BARGE "MPX 419"

INNAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT	=	2'-00"	
AFT DRAFT	=	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"

May 26, 2021

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

http://www.pmacorp.net

BARGE "MPX 419"

1 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	14.65	0	290.92	0	625.54	0	966.58	0	1,308.59	0	1,651.44	0	1,994.28	0	2,337.13	0	2,679.97	0	3,022.77
1/4	17.57	1/4	297.52	1/4	632.68	1/4	973.66	1/4	1,315.74	1/4	1,658.58	1/4	2,001.42	1/4	2,344.27	1/4	2,687.11	1/4	3,029.91
1/2	20.49	1/2	304.12	1/2	639.82	1/2	980.74	1/2	1,322.88	1/2	1,665.72	1/2	2,008.57	1/2	2,351.41	1/2	2,694.25	1/2	3,037.05
3/4	23.41	3/4	310.72	3/4	646.96	3/4	987.82	3/4	1,330.02	3/4	1,672.87	3/4	2,015.71	3/4	2,358.55	3/4	2,701.39	3/4	3,044.19
1	26.33	1	317.32	1	654.11	1	994.91	1	1,337.16	1	1,680.01	1	2,022.85	1	2,365.70	1	2,708.53	1	3,051.33
1/4	31.12	1/4	324.01	1/4	661.25	1/4	1,001.99	1/4	1,344.31	1/4	1,687.15	1/4	2,030.00	1/4	2,372.84	1/4	2,715.68	1/4	3,058.47
1/2	35.91	1/2	330.69	1/2	668.39	1/2	1,009.07	1/2	1,351.45	1/2	1,694.29	1/2	2,037.14	1/2	2,379.98	1/2	2,722.82	1/2	3,065.61
3/4	40.69	3/4	337.37	3/4	675.53	3/4	1,016.15	3/4	1,358.59	3/4	1,701.44	3/4	2,044.28	3/4	2,387.13	3/4	2,729.96	3/4	3,072.75
2	45.48	2	344.06	2	682.68	2	1,023.23	2	1,365.73	2	1,708.58	2	2,051.42	2	2,394.27	2	2,737.10	2	3,079.89
1/4	51.21	1/4	350.83	1/4	689.82	1/4	1,030.32	1/4	1,372.88	1/4	1,715.72	1/4	2,058.57	1/4	2,401.41	1/4	2,744.24	1/4	3,087.03
1/2	56.94	1/2	357.59	1/2	696.96	1/2	1,037.41	1/2	1,380.02	1/2	1,722.86	1/2	2,065.71	1/2	2,408.55	1/2	2,751.39	1/2	3,094.17
3/4	62.67	3/4	364.36	3/4	704.10	3/4	1,044.51	3/4	1,387.16	3/4	1,730.01	3/4	2,072.85	3/4	2,415.70	3/4	2,758.53	3/4	3,101.31
3	68.40	3	371.13	3	711.25	3	1,051.60	3	1,394.30	3	1,737.15	3	2,079.99	3	2,422.84	3	2,765.67	3	3,108.45
1/4	74.24	1/4	377.98	1/4	718.39	1/4	1,058.70	1/4	1,401.45	1/4	1,744.29	1/4	2,087.14	1/4	2,429.98	1/4	2,772.81	1/4	3,115.59
1/2	80.07	1/2	384.83	1/2	725.53	1/2	1,065.81	1/2	1,408.59	1/2	1,751.43	1/2	2,094.28	1/2	2,437.12	1/2	2,779.95	1/2	3,122.73
3/4	85.91	3/4	391.68	3/4	732.67	3/4	1,072.92	3/4	1,415.73	3/4	1,758.58	3/4	2,101.42	3/4	2,444.27	3/4	2,787.09	3/4	3,129.87
4	91.75	4	398.53	4	739.81	4	1,080.03	4	1,422.87	4	1,765.72	4	2,108.56	4	2,451.41	4	2,794.24	4	3,137.01
1/4	97.68	1/4	405.46	1/4	746.92	1/4	1,087.17	1/4	1,430.02	1/4	1,772.86	1/4	2,115.71	1/4	2,458.55	1/4	2,801.38	1/4	3,144.15
1/2	103.61	1/2	412.39	1/2	754.03	1/2	1,094.31	1/2	1,437.16	1/2	1,780.00	1/2	2,122.85	1/2	2,465.69	1/2	2,808.52	1/2	3,151.29
3/4	109.54	3/4	419.33	3/4	761.14	3/4	1,101.46	3/4	1,444.30	3/4	1,787.15	3/4	2,129.99	3/4	2,472.84	3/4	2,815.66	3/4	3,158.43
5	115.47	5	426.26	5	768.25	5	1,108.60	5	1,451.44	5	1,794.29	5	2,137.13	5	2,479.98	5	2,822.80	5	3,165.57
1/4	121.49	1/4	433.27	1/4	775.34	1/4	1,115.74	1/4	1,458.59	1/4	1,801.43	1/4	2,144.28	1/4	2,487.12	1/4	2,829.95	1/4	3,172.72
1/2	127.51	1/2	440.29	1/2	782.43	1/2	1,122.89	1/2	1,465.73	1/2	1,808.57	1/2	2,151.42	1/2	2,494.26	1/2	2,837.09	1/2	3,179.86
3/4	133.52	3/4	447.30	3/4	789.52	3/4	1,130.03	3/4	1,472.87	3/4	1,815.72	3/4	2,158.56	3/4	2,501.41	3/4	2,844.23	3/4	3,187.00
6	139.54	6	454.31	6	796.61	6	1,137.17	6	1,480.02	6	1,822.86	6	2,165.70	6	2,508.55	6	2,851.37	6	3,194.14
1/4	145.64	1/4	461.41	1/4	803.69	1/4	1,144.31	1/4	1,487.16	1/4	1,830.00	1/4	2,172.85	1/4	2,515.69	1/4	2,858.51	1/4	3,201.28
1/2	151.74	1/2	468.50	1/2	810.77	1/2	1,151.46	1/2	1,494.30	1/2	1,837.15	1/2	2,179.99	1/2	2,522.83	1/2	2,865.66	1/2	3,208.42
3/4	157.83	3/4	475.60	3/4	817.85	3/4	1,158.60	3/4	1,501.44	3/4	1,844.29	3/4	2,187.13	3/4	2,529.98	3/4	2,872.80	3/4	3,215.56
7	163.93	7	482.69	7	824.94	7	1,165.74	7	1,508.59	7	1,851.43	7	2,194.28	7	2,537.12	7	2,879.94	7	3,222.70
1/4	170.12	1/4	489.83	1/4	832.02	1/4	1,172.88	1/4	1,515.73	1/4	1,858.57	1/4	2,201.42	1/4	2,544.26	1/4	2,887.08	1/4	3,229.84
1/2	176.30	1/2	496.98	1/2	839.10	1/2	1,180.03	1/2	1,522.87	1/2	1,865.72	1/2	2,208.56	1/2	2,551.41	1/2	2,894.22	1/2	3,236.98
3/4	182.48	3/4	504.12	3/4	846.18	3/4	1,187.17	3/4	1,530.01	3/4	1,872.86	3/4	2,215.70	3/4	2,558.55	3/4	2,901.37	3/4	3,244.12
8	188.66	8	511.26	8	853.26	8	1,194.31	8	1,537.16	8	1,880.00	8	2,222.85	8	2,565.69	8	2,908.51	8	3,251.26
1/4	194.93	1/4	518.40	1/4	860.35	1/4	1,201.45	1/4	1,544.30	1/4	1,887.14	1/4	2,229.99	1/4	2,572.83	1/4	2,915.65	1/4	3,258.40
1/2	201.20	1/2	525.55	1/2	867.43	1/2	1,208.60	1/2	1,551.44	1/2	1,894.29	1/2	2,237.13	1/2	2,579.98	1/2	2,922.79	1/2	3,265.54
3/4	207.46	3/4	532.69	3/4	874.51	3/4	1,215.74	3/4	1,558.58	3/4	1,901.43	3/4	2,244.27	3/4	2,587.12	3/4	2,929.93	3/4	3,272.68
9	213.73	9	539.83	9	881.59	9	1,222.88	9	1,565.73	9	1,908.57	9	2,251.42	9	2,594.26	9	2,937.07	9	3,279.82
1/4	220.08	1/4	546.97	1/4	888.67	1/4	1,230.02	1/4	1,572.87	1/4	1,915.71	1/4	2,258.56	1/4	2,601.40	1/4	2,944.22	1/4	3,286.96
1/2	226.43	1/2	554.12	1/2	895.76	1/2	1,237.17	1/2	1,580.01	1/2	1,922.86	1/2	2,265.70	1/2	2,608.55	1/2	2,951.36	1/2	3,294.10
3/4	232.78	3/4	561.26	3/4	902.84	3/4	1,244.31	3/4	1,587.15	3/4	1,930.00	3/4	2,272.84	3/4	2,615.69	3/4	2,958.50	3/4	3,301.24
10	239.13	10	568.40	10	909.92	10	1,251.45	10	1,594.30	10	1,937.14	10	2,279.99	10	2,622.83	10	2,965.64	10	3,308.38
1/4	245.56	1/4	575.54	1/4	917.00	1/4	1,258.59	1/4	1,601.44	1/4	1,944.28	1/4	2,287.13	1/4	2,629.97	1/4	2,972.78	1/4	3,315.52
1/2	251.99	1/2	582.68	1/2	924.08	1/2	1,265.74	1/2	1,608.58	1/2	1,951.43	1/2	2,294.27	1/2	2,637.12	1/2	2,979.93	1/2	3,322.66
3/4	258.43	3/4	589.83	3/4	931.17	3/4	1,272.88	3/4	1,615.72	3/4	1,958.57	3/4	2,301.41	3/4	2,644.26	3/4	2,987.07	3/4	3,329.80
11	264.86	11	596.97	11	938.25	11	1,280.02	11	1,622.87	11	1,965.71	11	2,308.56	11	2,651.40	11	2,994.21	11	3,336.94
1/4	271.37	1/4	604.11	1/4	945.33	1/4	1,287.17	1/4	1,630.01	1/4	1,972.85	1/4	2,315.70	1/4	2,658.54	1/4	3,001.35	1/4	3,344.08
1/2	277.89	1/2	611.25	1/2	952.41	1/2	1,294.31	1/2	1,637.15	1/2	1,980.00	1/2	2,322.84	1/2	2,665.68	1/2	3,008.49	1/2	3,351.22
3/4	284.41	3/4	618.40	3/4	959.49	3/4	1,301.45	3/4	1,644.29	3/4	1,987.14	3/4	2,329.98	3/4	2,672.82	3/4	3,015.63	3/4	3,358.36

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

BARGE "MPX 419"

1 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	3,365.50	0	3,708.25	0	4,051.07	0	4,393.23	0	4,734.49	0		0		0		0		0	
1/4	3,372.64	1/4	3,715.39	1/4	4,058.21	1/4	4,400.34	1/4	4,741.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,379.78	1/2	3,722.54	1/2	4,065.35	1/2	4,407.45	1/2	4,748.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,386.92	3/4	3,729.68	3/4	4,072.49	3/4	4,414.56	3/4	4,755.82	3/4		3/4		3/4		3/4		3/4	
1	3,394.06	1	3,736.82	1	4,079.64	1	4,421.67	1	4,762.93	1		1		1		1		1	
1/4	3,401.20	1/4	3,743.96	1/4	4,086.78	1/4	4,428.78	1/4	4,770.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,408.34	1/2	3,751.10	1/2	4,093.92	1/2	4,435.89	1/2	4,777.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,415.48	3/4	3,758.25	3/4	4,101.06	3/4	4,443.00	3/4	4,784.26	3/4		3/4		3/4		3/4		3/4	
2	3,422.62	2	3,765.39	2	4,108.20	2	4,450.11	2	4,791.37	2		2		2		2		2	
1/4	3,429.76	1/4	3,772.53	1/4	4,115.35	1/4	4,457.22	1/4	4,798.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,436.90	1/2	3,779.67	1/2	4,122.49	1/2	4,464.33	1/2	4,805.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,444.04	3/4	3,786.81	3/4	4,129.63	3/4	4,471.44	3/4	4,812.69	3/4		3/4		3/4		3/4		3/4	
3	3,451.18	3	3,793.96	3	4,136.77	3	4,478.55	3	4,819.80	3		3		3		3		3	
1/4	3,458.32	1/4	3,801.10	1/4	4,143.91	1/4	4,485.66	1/4	4,826.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,465.46	1/2	3,808.24	1/2	4,151.06	1/2	4,492.77	1/2	4,833.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,472.60	3/4	3,815.38	3/4	4,158.20	3/4	4,499.88	3/4	4,841.00	3/4		3/4		3/4		3/4		3/4	
4	3,479.74	4	3,822.52	4	4,165.34	4	4,506.99	4	4,848.06	4		4		4		4		4	
1/4	3,486.88	1/4	3,829.67	1/4	4,172.48	1/4	4,514.10	1/4	4,855.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,494.02	1/2	3,836.81	1/2	4,179.62	1/2	4,521.20	1/2	4,862.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,501.16	3/4	3,843.95	3/4	4,186.77	3/4	4,528.31	3/4	4,869.26	3/4		3/4		3/4		3/4		3/4	
5	3,508.30	5	3,851.09	5	4,193.91	5	4,535.42	5	4,876.32	5		5		5		5		5	
1/4	3,515.44	1/4	3,858.23	1/4	4,201.05	1/4	4,542.53	1/4	4,883.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,522.58	1/2	3,865.38	1/2	4,208.19	1/2	4,549.64	1/2	4,890.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,529.72	3/4	3,872.52	3/4	4,215.33	3/4	4,556.75	3/4	4,897.52	3/4		3/4		3/4		3/4		3/4	
6	3,536.87	6	3,879.66	6	4,222.48	6	4,563.86	6	4,904.58	6		6		6		6		6	
1/4	3,544.01	1/4	3,886.80	1/4	4,229.62	1/4	4,570.97	1/4	4,911.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,551.15	1/2	3,893.94	1/2	4,236.76	1/2	4,578.08	1/2	4,918.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,558.29	3/4	3,901.09	3/4	4,243.90	3/4	4,585.19	3/4	4,925.73	3/4		3/4		3/4		3/4		3/4	
7	3,565.43	7	3,908.23	7	4,251.04	7	4,592.30	7	4,932.78	7		7		7		7		7	
1/4	3,572.57	1/4	3,915.37	1/4	4,258.15	1/4	4,599.41	1/4	4,939.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,579.71	1/2	3,922.51	1/2	4,265.26	1/2	4,606.52	1/2	4,946.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,586.85	3/4	3,929.65	3/4	4,272.37	3/4	4,613.63	3/4	4,953.77	3/4		3/4		3/4		3/4		3/4	
8	3,593.99	8	3,936.80	8	4,279.48	8	4,620.74	8	4,960.76	8		8		8		8		8	
1/4	3,601.13	1/4	3,943.94	1/4	4,286.59	1/4	4,627.85	1/4	4,966.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,608.27	1/2	3,951.08	1/2	4,293.70	1/2	4,634.96	1/2	4,973.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,615.41	3/4	3,958.22	3/4	4,300.81	3/4	4,642.07	3/4	4,979.28	3/4		3/4		3/4		3/4		3/4	
9	3,622.55	9	3,965.36	9	4,307.92	9	4,649.18	9	4,985.45	9		9		9		9		9	
1/4	3,629.69	1/4	3,972.51	1/4	4,315.03	1/4	4,656.29	1/4	4,990.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,636.83	1/2	3,979.65	1/2	4,322.14	1/2	4,663.39	1/2	4,995.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,643.97	3/4	3,986.79	3/4	4,329.25	3/4	4,670.50	3/4	5,000.40	3/4		3/4		3/4		3/4		3/4	
10	3,651.12	10	3,993.93	10	4,336.36	10	4,677.61	10	5,005.38	10		10		10		10		10	
1/4	3,658.26	1/4	4,001.07	1/4	4,343.47	1/4	4,684.72	1/4	5,009.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,665.40	1/2	4,008.22	1/2	4,350.58	1/2	4,691.83	1/2	5,012.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,672.54	3/4	4,015.36	3/4	4,357.69	3/4	4,698.94	3/4	5,016.75	3/4		3/4		3/4		3/4		3/4	
11	3,679.68	11	4,022.50	11	4,364.80	11	4,706.05	11	5,020.54	11		11		11		11		11	
1/4	3,686.83	1/4	4,029.64	1/4	4,371.91	1/4	4,713.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.97	1/2	4,036.78	1/2	4,379.01	1/2	4,720.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,701.11	3/4	4,043.93	3/4	4,386.12	3/4	4,727.38	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

