	1,201.99	1/4	870.11	1/4	529.62	1/4	186.19	1/4		1/4	
1/2	2,568.62	1/2	2,225.17	1/2	1,881.73	1/2	1,538.28	1/2	1,194.84	1/2	863.26	1/2	522.47	1/2	179.03	1/2		1/2	
3/4	2,561.46	3/4	2,218.02	3/4	1,874.57	3/4	1,531.13	3/4	1,187.68	3/4	856.41	3/4	515.31	3/4	171.88	3/4		3/4	
7	2,554.31	7	2,210.86	7	1,867.42	7	1,523.97	7	1,180.53	7	849.56	7	508.16	7	164.73	7		7	
1/4	2,547.15	1/4	2,203.71	1/4	1,860.26	1/4	1,516.82	1/4	1,173.37	1/4	842.71	1/4	501.00	1/4	157.57	1/4		1/4	
1/2	2,540.00	1/2	2,196.55	1/2	1,853.11	1/2	1,509.66	1/2	1,166.22	1/2	835.84	1/2	493.85	1/2	150.42	1/2		1/2	
3/4	2,532.84	3/4	2,189.40	3/4	1,845.95	3/4	1,502.51	3/4	1,159.06	3/4	828.98	3/4	486.69	3/4	143.26	3/4		3/4	
8	2,525.69	8	2,182.24	8	1,838.80	8	1,495.35	8	1,151.91	8	822.12	8	479.54	8	136.11	8		8	
1/4	2,518.53	1/4	2,175.09	1/4	1,831.64	1/4	1,488.20	1/4	1,144.75	1/4	815.25	1/4	472.38	1/4	128.95	1/4		1/4	
1/2	2,511.38	1/2	2,167.93	1/2	1,824.49	1/2	1,481.04	1/2	1,137.74	1/2	808.24	1/2	465.23	1/2	121.80	1/2		1/2	
3/4	2,504.22	3/4	2,160.78	3/4	1,817.33	3/4	1,473.89	3/4	1,130.73	3/4	801.22	3/4	458.07	3/4	114.66	3/4		3/4	
9	2,497.07	9	2,153.62	9	1,810.18	9	1,466.73	9	1,123.71	9	794.21	9	450.92	9	107.51	9		9	
1/4	2,489.91	1/4	2,146.47	1/4	1,803.02	1/4	1,459.58	1/4	1,116.70	1/4	787.19	1/4	443.76	1/4	100.36	1/4		1/4	
1/2	2,482.76	1/2	2,139.31	1/2	1,795.87	1/2	1,452.42	1/2	1,109.83	1/2	780.04	1/2	436.61	1/2	93.23	1/2		1/2	
3/4	2,475.60	3/4	2,132.16	3/4	1,788.71	3/4	1,445.27	3/4	1,102.97	3/4	772.88	3/4	429.45	3/4	86.10	3/4		3/4	
10	2,468.45	10	2,125.00	10	1,781.56	10	1,438.11	10	1,096.11	10	765.73	10	422.30	10	78.96	10		10	
1/4	2,461.29	1/4	2,117.85	1/4	1,774.40	1/4	1,430.96	1/4	1,089.24	1/4	758.57	1/4	415.14	1/4	71.83	1/4		1/4	
1/2	2,454.14	1/2	2,110.69	1/2	1,767.25	1/2	1,423.80	1/2	1,082.39	1/2	751.42	1/2	407.99	1/2	65.14	1/2		1/2	
3/4	2,446.98	3/4	2,103.54	3/4	1,760.09	3/4	1,416.65	3/4	1,075.54	3/4	744.26	3/4	400.83	3/4	58.45	3/4		3/4	
11	2,439.83	11	2,096.38	11	1,752.94	11	1,409.49	11	1,068.69	11	737.11	11	393.68	11	51.77	11		11	
1/4	2,432.67	1/4	2,089.23	1/4	1,745.78	1/4	1,402.34	1/4	1,061.83	1/4	729.95	1/4	386.52	1/4	45.08	1/4		1/4	
1/2	2,425.52	1/2	2,082.07	1/2	1,738.63	1/2	1,395.18	1/2	1,054.99	1/2	722.80	1/2	379.37	1/2	39.71	1/2		1/2	
3/4	2,418.36	3/4	2,074.92	3/4	1,731.47	3/4	1,388.03	3/4	1,048.14	3/4	715.64	3/4	372.21	3/4	34.35	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

2 STBD ULLAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,110.37	0	4,819.29	0	4,476.94	0	4,133.70	0	3,789.78	0	3,445.93	0	3,102.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,108.36	1/4	4,812.15	1/4	4,469.80	1/4	4,126.54	1/4	3,782.61	1/4	3,438.77	1/4	3,094.94		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,106.35	1/2	4,805.02	1/2	4,462.67	1/2	4,119.37	1/2	3,775.45	1/2	3,431.60	1/2	3,087.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,104.34	3/4	4,797.89	3/4	4,455.54	3/4	4,112.21	3/4	3,768.28	3/4	3,424.44	3/4	3,080.61		
1	1	1	1	1	1	1	5,101.13	1	4,790.76	1	4,448.41	1	4,105.04	1	3,761.12	1	3,417.28	1	3,073.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,097.92	1/4	4,783.63	1/4	4,441.27	1/4	4,097.88	1/4	3,753.95	1/4	3,410.11	1/4	3,066.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,094.72	1/2	4,776.49	1/2	4,434.14	1/2	4,090.71	1/2	3,746.79	1/2	3,402.95	1/2	3,059.13		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,091.51	3/4	4,769.36	3/4	4,427.01	3/4	4,083.55	3/4	3,739.62	3/4	3,395.79	3/4	3,051.97		
2	2	2	2	2	2	2	5,087.11	2	4,762.23	2	4,419.88	2	4,076.38	2	3,732.46	2	3,388.63	2	3,044.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,082.71	1/4	4,755.10	1/4	4,412.75	1/4	4,069.22	1/4	3,725.29	1/4	3,381.46	1/4	3,037.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,078.31	1/2	4,747.96	1/2	4,405.61	1/2	4,062.05	1/2	3,718.13	1/2	3,374.30	1/2	3,030.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,073.91	3/4	4,740.83	3/4	4,398.48	3/4	4,054.89	3/4	3,710.96	3/4	3,367.14	3/4	3,023.31		
3	3	3	3	3	3	3	5,068.31	3	4,733.70	3	4,391.35	3	4,047.72	3	3,703.80	3	3,359.97	3	3,016.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,062.72	1/4	4,726.57	1/4	4,384.22	1/4	4,040.56	1/4	3,696.64	1/4	3,352.81	1/4	3,008.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,057.13	1/2	4,719.43	1/2	4,377.08	1/2	4,033.39	1/2	3,689.48	1/2	3,345.65	1/2	3,001.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,051.53	3/4	4,712.30	3/4	4,369.95	3/4	4,026.23	3/4	3,682.31	3/4	3,338.48	3/4	2,994.65		