1 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	14.63	0	290.58	0	624.88	0	967.15	0	1,309.56	0	1,652.05	0	1,994.54	0	2,337.03	0	2,679.51	0	3,021.96
1/4	17.55	1/4	297.17	1/4	632.02	1/4	974.27	1/4	1,316.70	1/4	1,659.19	1/4	2,001.68	1/4	2,344.17	1/4	2,686.65	1/4	3,029.10
1/2	20.47	1/2	303.77	1/2	639.15	1/2	981.40	1/2	1,323.83	1/2	1,666.32	1/2	2,008.81	1/2	2,351.30	1/2	2,693.78	1/2	3,036.23
3/4	23.38	3/4	310.36	3/4	646.29	3/4	988.53	3/4	1,330.97	3/4	1,673.46	3/4	2,015.95	3/4	2,358.44	3/4	2,700.92	3/4	3,043.36
1	26.30	1	316.95	1	653.42	1	995.65	1	1,338.10	1	1,680.59	1	2,023.08	1	2,365.57	1	2,708.05	1	3,050.49
1/4	31.08	1/4	323.63	1/4	660.56	1/4	1,002.78	1/4	1,345.24	1/4	1,687.73	1/4	2,030.22	1/4	2,372.71	1/4	2,715.19	1/4	3,057.63
1/2	35.86	1/2	330.30	1/2	667.69	1/2	1,009.90	1/2	1,352.37	1/2	1,694.86	1/2	2,037.35	1/2	2,379.84	1/2	2,722.32	1/2	3,064.76
3/4	40.64	3/4	336.98	3/4	674.83	3/4	1,017.03	3/4	1,359.51	3/4	1,702.00	3/4	2,044.49	3/4	2,386.98	3/4	2,729.46	3/4	3,071.89
2	45.42	2	343.66	2	681.96	2	1,024.16	2	1,366.64	2	1,709.13	2	2,051.62	2	2,394.11	2	2,736.59	2	3,079.03
1/4	51.15	1/4	350.42	1/4	689.10	1/4	1,031.29	1/4	1,373.78	1/4	1,716.27	1/4	2,058.76	1/4	2,401.25	1/4	2,743.73	1/4	3,086.16
1/2	56.87	1/2	357.18	1/2	696.23	1/2	1,038.43	1/2	1,380.91	1/2	1,723.40	1/2	2,065.89	1/2	2,408.38	1/2	2,750.86	1/2	3,093.29
3/4	62.59	3/4	363.93	3/4	703.37	3/4	1,045.56	3/4	1,388.05	3/4	1,730.54	3/4	2,073.03	3/4	2,415.52	3/4	2,757.99	3/4	3,100.42
3	68.31	3	370.69	3	710.50	3	1,052.69	3	1,395.18	3	1,737.67	3	2,080.16	3	2,422.65	3	2,765.13	3	3,107.56
1/4	74.14	1/4	377.54	1/4	717.64	1/4	1,059.83	1/4	1,402.32	1/4	1,744.81	1/4	2,087.30	1/4	2,429.79	1/4	2,772.26	1/4	3,114.69
1/2	79.97	1/2	384.38	1/2	724.77	1/2	1,066.96	1/2	1,409.45	1/2	1,751.94	1/2	2,094.43	1/2	2,436.92	1/2	2,779.40	1/2	3,121.82
3/4	85.81	3/4	391.22	3/4	731.90	3/4	1,074.10	3/4	1,416.59	3/4	1,759.08	3/4	2,101.57	3/4	2,444.06	3/4	2,786.53	3/4	3,128.96
4	91.64	4	398.07	4	739.04	4	1,081.24	4	1,423.72	4	1,766.21	4	2,108.70	4	2,451.19	4	2,793.67	4	3,136.09
1/4	97.56	1/4	404.99	1/4	746.17	1/4	1,088.37	1/4	1,430.86	1/4	1,773.35	1/4	2,115.84	1/4	2,458.33	1/4	2,800.80	1/4	3,143.22
1/2	103.48	1/2	411.92	1/2	753.31	1/2	1,095.51	1/2	1,438.00	1/2	1,780.48	1/2	2,122.97	1/2	2,465.46	1/2	2,807.94	1/2	3,150.35
3/4	109.41	3/4	418.84	3/4	760.44	3/4	1,102.64	3/4	1,445.13	3/4	1,787.62	3/4	2,130.11	3/4	2,472.60	3/4	2,815.07	3/4	3,157.49
5	115.33	5	425.77	5	767.58	5	1,109.78	5	1,452.27	5	1,794.76	5	2,137.24	5	2,479.73	5	2,822.20	5	3,164.62
1/4	121.34	1/4	432.78	1/4	774.71	1/4	1,116.91	1/4	1,459.40	1/4	1,801.89	1/4	2,144.38	1/4	2,486.87	1/4	2,829.34	1/4	3,171.75
1/2	127.35	1/2	439.79	1/2	781.85	1/2	1,124.05	1/2	1,466.54	1/2	1,809.03	1/2	2,151.52	1/2	2,494.00	1/2	2,836.47	1/2	3,178.89
3/4	133.36	3/4	446.80	3/4	788.98	3/4	1,131.18	3/4	1,473.67	3/4	1,816.16	3/4	2,158.65	3/4	2,501.14	3/4	2,843.61	3/4	3,186.02
6	139.37	6	453.81	6	796.12	6	1,138.32	6	1,480.81	6	1,823.30	6	2,165.79	6	2,508.28	6	2,850.74	6	3,193.15
1/4	145.46	1/4	460.90	1/4	803.24	1/4	1,145.45	1/4	1,487.94	1/4	1,830.43	1/4	2,172.92	1/4	2,515.41	1/4	2,857.88	1/4	3,200.28
1/2	151.55	1/2	468.00	1/2	810.37	1/2	1,152.59	1/2	1,495.08	1/2	1,837.57	1/2	2,180.06	1/2	2,522.55	1/2	2,865.01	1/2	3,207.42
3/4	157.64	3/4	475.09	3/4	817.50	3/4	1,159.72	3/4	1,502.21	3/4	1,844.70	3/4	2,187.19	3/4	2,529.68	3/4	2,872.15	3/4	3,214.55
7	163.73	7	482.18	7	824.62	7	1,166.86	7	1,509.35	7	1,851.84	7	2,194.33	7	2,536.82	7	2,879.28	7	3,221.68
1/4	169.91	1/4	489.32	1/4	831.75	1/4	1,173.99	1/4	1,516.48	1/4	1,858.97	1/4	2,201.46	1/4	2,543.95	1/4	2,886.42	1/4	3,228.81
1/2	176.09	1/2	496.45	1/2	838.87	1/2	1,181.13	1/2	1,523.62	1/2	1,866.11	1/2	2,208.60	1/2	2,551.09	1/2	2,893.55	1/2	3,235.95
3/4	182.26	3/4	503.59	3/4	846.00	3/4	1,188.26	3/4	1,530.75	3/4	1,873.24	3/4	2,215.73	3/4	2,558.22	3/4	2,900.68	3/4	3,243.08
8	188.44	8	510.72	8	853.13	8	1,195.40	8	1,537.89	8	1,880.38	8	2,222.87	8	2,565.36	8	2,907.82	8	3,250.21
1/4	194.70	1/4	517.86	1/4	860.25	1/4	1,202.53	1/4	1,545.02	1/4	1,887.51	1/4	2,230.00	1/4	2,572.49	1/4	2,914.95	1/4	3,257.35
1/2	200.95	1/2	524.99	1/2	867.38	1/2	1,209.67	1/2	1,552.16	1/2	1,894.65	1/2	2,237.14	1/2	2,579.63	1/2	2,922.09	1/2	3,264.48
3/4	207.21	3/4	532.13	3/4	874.50	3/4	1,216.80	3/4	1,559.29	3/4	1,901.78	3/4	2,244.27	3/4	2,586.76	3/4	2,929.22	3/4	3,271.61
9	213.47	9	539.26	9	881.63	9	1,223.94	9	1,566.43	9	1,908.92	9	2,251.41	9	2,593.90	9	2,936.36	9	3,278.74
1/4	219.81	1/4	546.40	1/4	888.76	1/4	1,231.07	1/4	1,573.56	1/4	1,916.05	1/4	2,258.54	1/4	2,601.03	1/4	2,943.49	1/4	3,285.88
1/2	226.16	1/2	553.53	1/2	895.88	1/2	1,238.21	1/2	1,580.70	1/2	1,923.19	1/2	2,265.68	1/2	2,608.17	1/2	2,950.63	1/2	3,293.01
3/4	232.50	3/4	560.67	3/4	903.01	3/4	1,245.34	3/4	1,587.83	3/4	1,930.32	3/4	2,272.81	3/4	2,615.30	3/4	2,957.76	3/4	3,300.14
10	238.84	10	567.80	10	910.14	10	1,252.48	10	1,594.97	10	1,937.46	10	2,279.95	10	2,622.44	10	2,964.89	10	3,307.28
1/4	245.27	1/4	574.94	1/4	917.26	1/4	1,259.62	1/4	1,602.10	1/4	1,944.59	1/4	2,287.08	1/4	2,629.57	1/4	2,972.03	1/4	3,314.41
1/2	251.69	1/2	582.07	1/2	924.39	1/2	1,266.75	1/2	1,609.24	1/2	1,951.73	1/2	2,294.22	1/2	2,636.71	1/2	2,979.16	1/2	3,321.54
3/4	258.12	3/4	589.21	3/4	931.51	3/4	1,273.89	3/4	1,616.38	3/4	1,958.86	3/4	2,301.35	3/4	2,643.84	3/4	2,986.30	3/4	3,328.67
11	264.54	11	596.34	11	938.64	11	1,281.02	11	1,623.51	11	1,966.00	11	2,308.49	11	2,650.98	11	2,993.43	11	3,335.81
1/4	271.05	1/4	603.48	1/4	945.77	1/4	1,288.16	1/4	1,630.65	1/4	1,973.14	1/4	2,315.62	1/4	2,658.11	1/4	3,000.57	1/4	3,342.94
1/2	277.56	1/2	610.61	1/2	952.89	1/2	1,295.29	1/2	1,637.78	1/2	1,980.27	1/2	2,322.76	1/2	2,665.25	1/2	3,007.70	1/2	3,350.07
3/4	284.07	3/4	617.75	3/4	960.02	3/4	1,302.43	3/4	1,644.92	3/4	1,987.41	3/4	2,329.90	3/4	2,672.38	3/4	3,014.83	3/4	3,357.21

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

BARGE "MPX 419"

1 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	3,364.34	0	3,706.73	0	4,049.19	0	4,391.01	0	4,731.91	0		0		0		0		0	
1/4	3,371.47	1/4	3,713.87	1/4	4,056.33	1/4	4,398.11	1/4	4,739.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,378.60	1/2	3,721.00	1/2	4,063.46	1/2	4,405.21	1/2	4,746.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,385.74	3/4	3,728.14	3/4	4,070.60	3/4	4,412.31	3/4	4,753.22	3/4		3/4		3/4		3/4		3/4	
1	3,392.87	1	3,735.27	1	4,077.73	1	4,419.42	1	4,760.32	1		1		1		1		1	
1/4	3,400.00	1/4	3,742.41	1/4	4,084.87	1/4	4,426.52	1/4	4,767.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,407.13	1/2	3,749.54	1/2	4,092.00	1/2	4,433.62	1/2	4,774.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,414.27	3/4	3,756.68	3/4	4,099.14	3/4	4,440.72	3/4	4,781.63	3/4		3/4		3/4		3/4		3/4	
2	3,421.40	2	3,763.81	2	4,106.27	2	4,447.83	2	4,788.73	2		2		2		2		2	
1/4	3,428.53	1/4	3,770.95	1/4	4,113.41	1/4	4,454.93	1/4	4,795.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,435.67	1/2	3,778.08	1/2	4,120.54	1/2	4,462.03	1/2	4,802.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,442.80	3/4	3,785.21	3/4	4,127.68	3/4	4,469.13	3/4	4,810.04	3/4		3/4		3/4		3/4		3/4	
3	3,449.93	3	3,792.35	3	4,134.81	3	4,476.23	3	4,817.14	3		3		3		3		3	
1/4	3,457.06	1/4	3,799.48	1/4	4,141.94	1/4	4,483.34	1/4	4,824.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,464.20	1/2	3,806.62	1/2	4,149.08	1/2	4,490.44	1/2	4,831.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,471.33	3/4	3,813.75	3/4	4,156.21	3/4	4,497.54	3/4	4,838.31	3/4		3/4		3/4		3/4		3/4	
4	3,478.46	4	3,820.89	4	4,163.35	4	4,504.64	4	4,845.37	4		4		4		4		4	
1/4	3,485.60	1/4	3,828.02	1/4	4,170.48	1/4	4,511.75	1/4	4,852.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,492.73	1/2	3,835.16	1/2	4,177.62	1/2	4,518.85	1/2	4,859.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,499.86	3/4	3,842.29	3/4	4,184.75	3/4	4,525.95	3/4	4,866.54	3/4		3/4		3/4		3/4		3/4	
5	3,506.99	5	3,849.43	5	4,191.89	5	4,533.05	5	4,873.59	5		5		5		5		5	
1/4	3,514.13	1/4	3,856.56	1/4	4,199.02	1/4	4,540.15	1/4	4,880.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,521.26	1/2	3,863.70	1/2	4,206.16	1/2	4,547.26	1/2	4,887.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,528.39	3/4	3,870.83	3/4	4,213.29	3/4	4,554.36	3/4	4,894.76	3/4		3/4		3/4		3/4		3/4	
6	3,535.53	6	3,877.96	6	4,220.43	6	4,561.46	6	4,901.82	6		6		6		6		6	
1/4	3,542.66	1/4	3,885.10	1/4	4,227.56	1/4	4,568.56	1/4	4,908.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,549.79	1/2	3,892.23	1/2	4,234.69	1/2	4,575.66	1/2	4,915.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,556.92	3/4	3,899.37	3/4	4,241.83	3/4	4,582.77	3/4	4,922.95	3/4		3/4		3/4		3/4		3/4	
7	3,564.06	7	3,906.50	7	4,248.96	7	4,589.87	7	4,929.99	7		7		7		7		7	
1/4	3,571.19	1/4	3,913.64	1/4	4,256.07	1/4	4,596.97	1/4	4,936.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,578.32	1/2	3,920.77	1/2	4,263.17	1/2	4,604.07	1/2	4,943.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,585.45	3/4	3,927.91	3/4	4,270.27	3/4	4,611.18	3/4	4,950.95	3/4		3/4		3/4		3/4		3/4	
8	3,592.59	8	3,935.04	8	4,277.37	8	4,618.28	8	4,957.94	8		8		8		8		8	
1/4	3,599.72	1/4	3,942.18	1/4	4,284.47	1/4	4,625.38	1/4	4,964.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,606.85	1/2	3,949.31	1/2	4,291.58	1/2	4,632.48	1/2	4,970.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,613.99	3/4	3,956.45	3/4	4,298.68	3/4	4,639.58	3/4	4,976.44	3/4		3/4		3/4		3/4		3/4	
9	3,621.12	9	3,963.58	9	4,305.78	9	4,646.69	9	4,982.60	9		9		9		9		9	
1/4	3,628.25	1/4	3,970.71	1/4	4,312.88	1/4	4,653.79	1/4	4,987.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.39	1/2	3,977.85	1/2	4,319.99	1/2	4,660.89	1/2	4,992.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,642.52	3/4	3,984.98	3/4	4,327.09	3/4	4,667.99	3/4	4,997.53	3/4		3/4		3/4		3/4		3/4	
10	3,649.66	10	3,992.12	10	4,334.19	10	4,675.10	10	5,002.51	10		10		10		10		10	
1/4	3,656.79	1/4	3,999.25	1/4	4,341.29	1/4	4,682.20	1/4	5,006.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,663.93	1/2	4,006.39	1/2	4,348.39	1/2	4,689.30	1/2	5,010.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,671.06	3/4	4,013.52	3/4	4,355.50	3/4	4,696.40	3/4	5,013.87	3/4		3/4		3/4		3/4		3/4	
11	3,678.20	11	4,020.66	11	4,362.60	11	4,703.50	11	5,017.66	11		11		11		11		11	
1/4	3,685.33	1/4	4,027.79	1/4	4,369.70	1/4	4,710.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.46	1/2	4,034.93	1/2	4,376.80	1/2	4,717.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.60	3/4	4,042.06	3/4	4,383.91	3/4	4,724.81	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	14.67	0	343.43	0	686.70	0	1,020.26	0	1,358.75	0	1,702.02	0	2,045.30	0	2,388.58	0	2,731.86	0	3,075.12
1/4	19.14	1/4	350.58	1/4	693.85	1/4	1,027.10	1/4	1,365.90	1/4	1,709.18	1/4	2,052.45	1/4	2,395.73	1/4	2,739.01	1/4	3,082.27
1/2	23.61	1/2	357.74	1/2	701.00	1/2	1,033.95	1/2	1,373.05	1/2	1,716.33	1/2	2,059.60	1/2	2,402.88	1/2	2,746.16	1/2	3,089.42
3/4	28.08	3/4	364.89	3/4	708.15	3/4	1,040.79	3/4	1,380.20	3/4	1,723.48	3/4	2,066.76	3/4	2,410.03	3/4	2,753.31	3/4	3,096.57
1	32.55	1	372.04	1	715.31	1	1,047.63	1	1,387.35	1	1,730.63	1	2,073.91	1	2,417.18	1	2,760.46	1	3,103.72
1/4	38.80	1/4	379.19	1/4	722.46	1/4	1,054.48	1/4	1,394.51	1/4	1,737.78	1/4	2,081.06	1/4	2,424.34	1/4	2,767.61	1/4	3,110.87
1/2	45.06	1/2	386.34	1/2	729.61	1/2	1,061.32	1/2	1,401.66	1/2	1,744.93	1/2	2,088.21	1/2	2,431.49	1/2	2,774.76	1/2	3,118.02
3/4	51.31	3/4	393.49	3/4	736.76	3/4	1,068.17	3/4	1,408.81	3/4	1,752.09	3/4	2,095.36	3/4	2,438.64	3/4	2,781.92	3/4	3,125.17
2	57.57	2	400.64	2	743.91	2	1,075.01	2	1,415.96	2	1,759.24	2	2,102.51	2	2,445.79	2	2,789.07	2	3,132.32
1/4	64.68	1/4	407.80	1/4	751.06	1/4	1,081.86	1/4	1,423.11	1/4	1,766.39	1/4	2,109.67	1/4	2,452.94	1/4	2,796.22	1/4	3,139.47
1/2	71.80	1/2	414.95	1/2	758.21	1/2	1,088.71	1/2	1,430.26	1/2	1,773.54	1/2	2,116.82	1/2	2,460.09	1/2	2,803.37	1/2	3,146.62
3/4	78.92	3/4	422.10	3/4	765.37	3/4	1,095.57	3/4	1,437.42	3/4	1,780.69	3/4	2,123.97	3/4	2,467.25	3/4	2,810.52	3/4	3,153.77
3	86.03	3	429.25	3	772.52	3	1,102.42	3	1,444.57	3	1,787.84	3	2,131.12	3	2,474.40	3	2,817.67	3	3,160.92
1/4	93.17	1/4	436.40	1/4	779.67	1/4	1,109.29	1/4	1,451.72	1/4	1,795.00	1/4	2,138.27	1/4	2,481.55	1/4	2,824.83	1/4	3,168.07
1/2	100.31	1/2	443.55	1/2	786.82	1/2	1,116.16	1/2	1,458.87	1/2	1,802.15	1/2	2,145.42	1/2	2,488.70	1/2	2,831.98	1/2	3,175.22
3/4	107.45	3/4	450.70	3/4	793.97	3/4	1,123.03	3/4	1,466.02	3/4	1,809.30	3/4	2,152.58	3/4	2,495.85	3/4	2,839.13	3/4	3,182.37
4	114.59	4	457.86	4	801.12	4	1,129.90	4	1,473.17	4	1,816.45	4	2,159.73	4	2,503.00	4	2,846.28	4	3,189.52
1/4	121.74	1/4	465.01	1/4	807.99	1/4	1,137.05	1/4	1,480.33	1/4	1,823.60	1/4	2,166.88	1/4	2,510.16	1/4	2,853.43	1/4	3,196.67
1/2	128.89	1/2	472.16	1/2	814.86	1/2	1,144.20	1/2	1,487.48	1/2	1,830.75	1/2	2,174.03	1/2	2,517.31	1/2	2,860.58	1/2	3,203.82
3/4	136.04	3/4	479.31	3/4	821.73	3/4	1,151.35	3/4	1,494.63	3/4	1,837.90	3/4	2,181.18	3/4	2,524.46	3/4	2,867.74	3/4	3,210.97
5	143.19	5	486.46	5	828.60	5	1,158.50	5	1,501.78	5	1,845.06	5	2,188.33	5	2,531.61	5	2,874.89	5	3,218.12
1/4	150.35	1/4	493.61	1/4	835.45	1/4	1,165.65	1/4	1,508.93	1/4	1,852.21	1/4	2,195.48	1/4	2,538.76	1/4	2,882.04	1/4	3,225.27
1/2	157.50	1/2	500.76	1/2	842.30	1/2	1,172.81	1/2	1,516.08	1/2	1,859.36	1/2	2,202.64	1/2	2,545.91	1/2	2,889.19	1/2	3,232.42
3/4	164.65	3/4	507.92	3/4	849.15	3/4	1,179.96	3/4	1,523.23	3/4	1,866.51	3/4	2,209.79	3/4	2,553.07	3/4	2,896.34	3/4	3,239.56
6	171.80	6	515.07	6	856.00	6	1,187.11	6	1,530.39	6	1,873.66	6	2,216.94	6	2,560.22	6	2,903.49	6	3,246.71
1/4	178.95	1/4	522.22	1/4	862.85	1/4	1,194.26	1/4	1,537.54	1/4	1,880.81	1/4	2,224.09	1/4	2,567.37	1/4	2,910.65	1/4	3,253.86
1/2	186.10	1/2	529.37	1/2	869.69	1/2	1,201.41	1/2	1,544.69	1/2	1,887.97	1/2	2,231.24	1/2	2,574.52	1/2	2,917.80	1/2	3,261.01
3/4	193.25	3/4	536.52	3/4	876.54	3/4	1,208.56	3/4	1,551.84	3/4	1,895.12	3/4	2,238.39	3/4	2,581.67	3/4	2,924.95	3/4	3,268.16
7	200.41	7	543.67	7	883.38	7	1,215.72	7	1,558.99	7	1,902.27	7	2,245.55	7	2,588.82	7	2,932.10	7	3,275.31
1/4	207.56	1/4	550.82	1/4	890.22	1/4	1,222.87	1/4	1,566.14	1/4	1,909.42	1/4	2,252.70	1/4	2,595.97	1/4	2,939.25	1/4	3,282.46
1/2	214.71	1/2	557.98	1/2	897.07	1/2	1,230.02	1/2	1,573.30	1/2	1,916.57	1/2	2,259.85	1/2	2,603.13	1/2	2,946.40	1/2	3,289.61
3/4	221.86	3/4	565.13	3/4	903.91	3/4	1,237.17	3/4	1,580.45	3/4	1,923.72	3/4	2,267.00	3/4	2,610.28	3/4	2,953.55	3/4	3,296.76
8	229.01	8	572.28	8	910.75	8	1,244.32	8	1,587.60	8	1,930.88	8	2,274.15	8	2,617.43	8	2,960.71	8	3,303.91
1/4	236.16	1/4	579.43	1/4	917.60	1/4	1,251.47	1/4	1,594.75	1/4	1,938.03	1/4	2,281.30	1/4	2,624.58	1/4	2,967.86	1/4	3,311.06
1/2	243.31	1/2	586.58	1/2	924.44	1/2	1,258.63	1/2	1,601.90	1/2	1,945.18	1/2	2,288.46	1/2	2,631.73	1/2	2,975.01	1/2	3,318.21
3/4	250.46	3/4	593.73	3/4	931.29	3/4	1,265.78	3/4	1,609.05	3/4	1,952.33	3/4	2,295.61	3/4	2,638.88	3/4	2,982.16	3/4	3,325.36
9	257.62	9	600.88	9	938.13	9	1,272.93	9	1,616.21	9	1,959.48	9	2,302.76	9	2,646.04	9	2,989.31	9	3,332.51
1/4	264.77	1/4	608.03	1/4	944.97	1/4	1,280.08	1/4	1,623.36	1/4	1,966.63	1/4	2,309.91	1/4	2,653.19	1/4	2,996.46	1/4	3,339.66
1/2	271.92	1/2	615.19	1/2	951.82	1/2	1,287.23	1/2	1,630.51	1/2	1,973.79	1/2	2,317.06	1/2	2,660.34	1/2	3,003.62	1/2	3,346.81
3/4	279.07	3/4	622.34	3/4	958.66	3/4	1,294.38	3/4	1,637.66	3/4	1,980.94	3/4	2,324.21	3/4	2,667.49	3/4	3,010.77	3/4	3,353.96
10	286.22	10	629.49	10	965.51	10	1,301.54	10	1,644.81	10	1,988.09	10	2,331.37	10	2,674.64	10	3,017.92	10	3,361.11
1/4	293.37	1/4	636.64	1/4	972.35	1/4	1,308.69	1/4	1,651.96	1/4	1,995.24	1/4	2,338.52	1/4	2,681.79	1/4	3,025.07	1/4	3,368.26
1/2	300.52	1/2	643.79	1/2	979.19	1/2	1,315.84	1/2	1,659.11	1/2	2,002.39	1/2	2,345.67	1/2	2,688.95	1/2	3,032.22	1/2	3,375.41
3/4	307.68	3/4	650.94	3/4	986.04	3/4	1,322.99	3/4	1,666.27	3/4	2,009.54	3/4	2,352.82	3/4	2,696.10	3/4	3,039.37	3/4	3,382.56
11	314.83	11	658.09	11	992.88	11	1,330.14	11	1,673.42	11	2,016.69	11	2,359.97	11	2,703.25	11	3,046.53	11	3,389.71
1/4	321.98	1/4	665.25	1/4	999.73	1/4	1,337.29	1/4	1,680.57	1/4	2,023.85	1/4	2,367.12	1/4	2,710.40	1/4	3,053.68	1/4	3,396.86
1/2	329.13	1/2	672.40	1/2	1,006.57	1/2	1,344.44	1/2	1,687.72	1/2	2,031.00	1/2	2,374.28	1/2	2,717.55	1/2	3,060.82	1/2	3,404.01
3/4	336.28	3/4	679.55	3/4	1,013.41	3/4	1,351.60	3/4	1,694.87	3/4	2,038.15	3/4	2,381.43	3/4	2,724.70	3/4	3,067.97	3/4	3,411.16