4	4	4	4	4	4	4	5,044.93	4	4,705.17	4	4,362.82	4	4,019.06	4	3,675.15	4	3,331.32	4	2,987.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,038.32	1/4	4,698.04	1/4	4,355.69	1/4	4,011.90	1/4	3,667.99	1/4	3,324.16	1/4	2,980.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,031.72	1/2	4,690.91	1/2	4,348.56	1/2	4,004.73	1/2	3,660.82	1/2	3,316.99	1/2	2,973.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,025.11	3/4	4,683.77	3/4	4,341.42	3/4	3,997.57	3/4	3,653.66	3/4	3,309.83	3/4	2,965.99		
5	5	5	5	5	5	5	5,018.07	5	4,676.64	5	4,334.28	5	3,990.40	5	3,646.50	5	3,302.67	5	2,958.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.02	1/4	4,669.51	1/4	4,327.13	1/4	3,983.24	1/4	3,639.33	1/4	3,295.50	1/4	2,951.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,003.97	1/2	4,662.38	1/2	4,319.98	1/2	3,976.07	1/2	3,632.17	1/2	3,288.34	1/2	2,944.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,996.93	3/4	4,655.24	3/4	4,312.83	3/4	3,968.91	3/4	3,625.01	3/4	3,281.18	3/4	2,937.33		
6	6	6	6	6	6	6	4,989.85	6	4,648.11	6	4,305.67	6	3,961.74	6	3,617.84	6	3,274.02	6	2,930.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,982.77	1/4	4,640.98	1/4	4,298.50	1/4	3,954.58	1/4	3,610.68	1/4	3,266.85	1/4	2,923.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,975.69	1/2	4,633.85	1/2	4,291.34	1/2	3,947.41	1/2	3,603.52	1/2	3,259.69	1/2	2,915.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,968.61	3/4	4,626.71	3/4	4,284.17	3/4	3,940.25	3/4	3,596.36	3/4	3,252.53	3/4	2,908.67		
7	7	7	7	7	7	7	4,961.53	7	4,619.58	7	4,277.01	7	3,933.08	7	3,589.19	7	3,245.36	7	2,901.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.44	1/4	4,612.45	1/4	4,269.84	1/4	3,925.92	1/4	3,582.03	1/4	3,238.20	1/4	2,894.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,947.35	1/2	4,605.32	1/2	4,262.68	1/2	3,918.75	1/2	3,574.87	1/2	3,231.04	1/2	2,887.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,940.27	3/4	4,598.19	3/4	4,255.51	3/4	3,911.59	3/4	3,567.70	3/4	3,223.87	3/4	2,880.01		
8	8	8	8	8	8	8	4,933.18	8	4,591.05	8	4,248.35	8	3,904.42	8	3,560.54	8	3,216.71	8	2,872.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,926.09	1/4	4,583.92	1/4	4,241.18	1/4	3,897.26	1/4	3,553.38	1/4	3,209.55	1/4	2,865.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,919.00	1/2	4,576.79	1/2	4,234.02	1/2	3,890.09	1/2	3,546.21	1/2	3,202.38	1/2	2,858.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,911.92	3/4	4,569.66	3/4	4,226.85	3/4	3,882.93	3/4	3,539.05	3/4	3,195.22	3/4	2,851.35		
9	9	9	9	9	9	9	4,904.81	9	4,562.52	9	4,219.69	9	3,875.76	9	3,531.89	9	3,188.06	9	2,844.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,897.70	1/4	4,555.39	1/4	4,212.52	1/4	3,868.60	1/4	3,524.72	1/4	3,180.90	1/4	2,837.02		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,890.59	1/2	4,548.26	1/2	4,205.36	1/2	3,861.43	1/2	3,517.56	1/2	3,173.73	1/2	2,829.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,883.48	3/4	4,541.13	3/4	4,198.19	3/4	3,854.27	3/4	3,510.40	3/4	3,166.57	3/4	2,822.69		
10	10	10	10	10	10	10	4,876.35	10	4,533.99	10	4,191.03	10	3,847.10	10	3,503.23	10	3,159.41	10	2,815.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,869.21	1/4	4,526.86	1/4	4,183.86	1/4	3,839.94	1/4	3,496.07	1/4	3,152.24	1/4	2,808.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,862.08	1/2	4,519.73	1/2	4,176.70	1/2	3,832.77	1/2	3,488.91	1/2	3,145.08	1/2	2,801.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,116.11	3/4	4,854.95	3/4	4,512.60	3/4	4,169.53	3/4	3,825.61	3/4	3,481.75	3/4	3,137.92	3/4	2,794.03
11	11	11	11	11	11	11	5,115.18	11	4,847.82	11	4,505.47	11	4,162.37	11	3,818.44	11	3,474.58	11	3,130.75	11	2,786.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,114.25	1/4	4,840.68	1/4	4,498.33	1/4	4,155.20	1/4	3,811.28	1/4	3,467.42	1/4	3,123.59	1/4	2,779.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,113.32	1/2	4,833.55	1/2	4,491.20	1/2	4,148.04	1/2	3,804.11	1/2	3,460.26	1/2	3,116.43	1/2	2,772.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,112.38	3/4	4,826.42	3/4	4,484.07	3/4	4,140.87	3/4	3,796.95	3/4	3,453.09	3/4	3,109.26	3/4	2,765.37