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

2 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,418.30	0	3,761.49	0	4,104.67	0	4,447.20	0	4,788.81	0		0		0		0		0	
1/4	3,425.45	1/4	3,768.64	1/4	4,111.82	1/4	4,454.31	1/4	4,795.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,432.60	1/2	3,775.78	1/2	4,118.97	1/2	4,461.43	1/2	4,803.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,439.75	3/4	3,782.93	3/4	4,126.12	3/4	4,468.55	3/4	4,810.16	3/4		3/4		3/4		3/4		3/4	
1	3,446.90	1	3,790.08	1	4,133.26	1	4,475.66	1	4,817.28	1		1		1		1		1	
1/4	3,454.05	1/4	3,797.23	1/4	4,140.41	1/4	4,482.78	1/4	4,824.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,461.20	1/2	3,804.38	1/2	4,147.56	1/2	4,489.90	1/2	4,831.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,468.35	3/4	3,811.53	3/4	4,154.71	3/4	4,497.01	3/4	4,838.63	3/4		3/4		3/4		3/4		3/4	
2	3,475.50	2	3,818.68	2	4,161.86	2	4,504.13	2	4,845.75	2		2		2		2		2	
1/4	3,482.65	1/4	3,825.83	1/4	4,169.01	1/4	4,511.25	1/4	4,852.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,489.80	1/2	3,832.98	1/2	4,176.16	1/2	4,518.37	1/2	4,859.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,496.95	3/4	3,840.13	3/4	4,183.31	3/4	4,525.48	3/4	4,867.10	3/4		3/4		3/4		3/4		3/4	
3	3,504.10	3	3,847.28	3	4,190.46	3	4,532.60	3	4,874.22	3		3		3		3		3	
1/4	3,511.25	1/4	3,854.43	1/4	4,197.61	1/4	4,539.72	1/4	4,881.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,518.40	1/2	3,861.58	1/2	4,204.76	1/2	4,546.83	1/2	4,888.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,525.55	3/4	3,868.73	3/4	4,211.91	3/4	4,553.95	3/4	4,895.43	3/4		3/4		3/4		3/4		3/4	
4	3,532.70	4	3,875.88	4	4,219.06	4	4,561.07	4	4,902.50	4		4		4		4		4	
1/4	3,539.85	1/4	3,883.03	1/4	4,226.21	1/4	4,568.18	1/4	4,909.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,547.00	1/2	3,890.18	1/2	4,233.36	1/2	4,575.30	1/2	4,916.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,554.15	3/4	3,897.33	3/4	4,240.51	3/4	4,582.42	3/4	4,923.72	3/4		3/4		3/4		3/4		3/4	
5	3,561.30	5	3,904.48	5	4,247.66	5	4,589.54	5	4,930.79	5		5		5		5		5	
1/4	3,568.45	1/4	3,911.63	1/4	4,254.81	1/4	4,596.65	1/4	4,937.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,575.60	1/2	3,918.78	1/2	4,261.96	1/2	4,603.77	1/2	4,944.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,582.75	3/4	3,925.93	3/4	4,269.11	3/4	4,610.89	3/4	4,952.00	3/4		3/4		3/4		3/4		3/4	
6	3,589.90	6	3,933.08	6	4,276.26	6	4,618.00	6	4,959.07	6		6		6		6		6	
1/4	3,597.04	1/4	3,940.23	1/4	4,283.41	1/4	4,625.12	1/4	4,966.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,604.19	1/2	3,947.38	1/2	4,290.56	1/2	4,632.24	1/2	4,973.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,611.34	3/4	3,954.52	3/4	4,297.71	3/4	4,639.35	3/4	4,980.24	3/4		3/4		3/4		3/4		3/4	
7	3,618.49	7	3,961.67	7	4,304.86	7	4,646.47	7	4,987.30	7		7		7		7		7	
1/4	3,625.64	1/4	3,968.82	1/4	4,311.97	1/4	4,653.59	1/4	4,994.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.79	1/2	3,975.97	1/2	4,319.09	1/2	4,660.71	1/2	5,001.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.94	3/4	3,983.12	3/4	4,326.21	3/4	4,667.82	3/4	5,008.31	3/4		3/4		3/4		3/4		3/4	
8	3,647.09	8	3,990.27	8	4,333.32	8	4,674.94	8	5,015.31	8		8		8		8		8	
1/4	3,654.24	1/4	3,997.42	1/4	4,340.44	1/4	4,682.06	1/4	5,021.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.39	1/2	4,004.57	1/2	4,347.56	1/2	4,689.17	1/2	5,027.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.54	3/4	4,011.72	3/4	4,354.67	3/4	4,696.29	3/4	5,033.84	3/4		3/4		3/4		3/4		3/4	
9	3,675.69	9	4,018.87	9	4,361.79	9	4,703.41	9	5,040.02	9		9		9		9		9	
1/4	3,682.84	1/4	4,026.02	1/4	4,368.91	1/4	4,710.52	1/4	5,045.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,689.99	1/2	4,033.17	1/2	4,376.03	1/2	4,717.64	1/2	5,049.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,697.14	3/4	4,040.32	3/4	4,383.14	3/4	4,724.76	3/4	5,054.98	3/4		3/4		3/4		3/4		3/4	
10	3,704.29	10	4,047.47	10	4,390.26	10	4,731.88	10	5,059.97	10		10		10		10		10	
1/4	3,711.44	1/4	4,054.62	1/4	4,397.38	1/4	4,738.99	1/4	5,063.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,718.59	1/2	4,061.77	1/2	4,404.49	1/2	4,746.11	1/2	5,067.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,725.74	3/4	4,068.92	3/4	4,411.61	3/4	4,753.23	3/4	5,071.35	3/4		3/4		3/4		3/4		3/4	
11	3,732.89	11	4,076.07	11	4,418.73	11	4,760.34	11	5,075.14	11		11		11		11		11	
1/4	3,740.04	1/4	4,083.22	1/4	4,425.84	1/4	4,767.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,747.19	1/2	4,090.37	1/2	4,432.96	1/2	4,774.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,754.34	3/4	4,097.52	3/4	4,440.08	3/4	4,781.69	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	14.67	0	343.56	0	686.94	0	1,029.98	0	1,373.25	0	1,716.65	0	2,060.05	0	2,403.45	0	2,746.85	0	3,090.25
1/4	19.14	1/4	350.71	1/4	694.10	1/4	1,037.12	1/4	1,380.40	1/4	1,723.80	1/4	2,067.21	1/4	2,410.61	1/4	2,754.01	1/4	3,097.40
1/2	23.62	1/2	357.86	1/2	701.25	1/2	1,044.26	1/2	1,387.56	1/2	1,730.96	1/2	2,074.36	1/2	2,417.76	1/2	2,761.16	1/2	3,104.55
3/4	28.09	3/4	365.02	3/4	708.40	3/4	1,051.40	3/4	1,394.71	3/4	1,738.11	3/4	2,081.51	3/4	2,424.92	3/4	2,768.32	3/4	3,111.70
1	32.56	1	372.17	1	715.56	1	1,058.54	1	1,401.86	1	1,745.27	1	2,088.67	1	2,432.07	1	2,775.47	1	3,118.86
1/4	38.82	1/4	379.33	1/4	722.71	1/4	1,065.68	1/4	1,409.02	1/4	1,752.42	1/4	2,095.82	1/4	2,439.22	1/4	2,782.63	1/4	3,126.01
1/2	45.07	1/2	386.48	1/2	729.87	1/2	1,072.82	1/2	1,416.17	1/2	1,759.57	1/2	2,102.98	1/2	2,446.38	1/2	2,789.78	1/2	3,133.16
3/4	51.33	3/4	393.63	3/4	737.02	3/4	1,079.96	3/4	1,423.33	3/4	1,766.73	3/4	2,110.13	3/4	2,453.53	3/4	2,796.93	3/4	3,140.31
2	57.59	2	400.79	2	744.17	2	1,087.10	2	1,430.48	2	1,773.88	2	2,117.28	2	2,460.69	2	2,804.09	2	3,147.47
1/4	64.71	1/4	407.94	1/4	751.33	1/4	1,094.25	1/4	1,437.64	1/4	1,781.04	1/4	2,124.44	1/4	2,467.84	1/4	2,811.24	1/4	3,154.62
1/2	71.83	1/2	415.09	1/2	758.48	1/2	1,101.40	1/2	1,444.79	1/2	1,788.19	1/2	2,131.59	1/2	2,474.99	1/2	2,818.40	1/2	3,161.77
3/4	78.94	3/4	422.25	3/4	765.64	3/4	1,108.55	3/4	1,451.94	3/4	1,795.35	3/4	2,138.75	3/4	2,482.15	3/4	2,825.55	3/4	3,168.92
3	86.06	3	429.40	3	772.79	3	1,115.70	3	1,459.10	3	1,802.50	3	2,145.90	3	2,489.30	3	2,832.70	3	3,176.07
1/4	93.21	1/4	436.56	1/4	779.94	1/4	1,122.85	1/4	1,466.25	1/4	1,809.65	1/4	2,153.06	1/4	2,496.46	1/4	2,839.86	1/4	3,183.23
1/2	100.35	1/2	443.71	1/2	787.10	1/2	1,130.00	1/2	1,473.41	1/2	1,816.81	1/2	2,160.21	1/2	2,503.61	1/2	2,847.01	1/2	3,190.38
3/4	107.49	3/4	450.86	3/4	794.25	3/4	1,137.16	3/4	1,480.56	3/4	1,823.96	3/4	2,167.36	3/4	2,510.77	3/4	2,854.17	3/4	3,197.53
4	114.64	4	458.02	4	801.41	4	1,144.31	4	1,487.71	4	1,831.12	4	2,174.52	4	2,517.92	4	2,861.32	4	3,204.68
1/4	121.79	1/4	465.17	1/4	808.56	1/4	1,151.47	1/4	1,494.87	1/4	1,838.27	1/4	2,181.67	1/4	2,525.07	1/4	2,868.48	1/4	3,211.84
1/2	128.94	1/2	472.33	1/2	815.71	1/2	1,158.62	1/2	1,502.02	1/2	1,845.42	1/2	2,188.83	1/2	2,532.23	1/2	2,875.63	1/2	3,218.99
3/4	136.09	3/4	479.48	3/4	822.87	3/4	1,165.78	3/4	1,509.18	3/4	1,852.58	3/4	2,195.98	3/4	2,539.38	3/4	2,882.78	3/4	3,226.14
5	143.25	5	486.63	5	830.02	5	1,172.93	5	1,516.33	5	1,859.73	5	2,203.13	5	2,546.54	5	2,889.94	5	3,233.29
1/4	150.40	1/4	493.79	1/4	837.17	1/4	1,180.08	1/4	1,523.49	1/4	1,866.89	1/4	2,210.29	1/4	2,553.69	1/4	2,897.09	1/4	3,240.44
1/2	157.55	1/2	500.94	1/2	844.32	1/2	1,187.24	1/2	1,530.64	1/2	1,874.04	1/2	2,217.44	1/2	2,560.84	1/2	2,904.25	1/2	3,247.60
3/4	164.71	3/4	508.10	3/4	851.47	3/4	1,194.39	3/4	1,537.79	3/4	1,881.20	3/4	2,224.60	3/4	2,568.00	3/4	2,911.40	3/4	3,254.75
6	171.86	6	515.25	6	858.62	6	1,201.55	6	1,544.95	6	1,888.35	6	2,231.75	6	2,575.15	6	2,918.55	6	3,261.90
1/4	179.02	1/4	522.40	1/4	865.76	1/4	1,208.70	1/4	1,552.10	1/4	1,895.50	1/4	2,238.91	1/4	2,582.31	1/4	2,925.71	1/4	3,269.05
1/2	186.17	1/2	529.56	1/2	872.90	1/2	1,215.86	1/2	1,559.26	1/2	1,902.66	1/2	2,246.06	1/2	2,589.46	1/2	2,932.86	1/2	3,276.20
3/4	193.32	3/4	536.71	3/4	880.04	3/4	1,223.01	3/4	1,566.41	3/4	1,909.81	3/4	2,253.21	3/4	2,596.62	3/4	2,940.02	3/4	3,283.36
7	200.48	7	543.86	7	887.18	7	1,230.16	7	1,573.57	7	1,916.97	7	2,260.37	7	2,603.77	7	2,947.17	7	3,290.51
1/4	207.63	1/4	551.02	1/4	894.32	1/4	1,237.32	1/4	1,580.72	1/4	1,924.12	1/4	2,267.52	1/4	2,610.92	1/4	2,954.33	1/4	3,297.66
1/2	214.79	1/2	558.17	1/2	901.46	1/2	1,244.47	1/2	1,587.87	1/2	1,931.28	1/2	2,274.68	1/2	2,618.08	1/2	2,961.48	1/2	3,304.81
3/4	221.94	3/4	565.33	3/4	908.60	3/4	1,251.63	3/4	1,595.03	3/4	1,938.43	3/4	2,281.83	3/4	2,625.23	3/4	2,968.63	3/4	3,311.97
8	229.09	8	572.48	8	915.74	8	1,258.78	8	1,602.18	8	1,945.58	8	2,288.99	8	2,632.39	8	2,975.79	8	3,319.12
1/4	236.25	1/4	579.63	1/4	922.88	1/4	1,265.93	1/4	1,609.34	1/4	1,952.74	1/4	2,296.14	1/4	2,639.54	1/4	2,982.94	1/4	3,326.27
1/2	243.40	1/2	586.79	1/2	930.02	1/2	1,273.09	1/2	1,616.49	1/2	1,959.89	1/2	2,303.29	1/2	2,646.70	1/2	2,990.10	1/2	3,333.42
3/4	250.56	3/4	593.94	3/4	937.16	3/4	1,280.24	3/4	1,623.64	3/4	1,967.05	3/4	2,310.45	3/4	2,653.85	3/4	2,997.25	3/4	3,340.57
9	257.71	9	601.10	9	944.30	9	1,287.40	9	1,630.80	9	1,974.20	9	2,317.60	9	2,661.00	9	3,004.41	9	3,347.73
1/4	264.86	1/4	608.25	1/4	951.44	1/4	1,294.55	1/4	1,637.95	1/4	1,981.35	1/4	2,324.76	1/4	2,668.16	1/4	3,011.56	1/4	3,354.88
1/2	272.02	1/2	615.40	1/2	958.58	1/2	1,301.71	1/2	1,645.11	1/2	1,988.51	1/2	2,331.91	1/2	2,675.31	1/2	3,018.71	1/2	3,362.03
3/4	279.17	3/4	622.56	3/4	965.72	3/4	1,308.86	3/4	1,652.26	3/4	1,995.66	3/4	2,339.06	3/4	2,682.47	3/4	3,025.87	3/4	3,369.18
10	286.32	10	629.71	10	972.86	10	1,316.01	10	1,659.42	10	2,002.82	10	2,346.22	10	2,689.62	10	3,033.02	10	3,376.34
1/4	293.48	1/4	636.87	1/4	980.00	1/4	1,323.17	1/4	1,666.57	1/4	2,009.97	1/4	2,353.37	1/4	2,696.77	1/4	3,040.18	1/4	3,383.49
1/2	300.63	1/2	644.02	1/2	987.14	1/2	1,330.32	1/2	1,673.72	1/2	2,017.13	1/2	2,360.53	1/2	2,703.93	1/2	3,047.33	1/2	3,390.64
3/4	307.79	3/4	651.17	3/4	994.28	3/4	1,337.48	3/4	1,680.88	3/4	2,024.28	3/4	2,367.68	3/4	2,711.08	3/4	3,054.48	3/4	3,397.79
11	314.94	11	658.33	11	1,001.42	11	1,344.63	11	1,688.03	11	2,031.43	11	2,374.84	11	2,718.24	11	3,061.64	11	3,404.94
1/4	322.09	1/4	665.48	1/4	1,008.56	1/4	1,351.79	1/4	1,695.19	1/4	2,038.59	1/4	2,381.99	1/4	2,725.39	1/4	3,068.79	1/4	3,412.10
1/2	329.25	1/2	672.64	1/2	1,015.70	1/2	1,358.94	1/2	1,702.34	1/2	2,045.74	1/2	2,389.14	1/2	2,732.55	1/2	3,075.94	1/2	3,419.25
3/4	336.40	3/4	679.79	3/4	1,022.84	3/4	1,366.09	3/4	1,709.50	3/4	2,052.90	3/4	2,396.30	3/4	2,739.70	3/4	3,083.10	3/4	3,426.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