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "MPX 414"

2 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,758.20	0	2,414.28	0	2,070.35	0	1,726.43	0	1,382.50	0	1,038.70	0	695.16	0	351.25	0	20.07	0	
1/4	2,751.03	1/4	2,407.11	1/4	2,063.19	1/4	1,719.26	1/4	1,375.34	1/4	1,031.55	1/4	687.99	1/4	344.08	1/4	16.49	1/4	
1/2	2,743.87	1/2	2,399.95	1/2	2,056.02	1/2	1,712.10	1/2	1,368.17	1/2	1,024.40	1/2	680.83	1/2	336.92	1/2	12.91	1/2	
3/4	2,736.70	3/4	2,392.78	3/4	2,048.86	3/4	1,704.93	3/4	1,361.01	3/4	1,017.24	3/4	673.66	3/4	329.75	3/4	9.33	3/4	
1	2,729.54	1	2,385.61	1	2,041.69	1	1,697.77	1	1,353.84	1	1,010.09	1	666.50	1	322.59	1	7.53	1	
1/4	2,722.37	1/4	2,378.45	1/4	2,034.52	1/4	1,690.60	1/4	1,346.68	1/4	1,002.94	1/4	659.33	1/4	315.42	1/4	5.74	1/4	
1/2	2,715.21	1/2	2,371.28	1/2	2,027.36	1/2	1,683.44	1/2	1,339.51	1/2	995.79	1/2	652.17	1/2	308.26	1/2	3.95	1/2	
3/4	2,708.04	3/4	2,364.12	3/4	2,020.19	3/4	1,676.27	3/4	1,332.35	3/4	988.64	3/4	645.00	3/4	301.09	3/4	2.16	3/4	
2	2,700.88	2	2,356.95	2	2,013.03	2	1,669.10	2	1,325.18	2	981.49	2	637.84	2	293.93	2		2	
1/4	2,693.71	1/4	2,349.79	1/4	2,005.86	1/4	1,661.94	1/4	1,318.01	1/4	974.34	1/4	630.67	1/4	286.76	1/4		1/4	
1/2	2,686.55	1/2	2,342.62	1/2	1,998.70	1/2	1,654.77	1/2	1,310.85	1/2	967.19	1/2	623.51	1/2	279.60	1/2		1/2	
3/4	2,679.38	3/4	2,335.46	3/4	1,991.53	3/4	1,647.61	3/4	1,303.68	3/4	960.04	3/4	616.34	3/4	272.43	3/4		3/4	
3	2,672.22	3	2,328.29	3	1,984.37	3	1,640.44	3	1,296.52	3	952.89	3	609.18	3	265.27	3		3	
1/4	2,665.05	1/4	2,321.13	1/4	1,977.20	1/4	1,633.28	1/4	1,289.35	1/4	945.74	1/4	602.01	1/4	258.10	1/4		1/4	
1/2	2,657.89	1/2	2,313.96	1/2	1,970.04	1/2	1,626.11	1/2	1,282.19	1/2	938.58	1/2	594.85	1/2	250.94	1/2		1/2	
3/4	2,650.72	3/4	2,306.80	3/4	1,962.87	3/4	1,618.95	3/4	1,275.02	3/4	931.43	3/4	587.68	3/4	243.77	3/4		3/4	
4	2,643.56	4	2,299.63	4	1,955.71	4	1,611.78	4	1,267.86	4	924.28	4	580.52	4	236.61	4		4	
1/4	2,636.39	1/4	2,292.47	1/4	1,948.54	1/4	1,604.62	1/4	1,260.69	1/4	917.13	1/4	573.36	1/4	229.44	1/4		1/4	
1/2	2,629.23	1/2	2,285.30	1/2	1,941.38	1/2	1,597.45	1/2	1,253.53	1/2	909.98	1/2	566.19	1/2	222.28	1/2		1/2	
3/4	2,622.06	3/4	2,278.14	3/4	1,934.21	3/4	1,590.29	3/4	1,246.36	3/4	902.83	3/4	559.03	3/4	215.12	3/4		3/4	
5	2,614.90	5	2,270.97	5	1,927.05	5	1,583.12	5	1,239.20	5	895.68	5	551.86	5	207.95	5		5	
1/4	2,607.73	1/4	2,263.81	1/4	1,919.88	1/4	1,575.96	1/4	1,232.03	1/4	888.53	1/4	544.70	1/4	200.79	1/4		1/4	
1/2	2,600.57	1/2	2,256.64	1/2	1,912.72	1/2	1,568.79	1/2	1,224.87	1/2	881.38	1/2	537.53	1/2	193.62	1/2		1/2	
3/4	2,593.40	3/4	2,249.48	3/4	1,905.55	3/4	1,561.63	3/4	1,217.70	3/4	874.23	3/4	530.37	3/4	186.46	3/4		3/4	
6	2,586.24	6	2,242.31	6	1,898.39	6	1,554.46	6	1,210.54	6	867.07	6	523.20	6	179.29	6		6	
1/4	2,579.07	1/4	2,235.15	1/4	1,891.22	1/4	1,547.30	1/4	1,203.37	1/4	859.92	1/4	516.04	1/4	172.13	1/4		1/4	
1/2	2,571.91	1/2	2,227.98	1/2	1,884.06	1/2	1,540.13	1/2	1,196.21	1/2	852.76	1/2	508.87	1/2	164.96	1/2		1/2	
3/4	2,564.74	3/4	2,220.82	3/4	1,876.89	3/4	1,532.97	3/4	1,189.04	3/4	845.61	3/4	501.71	3/4	157.80	3/4		3/4	
7	2,557.58	7	2,213.65	7	1,869.73	7	1,525.80	7	1,181.88	7	838.45	7	494.54	7	150.63	7		7	
1/4	2,550.41	1/4	2,206.49	1/4	1,862.56	1/4	1,518.64	1/4	1,174.71	1/4	831.28	1/4	487.38	1/4	143.47	1/4		1/4	
1/2	2,543.25	1/2	2,199.32	1/2	1,855.40	1/2	1,511.47	1/2	1,167.55	1/2	824.12	1/2	480.21	1/2	136.30	1/2		1/2	
3/4	2,536.08	3/4	2,192.16	3/4	1,848.23	3/4	1,504.31	3/4	1,160.38	3/4	816.96	3/4	473.05	3/4	129.14	3/4		3/4	
8	2,528.92	8	2,184.99	8	1,841.07	8	1,497.14	8	1,153.22	8	809.79	8	465.88	8	121.98	8		8	
1/4	2,521.75	1/4	2,177.83	1/4	1,833.90	1/4	1,489.98	1/4	1,146.05	1/4	802.63	1/4	458.72	1/4	114.82	1/4		1/4	
1/2	2,514.59	1/2	2,170.66	1/2	1,826.74	1/2	1,482.81	1/2	1,138.89	1/2	795.46	1/2	451.55	1/2	107.66	1/2		1/2	
3/4	2,507.42	3/4	2,163.50	3/4	1,819.57	3/4	1,475.65	3/4	1,131.72	3/4	788.30	3/4	444.39	3/4	100.50	3/4		3/4	
9	2,500.26	9	2,156.33	9	1,812.41	9	1,468.48	9	1,124.56	9	781.13	9	437.22	9	93.36	9		9	
1/4	2,493.09	1/4	2,149.17	1/4	1,805.24	1/4	1,461.32	1/4	1,117.40	1/4	773.97	1/4	430.06	1/4	86.22	1/4		1/4	
1/2	2,485.93	1/2	2,142.00	1/2	1,798.08	1/2	1,454.15	1/2	1,110.24	1/2	766.80	1/2	422.89	1/2	79.08	1/2		1/2	
3/4	2,478.76	3/4	2,134.84	3/4	1,790.91	3/4	1,446.99	3/4	1,103.07	3/4	759.64	3/4	415.73	3/4	71.94	3/4		3/4	
10	2,471.60	10	2,127.67	10	1,783.75	10	1,439.82	10	1,095.92	10	752.48	10	408.56	10	65.24	10		10	
1/4	2,464.43	1/4	2,120.51	1/4	1,776.58	1/4	1,432.66	1/4	1,088.76	1/4	745.31	1/4	401.40	1/4	58.54	1/4		1/4	
1/2	2,457.27	1/2	2,113.34	1/2	1,769.42	1/2	1,425.49	1/2	1,081.61	1/2	738.15	1/2	394.24	1/2	51.84	1/2		1/2	
3/4	2,450.10	3/4	2,106.18	3/4	1,762.25	3/4	1,418.33	3/4	1,074.45	3/4	730.98	3/4	387.07	3/4	45.15	3/4		3/4	
11	2,442.94	11	2,099.01	11	1,755.09	11	1,411.16	11	1,067.30	11	723.82	11	379.91	11	39.77	11		11	
1/4	2,435.77	1/4	2,091.85	1/4	1,747.92	1/4	1,404.00	1/4	1,060.15	1/4	716.65	1/4	372.74	1/4	34.40	1/4		1/4	
1/2	2,428.61	1/2	2,084.68	1/2	1,740.76	1/2	1,396.83	1/2	1,053.00	1/2	709.49	1/2	365.58	1/2	29.03	1/2		1/2	
3/4	2,421.44	3/4	2,077.52	3/4	1,733.59	3/4	1,389.67	3/4	1,045.85	3/4	702.32	3/4	358.41	3/4	23.66	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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BARGE "MPX 414"

3 PORT ULLAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,390.32	0	4,224.42	0	4,015.88	0	3,806.86	0	3,597.40	0	3,388.47	0	3,078.53
1/4		1/4		1/4		1/4	4,389.24	1/4	4,220.08	1/4	4,011.54	1/4	3,802.50	1/4	3,593.04	1/4	3,384.12	1/4	3,071.43
1/2		1/2		1/2		1/2	4,387.54	1/2	4,215.73	1/2	4,007.19	1/2	3,798.14	1/2	3,588.68	1/2	3,379.78	1/2	3,064.33
3/4		3/4		3/4		3/4	4,385.83	3/4	4,211.39	3/4	4,002.85	3/4	3,793.77	3/4	3,584.31	3/4	3,375.44	3/4	3,057.23
1		1		1		1	4,384.13	1	4,207.04	1	3,998.50	1	3,789.41	1	3,579.95	1	3,371.10	1	3,050.13
1/4		1/4		1/4		1/4	4,382.42	1/4	4,202.70	1/4	3,994.16	1/4	3,785.04	1/4	3,575.59	1/4	3,366.76	1/4	3,043.02
1/2		1/2		1/2		1/2	4,380.72	1/2	4,198.35	1/2	3,989.81	1/2	3,780.68	1/2	3,571.22	1/2	3,362.43	1/2	3,035.91
3/4		3/4		3/4		3/4	4,379.01	3/4	4,194.01	3/4	3,985.47	3/4	3,776.32	3/4	3,566.86	3/4	3,358.10	3/4	3,028.80
2		2		2		2	4,377.31	2	4,189.66	2	3,981.12	2	3,771.95	2	3,562.50	2	3,353.77	2	3,021.69
1/4		1/4		1/4		1/4	4,375.60	1/4	4,185.32	1/4	3,976.78	1/4	3,767.59	1/4	3,558.13	1/4	3,349.44	1/4	3,014.58
1/2		1/2		1/2		1/2	4,373.63	1/2	4,180.97	1/2	3,972.43	1/2	3,763.23	1/2	3,553.77	1/2	3,343.74	1/2	3,007.46
3/4		3/4		3/4		3/4	4,371.66	3/4	4,176.63	3/4	3,968.09	3/4	3,758.86	3/4	3,549.40	3/4	3,338.03	3/4	3,000.35
3		3		3		3	4,369.68	3	4,172.29	3	3,963.74	3	3,754.50	3	3,545.04	3	3,332.32	3	2,993.23
1/4		1/4		1/4		1/4	4,367.71	1/4	4,167.94	1/4	3,959.40	1/4	3,750.13	1/4	3,540.68	1/4	3,326.61	1/4	2,986.11
1/2		1/2		1/2		1/2	4,364.88	1/2	4,163.60	1/2	3,955.06	1/2	3,745.77	1/2	3,536.32	1/2	3,319.53	1/2	2,978.99
3/4		3/4		3/4		3/4	4,362.04	3/4	4,159.25	3/4	3,950.71	3/4	3,741.41	3/4	3,531.96	3/4	3,312.44	3/4	2,971.87
4		4		4		4	4,359.21	4	4,154.91	4	3,946.37	4	3,737.04	4	3,527.61	4	3,305.35	4	2,964.76
1/4		1/4		1/4		1/4	4,356.38	1/4	4,150.56	1/4	3,942.02	1/4	3,732.68	1/4	3,523.25	1/4	3,298.27	1/4	2,957.64
1/2		1/2		1/2		1/2	4,352.54	1/2	4,146.22	1/2	3,937.68	1/2	3,728.32	1/2	3,518.90	1/2	3,291.18	1/2	2,950.52
3/4		3/4		3/4		3/4	4,348.70	3/4	4,141.87	3/4	3,933.33	3/4	3,723.95	3/4	3,514.56	3/4	3,284.09	3/4	2,943.40
5		5		5		5	4,344.86	5	4,137.53	5	3,928.99	5	3,719.59	5	3,510.21	5	3,277.01	5	2,936.28
1/4		1/4		1/4		1/4	4,341.03	1/4	4,133.18	1/4	3,924.64	1/4	3,715.22	1/4	3,505.86	1/4	3,269.92	1/4	2,929.16
1/2		1/2		1/2		1/2	4,336.75	1/2	4,128.84	1/2	3,920.29	1/2	3,710.86	1/2	3,501.51	1/2	3,262.83	1/2	2,922.05
3/4		3/4		3/4		3/4	4,332.47	3/4	4,124.49	3/4	3,915.94	3/4	3,706.50	3/4	3,497.16	3/4	3,255.75	3/4	2,914.94
6		6		6		6	4,328.20	6	4,120.15	6	3,911.58	6	3,702.13	6	3,492.82	6	3,248.66	6	2,907.83
1/4		1/4		1/4		1/4	4,323.92	1/4	4,115.81	1/4	3,907.23	1/4	3,697.77	1/4	3,488.47	1/4	3,241.58	1/4	2,900.71
1/2		1/2		1/2		1/2	4,319.61	1/2	4,111.46	1/2	3,902.86	1/2	3,693.41	1/2	3,484.12	1/2	3,234.49	1/2	2,893.61
3/4		3/4		3/4		3/4	4,315.31	3/4	4,107.12	3/4	3,898.50	3/4	3,689.04	3/4	3,479.77	3/4	3,227.41	3/4	2,886.50
7		7		7		7	4,311.00	7	4,102.77	7	3,894.14	7	3,684.68	7	3,475.43	7	3,220.32	7	2,879.39
1/4		1/4		1/4		1/4	4,306.69	1/4	4,098.43	1/4	3,889.77	1/4	3,680.32	1/4	3,471.08	1/4	3,213.24	1/4	2,872.29
1/2		1/2		1/2		1/2	4,302.37	1/2	4,094.08	1/2	3,885.41	1/2	3,675.95	1/2	3,466.73	1/2	3,206.15	1/2	2,865.18
3/4		3/4		3/4		3/4	4,298.06	3/4	4,089.74	3/4	3,881.05	3/4	3,671.59	3/4	3,462.38	3/4	3,199.07	3/4	2,858.08
8		8		8		8	4,293.74	8	4,085.39	8	3,876.68	8	3,667.22	8	3,458.03	8	3,191.98	8	2,850.97
1/4		1/4		1/4		1/4	4,289.43	1/4	4,081.05	1/4	3,872.32	1/4	3,662.86	1/4	3,453.69	1/4	3,184.90	1/4	2,843.86
1/2		1/2		1/2		1/2	4,285.11	1/2	4,076.70	1/2	3,867.95	1/2	3,658.50	1/2	3,449.34	1/2	3,177.81	1/2	2,836.76
3/4		3/4		3/4		3/4	4,280.79	3/4	4,072.36	3/4	3,863.59	3/4	3,654.13	3/4	3,444.99	3/4	3,170.73	3/4	2,829.65
9		9		9		9	4,276.48	9	4,068.01	9	3,859.23	9	3,649.77	9	3,440.64	9	3,163.64	9	2,822.54
1/4		1/4		1/4		1/4	4,272.16	1/4	4,063.67	1/4	3,854.86	1/4	3,645.41	1/4	3,436.29	1/4	3,156.56	1/4	2,815.44
1/2		1/2		1/2		1/2	4,267.83	1/2	4,059.33	1/2	3,850.50	1/2	3,641.04	1/2	3,431.95	1/2	3,149.47	1/2	2,808.33
3/4		3/4		3/4		3/4	4,263.50	3/4	4,054.98	3/4	3,846.14	3/4	3,636.68	3/4	3,427.60	3/4	3,142.39	3/4	2,801.22
10		10		10		10	4,259.16	10	4,050.64	10	3,841.77	10	3,632.31	10	3,423.25	10	3,135.30	10	2,794.12
1/4		1/4		1/4		1/4	4,254.83	1/4	4,046.29	1/4	3,837.41	1/4	3,627.95	1/4	3,418.90	1/4	3,128.22	1/4	2,787.01
1/2		1/2		1/2		1/2	4,250.49	1/2	4,041.95	1/2	3,833.04	1/2	3,623.59	1/2	3,414.55	1/2	3,121.12	1/2	2,779.91
3/4		3/4		3/4		3/4	4,246.14	3/4	4,037.60	3/4	3,828.68	3/4	3,619.22	3/4	3,410.21	3/4	3,114.03	3/4	2,772.80
11		11		11		11	4,241.80	11	4,033.26	11	3,824.32	11	3,614.86	11	3,405.86	11	3,106.93	11	2,765.69
1/4		1/4		1/4		1/4	4,393.54	1/4	4,237.45	1/4	4,028.91	1/4	3,819.95	1/4	3,610.50	1/4	3,401.51	1/4	3,099.84
1/2		1/2		1/2		1/2	4,392.47	1/2	4,233.11	1/2	4,024.57	1/2	3,815.59	1/2	3,606.13	1/2	3,397.16	1/2	3,092.74
3/4		3/4		3/4		3/4	4,391.39	3/4	4,228.77	3/4	4,020.22	3/4	3,811.23	3/4	3,601.77	3/4	3,392.81	3/4	3,085.64