2 STBD

INNAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,433.55	0	3,776.88	0	4,120.28	0	4,463.03	0	4,804.86	0		0		0		0		0	
1/4	3,440.71	1/4	3,784.04	1/4	4,127.44	1/4	4,470.15	1/4	4,811.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,447.86	1/2	3,791.19	1/2	4,134.59	1/2	4,477.28	1/2	4,819.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,455.01	3/4	3,798.35	3/4	4,141.75	3/4	4,484.40	3/4	4,826.23	3/4		3/4		3/4		3/4		3/4	
1	3,462.16	1	3,805.50	1	4,148.90	1	4,491.52	1	4,833.35	1		1		1		1		1	
1/4	3,469.31	1/4	3,812.65	1/4	4,156.06	1/4	4,498.64	1/4	4,840.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,476.47	1/2	3,819.81	1/2	4,163.21	1/2	4,505.76	1/2	4,847.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,483.62	3/4	3,826.96	3/4	4,170.36	3/4	4,512.88	3/4	4,854.71	3/4		3/4		3/4		3/4		3/4	
2	3,490.77	2	3,834.12	2	4,177.52	2	4,520.00	2	4,861.84	2		2		2		2		2	
1/4	3,497.92	1/4	3,841.27	1/4	4,184.67	1/4	4,527.13	1/4	4,868.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,505.08	1/2	3,848.42	1/2	4,191.83	1/2	4,534.25	1/2	4,876.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,512.23	3/4	3,855.58	3/4	4,198.98	3/4	4,541.37	3/4	4,883.20	3/4		3/4		3/4		3/4		3/4	
3	3,519.38	3	3,862.73	3	4,206.13	3	4,548.49	3	4,890.32	3		3		3		3		3	
1/4	3,526.53	1/4	3,869.89	1/4	4,213.29	1/4	4,555.61	1/4	4,897.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,533.68	1/2	3,877.04	1/2	4,220.44	1/2	4,562.73	1/2	4,904.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,540.84	3/4	3,884.20	3/4	4,227.60	3/4	4,569.85	3/4	4,911.55	3/4		3/4		3/4		3/4		3/4	
4	3,547.99	4	3,891.35	4	4,234.75	4	4,576.98	4	4,918.63	4		4		4		4		4	
1/4	3,555.14	1/4	3,898.50	1/4	4,241.91	1/4	4,584.10	1/4	4,925.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.29	1/2	3,905.66	1/2	4,249.06	1/2	4,591.22	1/2	4,932.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.45	3/4	3,912.81	3/4	4,256.21	3/4	4,598.34	3/4	4,939.86	3/4		3/4		3/4		3/4		3/4	
5	3,576.60	5	3,919.97	5	4,263.37	5	4,605.46	5	4,946.93	5		5		5		5		5	
1/4	3,583.75	1/4	3,927.12	1/4	4,270.52	1/4	4,612.58	1/4	4,954.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,590.90	1/2	3,934.28	1/2	4,277.68	1/2	4,619.71	1/2	4,961.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,598.05	3/4	3,941.43	3/4	4,284.83	3/4	4,626.83	3/4	4,968.16	3/4		3/4		3/4		3/4		3/4	
6	3,605.21	6	3,948.58	6	4,291.99	6	4,633.95	6	4,975.23	6		6		6		6		6	
1/4	3,612.36	1/4	3,955.74	1/4	4,299.14	1/4	4,641.07	1/4	4,982.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,619.51	1/2	3,962.89	1/2	4,306.29	1/2	4,648.19	1/2	4,989.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,626.66	3/4	3,970.05	3/4	4,313.45	3/4	4,655.31	3/4	4,996.42	3/4		3/4		3/4		3/4		3/4	
7	3,633.81	7	3,977.20	7	4,320.60	7	4,662.43	7	5,003.48	7		7		7		7		7	
1/4	3,640.97	1/4	3,984.35	1/4	4,327.72	1/4	4,669.56	1/4	5,010.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,648.12	1/2	3,991.51	1/2	4,334.85	1/2	4,676.68	1/2	5,017.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,655.27	3/4	3,998.66	3/4	4,341.97	3/4	4,683.80	3/4	5,024.51	3/4		3/4		3/4		3/4		3/4	
8	3,662.42	8	4,005.82	8	4,349.09	8	4,690.92	8	5,031.51	8		8		8		8		8	
1/4	3,669.58	1/4	4,012.97	1/4	4,356.21	1/4	4,698.04	1/4	5,037.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,676.73	1/2	4,020.13	1/2	4,363.33	1/2	4,705.16	1/2	5,043.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,683.88	3/4	4,027.28	3/4	4,370.45	3/4	4,712.28	3/4	5,050.06	3/4		3/4		3/4		3/4		3/4	
9	3,691.03	9	4,034.43	9	4,377.57	9	4,719.41	9	5,056.24	9		9		9		9		9	
1/4	3,698.19	1/4	4,041.59	1/4	4,384.70	1/4	4,726.53	1/4	5,061.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,705.34	1/2	4,048.74	1/2	4,391.82	1/2	4,733.65	1/2	5,066.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,712.50	3/4	4,055.90	3/4	4,398.94	3/4	4,740.77	3/4	5,071.21	3/4		3/4		3/4		3/4		3/4	
10	3,719.65	10	4,063.05	10	4,406.06	10	4,747.89	10	5,076.20	10		10		10		10		10	
1/4	3,726.80	1/4	4,070.21	1/4	4,413.18	1/4	4,755.01	1/4	5,080.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,733.96	1/2	4,077.36	1/2	4,420.30	1/2	4,762.14	1/2	5,083.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,741.11	3/4	4,084.51	3/4	4,427.42	3/4	4,769.26	3/4	5,087.60	3/4		3/4		3/4		3/4		3/4	
11	3,748.27	11	4,091.67	11	4,434.55	11	4,776.38	11	5,091.39	11		11		11		11		11	
1/4	3,755.42	1/4	4,098.82	1/4	4,441.67	1/4	4,783.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,762.57	1/2	4,105.98	1/2	4,448.79	1/2	4,790.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,769.73	3/4	4,113.13	3/4	4,455.91	3/4	4,797.74	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	14.63	0	342.43	0	684.18	0	1,016.28	0	1,353.32	0	1,694.96	0	2,036.60	0	2,378.24	0	2,719.85	0	3,061.62
1/4	19.08	1/4	349.56	1/4	691.30	1/4	1,023.09	1/4	1,360.44	1/4	1,702.08	1/4	2,043.72	1/4	2,385.36	1/4	2,726.97	1/4	3,068.74
1/2	23.54	1/2	356.69	1/2	698.42	1/2	1,029.90	1/2	1,367.55	1/2	1,709.19	1/2	2,050.83	1/2	2,392.47	1/2	2,734.09	1/2	3,075.85
3/4	28.00	3/4	363.82	3/4	705.54	3/4	1,036.71	3/4	1,374.67	3/4	1,716.31	3/4	2,057.95	3/4	2,399.59	3/4	2,741.20	3/4	3,082.96
1	32.45	1	370.95	1	712.66	1	1,043.52	1	1,381.79	1	1,723.43	1	2,065.07	1	2,406.71	1	2,748.32	1	3,090.07
1/4	38.69	1/4	378.07	1/4	719.78	1/4	1,050.32	1/4	1,388.91	1/4	1,730.55	1/4	2,072.19	1/4	2,413.83	1/4	2,755.44	1/4	3,097.19
1/2	44.93	1/2	385.19	1/2	726.89	1/2	1,057.13	1/2	1,396.02	1/2	1,737.66	1/2	2,079.30	1/2	2,420.94	1/2	2,762.55	1/2	3,104.30
3/4	51.17	3/4	392.31	3/4	734.01	3/4	1,063.94	3/4	1,403.14	3/4	1,744.78	3/4	2,086.42	3/4	2,428.06	3/4	2,769.67	3/4	3,111.41
2	57.40	2	399.42	2	741.13	2	1,070.75	2	1,410.26	2	1,751.90	2	2,093.54	2	2,435.18	2	2,776.79	2	3,118.53
1/4	64.50	1/4	406.54	1/4	748.25	1/4	1,077.56	1/4	1,417.38	1/4	1,759.02	1/4	2,100.66	1/4	2,442.30	1/4	2,783.90	1/4	3,125.62
1/2	71.59	1/2	413.66	1/2	755.37	1/2	1,084.38	1/2	1,424.49	1/2	1,766.13	1/2	2,107.77	1/2	2,449.41	1/2	2,791.02	1/2	3,132.72
3/4	78.69	3/4	420.78	3/4	762.49	3/4	1,091.20	3/4	1,431.61	3/4	1,773.25	3/4	2,114.89	3/4	2,456.53	3/4	2,798.14	3/4	3,139.81
3	85.78	3	427.90	3	769.61	3	1,098.01	3	1,438.73	3	1,780.37	3	2,122.01	3	2,463.65	3	2,805.25	3	3,146.91
1/4	92.90	1/4	435.02	1/4	776.73	1/4	1,104.90	1/4	1,445.85	1/4	1,787.49	1/4	2,129.13	1/4	2,470.77	1/4	2,812.37	1/4	3,154.00
1/2	100.02	1/2	442.14	1/2	783.85	1/2	1,111.79	1/2	1,452.96	1/2	1,794.60	1/2	2,136.24	1/2	2,477.88	1/2	2,819.49	1/2	3,161.10
3/4	107.14	3/4	449.26	3/4	790.96	3/4	1,118.67	3/4	1,460.08	3/4	1,801.72	3/4	2,143.36	3/4	2,485.00	3/4	2,826.60	3/4	3,168.19
4	114.26	4	456.38	4	798.08	4	1,125.56	4	1,467.20	4	1,808.84	4	2,150.48	4	2,492.12	4	2,833.72	4	3,175.29
1/4	121.39	1/4	463.49	1/4	804.97	1/4	1,132.68	1/4	1,474.32	1/4	1,815.96	1/4	2,157.60	1/4	2,499.23	1/4	2,840.84	1/4	3,182.38
1/2	128.52	1/2	470.61	1/2	811.86	1/2	1,139.79	1/2	1,481.43	1/2	1,823.07	1/2	2,164.71	1/2	2,506.35	1/2	2,847.95	1/2	3,189.48
3/4	135.65	3/4	477.73	3/4	818.74	3/4	1,146.91	3/4	1,488.55	3/4	1,830.19	3/4	2,171.83	3/4	2,513.47	3/4	2,855.07	3/4	3,196.57
5	142.78	5	484.85	5	825.63	5	1,154.03	5	1,495.67	5	1,837.31	5	2,178.95	5	2,520.58	5	2,862.19	5	3,203.67
1/4	149.91	1/4	491.97	1/4	832.44	1/4	1,161.15	1/4	1,502.79	1/4	1,844.43	1/4	2,186.07	1/4	2,527.70	1/4	2,869.30	1/4	3,210.76
1/2	157.04	1/2	499.09	1/2	839.26	1/2	1,168.26	1/2	1,509.90	1/2	1,851.54	1/2	2,193.18	1/2	2,534.82	1/2	2,876.42	1/2	3,217.86
3/4	164.17	3/4	506.21	3/4	846.08	3/4	1,175.38	3/4	1,517.02	3/4	1,858.66	3/4	2,200.30	3/4	2,541.93	3/4	2,883.54	3/4	3,224.95
6	171.30	6	513.33	6	852.89	6	1,182.50	6	1,524.14	6	1,865.78	6	2,207.42	6	2,549.05	6	2,890.65	6	3,232.05
1/4	178.43	1/4	520.45	1/4	859.70	1/4	1,189.62	1/4	1,531.26	1/4	1,872.90	1/4	2,214.54	1/4	2,556.17	1/4	2,897.77	1/4	3,239.14
1/2	185.56	1/2	527.56	1/2	866.51	1/2	1,196.73	1/2	1,538.37	1/2	1,880.01	1/2	2,221.65	1/2	2,563.28	1/2	2,904.89	1/2	3,246.24
3/4	192.69	3/4	534.68	3/4	873.32	3/4	1,203.85	3/4	1,545.49	3/4	1,887.13	3/4	2,228.77	3/4	2,570.40	3/4	2,912.00	3/4	3,253.33
7	199.82	7	541.80	7	880.12	7	1,210.97	7	1,552.61	7	1,894.25	7	2,235.89	7	2,577.52	7	2,919.12	7	3,260.43
1/4	206.95	1/4	548.92	1/4	886.93	1/4	1,218.09	1/4	1,559.73	1/4	1,901.37	1/4	2,243.01	1/4	2,584.64	1/4	2,926.25	1/4	3,267.53
1/2	214.08	1/2	556.04	1/2	893.74	1/2	1,225.20	1/2	1,566.84	1/2	1,908.48	1/2	2,250.12	1/2	2,591.75	1/2	2,933.38	1/2	3,274.62
3/4	221.21	3/4	563.16	3/4	900.55	3/4	1,232.32	3/4	1,573.96	3/4	1,915.60	3/4	2,257.24	3/4	2,598.87	3/4	2,940.50	3/4	3,281.72
8	228.34	8	570.28	8	907.35	8	1,239.44	8	1,581.08	8	1,922.72	8	2,264.36	8	2,605.99	8	2,947.63	8	3,288.82
1/4	235.47	1/4	577.40	1/4	914.16	1/4	1,246.56	1/4	1,588.20	1/4	1,929.84	1/4	2,271.48	1/4	2,613.10	1/4	2,954.76	1/4	3,295.91
1/2	242.60	1/2	584.52	1/2	920.97	1/2	1,253.67	1/2	1,595.31	1/2	1,936.95	1/2	2,278.59	1/2	2,620.22	1/2	2,961.89	1/2	3,303.01
3/4	249.73	3/4	591.64	3/4	927.78	3/4	1,260.79	3/4	1,602.43	3/4	1,944.07	3/4	2,285.71	3/4	2,627.34	3/4	2,969.02	3/4	3,310.11
9	256.86	9	598.75	9	934.59	9	1,267.91	9	1,609.55	9	1,951.19	9	2,292.83	9	2,634.45	9	2,976.15	9	3,317.20
1/4	263.99	1/4	605.87	1/4	941.39	1/4	1,275.03	1/4	1,616.67	1/4	1,958.31	1/4	2,299.95	1/4	2,641.57	1/4	2,983.27	1/4	3,324.30
1/2	271.12	1/2	612.99	1/2	948.20	1/2	1,282.14	1/2	1,623.78	1/2	1,965.42	1/2	2,307.06	1/2	2,648.69	1/2	2,990.40	1/2	3,331.40
3/4	278.25	3/4	620.11	3/4	955.01	3/4	1,289.26	3/4	1,630.90	3/4	1,972.54	3/4	2,314.18	3/4	2,655.80	3/4	2,997.53	3/4	3,338.49
10	285.38	10	627.23	10	961.82	10	1,296.38	10	1,638.02	10	1,979.66	10	2,321.30	10	2,662.92	10	3,004.66	10	3,345.59
1/4	292.51	1/4	634.35	1/4	968.63	1/4	1,303.50	1/4	1,645.14	1/4	1,986.78	1/4	2,328.42	1/4	2,670.04	1/4	3,011.79	1/4	3,349.93
1/2	299.65	1/2	641.47	1/2	975.43	1/2	1,310.61	1/2	1,652.25	1/2	1,993.89	1/2	2,335.53	1/2	2,677.15	1/2	3,018.92	1/2	3,354.26
3/4	306.78	3/4	648.59	3/4	982.24	3/4	1,317.73	3/4	1,659.37	3/4	2,001.01	3/4	2,342.65	3/4	2,684.27	3/4	3,026.04	3/4	3,358.60
11	313.91	11	655.71	11	989.05	11	1,324.85	11	1,666.49	11	2,008.13	11	2,349.77	11	2,691.39	11	3,033.17	11	3,362.93
1/4	321.04	1/4	662.82	1/4	995.86	1/4	1,331.97	1/4	1,673.61	1/4	2,015.25	1/4	2,356.89	1/4	2,698.50	1/4	3,040.29	1/4	3,367.27
1/2	328.17	1/2	669.94	1/2	1,002.67	1/2	1,339.08	1/2	1,680.72	1/2	2,022.36	1/2	2,364.00	1/2	2,705.62	1/2	3,047.40	1/2	3,371.61
3/4	335.30	3/4	677.06	3/4	1,009.48	3/4	1,346.20	3/4	1,687.84	3/4	2,029.48	3/4	2,371.12	3/4	2,712.74	3/4	3,054.51	3/4	3,375.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

3 PORT

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	3,380.28	0	3,589.47	0	3,799.23	0	4,008.61	0	4,217.45	0		0		0		0		0	
1/4	3,384.63	1/4	3,593.84	1/4	3,803.60	1/4	4,012.96	1/4	4,221.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,388.99	1/2	3,598.21	1/2	3,807.97	1/2	4,017.31	1/2	4,226.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,393.34	3/4	3,602.58	3/4	3,812.34	3/4	4,021.66	3/4	4,230.50	3/4		3/4		3/4		3/4		3/4	
1	3,397.69	1	3,606.95	1	3,816.71	1	4,026.01	1	4,234.85	1		1		1		1		1	
1/4	3,402.05	1/4	3,611.32	1/4	3,821.08	1/4	4,030.36	1/4	4,239.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,406.40	1/2	3,615.69	1/2	3,825.45	1/2	4,034.71	1/2	4,243.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,410.76	3/4	3,620.06	3/4	3,829.82	3/4	4,039.06	3/4	4,247.91	3/4		3/4		3/4		3/4		3/4	
2	3,415.11	2	3,624.43	2	3,834.19	2	4,043.41	2	4,252.26	2		2		2		2		2	
1/4	3,419.47	1/4	3,628.80	1/4	3,838.56	1/4	4,047.76	1/4	4,256.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,423.82	1/2	3,633.17	1/2	3,842.93	1/2	4,052.12	1/2	4,260.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,428.17	3/4	3,637.54	3/4	3,847.30	3/4	4,056.47	3/4	4,265.31	3/4		3/4		3/4		3/4		3/4	
3	3,432.53	3	3,641.91	3	3,851.67	3	4,060.82	3	4,269.66	3		3		3		3		3	
1/4	3,436.88	1/4	3,646.28	1/4	3,856.04	1/4	4,065.17	1/4	4,273.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,441.24	1/2	3,650.65	1/2	3,860.41	1/2	4,069.52	1/2	4,278.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.59	3/4	3,655.02	3/4	3,864.78	3/4	4,073.87	3/4	4,282.63	3/4		3/4		3/4		3/4		3/4	
4	3,449.94	4	3,659.39	4	3,869.15	4	4,078.22	4	4,286.95	4		4		4		4		4	
1/4	3,454.30	1/4	3,663.76	1/4	3,873.52	1/4	4,082.57	1/4	4,291.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,458.65	1/2	3,668.13	1/2	3,877.89	1/2	4,086.92	1/2	4,295.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,463.01	3/4	3,672.50	3/4	3,882.26	3/4	4,091.27	3/4	4,299.92	3/4		3/4		3/4		3/4		3/4	
5	3,467.36	5	3,676.87	5	3,886.63	5	4,095.62	5	4,304.24	5		5		5		5		5	
1/4	3,471.72	1/4	3,681.24	1/4	3,891.00	1/4	4,099.98	1/4	4,308.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,476.07	1/2	3,685.61	1/2	3,895.37	1/2	4,104.33	1/2	4,312.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,480.42	3/4	3,689.98	3/4	3,899.74	3/4	4,108.68	3/4	4,317.20	3/4		3/4		3/4		3/4		3/4	
6	3,484.78	6	3,694.35	6	3,904.11	6	4,113.03	6	4,321.52	6		6		6		6		6	
1/4	3,489.13	1/4	3,698.72	1/4	3,908.48	1/4	4,117.38	1/4	4,325.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,493.49	1/2	3,703.09	1/2	3,912.85	1/2	4,121.73	1/2	4,330.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,497.84	3/4	3,707.46	3/4	3,917.22	3/4	4,126.08	3/4	4,334.45	3/4		3/4		3/4		3/4		3/4	
7	3,502.20	7	3,711.83	7	3,921.59	7	4,130.43	7	4,338.76	7		7		7		7		7	
1/4	3,506.55	1/4	3,716.20	1/4	3,925.94	1/4	4,134.78	1/4	4,343.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,510.90	1/2	3,720.57	1/2	3,930.29	1/2	4,139.13	1/2	4,347.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,515.26	3/4	3,724.94	3/4	3,934.64	3/4	4,143.48	3/4	4,351.52	3/4		3/4		3/4		3/4		3/4	
8	3,519.61	8	3,729.31	8	3,938.99	8	4,147.84	8	4,355.78	8		8		8		8		8	
1/4	3,523.97	1/4	3,733.68	1/4	3,943.34	1/4	4,152.19	1/4	4,359.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,528.32	1/2	3,738.05	1/2	3,947.69	1/2	4,156.54	1/2	4,362.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,532.67	3/4	3,742.42	3/4	3,952.05	3/4	4,160.89	3/4	4,366.08	3/4		3/4		3/4		3/4		3/4	
9	3,537.03	9	3,746.79	9	3,956.40	9	4,165.24	9	4,369.51	9		9		9		9		9	
1/4	3,541.40	1/4	3,751.16	1/4	3,960.75	1/4	4,169.59	1/4	4,371.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,545.77	1/2	3,755.53	1/2	3,965.10	1/2	4,173.94	1/2	4,374.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,550.14	3/4	3,759.90	3/4	3,969.45	3/4	4,178.29	3/4	4,376.24	3/4		3/4		3/4		3/4		3/4	
10	3,554.51	10	3,764.27	10	3,973.80	10	4,182.64	10	4,378.48	10		10		10		10		10	
1/4	3,558.88	1/4	3,768.64	1/4	3,978.15	1/4	4,186.99	1/4	4,380.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,563.25	1/2	3,773.01	1/2	3,982.50	1/2	4,191.34	1/2	4,381.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,567.62	3/4	3,777.38	3/4	3,986.85	3/4	4,195.70	3/4	4,383.60	3/4		3/4		3/4		3/4		3/4	
11	3,571.99	11	3,781.75	11	3,991.20	11	4,200.05	11	4,385.31	11		11		11		11		11	
1/4	3,576.36	1/4	3,786.12	1/4	3,995.55	1/4	4,204.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,580.73	1/2	3,790.49	1/2	3,999.90	1/2	4,208.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,585.10	3/4	3,794.86	3/4	4,004.26	3/4	4,213.10	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	342.03	0	683.89	0	1,025.39	0	1,367.12	0	1,708.99	0	2,050.87	0	2,392.74	0	2,734.33	0	3,075.33
1/4	19.06	1/4	349.15	1/4	691.01	1/4	1,032.50	1/4	1,374.25	1/4	1,716.12	1/4	2,057.99	1/4	2,399.86	1/4	2,741.43	1/4	3,082.43
1/2	23.51	1/2	356.27	1/2	698.13	1/2	1,039.61	1/2	1,381.37	1/2	1,723.24	1/2	2,065.11	1/2	2,406.98	1/2	2,748.54	1/2	3,089.53
3/4	27.96	3/4	363.39	3/4	705.25	3/4	1,046.71	3/4	1,388.49	3/4	1,730.36	3/4	2,072.23	3/4	2,414.10	3/4	2,755.64	3/4	3,096.64
1	32.41	1	370.52	1	712.38	1	1,053.82	1	1,395.61	1	1,737.48	1	2,079.35	1	2,421.22	1	2,762.75	1	3,103.74
1/4	38.64	1/4	377.64	1/4	719.50	1/4	1,060.93	1/4	1,402.74	1/4	1,744.61	1/4	2,086.48	1/4	2,428.35	1/4	2,769.85	1/4	3,110.85
1/2	44.87	1/2	384.76	1/2	726.62	1/2	1,068.04	1/2	1,409.86	1/2	1,751.73	1/2	2,093.60	1/2	2,435.47	1/2	2,776.95	1/2	3,117.95
3/4	51.11	3/4	391.88	3/4	733.74	3/4	1,075.15	3/4	1,416.98	3/4	1,758.85	3/4	2,100.72	3/4	2,442.59	3/4	2,784.06	3/4	3,125.05
2	57.34	2	399.00	2	740.86	2	1,082.26	2	1,424.10	2	1,765.97	2	2,107.84	2	2,449.71	2	2,791.16	2	3,132.16
1/4	64.42	1/4	406.13	1/4	747.99	1/4	1,089.37	1/4	1,431.23	1/4	1,773.10	1/4	2,114.97	1/4	2,456.84	1/4	2,798.27	1/4	3,139.25
1/2	71.51	1/2	413.25	1/2	755.11	1/2	1,096.49	1/2	1,438.35	1/2	1,780.22	1/2	2,122.09	1/2	2,463.96	1/2	2,805.37	1/2	3,146.33
3/4	78.59	3/4	420.37	3/4	762.23	3/4	1,103.61	3/4	1,445.47	3/4	1,787.34	3/4	2,129.21	3/4	2,471.08	3/4	2,812.47	3/4	3,153.42
3	85.68	3	427.49	3	769.35	3	1,110.72	3	1,452.59	3	1,794.46	3	2,136.33	3	2,478.20	3	2,819.58	3	3,160.51
1/4	92.79	1/4	434.61	1/4	776.48	1/4	1,117.84	1/4	1,459.71	1/4	1,801.58	1/4	2,143.46	1/4	2,485.33	1/4	2,826.68	1/4	3,167.59
1/2	99.90	1/2	441.74	1/2	783.60	1/2	1,124.97	1/2	1,466.84	1/2	1,808.71	1/2	2,150.58	1/2	2,492.45	1/2	2,833.79	1/2	3,174.68
3/4	107.01	3/4	448.86	3/4	790.72	3/4	1,132.09	3/4	1,473.96	3/4	1,815.83	3/4	2,157.70	3/4	2,499.57	3/4	2,840.89	3/4	3,181.77
4	114.13	4	455.98	4	797.84	4	1,139.21	4	1,481.08	4	1,822.95	4	2,164.82	4	2,506.69	4	2,847.99	4	3,188.85
1/4	121.25	1/4	463.10	1/4	804.96	1/4	1,146.33	1/4	1,488.20	1/4	1,830.07	1/4	2,171.94	1/4	2,513.82	1/4	2,855.10	1/4	3,195.94
1/2	128.37	1/2	470.22	1/2	812.09	1/2	1,153.46	1/2	1,495.33	1/2	1,837.20	1/2	2,179.07	1/2	2,520.94	1/2	2,862.20	1/2	3,203.03
3/4	135.49	3/4	477.35	3/4	819.21	3/4	1,160.58	3/4	1,502.45	3/4	1,844.32	3/4	2,186.19	3/4	2,528.06	3/4	2,869.31	3/4	3,210.11
5	142.61	5	484.47	5	826.33	5	1,167.70	5	1,509.57	5	1,851.44	5	2,193.31	5	2,535.19	5	2,876.41	5	3,217.20
1/4	149.73	1/4	491.59	1/4	833.45	1/4	1,174.82	1/4	1,516.69	1/4	1,858.56	1/4	2,200.43	1/4	2,542.31	1/4	2,883.52	1/4	3,224.29
1/2	156.85	1/2	498.71	1/2	840.56	1/2	1,181.94	1/2	1,523.81	1/2	1,865.69	1/2	2,207.56	1/2	2,549.43	1/2	2,890.62	1/2	3,231.37
3/4	163.97	3/4	505.84	3/4	847.68	3/4	1,189.07	3/4	1,530.94	3/4	1,872.81	3/4	2,214.68	3/4	2,556.55	3/4	2,897.72	3/4	3,238.46
6	171.10	6	512.96	6	854.79	6	1,196.19	6	1,538.06	6	1,879.93	6	2,221.80	6	2,563.68	6	2,904.83	6	3,245.55
1/4	178.22	1/4	520.08	1/4	861.90	1/4	1,203.31	1/4	1,545.18	1/4	1,887.05	1/4	2,228.92	1/4	2,570.80	1/4	2,911.93	1/4	3,252.63
1/2	185.34	1/2	527.20	1/2	869.01	1/2	1,210.43	1/2	1,552.30	1/2	1,894.17	1/2	2,236.04	1/2	2,577.92	1/2	2,919.04	1/2	3,259.72
3/4	192.46	3/4	534.32	3/4	876.12	3/4	1,217.56	3/4	1,559.43	3/4	1,901.30	3/4	2,243.17	3/4	2,585.05	3/4	2,926.14	3/4	3,266.81
7	199.59	7	541.45	7	883.23	7	1,224.68	7	1,566.55	7	1,908.42	7	2,250.29	7	2,592.17	7	2,933.24	7	3,273.89
1/4	206.71	1/4	548.57	1/4	890.33	1/4	1,231.80	1/4	1,573.67	1/4	1,915.54	1/4	2,257.41	1/4	2,599.29	1/4	2,940.35	1/4	3,280.98
1/2	213.83	1/2	555.69	1/2	897.44	1/2	1,238.92	1/2	1,580.79	1/2	1,922.66	1/2	2,264.53	1/2	2,606.42	1/2	2,947.45	1/2	3,288.07
3/4	220.95	3/4	562.81	3/4	904.55	3/4	1,246.05	3/4	1,587.92	3/4	1,929.79	3/4	2,271.66	3/4	2,613.54	3/4	2,954.56	3/4	3,295.16
8	228.07	8	569.93	8	911.66	8	1,253.17	8	1,595.04	8	1,936.91	8	2,278.78	8	2,620.66	8	2,961.66	8	3,302.24
1/4	235.20	1/4	577.06	1/4	918.77	1/4	1,260.29	1/4	1,602.16	1/4	1,944.03	1/4	2,285.90	1/4	2,627.77	1/4	2,968.76	1/4	3,309.33
1/2	242.32	1/2	584.18	1/2	925.87	1/2	1,267.41	1/2	1,609.28	1/2	1,951.15	1/2	2,293.02	1/2	2,634.87	1/2	2,975.87	1/2	3,316.42
3/4	249.44	3/4	591.30	3/4	932.98	3/4	1,274.53	3/4	1,616.40	3/4	1,958.28	3/4	2,300.15	3/4	2,641.98	3/4	2,982.97	3/4	3,323.50
9	256.56	9	598.42	9	940.09	9	1,281.66	9	1,623.53	9	1,965.40	9	2,307.27	9	2,649.08	9	2,990.08	9	3,330.59
1/4	263.68	1/4	605.54	1/4	947.20	1/4	1,288.78	1/4	1,630.65	1/4	1,972.52	1/4	2,314.39	1/4	2,656.18	1/4	2,997.18	1/4	3,337.68
1/2	270.81	1/2	612.67	1/2	954.31	1/2	1,295.90	1/2	1,637.77	1/2	1,979.64	1/2	2,321.51	1/2	2,663.29	1/2	3,004.28	1/2	3,344.76
3/4	277.93	3/4	619.79	3/4	961.41	3/4	1,303.02	3/4	1,644.89	3/4	1,986.76	3/4	2,328.63	3/4	2,670.39	3/4	3,011.39	3/4	3,351.85
10	285.05	10	626.91	10	968.52	10	1,310.15	10	1,652.02	10	1,993.89	10	2,335.76	10	2,677.50	10	3,018.49	10	3,358.94
1/4	292.17	1/4	634.03	1/4	975.63	1/4	1,317.27	1/4	1,659.14	1/4	2,001.01	1/4	2,342.88	1/4	2,684.60	1/4	3,025.60	1/4	3,363.27
1/2	299.29	1/2	641.16	1/2	982.74	1/2	1,324.39	1/2	1,666.26	1/2	2,008.13	1/2	2,350.00	1/2	2,691.70	1/2	3,032.70	1/2	3,367.60
3/4	306.42	3/4	648.28	3/4	989.85	3/4	1,331.51	3/4	1,673.38	3/4	2,015.25	3/4	2,357.12	3/4	2,698.81	3/4	3,039.81	3/4	3,371.93
11	313.54	11	655.40	11	996.96	11	1,338.64	11	1,680.51	11	2,022.38	11	2,364.25	11	2,705.91	11	3,046.91	11	3,376.27
1/4	320.66	1/4	662.52	1/4	1,004.06	1/4	1,345.76	1/4	1,687.63	1/4	2,029.50	1/4	2,371.37	1/4	2,713.02	1/4	3,054.01	1/4	3,380.60
1/2	327.78	1/2	669.64	1/2	1,011.17	1/2	1,352.88	1/2	1,694.75	1/2	2,036.62	1/2	2,378.49	1/2	2,720.12	1/2	3,061.12	1/2	3,384.93
3/4	334.91	3/4	676.77	3/4	1,018.28	3/4	1,360.00	3/4	1,701.87	3/4	2,043.74	3/4	2,385.61	3/4	2,727.23	3/4	3,068.22	3/4	3,389.26

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

3 STBD

INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	3,393.60	0	3,603.26	0	3,812.92	0	4,022.21	0	4,230.96	0		0		0		0		0	
1/4	3,397.96	1/4	3,607.63	1/4	3,817.29	1/4	4,026.56	1/4	4,235.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,402.33	1/2	3,612.00	1/2	3,821.66	1/2	4,030.91	1/2	4,239.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,406.70	3/4	3,616.36	3/4	3,826.03	3/4	4,035.26	3/4	4,244.01	3/4		3/4		3/4		3/4		3/4	
1	3,411.07	1	3,620.73	1	3,830.40	1	4,039.60	1	4,248.36	1		1		1		1		1	
1/4	3,415.44	1/4	3,625.10	1/4	3,834.76	1/4	4,043.95	1/4	4,252.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,419.80	1/2	3,629.47	1/2	3,839.13	1/2	4,048.30	1/2	4,257.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,424.17	3/4	3,633.84	3/4	3,843.50	3/4	4,052.65	3/4	4,261.40	3/4		3/4		3/4		3/4		3/4	
2	3,428.54	2	3,638.20	2	3,847.87	2	4,057.00	2	4,265.75	2		2		2		2		2	
1/4	3,432.91	1/4	3,642.57	1/4	3,852.24	1/4	4,061.35	1/4	4,270.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,437.28	1/2	3,646.94	1/2	3,856.60	1/2	4,065.70	1/2	4,274.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,441.64	3/4	3,651.31	3/4	3,860.97	3/4	4,070.05	3/4	4,278.80	3/4		3/4		3/4		3/4		3/4	
3	3,446.01	3	3,655.68	3	3,865.34	3	4,074.40	3	4,283.15	3		3		3		3		3	
1/4	3,450.38	1/4	3,660.04	1/4	3,869.71	1/4	4,078.75	1/4	4,287.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,454.75	1/2	3,664.41	1/2	3,874.08	1/2	4,083.09	1/2	4,291.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,459.12	3/4	3,668.78	3/4	3,878.44	3/4	4,087.44	3/4	4,296.11	3/4		3/4		3/4		3/4		3/4	
4	3,463.48	4	3,673.15	4	3,882.81	4	4,091.79	4	4,300.43	4		4		4		4		4	
1/4	3,467.85	1/4	3,677.52	1/4	3,887.18	1/4	4,096.14	1/4	4,304.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,472.22	1/2	3,681.88	1/2	3,891.55	1/2	4,100.49	1/2	4,309.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,476.59	3/4	3,686.25	3/4	3,895.92	3/4	4,104.84	3/4	4,313.40	3/4		3/4		3/4		3/4		3/4	
5	3,480.96	5	3,690.62	5	3,900.28	5	4,109.19	5	4,317.72	5		5		5		5		5	
1/4	3,485.32	1/4	3,694.99	1/4	3,904.65	1/4	4,113.54	1/4	4,322.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,489.69	1/2	3,699.36	1/2	3,909.02	1/2	4,117.89	1/2	4,326.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,494.06	3/4	3,703.72	3/4	3,913.39	3/4	4,122.24	3/4	4,330.67	3/4		3/4		3/4		3/4		3/4	
6	3,498.43	6	3,708.09	6	3,917.76	6	4,126.58	6	4,334.99	6		6		6		6		6	
1/4	3,502.80	1/4	3,712.46	1/4	3,922.12	1/4	4,130.93	1/4	4,339.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,507.16	1/2	3,716.83	1/2	3,926.49	1/2	4,135.28	1/2	4,343.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,511.53	3/4	3,721.20	3/4	3,930.86	3/4	4,139.63	3/4	4,347.91	3/4		3/4		3/4		3/4		3/4	
7	3,515.90	7	3,725.56	7	3,935.23	7	4,143.98	7	4,352.22	7		7		7		7		7	
1/4	3,520.27	1/4	3,729.93	1/4	3,939.58	1/4	4,148.33	1/4	4,356.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,524.64	1/2	3,734.30	1/2	3,943.93	1/2	4,152.68	1/2	4,360.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,529.00	3/4	3,738.67	3/4	3,948.28	3/4	4,157.03	3/4	4,364.98	3/4		3/4		3/4		3/4		3/4	
8	3,533.37	8	3,743.04	8	3,952.62	8	4,161.38	8	4,369.23	8		8		8		8		8	
1/4	3,537.74	1/4	3,747.40	1/4	3,956.97	1/4	4,165.73	1/4	4,372.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,542.11	1/2	3,751.77	1/2	3,961.32	1/2	4,170.07	1/2	4,376.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,546.48	3/4	3,756.14	3/4	3,965.67	3/4	4,174.42	3/4	4,379.52	3/4		3/4		3/4		3/4		3/4	
9	3,550.84	9	3,760.51	9	3,970.02	9	4,178.77	9	4,382.96	9		9		9		9		9	
1/4	3,555.21	1/4	3,764.88	1/4	3,974.37	1/4	4,183.12	1/4	4,385.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,559.58	1/2	3,769.24	1/2	3,978.72	1/2	4,187.47	1/2	4,387.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,563.95	3/4	3,773.61	3/4	3,983.07	3/4	4,191.82	3/4	4,389.69	3/4		3/4		3/4		3/4		3/4	
10	3,568.32	10	3,777.98	10	3,987.42	10	4,196.17	10	4,391.93	10		10		10		10		10	
1/4	3,572.68	1/4	3,782.35	1/4	3,991.77	1/4	4,200.52	1/4	4,393.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,577.05	1/2	3,786.72	1/2	3,996.11	1/2	4,204.87	1/2	4,395.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,581.42	3/4	3,791.08	3/4	4,000.46	3/4	4,209.22	3/4	4,397.05	3/4		3/4		3/4		3/4		3/4	
11	3,585.79	11	3,795.45	11	4,004.81	11	4,213.56	11	4,398.76	11		11		11		11		11	
1/4	3,590.16	1/4	3,799.82	1/4	4,009.16	1/4	4,217.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,594.52	1/2	3,804.19	1/2	4,013.51	1/2	4,222.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,598.89	3/4	3,808.56	3/4	4,017.86	3/4	4,226.61	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