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "MPX 414"

3 PORT ULLAGE TABLE 10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 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	2,737.27	0	2,396.15	0	2,055.00	0	1,713.85	0	1,372.70	0	1,035.22	0	704.53	0	363.30	0	28.85	0	
1/4	2,730.16	1/4	2,389.04	1/4	2,047.89	1/4	1,706.74	1/4	1,365.59	1/4	1,028.42	1/4	697.42	1/4	356.18	1/4	23.51	1/4	
1/2	2,723.05	1/2	2,381.94	1/2	2,040.79	1/2	1,699.64	1/2	1,358.49	1/2	1,021.62	1/2	690.31	1/2	349.06	1/2	19.95	1/2	
3/4	2,715.95	3/4	2,374.83	3/4	2,033.68	3/4	1,692.53	3/4	1,351.38	3/4	1,014.83	3/4	683.20	3/4	341.94	3/4	16.39	3/4	
1	2,708.84	1	2,367.72	1	2,026.57	1	1,685.42	1	1,344.27	1	1,008.03	1	676.09	1	334.82	1	12.83	1	
1/4	2,701.73	1/4	2,360.61	1/4	2,019.46	1/4	1,678.31	1/4	1,337.16	1/4	1,001.23	1/4	668.98	1/4	327.70	1/4	9.27	1/4	
1/2	2,694.63	1/2	2,353.51	1/2	2,012.36	1/2	1,671.21	1/2	1,330.06	1/2	994.43	1/2	661.87	1/2	320.58	1/2	7.49	1/2	
3/4	2,687.52	3/4	2,346.40	3/4	2,005.25	3/4	1,664.10	3/4	1,322.95	3/4	987.63	3/4	654.77	3/4	313.46	3/4	5.71	3/4	
2	2,680.42	2	2,339.29	2	1,998.14	2	1,656.99	2	1,315.84	2	980.84	2	647.66	2	306.34	2	3.93	2	
1/4	2,673.31	1/4	2,332.19	1/4	1,991.03	1/4	1,649.88	1/4	1,308.73	1/4	974.04	1/4	640.55	1/4	299.22	1/4	2.15	1/4	
1/2	2,666.20	1/2	2,325.08	1/2	1,983.93	1/2	1,642.78	1/2	1,301.63	1/2	967.24	1/2	633.44	1/2	292.10	1/2		1/2	
3/4	2,659.10	3/4	2,317.97	3/4	1,976.82	3/4	1,635.67	3/4	1,294.52	3/4	960.44	3/4	626.33	3/4	284.98	3/4		3/4	
3	2,651.99	3	2,310.86	3	1,969.71	3	1,628.56	3	1,287.41	3	953.64	3	619.22	3	277.86	3		3	
1/4	2,644.88	1/4	2,303.76	1/4	1,962.61	1/4	1,621.46	1/4	1,280.30	1/4	946.84	1/4	612.11	1/4	270.74	1/4		1/4	
1/2	2,637.78	1/2	2,296.65	1/2	1,955.50	1/2	1,614.35	1/2	1,273.20	1/2	940.05	1/2	605.01	1/2	263.62	1/2		1/2	
3/4	2,630.67	3/4	2,289.54	3/4	1,948.39	3/4	1,607.24	3/4	1,266.09	3/4	933.25	3/4	597.90	3/4	256.50	3/4		3/4	
4	2,623.56	4	2,282.43	4	1,941.28	4	1,600.13	4	1,258.98	4	926.45	4	590.79	4	249.38	4		4	
1/4	2,616.46	1/4	2,275.33	1/4	1,934.18	1/4	1,593.03	1/4	1,251.88	1/4	919.65	1/4	583.68	1/4	242.26	1/4		1/4	
1/2	2,609.35	1/2	2,268.22	1/2	1,927.07	1/2	1,585.92	1/2	1,244.77	1/2	912.85	1/2	576.57	1/2	235.14	1/2		1/2	
3/4	2,602.25	3/4	2,261.11	3/4	1,919.96	3/4	1,578.81	3/4	1,237.66	3/4	906.05	3/4	569.46	3/4	228.02	3/4		3/4	
5	2,595.14	5	2,254.00	5	1,912.85	5	1,571.70	5	1,230.55	5	899.26	5	562.35	5	220.90	5		5	
1/4	2,588.03	1/4	2,246.90	1/4	1,905.75	1/4	1,564.60	1/4	1,223.45	1/4	892.46	1/4	555.25	1/4	213.78	1/4		1/4	
1/2	2,580.93	1/2	2,239.79	1/2	1,898.64	1/2	1,557.49	1/2	1,216.34	1/2	885.66	1/2	548.14	1/2	206.66	1/2		1/2	
3/4	2,573.82	3/4	2,232.68	3/4	1,891.53	3/4	1,550.38	3/4	1,209.23	3/4	878.86	3/4	541.03	3/4	199.54	3/4		3/4	
6	2,566.71	6	2,225.58	6	1,884.43	6	1,543.27	6	1,202.12	6	872.06	6	533.92	6	192.42	6		6	
1/4	2,559.61	1/4	2,218.47	1/4	1,877.32	1/4	1,536.17	1/4	1,195.02	1/4	865.27	1/4	526.81	1/4	185.30	1/4		1/4	
1/2	2,552.50	1/2	2,211.36	1/2	1,870.21	1/2	1,529.06	1/2	1,187.91	1/2	858.46	1/2	519.70	1/2	178.18	1/2		1/2	
3/4	2,545.39	3/4	2,204.25	3/4	1,863.10	3/4	1,521.95	3/4	1,180.80	3/4	851.66	3/4	512.59	3/4	171.06	3/4		3/4	
7	2,538.29	7	2,197.15	7	1,856.00	7	1,514.85	7	1,173.70	7	844.86	7	505.48	7	163.94	7		7	
1/4	2,531.18	1/4	2,190.04	1/4	1,848.89	1/4	1,507.74	1/4	1,166.59	1/4	838.06	1/4	498.38	1/4	156.82	1/4		1/4	
1/2	2,524.07	1/2	2,182.93	1/2	1,841.78	1/2	1,500.63	1/2	1,159.48	1/2	831.22	1/2	491.27	1/2	149.70	1/2		1/2	
3/4	2,516.97	3/4	2,175.82	3/4	1,834.67	3/4	1,493.52	3/4	1,152.37	3/4	824.37	3/4	484.16	3/4	142.58	3/4		3/4	
8	2,509.86	8	2,168.72	8	1,827.57	8	1,486.42	8	1,145.27	8	817.53	8	477.05	8	135.46	8		8	
1/4	2,502.76	1/4	2,161.61	1/4	1,820.46	1/4	1,479.31	1/4	1,138.16	1/4	810.69	1/4	469.94	1/4	128.34	1/4		1/4	
1/2	2,495.65	1/2	2,154.50	1/2	1,813.35	1/2	1,472.20	1/2	1,131.17	1/2	803.70	1/2	462.83	1/2	121.22	1/2		1/2	
3/4	2,488.54	3/4	2,147.40	3/4	1,806.24	3/4	1,465.09	3/4	1,124.17	3/4	796.71	3/4	455.72	3/4	114.11	3/4		3/4	
9	2,481.44	9	2,140.29	9	1,799.14	9	1,457.99	9	1,117.18	9	789.71	9	448.62	9	106.99	9		9	
1/4	2,474.33	1/4	2,133.18	1/4	1,792.03	1/4	1,450.88	1/4	1,110.19	1/4	782.72	1/4	441.51	1/4	99.88	1/4		1/4	
1/2	2,467.22	1/2	2,126.07	1/2	1,784.92	1/2	1,443.77	1/2	1,103.35	1/2	775.61	1/2	434.40	1/2	92.78	1/2		1/2	
3/4	2,460.12	3/4	2,118.97	3/4	1,777.82	3/4	1,436.67	3/4	1,096.51	3/4	768.50	3/4	427.29	3/4	85.69	3/4		3/4	
10	2,453.01	10	2,111.86	10	1,770.71	10	1,429.56	10	1,089.67	10	761.39	10	420.18	10	78.59	10		10	
1/4	2,445.90	1/4	2,104.75	1/4	1,763.60	1/4	1,422.45	1/4	1,082.83	1/4	754.29	1/4	413.07	1/4	71.49	1/4		1/4	
1/2	2,438.79	1/2	2,097.64	1/2	1,756.49	1/2	1,415.34	1/2	1,076.02	1/2	747.18	1/2	405.96	1/2	64.84	1/2		1/2	
3/4	2,431.69	3/4	2,090.54	3/4	1,749.39	3/4	1,408.24	3/4	1,069.22	3/4	740.07	3/4	398.86	3/4	58.18	3/4		3/4	
11	2,424.58	11	2,083.43	11	1,742.28	11	1,401.13	11	1,062.42	11	732.96	11	391.75	11	51.52	11		11	
1/4	2,417.47	1/4	2,076.32	1/4	1,735.17	1/4	1,394.02	1/4	1,055.62	1/4	725.85	1/4	384.64	1/4	44.87	1/4		1/4	
1/2	2,410.37	1/2	2,069.22	1/2	1,728.06	1/2	1,386.91	1/2	1,048.82	1/2	718.74	1/2	377.52	1/2	39.53	1/2		1/2	
3/4	2,403.26	3/4	2,062.11	3/4	1,720.96	3/4	1,379.81	3/4	1,042.02	3/4	711.63	3/4	370.41	3/4	34.19	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

3 STBD ULLAGE TABLE

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

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,412.47	0	4,246.31	0	4,037.45	0	3,828.11	0	3,618.33	0	3,408.55	0	3,098.32
1/4		1/4		1/4		1/4	4,411.40	1/4	4,241.96	1/4	4,033.10	1/4	3,823.74	1/4	3,613.96	1/4	3,404.18	1/4	3,091.22
1/2		1/2		1/2		1/2	4,409.69	1/2	4,237.61	1/2	4,028.75	1/2	3,819.37	1/2	3,609.59	1/2	3,399.83	1/2	3,084.11
3/4		3/4		3/4		3/4	4,407.98	3/4	4,233.26	3/4	4,024.40	3/4	3,815.00	3/4	3,605.22	3/4	3,395.48	3/4	3,077.00
1		1		1		1	4,406.27	1	4,228.91	1	4,020.04	1	3,810.63	1	3,600.85	1	3,391.13	1	3,069.89
1/4		1/4		1/4		1/4	4,404.57	1/4	4,224.56	1/4	4,015.69	1/4	3,806.26	1/4	3,596.48	1/4	3,386.77	1/4	3,062.78
1/2		1/2		1/2		1/2	4,402.86	1/2	4,220.20	1/2	4,011.34	1/2	3,801.89	1/2	3,592.11	1/2	3,382.44	1/2	3,055.68
3/4		3/4		3/4		3/4	4,401.15	3/4	4,215.85	3/4	4,006.99	3/4	3,797.52	3/4	3,587.74	3/4	3,378.10	3/4	3,048.57
2		2		2		2	4,399.44	2	4,211.50	2	4,002.64	2	3,793.15	2	3,583.37	2	3,373.77	2	3,041.46
1/4		1/4		1/4		1/4	4,397.74	1/4	4,207.15	1/4	3,998.29	1/4	3,788.78	1/4	3,579.00	1/4	3,369.43	1/4	3,034.35
1/2		1/2		1/2		1/2	4,395.76	1/2	4,202.80	1/2	3,993.94	1/2	3,784.41	1/2	3,574.63	1/2	3,363.72	1/2	3,027.24
3/4		3/4		3/4		3/4	4,393.78	3/4	4,198.45	3/4	3,989.59	3/4	3,780.04	3/4	3,570.26	3/4	3,358.01	3/4	3,020.14
3		3		3		3	4,391.81	3	4,194.10	3	3,985.23	3	3,775.67	3	3,565.89	3	3,352.30	3	3,013.03
1/4		1/4		1/4		1/4	4,389.83	1/4	4,189.75	1/4	3,980.88	1/4	3,771.30	1/4	3,561.52	1/4	3,346.58	1/4	3,005.92
1/2		1/2		1/2		1/2	4,386.99	1/2	4,185.39	1/2	3,976.53	1/2	3,766.93	1/2	3,557.15	1/2	3,339.49	1/2	2,998.81
3/4		3/4		3/4		3/4	4,384.15	3/4	4,181.04	3/4	3,972.18	3/4	3,762.56	3/4	3,552.78	3/4	3,332.40	3/4	2,991.70
4		4		4		4	4,381.31	4	4,176.69	4	3,967.83	4	3,758.19	4	3,548.41	4	3,325.31	4	2,984.60
1/4		1/4		1/4		1/4	4,378.47	1/4	4,172.34	1/4	3,963.48	1/4	3,753.82	1/4	3,544.04	1/4	3,318.22	1/4	2,977.49
1/2		1/2		1/2		1/2	4,374.63	1/2	4,167.99	1/2	3,959.13	1/2	3,749.45	1/2	3,539.67	1/2	3,311.13	1/2	2,970.38
3/4		3/4		3/4		3/4	4,370.79	3/4	4,163.64	3/4	3,954.78	3/4	3,745.07	3/4	3,535.30	3/4	3,304.04	3/4	2,963.27
5		5		5		5	4,366.94	5	4,159.29	5	3,950.42	5	3,740.70	5	3,530.93	5	3,296.95	5	2,956.16
1/4		1/4		1/4		1/4	4,363.10	1/4	4,154.94	1/4	3,946.07	1/4	3,736.33	1/4	3,526.55	1/4	3,289.86	1/4	2,949.06
1/2		1/2		1/2		1/2	4,358.81	1/2	4,150.58	1/2	3,941.71	1/2	3,731.96	1/2	3,522.18	1/2	3,282.77	1/2	2,941.95
3/4		3/4		3/4		3/4	4,354.53	3/4	4,146.23	3/4	3,937.35	3/4	3,727.59	3/4	3,517.81	3/4	3,275.68	3/4	2,934.84
6		6		6		6	4,350.25	6	4,141.88	6	3,932.99	6	3,723.22	6	3,513.44	6	3,268.59	6	2,927.73
1/4		1/4		1/4		1/4	4,345.97	1/4	4,137.53	1/4	3,928.63	1/4	3,718.85	1/4	3,509.07	1/4	3,261.50	1/4	2,920.62
1/2		1/2		1/2		1/2	4,341.65	1/2	4,133.18	1/2	3,924.26	1/2	3,714.48	1/2	3,504.70	1/2	3,254.40	1/2	2,913.52
3/4		3/4		3/4		3/4	4,337.34	3/4	4,128.83	3/4	3,919.89	3/4	3,710.11	3/4	3,500.33	3/4	3,247.31	3/4	2,906.41
7		7		7		7	4,333.02	7	4,124.48	7	3,915.52	7	3,705.74	7	3,495.96	7	3,240.22	7	2,899.30
1/4		1/4		1/4		1/4	4,328.71	1/4	4,120.12	1/4	3,911.15	1/4	3,701.37	1/4	3,491.59	1/4	3,233.13	1/4	2,892.19
1/2		1/2		1/2		1/2	4,324.39	1/2	4,115.77	1/2	3,906.78	1/2	3,697.00	1/2	3,487.22	1/2	3,226.04	1/2	2,885.08
3/4		3/4		3/4		3/4	4,320.06	3/4	4,111.42	3/4	3,902.41	3/4	3,692.63	3/4	3,482.85	3/4	3,218.95	3/4	2,877.98
8		8		8		8	4,315.74	8	4,107.07	8	3,898.04	8	3,688.26	8	3,478.48	8	3,211.86	8	2,870.87
1/4		1/4		1/4		1/4	4,311.42	1/4	4,102.72	1/4	3,893.67	1/4	3,683.89	1/4	3,474.11	1/4	3,204.77	1/4	2,863.76
1/2		1/2		1/2		1/2	4,307.10	1/2	4,098.37	1/2	3,889.30	1/2	3,679.52	1/2	3,469.74	1/2	3,197.68	1/2	2,856.65
3/4		3/4		3/4		3/4	4,302.77	3/4	4,094.02	3/4	3,884.93	3/4	3,675.15	3/4	3,465.37	3/4	3,190.59	3/4	2,849.54
9		9		9		9	4,298.45	9	4,089.67	9	3,880.56	9	3,670.78	9	3,461.00	9	3,183.50	9	2,842.44
1/4		1/4		1/4		1/4	4,294.12	1/4	4,085.31	1/4	3,876.19	1/4	3,666.41	1/4	3,456.63	1/4	3,176.41	1/4	2,835.33
1/2		1/2		1/2		1/2	4,289.79	1/2	4,080.96	1/2	3,871.82	1/2	3,662.04	1/2	3,452.26	1/2	3,169.32	1/2	2,828.22
3/4		3/4		3/4		3/4	4,285.45	3/4	4,076.61	3/4	3,867.45	3/4	3,657.67	3/4	3,447.89	3/4	3,162.23	3/4	2,821.11
10		10		10		10	4,281.11	10	4,072.26	10	3,863.08	10	3,653.30	10	3,443.52	10	3,155.13	10	2,814.00
1/4		1/4		1/4		1/4	4,276.77	1/4	4,067.91	1/4	3,858.71	1/4	3,648.93	1/4	3,439.15	1/4	3,148.04	1/4	2,806.90
1/2		1/2		1/2		1/2	4,272.42	1/2	4,063.56	1/2	3,854.33	1/2	3,644.56	1/2	3,434.78	1/2	3,140.95	1/2	2,799.79
3/4		3/4		3/4		3/4	4,268.07	3/4	4,059.21	3/4	3,849.96	3/4	3,640.19	3/4	3,430.41	3/4	3,133.85	3/4	2,792.68
11		11		11		11	4,263.72	11	4,054.86	11	3,845.59	11	3,635.81	11	3,426.04	11	3,126.75	11	2,785.57
1/4		1/4		1/4	4,415.70	1/4	4,259.37	1/4	4,050.50	1/4	3,841.22	1/4	3,631.44	1/4	3,421.67	1/4	3,119.65	1/4	2,778.46
1/2		1/2		1/2	4,414.62	1/2	4,255.02	1/2	4,046.15	1/2	3,836.85	1/2	3,627.07	1/2	3,417.29	1/2	3,112.54	1/2	2,771.36
3/4		3/4		3/4	4,413.55	3/4	4,250.66	3/4	4,041.80	3/4	3,832.48	3/4	3,622.70	3/4	3,412.92	3/4	3,105.43	3/4	2,764.25