ULLAGE (HERMETIC)

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT	=	2'-00"	
AFT DRAFT	=	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"

May 26, 2021

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

http://www.pmacorp.net

BARGE "MPX 419"

1 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	4,876.32	0	4,535.42	0	4,193.91	0	3,851.09	0	3,508.30	0	3,165.57	0	2,822.80	0	2,479.98
1/4		1/4		1/4	4,869.26	1/4	4,528.31	1/4	4,186.76	1/4	3,843.95	1/4	3,501.16	1/4	3,158.43	1/4	2,815.66	1/4	2,472.84
1/2		1/2		1/2	4,862.19	1/2	4,521.20	1/2	4,179.62	1/2	3,836.81	1/2	3,494.02	1/2	3,151.29	1/2	2,808.52	1/2	2,465.69
3/4		3/4		3/4	4,855.13	3/4	4,514.09	3/4	4,172.48	3/4	3,829.66	3/4	3,486.88	3/4	3,144.15	3/4	2,801.38	3/4	2,458.55
1		1		1	4,848.06	1	4,506.98	1	4,165.34	1	3,822.52	1	3,479.74	1	3,137.01	1	2,794.24	1	2,451.41
1/4		1/4		1/4	4,841.00	1/4	4,499.88	1/4	4,158.20	1/4	3,815.38	1/4	3,472.60	1/4	3,129.87	1/4	2,787.09	1/4	2,444.27
1/2		1/2		1/2	4,833.93	1/2	4,492.77	1/2	4,151.05	1/2	3,808.24	1/2	3,465.46	1/2	3,122.73	1/2	2,779.95	1/2	2,437.12
3/4		3/4		3/4	4,826.87	3/4	4,485.66	3/4	4,143.91	3/4	3,801.10	3/4	3,458.32	3/4	3,115.59	3/4	2,772.81	3/4	2,429.98
2		2		2	4,819.80	2	4,478.55	2	4,136.77	2	3,793.95	2	3,451.18	2	3,108.45	2	2,765.67	2	2,422.84
1/4		1/4		1/4	4,812.69	1/4	4,471.44	1/4	4,129.63	1/4	3,786.81	1/4	3,444.04	1/4	3,101.31	1/4	2,758.53	1/4	2,415.70
1/2		1/2		1/2	4,805.58	1/2	4,464.33	1/2	4,122.49	1/2	3,779.67	1/2	3,436.90	1/2	3,094.17	1/2	2,751.38	1/2	2,408.55
3/4		3/4		3/4	4,798.47	3/4	4,457.22	3/4	4,115.34	3/4	3,772.53	3/4	3,429.76	3/4	3,087.03	3/4	2,744.24	3/4	2,401.41
3		3		3	4,791.36	3	4,450.11	3	4,108.20	3	3,765.39	3	3,422.62	3	3,079.89	3	2,737.10	3	2,394.27
1/4		1/4		1/4	4,784.26	1/4	4,443.00	1/4	4,101.06	1/4	3,758.24	1/4	3,415.48	1/4	3,072.75	1/4	2,729.96	1/4	2,387.12
1/2		1/2		1/2	4,777.15	1/2	4,435.89	1/2	4,093.92	1/2	3,751.10	1/2	3,408.34	1/2	3,065.61	1/2	2,722.82	1/2	2,379.98
3/4		3/4		3/4	4,770.04	3/4	4,428.78	3/4	4,086.78	3/4	3,743.96	3/4	3,401.20	3/4	3,058.47	3/4	2,715.68	3/4	2,372.84
4		4		4	4,762.93	4	4,421.67	4	4,079.63	4	3,736.82	4	3,394.06	4	3,051.33	4	2,708.53	4	2,365.70
1/4		1/4		1/4	4,755.82	1/4	4,414.56	1/4	4,072.49	1/4	3,729.68	1/4	3,386.92	1/4	3,044.19	1/4	2,701.39	1/4	2,358.55
1/2		1/2		1/2	4,748.71	1/2	4,407.45	1/2	4,065.35	1/2	3,722.53	1/2	3,379.78	1/2	3,037.05	1/2	2,694.25	1/2	2,351.41
3/4		3/4		3/4	4,741.60	3/4	4,400.34	3/4	4,058.21	3/4	3,715.39	3/4	3,372.64	3/4	3,029.91	3/4	2,687.11	3/4	2,344.27
5		5		5	4,734.49	5	4,393.23	5	4,051.07	5	3,708.25	5	3,365.50	5	3,022.77	5	2,679.97	5	2,337.13
1/4		1/4		1/4	4,727.38	1/4	4,386.12	1/4	4,043.92	1/4	3,701.11	1/4	3,358.36	1/4	3,015.63	1/4	2,672.82	1/4	2,329.98
1/2		1/2		1/2	4,720.27	1/2	4,379.01	1/2	4,036.78	1/2	3,693.97	1/2	3,351.22	1/2	3,008.49	1/2	2,665.68	1/2	2,322.84
3/4		3/4		3/4	4,713.16	3/4	4,371.90	3/4	4,029.64	3/4	3,686.82	3/4	3,344.08	3/4	3,001.35	3/4	2,658.54	3/4	2,315.70
6		6	5,020.54	6	4,706.05	6	4,364.79	6	4,022.50	6	3,679.68	6	3,336.94	6	2,994.21	6	2,651.40	6	2,308.56
1/4		1/4	5,016.75	1/4	4,698.94	1/4	4,357.69	1/4	4,015.36	1/4	3,672.54	1/4	3,329.80	1/4	2,987.07	1/4	2,644.26	1/4	2,301.41
1/2		1/2	5,012.96	1/2	4,691.83	1/2	4,350.58	1/2	4,008.21	1/2	3,665.40	1/2	3,322.66	1/2	2,979.93	1/2	2,637.11	1/2	2,294.27
3/4		3/4	5,009.17	3/4	4,684.72	3/4	4,343.47	3/4	4,001.07	3/4	3,658.26	3/4	3,315.52	3/4	2,972.78	3/4	2,629.97	3/4	2,287.13
7		7	5,005.38	7	4,677.61	7	4,336.36	7	3,993.93	7	3,651.11	7	3,308.38	7	2,965.64	7	2,622.83	7	2,279.99
1/4		1/4	5,000.40	1/4	4,670.50	1/4	4,329.25	1/4	3,986.79	1/4	3,643.97	1/4	3,301.24	1/4	2,958.50	1/4	2,615.69	1/4	2,272.84
1/2		1/2	4,995.41	1/2	4,663.39	1/2	4,322.14	1/2	3,979.65	1/2	3,636.83	1/2	3,294.10	1/2	2,951.36	1/2	2,608.55	1/2	2,265.70
3/4		3/4	4,990.43	3/4	4,656.28	3/4	4,315.03	3/4	3,972.50	3/4	3,629.69	3/4	3,286.96	3/4	2,944.22	3/4	2,601.40	3/4	2,258.56
8		8	4,985.45	8	4,649.17	8	4,307.92	8	3,965.36	8	3,622.55	8	3,279.82	8	2,937.07	8	2,594.26	8	2,251.42
1/4		1/4	4,979.28	1/4	4,642.07	1/4	4,300.81	1/4	3,958.22	1/4	3,615.41	1/4	3,272.68	1/4	2,929.93	1/4	2,587.12	1/4	2,244.27
1/2		1/2	4,973.11	1/2	4,634.96	1/2	4,293.70	1/2	3,951.08	1/2	3,608.27	1/2	3,265.54	1/2	2,922.79	1/2	2,579.97	1/2	2,237.13
3/4		3/4	4,966.94	3/4	4,627.85	3/4	4,286.59	3/4	3,943.94	3/4	3,601.13	3/4	3,258.40	3/4	2,915.65	3/4	2,572.83	3/4	2,229.99
9		9	4,960.76	9	4,620.74	9	4,279.48	9	3,936.79	9	3,593.99	9	3,251.26	9	2,908.51	9	2,565.69	9	2,222.84
1/4		1/4	4,953.77	1/4	4,613.63	1/4	4,272.37	1/4	3,929.65	1/4	3,586.85	1/4	3,244.12	1/4	2,901.36	1/4	2,558.55	1/4	2,215.70
1/2		1/2	4,946.77	1/2	4,606.52	1/2	4,265.26	1/2	3,922.51	1/2	3,579.71	1/2	3,236.98	1/2	2,894.22	1/2	2,551.40	1/2	2,208.56
3/4		3/4	4,939.78	3/4	4,599.41	3/4	4,258.15	3/4	3,915.37	3/4	3,572.57	3/4	3,229.84	3/4	2,887.08	3/4	2,544.26	3/4	2,201.42
10		10	4,932.78	10	4,592.30	10	4,251.04	10	3,908.23	10	3,565.43	10	3,222.70	10	2,879.94	10	2,537.12	10	2,194.27
1/4		1/4	4,925.73	1/4	4,585.19	1/4	4,243.90	1/4	3,901.08	1/4	3,558.29	1/4	3,215.56	1/4	2,872.80	1/4	2,529.98	1/4	2,187.13
1/2		1/2	4,918.68	1/2	4,578.08	1/2	4,236.76	1/2	3,893.94	1/2	3,551.14	1/2	3,208.42	1/2	2,865.66	1/2	2,522.83	1/2	2,179.99
3/4		3/4	4,911.63	3/4	4,570.97	3/4	4,229.62	3/4	3,886.80	3/4	3,544.00	3/4	3,201.28	3/4	2,858.51	3/4	2,515.69	3/4	2,172.85
11		11	4,904.58	11	4,563.86	11	4,222.47	11	3,879.66	11	3,536.86	11	3,194.13	11	2,851.37	11	2,508.55	11	2,165.70
1/4		1/4	4,897.52	1/4	4,556.75	1/4	4,215.33	1/4	3,872.52	1/4	3,529.72	1/4	3,186.99	1/4	2,844.23	1/4	2,501.41	1/4	2,158.56
1/2		1/2	4,890.45	1/2	4,549.64	1/2	4,208.19	1/2	3,865.37	1/2	3,522.58	1/2	3,179.85	1/2	2,837.09	1/2	2,494.26	1/2	2,151.42
3/4		3/4	4,883.39	3/4	4,542.53	3/4	4,201.05	3/4	3,858.23	3/4	3,515.44	3/4	3,172.71	3/4	2,829.95	3/4	2,487.12	3/4	2,144.28

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "MPX 419"

1 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,137.13	0	1,794.29	0	1,451.44	0	1,108.60	0	768.25	0	426.26	0	115.47	0		0		0	
1/4	2,129.99	1/4	1,787.15	1/4	1,444.30	1/4	1,101.46	1/4	761.14	1/4	419.33	1/4	109.54	1/4		1/4		1/4	
1/2	2,122.85	1/2	1,780.00	1/2	1,437.16	1/2	1,094.31	1/2	754.03	1/2	412.39	1/2	103.61	1/2		1/2		1/2	
3/4	2,115.71	3/4	1,772.86	3/4	1,430.02	3/4	1,087.17	3/4	746.92	3/4	405.46	3/4	97.68	3/4		3/4		3/4	
1	2,108.56	1	1,765.72	1	1,422.87	1	1,080.03	1	739.81	1	398.53	1	91.75	1		1		1	
1/4	2,101.42	1/4	1,758.58	1/4	1,415.73	1/4	1,072.92	1/4	732.67	1/4	391.68	1/4	85.91	1/4		1/4		1/4	
1/2	2,094.28	1/2	1,751.43	1/2	1,408.59	1/2	1,065.81	1/2	725.53	1/2	384.83	1/2	80.07	1/2		1/2		1/2	
3/4	2,087.14	3/4	1,744.29	3/4	1,401.45	3/4	1,058.70	3/4	718.39	3/4	377.98	3/4	74.24	3/4		3/4		3/4	
2	2,079.99	2	1,737.15	2	1,394.30	2	1,051.60	2	711.24	2	371.12	2	68.40	2		2		2	
1/4	2,072.85	1/4	1,730.01	1/4	1,387.16	1/4	1,044.50	1/4	704.10	1/4	364.36	1/4	62.67	1/4		1/4		1/4	
1/2	2,065.71	1/2	1,722.86	1/2	1,380.02	1/2	1,037.41	1/2	696.96	1/2	357.59	1/2	56.94	1/2		1/2		1/2	
3/4	2,058.57	3/4	1,715.72	3/4	1,372.88	3/4	1,030.32	3/4	689.82	3/4	350.82	3/4	51.21	3/4		3/4		3/4	
3	2,051.42	3	1,708.58	3	1,365.73	3	1,023.23	3	682.68	3	344.06	3	45.48	3		3		3	
1/4	2,044.28	1/4	1,701.44	1/4	1,358.59	1/4	1,016.15	1/4	675.53	1/4	337.37	1/4	40.69	1/4		1/4		1/4	
1/2	2,037.14	1/2	1,694.29	1/2	1,351.45	1/2	1,009.07	1/2	668.39	1/2	330.69	1/2	35.90	1/2		1/2		1/2	
3/4	2,029.99	3/4	1,687.15	3/4	1,344.31	3/4	1,001.99	3/4	661.25	3/4	324.01	3/4	31.12	3/4		3/4		3/4	
4	2,022.85	4	1,680.01	4	1,337.16	4	994.90	4	654.11	4	317.32	4	26.33	4		4		4	
1/4	2,015.71	1/4	1,672.86	1/4	1,330.02	1/4	987.82	1/4	646.96	1/4	310.72	1/4	23.41	1/4		1/4		1/4	
1/2	2,008.57	1/2	1,665.72	1/2	1,322.88	1/2	980.74	1/2	639.82	1/2	304.12	1/2	20.49	1/2		1/2		1/2	
3/4	2,001.42	3/4	1,658.58	3/4	1,315.73	3/4	973.66	3/4	632.68	3/4	297.52	3/4	17.57	3/4		3/4		3/4	
5	1,994.28	5	1,651.44	5	1,308.59	5	966.58	5	625.54	5	290.92	5	14.65	5		5		5	
1/4	1,987.14	1/4	1,644.29	1/4	1,301.45	1/4	959.49	1/4	618.39	1/4	284.41	1/4		1/4		1/4		1/4	
1/2	1,980.00	1/2	1,637.15	1/2	1,294.31	1/2	952.41	1/2	611.25	1/2	277.89	1/2		1/2		1/2		1/2	
3/4	1,972.85	3/4	1,630.01	3/4	1,287.16	3/4	945.33	3/4	604.11	3/4	271.37	3/4		3/4		3/4		3/4	
6	1,965.71	6	1,622.87	6	1,280.02	6	938.25	6	596.97	6	264.86	6		6		6		6	
1/4	1,958.57	1/4	1,615.72	1/4	1,272.88	1/4	931.17	1/4	589.83	1/4	258.42	1/4		1/4		1/4		1/4	
1/2	1,951.43	1/2	1,608.58	1/2	1,265.74	1/2	924.08	1/2	582.68	1/2	251.99	1/2		1/2		1/2		1/2	
3/4	1,944.28	3/4	1,601.44	3/4	1,258.59	3/4	917.00	3/4	575.54	3/4	245.56	3/4		3/4		3/4		3/4	
7	1,937.14	7	1,594.30	7	1,251.45	7	909.92	7	568.40	7	239.13	7		7		7		7	
1/4	1,930.00	1/4	1,587.15	1/4	1,244.31	1/4	902.84	1/4	561.26	1/4	232.78	1/4		1/4		1/4		1/4	
1/2	1,922.86	1/2	1,580.01	1/2	1,237.17	1/2	895.76	1/2	554.11	1/2	226.43	1/2		1/2		1/2		1/2	
3/4	1,915.71	3/4	1,572.87	3/4	1,230.02	3/4	888.67	3/4	546.97	3/4	220.08	3/4		3/4		3/4		3/4	
8	1,908.57	8	1,565.73	8	1,222.88	8	881.59	8	539.83	8	213.73	8		8		8		8	
1/4	1,901.43	1/4	1,558.58	1/4	1,215.74	1/4	874.51	1/4	532.69	1/4	207.46	1/4		1/4		1/4		1/4	
1/2	1,894.29	1/2	1,551.44	1/2	1,208.60	1/2	867.43	1/2	525.55	1/2	201.20	1/2		1/2		1/2		1/2	
3/4	1,887.14	3/4	1,544.30	3/4	1,201.45	3/4	860.35	3/4	518.40	3/4	194.93	3/4		3/4		3/4		3/4	
9	1,880.00	9	1,537.16	9	1,194.31	9	853.26	9	511.26	9	188.66	9		9		9		9	
1/4	1,872.86	1/4	1,530.01	1/4	1,187.17	1/4	846.18	1/4	504.12	1/4	182.48	1/4		1/4		1/4		1/4	
1/2	1,865.71	1/2	1,522.87	1/2	1,180.03	1/2	839.10	1/2	496.98	1/2	176.30	1/2		1/2		1/2		1/2	
3/4	1,858.57	3/4	1,515.73	3/4	1,172.88	3/4	832.02	3/4	489.83	3/4	170.12	3/4		3/4		3/4		3/4	
10	1,851.43	10	1,508.58	10	1,165.74	10	824.94	10	482.69	10	163.93	10		10		10		10	
1/4	1,844.29	1/4	1,501.44	1/4	1,158.60	1/4	817.85	1/4	475.60	1/4	157.83	1/4		1/4		1/4		1/4	
1/2	1,837.14	1/2	1,494.30	1/2	1,151.45	1/2	810.77	1/2	468.50	1/2	151.73	1/2		1/2		1/2		1/2	
3/4	1,830.00	3/4	1,487.16	3/4	1,144.31	3/4	803.69	3/4	461.40	3/4	145.64	3/4		3/4		3/4		3/4	
11	1,822.86	11	1,480.01	11	1,137.17	11	796.61	11	454.31	11	139.54	11		11		11		11	
1/4	1,815.72	1/4	1,472.87	1/4	1,130.03	1/4	789.52	1/4	447.30	1/4	133.52	1/4		1/4		1/4		1/4	
1/2	1,808.57	1/2	1,465.73	1/2	1,122.88	1/2	782.43	1/2	440.29	1/2	127.50	1/2		1/2		1/2		1/2	
3/4	1,801.43	3/4	1,458.59	3/4	1,115.74	3/4	775.34	3/4	433.27	3/4	121.49	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