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

3 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,757.14	0	2,415.40	0	2,073.35	0	1,731.30	0	1,389.24	0	1,047.28	0	705.63	0	363.59	0	28.87	0	
1/4	2,750.03	1/4	2,408.28	1/4	2,066.22	1/4	1,724.17	1/4	1,382.12	1/4	1,040.17	1/4	698.51	1/4	356.46	1/4	23.52	1/4	
1/2	2,742.92	1/2	2,401.15	1/2	2,059.10	1/2	1,717.04	1/2	1,374.99	1/2	1,033.06	1/2	691.38	1/2	349.34	1/2	19.96	1/2	
3/4	2,735.82	3/4	2,394.02	3/4	2,051.97	3/4	1,709.92	3/4	1,367.87	3/4	1,025.95	3/4	684.26	3/4	342.21	3/4	16.40	3/4	
1	2,728.71	1	2,386.90	1	2,044.85	1	1,702.79	1	1,360.74	1	1,018.83	1	677.13	1	335.09	1	12.84	1	
1/4	2,721.60	1/4	2,379.77	1/4	2,037.72	1/4	1,695.67	1/4	1,353.61	1/4	1,011.72	1/4	670.00	1/4	327.96	1/4	9.27	1/4	
1/2	2,714.49	1/2	2,372.65	1/2	2,030.59	1/2	1,688.54	1/2	1,346.49	1/2	1,004.61	1/2	662.88	1/2	320.83	1/2	7.49	1/2	
3/4	2,707.38	3/4	2,365.52	3/4	2,023.47	3/4	1,681.41	3/4	1,339.36	3/4	997.50	3/4	655.75	3/4	313.71	3/4	5.71	3/4	
2	2,700.28	2	2,358.39	2	2,016.34	2	1,674.29	2	1,332.24	2	990.39	2	648.63	2	306.58	2	3.93	2	
1/4	2,693.17	1/4	2,351.27	1/4	2,009.21	1/4	1,667.16	1/4	1,325.11	1/4	983.27	1/4	641.50	1/4	299.46	1/4	2.15	1/4	
1/2	2,686.06	1/2	2,344.14	1/2	2,002.09	1/2	1,660.04	1/2	1,317.98	1/2	976.16	1/2	634.37	1/2	292.33	1/2		1/2	
3/4	2,678.95	3/4	2,337.02	3/4	1,994.96	3/4	1,652.91	3/4	1,310.86	3/4	969.05	3/4	627.25	3/4	285.20	3/4		3/4	
3	2,671.84	3	2,329.89	3	1,987.84	3	1,645.78	3	1,303.73	3	961.94	3	620.12	3	278.08	3		3	
1/4	2,664.74	1/4	2,322.76	1/4	1,980.71	1/4	1,638.66	1/4	1,296.60	1/4	954.83	1/4	613.00	1/4	270.95	1/4		1/4	
1/2	2,657.63	1/2	2,315.64	1/2	1,973.58	1/2	1,631.53	1/2	1,289.48	1/2	947.71	1/2	605.87	1/2	263.83	1/2		1/2	
3/4	2,650.52	3/4	2,308.51	3/4	1,966.46	3/4	1,624.41	3/4	1,282.35	3/4	940.60	3/4	598.74	3/4	256.70	3/4		3/4	
4	2,643.41	4	2,301.38	4	1,959.33	4	1,617.28	4	1,275.23	4	933.49	4	591.62	4	249.58	4		4	
1/4	2,636.30	1/4	2,294.26	1/4	1,952.21	1/4	1,610.15	1/4	1,268.10	1/4	926.38	1/4	584.49	1/4	242.45	1/4		1/4	
1/2	2,629.19	1/2	2,287.13	1/2	1,945.08	1/2	1,603.03	1/2	1,260.97	1/2	919.27	1/2	577.37	1/2	235.32	1/2		1/2	
3/4	2,622.07	3/4	2,280.01	3/4	1,937.95	3/4	1,595.90	3/4	1,253.85	3/4	912.15	3/4	570.24	3/4	228.20	3/4		3/4	
5	2,614.95	5	2,272.88	5	1,930.83	5	1,588.77	5	1,246.72	5	905.04	5	563.11	5	221.07	5		5	
1/4	2,607.84	1/4	2,265.75	1/4	1,923.70	1/4	1,581.65	1/4	1,239.60	1/4	897.93	1/4	555.99	1/4	213.95	1/4		1/4	
1/2	2,600.71	1/2	2,258.63	1/2	1,916.58	1/2	1,574.52	1/2	1,232.47	1/2	890.82	1/2	548.86	1/2	206.82	1/2		1/2	
3/4	2,593.58	3/4	2,251.50	3/4	1,909.45	3/4	1,567.40	3/4	1,225.34	3/4	883.71	3/4	541.74	3/4	199.69	3/4		3/4	
6	2,586.45	6	2,244.38	6	1,902.32	6	1,560.27	6	1,218.22	6	876.59	6	534.61	6	192.57	6		6	
1/4	2,579.33	1/4	2,237.25	1/4	1,895.20	1/4	1,553.14	1/4	1,211.09	1/4	869.48	1/4	527.49	1/4	185.44	1/4		1/4	
1/2	2,572.20	1/2	2,230.12	1/2	1,888.07	1/2	1,546.02	1/2	1,203.97	1/2	862.37	1/2	520.36	1/2	178.32	1/2		1/2	
3/4	2,565.07	3/4	2,223.00	3/4	1,880.95	3/4	1,538.89	3/4	1,196.84	3/4	855.25	3/4	513.23	3/4	171.19	3/4		3/4	
7	2,557.95	7	2,215.87	7	1,873.82	7	1,531.77	7	1,189.71	7	848.13	7	506.11	7	164.06	7		7	
1/4	2,550.82	1/4	2,208.75	1/4	1,866.69	1/4	1,524.64	1/4	1,182.59	1/4	841.02	1/4	498.98	1/4	156.94	1/4		1/4	
1/2	2,543.69	1/2	2,201.62	1/2	1,859.57	1/2	1,517.51	1/2	1,175.46	1/2	833.89	1/2	491.86	1/2	149.81	1/2		1/2	
3/4	2,536.56	3/4	2,194.49	3/4	1,852.44	3/4	1,510.39	3/4	1,168.34	3/4	826.77	3/4	484.73	3/4	142.69	3/4		3/4	
8	2,529.44	8	2,187.37	8	1,845.31	8	1,503.26	8	1,161.21	8	819.65	8	477.60	8	135.56	8		8	
1/4	2,522.31	1/4	2,180.24	1/4	1,838.19	1/4	1,496.14	1/4	1,154.08	1/4	812.52	1/4	470.48	1/4	128.44	1/4		1/4	
1/2	2,515.18	1/2	2,173.12	1/2	1,831.06	1/2	1,489.01	1/2	1,146.96	1/2	805.40	1/2	463.35	1/2	121.32	1/2		1/2	
3/4	2,508.05	3/4	2,165.99	3/4	1,823.94	3/4	1,481.88	3/4	1,139.83	3/4	798.27	3/4	456.23	3/4	114.20	3/4		3/4	
9	2,500.92	9	2,158.86	9	1,816.81	9	1,474.76	9	1,132.70	9	791.14	9	449.10	9	107.08	9		9	
1/4	2,493.79	1/4	2,151.74	1/4	1,809.68	1/4	1,467.63	1/4	1,125.58	1/4	784.02	1/4	441.97	1/4	99.96	1/4		1/4	
1/2	2,486.66	1/2	2,144.61	1/2	1,802.56	1/2	1,460.51	1/2	1,118.46	1/2	776.89	1/2	434.85	1/2	92.85	1/2		1/2	
3/4	2,479.54	3/4	2,137.48	3/4	1,795.43	3/4	1,453.38	3/4	1,111.33	3/4	769.77	3/4	427.72	3/4	85.75	3/4		3/4	
10	2,472.41	10	2,130.36	10	1,788.31	10	1,446.25	10	1,104.21	10	762.64	10	420.60	10	78.65	10		10	
1/4	2,465.29	1/4	2,123.23	1/4	1,781.18	1/4	1,439.13	1/4	1,097.09	1/4	755.51	1/4	413.47	1/4	71.55	1/4		1/4	
1/2	2,458.16	1/2	2,116.11	1/2	1,774.05	1/2	1,432.00	1/2	1,089.97	1/2	748.39	1/2	406.34	1/2	64.44	1/2		1/2	
3/4	2,451.03	3/4	2,108.98	3/4	1,766.93	3/4	1,424.87	3/4	1,082.85	3/4	741.26	3/4	399.22	3/4	57.32	3/4		3/4	
11	2,443.91	11	2,101.85	11	1,759.80	11	1,417.75	11	1,075.74	11	734.14	11	392.09	11	50.20	11		11	
1/4	2,436.78	1/4	2,094.73	1/4	1,752.68	1/4	1,410.62	1/4	1,068.62	1/4	727.01	1/4	384.97	1/4	43.08	1/4		1/4	
1/2	2,429.65	1/2	2,087.60	1/2	1,745.55	1/2	1,403.50	1/2	1,061.51	1/2	719.88	1/2	377.84	1/2	35.96	1/2		1/2	
3/4	2,422.53	3/4	2,080.48	3/4	1,738.42	3/4	1,396.37	3/4	1,054.40	3/4	712.76	3/4	370.72	3/4	28.84	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021



BARGE "MPX 414"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-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.
0	0	0	1,107	0	2,213	0	3,320	0	4,426	0	5,533	0		0		0		0	
1/4	23	1/4	1,130	1/4	2,236	1/4	3,343	1/4	4,449	1/4	5,556	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,153	1/2	2,259	1/2	3,366	1/2	4,472	1/2	5,579	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,176	3/4	2,282	3/4	3,389	3/4	4,495	3/4	5,602	3/4		3/4		3/4		3/4	
1	92	1	1,199	1	2,305	1	3,412	1	4,518	1	5,625	1		1		1		1	
1/4	115	1/4	1,222	1/4	2,328	1/4	3,435	1/4	4,541	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,245	1/2	2,351	1/2	3,458	1/2	4,564	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,268	3/4	2,374	3/4	3,481	3/4	4,587	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,291	2	2,397	2	3,504	2	4,610	2		2		2		2		2	
1/4	207	1/4	1,314	1/4	2,421	1/4	3,527	1/4	4,634	1/4		1/4		1/4		1/4		1/4	
1/2	231	1/2	1,337	1/2	2,444	1/2	3,550	1/2	4,657	1/2		1/2		1/2		1/2		1/2	
3/4	254	3/4	1,360	3/4	2,467	3/4	3,573	3/4	4,680	3/4		3/4		3/4		3/4		3/4	
3	277	3	1,383	3	2,490	3	3,596	3	4,703	3		3		3		3		3	
1/4	300	1/4	1,406	1/4	2,513	1/4	3,619	1/4	4,726	1/4		1/4		1/4		1/4		1/4	
1/2	323	1/2	1,429	1/2	2,536	1/2	3,642	1/2	4,749	1/2		1/2		1/2		1/2		1/2	
3/4	346	3/4	1,452	3/4	2,559	3/4	3,665	3/4	4,772	3/4		3/4		3/4		3/4		3/4	
4	369	4	1,475	4	2,582	4	3,688	4	4,795	4		4		4		4		4	
1/4	392	1/4	1,498	1/4	2,605	1/4	3,711	1/4	4,818	1/4		1/4		1/4		1/4		1/4	
1/2	415	1/2	1,521	1/2	2,628	1/2	3,734	1/2	4,841	1/2		1/2		1/2		1/2		1/2	
3/4	438	3/4	1,545	3/4	2,651	3/4	3,758	3/4	4,864	3/4		3/4		3/4		3/4		3/4	
5	461	5	1,568	5	2,674	5	3,781	5	4,887	5		5		5		5		5	
1/4	484	1/4	1,591	1/4	2,697	1/4	3,804	1/4	4,910	1/4		1/4		1/4		1/4		1/4	
1/2	507	1/2	1,614	1/2	2,720	1/2	3,827	1/2	4,933	1/2		1/2		1/2		1/2		1/2	
3/4	530	3/4	1,637	3/4	2,743	3/4	3,850	3/4	4,956	3/4		3/4		3/4		3/4		3/4	
6	553	6	1,660	6	2,766	6	3,873	6	4,979	6		6		6		6		6	
1/4	576	1/4	1,683	1/4	2,789	1/4	3,896	1/4	5,002	1/4		1/4		1/4		1/4		1/4	
1/2	599	1/2	1,706	1/2	2,812	1/2	3,919	1/2	5,025	1/2		1/2		1/2		1/2		1/2	
3/4	622	3/4	1,729	3/4	2,835	3/4	3,942	3/4	5,048	3/4		3/4		3/4		3/4		3/4	
7	645	7	1,752	7	2,858	7	3,965	7	5,072	7		7		7		7		7	
1/4	669	1/4	1,775	1/4	2,882	1/4	3,988	1/4	5,095	1/4		1/4		1/4		1/4		1/4	
1/2	692	1/2	1,798	1/2	2,905	1/2	4,011	1/2	5,118	1/2		1/2		1/2		1/2		1/2	
3/4	715	3/4	1,821	3/4	2,928	3/4	4,034	3/4	5,141	3/4		3/4		3/4		3/4		3/4	
8	738	8	1,844	8	2,951	8	4,057	8	5,164	8		8		8		8		8	
1/4	761	1/4	1,867	1/4	2,974	1/4	4,080	1/4	5,187	1/4		1/4		1/4		1/4		1/4	
1/2	784	1/2	1,890	1/2	2,997	1/2	4,103	1/2	5,210	1/2		1/2		1/2		1/2		1/2	
3/4	807	3/4	1,913	3/4	3,020	3/4	4,126	3/4	5,233	3/4		3/4		3/4		3/4		3/4	
9	830	9	1,936	9	3,043	9	4,149	9	5,256	9		9		9		9		9	
1/4	853	1/4	1,959	1/4	3,066	1/4	4,172	1/4	5,279	1/4		1/4		1/4		1/4		1/4	
1/2	876	1/2	1,983	1/2	3,089	1/2	4,196	1/2	5,302	1/2		1/2		1/2		1/2		1/2	
3/4	899	3/4	2,006	3/4	3,112	3/4	4,219	3/4	5,325	3/4		3/4		3/4		3/4		3/4	
10	922	10	2,029	10	3,135	10	4,242	10	5,348	10		10		10		10		10	
1/4	945	1/4	2,052	1/4	3,158	1/4	4,265	1/4	5,371	1/4		1/4		1/4		1/4		1/4	
1/2	968	1/2	2,075	1/2	3,181	1/2	4,288	1/2	5,394	1/2		1/2		1/2		1/2		1/2	
3/4	991	3/4	2,098	3/4	3,204	3/4	4,311	3/4	5,417	3/4		3/4		3/4		3/4		3/4	
11	1,014	11	2,121	11	3,227	11	4,334	11	5,440	11		11		11		11		11	
1/4	1,037	1/4	2,144	1/4	3,250	1/4	4,357	1/4	5,463	1/4		1/4		1/4		1/4		1/4	
1/2	1,060	1/2	2,167	1/2	3,273	1/2	4,380	1/2	5,486	1/2		1/2		1/2		1/2		1/2	
3/4	1,083	3/4	2,190	3/4	3,296	3/4	4,403	3/4	5,510	3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 02/03/2021 JS
 CALCULATED: 02/04/2021 CL
 PRINTED: 02/04/2021 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 2/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
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BARGE "MPX 414"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,103	0	2,207	0	3,310	0	4,414	0	5,517	0		0		0		0	
1/4	23	1/4	1,126	1/4	2,230	1/4	3,333	1/4	4,437	1/4	5,540	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46	1/2	1,149	1/2	2,253	1/2	3,356	1/2	4,460	1/2	5,563	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69	3/4	1,172	3/4	2,276	3/4	3,379	3/4	4,483	3/4	5,586	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	92	1	1,195	1	2,299	1	3,402	1	4,506	1	5,609	1	1	1	1	1	1	1	1
1/4	115	1/4	1,218	1/4	2,322	1/4	3,425	1/4	4,529	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	138	1/2	1,241	1/2	2,345	1/2	3,448	1/2	4,552	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161	3/4	1,264	3/4	2,368	3/4	3,471	3/4	4,575	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	184	2	1,287	2	2,391	2	3,494	2	4,598	2	2	2	2	2	2	2	2	2	2
1/4	207	1/4	1,310	1/4	2,414	1/4	3,517	1/4	4,621	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	230	1/2	1,333	1/2	2,437	1/2	3,540	1/2	4,644	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	253	3/4	1,356	3/4	2,460	3/4	3,563	3/4	4,667	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	276	3	1,379	3	2,483	3	3,586	3	4,690	3	3	3	3	3	3	3	3	3	3
1/4	299	1/4	1,402	1/4	2,506	1/4	3,609	1/4	4,713	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	322	1/2	1,425	1/2	2,529	1/2	3,632	1/2	4,736	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	345	3/4	1,448	3/4	2,552	3/4	3,655	3/4	4,759	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	368	4	1,471	4	2,575	4	3,678	4	4,782	4	4	4	4	4	4	4	4	4	4
1/4	391	1/4	1,494	1/4	2,598	1/4	3,701	1/4	4,805	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	414	1/2	1,517	1/2	2,621	1/2	3,724	1/2	4,828	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	437	3/4	1,540	3/4	2,644	3/4	3,747	3/4	4,851	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	460	5	1,563	5	2,667	5	3,770	5	4,873	5	5	5	5	5	5	5	5	5	5
1/4	483	1/4	1,586	1/4	2,690	1/4	3,793	1/4	4,896	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	506	1/2	1,609	1/2	2,713	1/2	3,816	1/2	4,919	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	529	3/4	1,632	3/4	2,736	3/4	3,839	3/4	4,942	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	552	6	1,655	6	2,759	6	3,862	6	4,965	6	6	6	6	6	6	6	6	6	6
1/4	575	1/4	1,678	1/4	2,782	1/4	3,885	1/4	4,988	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	598	1/2	1,701	1/2	2,805	1/2	3,908	1/2	5,011	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	621	3/4	1,724	3/4	2,828	3/4	3,931	3/4	5,034	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	644	7	1,747	7	2,851	7	3,954	7	5,057	7	7	7	7	7	7	7	7	7	7
1/4	667	1/4	1,770	1/4	2,874	1/4	3,977	1/4	5,080	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	690	1/2	1,793	1/2	2,897	1/2	4,000	1/2	5,103	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	713	3/4	1,816	3/4	2,920	3/4	4,023	3/4	5,126	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	736	8	1,839	8	2,942	8	4,046	8	5,149	8	8	8	8	8	8	8	8	8	8
1/4	759	1/4	1,862	1/4	2,965	1/4	4,069	1/4	5,172	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	782	1/2	1,885	1/2	2,988	1/2	4,092	1/2	5,195	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	805	3/4	1,908	3/4	3,011	3/4	4,115	3/4	5,218	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	828	9	1,931	9	3,034	9	4,138	9	5,241	9	9	9	9	9	9	9	9	9	9
1/4	851	1/4	1,954	1/4	3,057	1/4	4,161	1/4	5,264	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	874	1/2	1,977	1/2	3,080	1/2	4,184	1/2	5,287	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	897	3/4	2,000	3/4	3,103	3/4	4,207	3/4	5,310	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	920	10	2,023	10	3,126	10	4,230	10	5,333	10	10	10	10	10	10	10	10	10	10
1/4	943	1/4	2,046	1/4	3,149	1/4	4,253	1/4	5,356	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	966	1/2	2,069	1/2	3,172	1/2	4,276	1/2	5,379	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	988	3/4	2,092	3/4	3,195	3/4	4,299	3/4	5,402	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,011	11	2,115	11	3,218	11	4,322	11	5,425	11	11	11	11	11	11	11	11	11	11
1/4	1,034	1/4	2,138	1/4	3,241	1/4	4,345	1/4	5,448	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,057	1/2	2,161	1/2	3,264	1/2	4,368	1/2	5,471	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,080	3/4	2,184	3/4	3,287	3/4	4,391	3/4	5,494	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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

STRAPPED: 02/03/2021 JS
 CALCULATED: 02/04/2021 CL
 PRINTED: 02/04/2021 SW

CANCELS AND SUPERCEDES
 ALL PRIOR TO 02/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MPX 414"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06"

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

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

STRAPPED: 02/03/2021 JS
CALCULATED: 02/04/2021 CL
PRINTED: 02/04/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 2/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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