1 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	4,873.60	0	4,533.05	0	4,191.89	0	3,849.43	0	3,507.00	0	3,164.62	0	2,822.21	0	2,479.74
1/4		1/4		1/4	4,866.54	1/4	4,525.95	1/4	4,184.76	1/4	3,842.29	1/4	3,499.86	1/4	3,157.49	1/4	2,815.07	1/4	2,472.60
1/2		1/2		1/2	4,859.48	1/2	4,518.85	1/2	4,177.62	1/2	3,835.16	1/2	3,492.73	1/2	3,150.36	1/2	2,807.94	1/2	2,465.47
3/4		3/4		3/4	4,852.43	3/4	4,511.75	3/4	4,170.49	3/4	3,828.03	3/4	3,485.60	3/4	3,143.22	3/4	2,800.80	3/4	2,458.33
1		1		1	4,845.37	1	4,504.65	1	4,163.35	1	3,820.89	1	3,478.47	1	3,136.09	1	2,793.67	1	2,451.20
1/4		1/4		1/4	4,838.31	1/4	4,497.54	1/4	4,156.22	1/4	3,813.76	1/4	3,471.33	1/4	3,128.96	1/4	2,786.54	1/4	2,444.06
1/2		1/2		1/2	4,831.26	1/2	4,490.44	1/2	4,149.08	1/2	3,806.62	1/2	3,464.20	1/2	3,121.83	1/2	2,779.40	1/2	2,436.93
3/4		3/4		3/4	4,824.20	3/4	4,483.34	3/4	4,141.95	3/4	3,799.49	3/4	3,457.07	3/4	3,114.69	3/4	2,772.27	3/4	2,429.79
2		2		2	4,817.14	2	4,476.24	2	4,134.81	2	3,792.35	2	3,449.93	2	3,107.56	2	2,765.13	2	2,422.66
1/4		1/4		1/4	4,810.04	1/4	4,469.13	1/4	4,127.68	1/4	3,785.22	1/4	3,442.80	1/4	3,100.43	1/4	2,758.00	1/4	2,415.52
1/2		1/2		1/2	4,802.94	1/2	4,462.03	1/2	4,120.54	1/2	3,778.08	1/2	3,435.67	1/2	3,093.29	1/2	2,750.86	1/2	2,408.39
3/4		3/4		3/4	4,795.84	3/4	4,454.93	3/4	4,113.41	3/4	3,770.95	3/4	3,428.54	3/4	3,086.16	3/4	2,743.73	3/4	2,401.25
3		3		3	4,788.73	3	4,447.83	3	4,106.27	3	3,763.81	3	3,421.40	3	3,079.03	3	2,736.59	3	2,394.12
1/4		1/4		1/4	4,781.63	1/4	4,440.73	1/4	4,099.14	1/4	3,756.68	1/4	3,414.27	1/4	3,071.90	1/4	2,729.46	1/4	2,386.98
1/2		1/2		1/2	4,774.53	1/2	4,433.62	1/2	4,092.01	1/2	3,749.54	1/2	3,407.14	1/2	3,064.76	1/2	2,722.32	1/2	2,379.84
3/4		3/4		3/4	4,767.43	3/4	4,426.52	3/4	4,084.87	3/4	3,742.41	3/4	3,400.01	3/4	3,057.63	3/4	2,715.19	3/4	2,372.71
4		4		4	4,760.33	4	4,419.42	4	4,077.74	4	3,735.28	4	3,392.87	4	3,050.50	4	2,708.06	4	2,365.57
1/4		1/4		1/4	4,753.22	1/4	4,412.32	1/4	4,070.60	1/4	3,728.14	1/4	3,385.74	1/4	3,043.37	1/4	2,700.92	1/4	2,358.44
1/2		1/2		1/2	4,746.12	1/2	4,405.22	1/2	4,063.47	1/2	3,721.01	1/2	3,378.61	1/2	3,036.23	1/2	2,693.79	1/2	2,351.30
3/4		3/4		3/4	4,739.02	3/4	4,398.11	3/4	4,056.33	3/4	3,713.87	3/4	3,371.47	3/4	3,029.10	3/4	2,686.65	3/4	2,344.17
5		5		5	4,731.92	5	4,391.01	5	4,049.20	5	3,706.74	5	3,364.34	5	3,021.97	5	2,679.52	5	2,337.03
1/4		1/4		1/4	4,724.81	1/4	4,383.91	1/4	4,042.06	1/4	3,699.60	1/4	3,357.21	1/4	3,014.83	1/4	2,672.38	1/4	2,329.90
1/2		1/2		1/2	4,717.71	1/2	4,376.81	1/2	4,034.93	1/2	3,692.47	1/2	3,350.08	1/2	3,007.70	1/2	2,665.25	1/2	2,322.76
3/4		3/4		3/4	4,710.61	3/4	4,369.70	3/4	4,027.79	3/4	3,685.33	3/4	3,342.94	3/4	3,000.57	3/4	2,658.11	3/4	2,315.63
6		6	5,017.66	6	4,703.51	6	4,362.60	6	4,020.66	6	3,678.20	6	3,335.81	6	2,993.44	6	2,650.98	6	2,308.49
1/4		1/4	5,013.87	1/4	4,696.41	1/4	4,355.50	1/4	4,013.52	1/4	3,671.06	1/4	3,328.68	1/4	2,986.30	1/4	2,643.85	1/4	2,301.36
1/2		1/2	5,010.09	1/2	4,689.30	1/2	4,348.40	1/2	4,006.39	1/2	3,663.93	1/2	3,321.54	1/2	2,979.17	1/2	2,636.71	1/2	2,294.22
3/4		3/4	5,006.30	3/4	4,682.20	3/4	4,341.30	3/4	3,999.26	3/4	3,656.79	3/4	3,314.41	3/4	2,972.03	3/4	2,629.58	3/4	2,287.09
7		7	5,002.51	7	4,675.10	7	4,334.19	7	3,992.12	7	3,649.66	7	3,307.28	7	2,964.90	7	2,622.44	7	2,279.95
1/4		1/4	4,997.54	1/4	4,668.00	1/4	4,327.09	1/4	3,984.99	1/4	3,642.53	1/4	3,300.15	1/4	2,957.76	1/4	2,615.31	1/4	2,272.82
1/2		1/2	4,992.56	1/2	4,660.89	1/2	4,319.99	1/2	3,977.85	1/2	3,635.39	1/2	3,293.01	1/2	2,950.63	1/2	2,608.17	1/2	2,265.68
3/4		3/4	4,987.58	3/4	4,653.79	3/4	4,312.89	3/4	3,970.72	3/4	3,628.26	3/4	3,285.88	3/4	2,943.49	3/4	2,601.04	3/4	2,258.55
8		8	4,982.61	8	4,646.69	8	4,305.78	8	3,963.58	8	3,621.12	8	3,278.75	8	2,936.36	8	2,593.90	8	2,251.41
1/4		1/4	4,976.44	1/4	4,639.59	1/4	4,298.68	1/4	3,956.45	1/4	3,613.99	1/4	3,271.61	1/4	2,929.23	1/4	2,586.77	1/4	2,244.28
1/2		1/2	4,970.28	1/2	4,632.49	1/2	4,291.58	1/2	3,949.31	1/2	3,606.86	1/2	3,264.48	1/2	2,922.09	1/2	2,579.63	1/2	2,237.14
3/4		3/4	4,964.11	3/4	4,625.38	3/4	4,284.48	3/4	3,942.18	3/4	3,599.72	3/4	3,257.35	3/4	2,914.96	3/4	2,572.50	3/4	2,230.01
9		9	4,957.95	9	4,618.28	9	4,277.38	9	3,935.04	9	3,592.59	9	3,250.22	9	2,907.82	9	2,565.36	9	2,222.87
1/4		1/4	4,950.96	1/4	4,611.18	1/4	4,270.27	1/4	3,927.91	1/4	3,585.46	1/4	3,243.08	1/4	2,900.69	1/4	2,558.22	1/4	2,215.74
1/2		1/2	4,943.97	1/2	4,604.08	1/2	4,263.17	1/2	3,920.78	1/2	3,578.33	1/2	3,235.95	1/2	2,893.55	1/2	2,551.09	1/2	2,208.60
3/4		3/4	4,936.98	3/4	4,596.97	3/4	4,256.07	3/4	3,913.64	3/4	3,571.19	3/4	3,228.82	3/4	2,886.42	3/4	2,543.95	3/4	2,201.46
10		10	4,929.99	10	4,589.87	10	4,248.97	10	3,906.51	10	3,564.06	10	3,221.69	10	2,879.28	10	2,536.82	10	2,194.33
1/4		1/4	4,922.95	1/4	4,582.77	1/4	4,241.83	1/4	3,899.37	1/4	3,556.93	1/4	3,214.55	1/4	2,872.15	1/4	2,529.68	1/4	2,187.19
1/2		1/2	4,915.91	1/2	4,575.67	1/2	4,234.70	1/2	3,892.24	1/2	3,549.79	1/2	3,207.42	1/2	2,865.01	1/2	2,522.55	1/2	2,180.06
3/4		3/4	4,908.86	3/4	4,568.57	3/4	4,227.56	3/4	3,885.10	3/4	3,542.66	3/4	3,200.29	3/4	2,857.88	3/4	2,515.41	3/4	2,172.92
11		11	4,901.82	11	4,561.46	11	4,220.43	11	3,877.97	11	3,535.53	11	3,193.15	11	2,850.75	11	2,508.28	11	2,165.79
1/4		1/4	4,894.76	1/4	4,554.36	1/4	4,213.29	1/4	3,870.83	1/4	3,528.40	1/4	3,186.02	1/4	2,843.61	1/4	2,501.14	1/4	2,158.65
1/2		1/2	4,887.71	1/2	4,547.26	1/2	4,206.16	1/2	3,863.70	1/2	3,521.26	1/2	3,178.89	1/2	2,836.48	1/2	2,494.01	1/2	2,151.52
3/4		3/4	4,880.65	3/4	4,540.16	3/4	4,199.02	3/4	3,856.56	3/4	3,514.13	3/4	3,171.76	3/4	2,829.34	3/4	2,486.87	3/4	2,144.38

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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

BARGE "MPX 419"

1 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,137.25	0	1,794.76	0	1,452.27	0	1,109.78	0	767.58	0	425.77	0	115.34	0		0		0	
1/4	2,130.11	1/4	1,787.62	1/4	1,445.13	1/4	1,102.64	1/4	760.45	1/4	418.85	1/4	109.41	1/4		1/4		1/4	
1/2	2,122.98	1/2	1,780.49	1/2	1,438.00	1/2	1,095.51	1/2	753.31	1/2	411.92	1/2	103.49	1/2		1/2		1/2	
3/4	2,115.84	3/4	1,773.35	3/4	1,430.86	3/4	1,088.37	3/4	746.18	3/4	405.00	3/4	97.56	3/4		3/4		3/4	
1	2,108.71	1	1,766.22	1	1,423.73	1	1,081.24	1	739.04	1	398.07	1	91.64	1		1		1	
1/4	2,101.57	1/4	1,759.08	1/4	1,416.59	1/4	1,074.10	1/4	731.91	1/4	391.23	1/4	85.81	1/4		1/4		1/4	
1/2	2,094.44	1/2	1,751.95	1/2	1,409.46	1/2	1,066.97	1/2	724.77	1/2	384.38	1/2	79.98	1/2		1/2		1/2	
3/4	2,087.30	3/4	1,744.81	3/4	1,402.32	3/4	1,059.83	3/4	717.64	3/4	377.54	3/4	74.15	3/4		3/4		3/4	
2	2,080.17	2	1,737.68	2	1,395.19	2	1,052.70	2	710.50	2	370.70	2	68.32	2		2		2	
1/4	2,073.03	1/4	1,730.54	1/4	1,388.05	1/4	1,045.56	1/4	703.37	1/4	363.94	1/4	62.59	1/4		1/4		1/4	
1/2	2,065.90	1/2	1,723.41	1/2	1,380.92	1/2	1,038.43	1/2	696.23	1/2	357.18	1/2	56.87	1/2		1/2		1/2	
3/4	2,058.76	3/4	1,716.27	3/4	1,373.78	3/4	1,031.29	3/4	689.10	3/4	350.42	3/4	51.15	3/4		3/4		3/4	
3	2,051.63	3	1,709.14	3	1,366.65	3	1,024.16	3	681.96	3	343.66	3	45.43	3		3		3	
1/4	2,044.49	1/4	1,702.00	1/4	1,359.51	1/4	1,017.03	1/4	674.83	1/4	336.98	1/4	40.65	1/4		1/4		1/4	
1/2	2,037.36	1/2	1,694.87	1/2	1,352.38	1/2	1,009.91	1/2	667.69	1/2	330.31	1/2	35.86	1/2		1/2		1/2	
3/4	2,030.22	3/4	1,687.73	3/4	1,345.24	3/4	1,002.78	3/4	660.56	3/4	323.63	3/4	31.08	3/4		3/4		3/4	
4	2,023.08	4	1,680.60	4	1,338.11	4	995.65	4	653.42	4	316.96	4	26.30	4		4		4	
1/4	2,015.95	1/4	1,673.46	1/4	1,330.97	1/4	988.53	1/4	646.29	1/4	310.36	1/4	23.39	1/4		1/4		1/4	
1/2	2,008.81	1/2	1,666.32	1/2	1,323.84	1/2	981.40	1/2	639.15	1/2	303.77	1/2	20.47	1/2		1/2		1/2	
3/4	2,001.68	3/4	1,659.19	3/4	1,316.70	3/4	974.28	3/4	632.02	3/4	297.18	3/4	17.55	3/4		3/4		3/4	
5	1,994.54	5	1,652.05	5	1,309.56	5	967.15	5	624.88	5	290.58	5	14.63	5		5		5	
1/4	1,987.41	1/4	1,644.92	1/4	1,302.43	1/4	960.02	1/4	617.75	1/4	284.08	1/4		1/4		1/4		1/4	
1/2	1,980.27	1/2	1,637.78	1/2	1,295.29	1/2	952.90	1/2	610.61	1/2	277.57	1/2		1/2		1/2		1/2	
3/4	1,973.14	3/4	1,630.65	3/4	1,288.16	3/4	945.77	3/4	603.48	3/4	271.06	3/4		3/4		3/4		3/4	
6	1,966.00	6	1,623.51	6	1,281.02	6	938.64	6	596.34	6	264.55	6		6		6		6	
1/4	1,958.87	1/4	1,616.38	1/4	1,273.89	1/4	931.52	1/4	589.21	1/4	258.12	1/4		1/4		1/4		1/4	
1/2	1,951.73	1/2	1,609.24	1/2	1,266.75	1/2	924.39	1/2	582.07	1/2	251.70	1/2		1/2		1/2		1/2	
3/4	1,944.60	3/4	1,602.11	3/4	1,259.62	3/4	917.27	3/4	574.94	3/4	245.27	3/4		3/4		3/4		3/4	
7	1,937.46	7	1,594.97	7	1,252.48	7	910.14	7	567.81	7	238.85	7		7		7		7	
1/4	1,930.33	1/4	1,587.84	1/4	1,245.35	1/4	903.01	1/4	560.67	1/4	232.50	1/4		1/4		1/4		1/4	
1/2	1,923.19	1/2	1,580.70	1/2	1,238.21	1/2	895.89	1/2	553.54	1/2	226.16	1/2		1/2		1/2		1/2	
3/4	1,916.06	3/4	1,573.57	3/4	1,231.08	3/4	888.76	3/4	546.40	3/4	219.82	3/4		3/4		3/4		3/4	
8	1,908.92	8	1,566.43	8	1,223.94	8	881.63	8	539.27	8	213.48	8		8		8		8	
1/4	1,901.79	1/4	1,559.30	1/4	1,216.81	1/4	874.51	1/4	532.13	1/4	207.22	1/4		1/4		1/4		1/4	
1/2	1,894.65	1/2	1,552.16	1/2	1,209.67	1/2	867.38	1/2	525.00	1/2	200.96	1/2		1/2		1/2		1/2	
3/4	1,887.52	3/4	1,545.03	3/4	1,202.54	3/4	860.26	3/4	517.86	3/4	194.70	3/4		3/4		3/4		3/4	
9	1,880.38	9	1,537.89	9	1,195.40	9	853.13	9	510.73	9	188.44	9		9		9		9	
1/4	1,873.25	1/4	1,530.76	1/4	1,188.27	1/4	846.00	1/4	503.59	1/4	182.26	1/4		1/4		1/4		1/4	
1/2	1,866.11	1/2	1,523.62	1/2	1,181.13	1/2	838.88	1/2	496.46	1/2	176.09	1/2		1/2		1/2		1/2	
3/4	1,858.98	3/4	1,516.49	3/4	1,174.00	3/4	831.75	3/4	489.32	3/4	169.91	3/4		3/4		3/4		3/4	
10	1,851.84	10	1,509.35	10	1,166.86	10	824.62	10	482.19	10	163.74	10		10		10		10	
1/4	1,844.70	1/4	1,502.22	1/4	1,159.73	1/4	817.50	1/4	475.09	1/4	157.65	1/4		1/4		1/4		1/4	
1/2	1,837.57	1/2	1,495.08	1/2	1,152.59	1/2	810.37	1/2	468.00	1/2	151.55	1/2		1/2		1/2		1/2	
3/4	1,830.43	3/4	1,487.94	3/4	1,145.46	3/4	803.25	3/4	460.91	3/4	145.46	3/4		3/4		3/4		3/4	
11	1,823.30	11	1,480.81	11	1,138.32	11	796.12	11	453.81	11	139.37	11		11		11		11	
1/4	1,816.16	1/4	1,473.67	1/4	1,131.18	1/4	788.99	1/4	446.80	1/4	133.36	1/4		1/4		1/4		1/4	
1/2	1,809.03	1/2	1,466.54	1/2	1,124.05	1/2	781.85	1/2	439.79	1/2	127.35	1/2		1/2		1/2		1/2	
3/4	1,801.89	3/4	1,459.40	3/4	1,116.91	3/4	774.72	3/4	432.78	3/4	121.34	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	4,916.64	0	4,575.30	0	4,233.35	0	3,890.17	0	3,546.99	0	3,203.81	0	2,860.58	0	2,517.30
1/4		1/4		1/4	4,909.57	1/4	4,568.18	1/4	4,226.21	1/4	3,883.02	1/4	3,539.84	1/4	3,196.66	1/4	2,853.43	1/4	2,510.15
1/2		1/2		1/2	4,902.50	1/2	4,561.06	1/2	4,219.06	1/2	3,875.87	1/2	3,532.69	1/2	3,189.51	1/2	2,846.28	1/2	2,503.00
3/4		3/4		3/4	4,895.43	3/4	4,553.95	3/4	4,211.91	3/4	3,868.73	3/4	3,525.54	3/4	3,182.36	3/4	2,839.12	3/4	2,495.85
1		1		1	4,888.35	1	4,546.83	1	4,204.76	1	3,861.58	1	3,518.39	1	3,175.21	1	2,831.97	1	2,488.70
1/4		1/4		1/4	4,881.28	1/4	4,539.71	1/4	4,197.61	1/4	3,854.43	1/4	3,511.25	1/4	3,168.06	1/4	2,824.82	1/4	2,481.54
1/2		1/2		1/2	4,874.21	1/2	4,532.59	1/2	4,190.46	1/2	3,847.28	1/2	3,504.10	1/2	3,160.91	1/2	2,817.67	1/2	2,474.39
3/4		3/4		3/4	4,867.09	3/4	4,525.48	3/4	4,183.31	3/4	3,840.13	3/4	3,496.95	3/4	3,153.77	3/4	2,810.52	3/4	2,467.24
2		2		2	4,859.98	2	4,518.36	2	4,176.16	2	3,832.98	2	3,489.80	2	3,146.62	2	2,803.37	2	2,460.09
1/4		1/4		1/4	4,852.86	1/4	4,511.24	1/4	4,169.01	1/4	3,825.83	1/4	3,482.65	1/4	3,139.47	1/4	2,796.22	1/4	2,452.94
1/2		1/2		1/2	4,845.74	1/2	4,504.13	1/2	4,161.86	1/2	3,818.68	1/2	3,475.50	1/2	3,132.32	1/2	2,789.06	1/2	2,445.79
3/4		3/4		3/4	4,838.63	3/4	4,497.01	3/4	4,154.71	3/4	3,811.53	3/4	3,468.35	3/4	3,125.17	3/4	2,781.91	3/4	2,438.64
3		3		3	4,831.51	3	4,489.89	3	4,147.56	3	3,804.38	3	3,461.20	3	3,118.02	3	2,774.76	3	2,431.48
1/4		1/4		1/4	4,824.39	1/4	4,482.78	1/4	4,140.41	1/4	3,797.23	1/4	3,454.05	1/4	3,110.87	1/4	2,767.61	1/4	2,424.33
1/2		1/2		1/2	4,817.27	1/2	4,475.66	1/2	4,133.26	1/2	3,790.08	1/2	3,446.90	1/2	3,103.72	1/2	2,760.46	1/2	2,417.18
3/4		3/4		3/4	4,810.16	3/4	4,468.54	3/4	4,126.11	3/4	3,782.93	3/4	3,439.75	3/4	3,096.57	3/4	2,753.31	3/4	2,410.03
4		4		4	4,803.04	4	4,461.42	4	4,118.96	4	3,775.78	4	3,432.60	4	3,089.42	4	2,746.15	4	2,402.88
1/4		1/4		1/4	4,795.92	1/4	4,454.31	1/4	4,111.81	1/4	3,768.63	1/4	3,425.45	1/4	3,082.27	1/4	2,739.00	1/4	2,395.73
1/2		1/2		1/2	4,788.81	1/2	4,447.19	1/2	4,104.66	1/2	3,761.48	1/2	3,418.30	1/2	3,075.12	1/2	2,731.85	1/2	2,388.57
3/4		3/4		3/4	4,781.69	3/4	4,440.07	3/4	4,097.51	3/4	3,754.33	3/4	3,411.15	3/4	3,067.97	3/4	2,724.70	3/4	2,381.42
5		5		5	4,774.57	5	4,432.96	5	4,090.36	5	3,747.18	5	3,404.00	5	3,060.82	5	2,717.55	5	2,374.27
1/4		1/4		1/4	4,767.46	1/4	4,425.84	1/4	4,083.21	1/4	3,740.03	1/4	3,396.85	1/4	3,053.67	1/4	2,710.40	1/4	2,367.12
1/2		1/2	5,075.14	1/2	4,760.34	1/2	4,418.72	1/2	4,076.06	1/2	3,732.88	1/2	3,389.70	1/2	3,046.52	1/2	2,703.24	1/2	2,359.97
3/4		3/4	5,071.35	3/4	4,753.22	3/4	4,411.61	3/4	4,068.91	3/4	3,725.73	3/4	3,382.55	3/4	3,039.37	3/4	2,696.09	3/4	2,352.82
6		6	5,067.55	6	4,746.10	6	4,404.49	6	4,061.76	6	3,718.58	6	3,375.40	6	3,032.22	6	2,688.94	6	2,345.66
1/4		1/4	5,063.76	1/4	4,738.99	1/4	4,397.37	1/4	4,054.61	1/4	3,711.43	1/4	3,368.25	1/4	3,025.07	1/4	2,681.79	1/4	2,338.51
1/2		1/2	5,059.96	1/2	4,731.87	1/2	4,390.25	1/2	4,047.47	1/2	3,704.28	1/2	3,361.10	1/2	3,017.91	1/2	2,674.64	1/2	2,331.36
3/4		3/4	5,054.98	3/4	4,724.75	3/4	4,383.14	3/4	4,040.32	3/4	3,697.13	3/4	3,353.95	3/4	3,010.76	3/4	2,667.49	3/4	2,324.21
7		7	5,049.99	7	4,717.64	7	4,376.02	7	4,033.17	7	3,689.99	7	3,346.80	7	3,003.61	7	2,660.33	7	2,317.06
1/4		1/4	5,045.00	1/4	4,710.52	1/4	4,368.90	1/4	4,026.02	1/4	3,682.84	1/4	3,339.65	1/4	2,996.46	1/4	2,653.18	1/4	2,309.91
1/2		1/2	5,040.02	1/2	4,703.40	1/2	4,361.79	1/2	4,018.87	1/2	3,675.69	1/2	3,332.51	1/2	2,989.31	1/2	2,646.03	1/2	2,302.75
3/4		3/4	5,033.84	3/4	4,696.29	3/4	4,354.67	3/4	4,011.72	3/4	3,668.54	3/4	3,325.36	3/4	2,982.16	3/4	2,638.88	3/4	2,295.60
8		8	5,027.66	8	4,689.17	8	4,347.55	8	4,004.57	8	3,661.39	8	3,318.21	8	2,975.01	8	2,631.73	8	2,288.45
1/4		1/4	5,021.48	1/4	4,682.05	1/4	4,340.44	1/4	3,997.42	1/4	3,654.24	1/4	3,311.06	1/4	2,967.85	1/4	2,624.58	1/4	2,281.30
1/2		1/2	5,015.31	1/2	4,674.93	1/2	4,333.32	1/2	3,990.27	1/2	3,647.09	1/2	3,303.91	1/2	2,960.70	1/2	2,617.43	1/2	2,274.15
3/4		3/4	5,008.30	3/4	4,667.82	3/4	4,326.20	3/4	3,983.12	3/4	3,639.94	3/4	3,296.76	3/4	2,953.55	3/4	2,610.27	3/4	2,267.00
9		9	5,001.30	9	4,660.70	9	4,319.08	9	3,975.97	9	3,632.79	9	3,289.61	9	2,946.40	9	2,603.12	9	2,259.85
1/4		1/4	4,994.30	1/4	4,653.58	1/4	4,311.97	1/4	3,968.82	1/4	3,625.64	1/4	3,282.46	1/4	2,939.25	1/4	2,595.97	1/4	2,252.69
1/2		1/2	4,987.29	1/2	4,646.47	1/2	4,304.85	1/2	3,961.67	1/2	3,618.49	1/2	3,275.31	1/2	2,932.10	1/2	2,588.82	1/2	2,245.54
3/4		3/4	4,980.23	3/4	4,639.35	3/4	4,297.70	3/4	3,954.52	3/4	3,611.34	3/4	3,268.16	3/4	2,924.94	3/4	2,581.67	3/4	2,238.39
10		10	4,973.18	10	4,632.23	10	4,290.55	10	3,947.37	10	3,604.19	10	3,261.01	10	2,917.79	10	2,574.52	10	2,231.24
1/4		1/4	4,966.12	1/4	4,625.12	1/4	4,283.40	1/4	3,940.22	1/4	3,597.04	1/4	3,253.86	1/4	2,910.64	1/4	2,567.36	1/4	2,224.09
1/2		1/2	4,959.06	1/2	4,618.00	1/2	4,276.25	1/2	3,933.07	1/2	3,589.89	1/2	3,246.71	1/2	2,903.49	1/2	2,560.21	1/2	2,216.94
3/4		3/4	4,951.99	3/4	4,610.88	3/4	4,269.10	3/4	3,925.92	3/4	3,582.74	3/4	3,239.56	3/4	2,896.34	3/4	2,553.06	3/4	2,209.78
11		11	4,944.92	11	4,603.76	11	4,261.95	11	3,918.77	11	3,575.59	11	3,232.41	11	2,889.19	11	2,545.91	11	2,202.63
1/4		1/4	4,937.86	1/4	4,596.65	1/4	4,254.80	1/4	3,911.62	1/4	3,568.44	1/4	3,225.26	1/4	2,882.03	1/4	2,538.76	1/4	2,195.48
1/2		1/2	4,930.79	1/2	4,589.53	1/2	4,247.65	1/2	3,904.47	1/2	3,561.29	1/2	3,218.11	1/2	2,874.88	1/2	2,531.61	1/2	2,188.33
3/4		3/4	4,923.71	3/4	4,582.41	3/4	4,240.50	3/4	3,897.32	3/4	3,554.14	3/4	3,210.96	3/4	2,867.73	3/4	2,524.45	3/4	2,181.18

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "MPX 419"

2 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,174.03	0	1,830.75	0	1,487.47	0	1,144.20	0	814.86	0	472.15	0	128.89	0		0		0	
1/4	2,166.87	1/4	1,823.60	1/4	1,480.32	1/4	1,137.04	1/4	807.99	1/4	465.00	1/4	121.74	1/4		1/4		1/4	
1/2	2,159.72	1/2	1,816.45	1/2	1,473.17	1/2	1,129.89	1/2	801.12	1/2	457.85	1/2	114.59	1/2		1/2		1/2	
3/4	2,152.57	3/4	1,809.29	3/4	1,466.02	3/4	1,123.02	3/4	793.97	3/4	450.70	3/4	107.45	3/4		3/4		3/4	
1	2,145.42	1	1,802.14	1	1,458.87	1	1,116.15	1	786.82	1	443.55	1	100.31	1		1		1	
1/4	2,138.27	1/4	1,794.99	1/4	1,451.71	1/4	1,109.28	1/4	779.66	1/4	436.40	1/4	93.17	1/4		1/4		1/4	
1/2	2,131.12	1/2	1,787.84	1/2	1,444.56	1/2	1,102.42	1/2	772.51	1/2	429.25	1/2	86.03	1/2		1/2		1/2	
3/4	2,123.96	3/4	1,780.69	3/4	1,437.41	3/4	1,095.56	3/4	765.36	3/4	422.09	3/4	78.91	3/4		3/4		3/4	
2	2,116.81	2	1,773.54	2	1,430.26	2	1,088.71	2	758.21	2	414.94	2	71.80	2		2		2	
1/4	2,109.66	1/4	1,766.38	1/4	1,423.11	1/4	1,081.86	1/4	751.06	1/4	407.79	1/4	64.68	1/4		1/4		1/4	
1/2	2,102.51	1/2	1,759.23	1/2	1,415.96	1/2	1,075.01	1/2	743.91	1/2	400.64	1/2	57.57	1/2		1/2		1/2	
3/4	2,095.36	3/4	1,752.08	3/4	1,408.80	3/4	1,068.16	3/4	736.76	3/4	393.49	3/4	51.31	3/4		3/4		3/4	
3	2,088.21	3	1,744.93	3	1,401.65	3	1,061.32	3	729.60	3	386.34	3	45.05	3		3		3	
1/4	2,081.06	1/4	1,737.78	1/4	1,394.50	1/4	1,054.47	1/4	722.45	1/4	379.19	1/4	38.80	1/4		1/4		1/4	
1/2	2,073.90	1/2	1,730.63	1/2	1,387.35	1/2	1,047.63	1/2	715.30	1/2	372.03	1/2	32.54	1/2		1/2		1/2	
3/4	2,066.75	3/4	1,723.48	3/4	1,380.20	3/4	1,040.79	3/4	708.15	3/4	364.88	3/4	28.07	3/4		3/4		3/4	
4	2,059.60	4	1,716.32	4	1,373.05	4	1,033.94	4	701.00	4	357.73	4	23.60	4		4		4	
1/4	2,052.45	1/4	1,709.17	1/4	1,365.90	1/4	1,027.10	1/4	693.85	1/4	350.58	1/4	19.13	1/4		1/4		1/4	
1/2	2,045.30	1/2	1,702.02	1/2	1,358.74	1/2	1,020.25	1/2	686.70	1/2	343.43	1/2	14.67	1/2		1/2		1/2	
3/4	2,038.15	3/4	1,694.87	3/4	1,351.59	3/4	1,013.41	3/4	679.54	3/4	336.28	3/4		3/4		3/4		3/4	
5	2,030.99	5	1,687.72	5	1,344.44	5	1,006.57	5	672.39	5	329.13	5		5		5		5	
1/4	2,023.84	1/4	1,680.57	1/4	1,337.29	1/4	999.72	1/4	665.24	1/4	321.97	1/4		1/4		1/4		1/4	
1/2	2,016.69	1/2	1,673.41	1/2	1,330.14	1/2	992.88	1/2	658.09	1/2	314.82	1/2		1/2		1/2		1/2	
3/4	2,009.54	3/4	1,666.26	3/4	1,322.99	3/4	986.03	3/4	650.94	3/4	307.67	3/4		3/4		3/4		3/4	
6	2,002.39	6	1,659.11	6	1,315.83	6	979.19	6	643.79	6	300.52	6		6		6		6	
1/4	1,995.24	1/4	1,651.96	1/4	1,308.68	1/4	972.35	1/4	636.64	1/4	293.37	1/4		1/4		1/4		1/4	
1/2	1,988.08	1/2	1,644.81	1/2	1,301.53	1/2	965.50	1/2	629.48	1/2	286.22	1/2		1/2		1/2		1/2	
3/4	1,980.93	3/4	1,637.66	3/4	1,294.38	3/4	958.66	3/4	622.33	3/4	279.07	3/4		3/4		3/4		3/4	
7	1,973.78	7	1,630.50	7	1,287.23	7	951.81	7	615.18	7	271.91	7		7		7		7	
1/4	1,966.63	1/4	1,623.35	1/4	1,280.08	1/4	944.97	1/4	608.03	1/4	264.76	1/4		1/4		1/4		1/4	
1/2	1,959.48	1/2	1,616.20	1/2	1,272.92	1/2	938.13	1/2	600.88	1/2	257.61	1/2		1/2		1/2		1/2	
3/4	1,952.33	3/4	1,609.05	3/4	1,265.77	3/4	931.28	3/4	593.73	3/4	250.46	3/4		3/4		3/4		3/4	
8	1,945.17	8	1,601.90	8	1,258.62	8	924.44	8	586.58	8	243.31	8		8		8		8	
1/4	1,938.02	1/4	1,594.75	1/4	1,251.47	1/4	917.59	1/4	579.42	1/4	236.16	1/4		1/4		1/4		1/4	
1/2	1,930.87	1/2	1,587.59	1/2	1,244.32	1/2	910.75	1/2	572.27	1/2	229.01	1/2		1/2		1/2		1/2	
3/4	1,923.72	3/4	1,580.44	3/4	1,237.17	3/4	903.91	3/4	565.12	3/4	221.85	3/4		3/4		3/4		3/4	
9	1,916.57	9	1,573.29	9	1,230.01	9	897.06	9	557.97	9	214.70	9		9		9		9	
1/4	1,909.42	1/4	1,566.14	1/4	1,222.86	1/4	890.22	1/4	550.82	1/4	207.55	1/4		1/4		1/4		1/4	
1/2	1,902.27	1/2	1,558.99	1/2	1,215.71	1/2	883.38	1/2	543.67	1/2	200.40	1/2		1/2		1/2		1/2	
3/4	1,895.11	3/4	1,551.84	3/4	1,208.56	3/4	876.53	3/4	536.52	3/4	193.25	3/4		3/4		3/4		3/4	
10	1,887.96	10	1,544.69	10	1,201.41	10	869.69	10	529.37	10	186.10	10		10		10		10	
1/4	1,880.81	1/4	1,537.53	1/4	1,194.26	1/4	862.84	1/4	522.21	1/4	178.95	1/4		1/4		1/4		1/4	
1/2	1,873.66	1/2	1,530.38	1/2	1,187.11	1/2	856.00	1/2	515.06	1/2	171.80	1/2		1/2		1/2		1/2	
3/4	1,866.51	3/4	1,523.23	3/4	1,179.95	3/4	849.15	3/4	507.91	3/4	164.64	3/4		3/4		3/4		3/4	
11	1,859.36	11	1,516.08	11	1,172.80	11	842.30	11	500.76	11	157.49	11		11		11		11	
1/4	1,852.20	1/4	1,508.93	1/4	1,165.65	1/4	835.44	1/4	493.61	1/4	150.34	1/4		1/4		1/4		1/4	
1/2	1,845.05	1/2	1,501.78	1/2	1,158.50	1/2	828.59	1/2	486.46	1/2	143.19	1/2		1/2		1/2		1/2	
3/4	1,837.90	3/4	1,494.62	3/4	1,151.35	3/4	821.72	3/4	479.31	3/4	136.04	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	4,918.63	0	4,576.97	0	4,234.75	0	3,891.35	0	3,547.99	0	3,204.68	0	2,861.32	0	2,517.92
1/4		1/4		1/4	4,911.55	1/4	4,569.85	1/4	4,227.59	1/4	3,884.19	1/4	3,540.83	1/4	3,197.53	1/4	2,854.16	1/4	2,510.76
1/2		1/2		1/2	4,904.47	1/2	4,562.73	1/2	4,220.44	1/2	3,877.04	1/2	3,533.68	1/2	3,190.38	1/2	2,847.01	1/2	2,503.61
3/4		3/4		3/4	4,897.40	3/4	4,555.61	3/4	4,213.29	3/4	3,869.88	3/4	3,526.53	3/4	3,183.22	3/4	2,839.86	3/4	2,496.45
1		1		1	4,890.32	1	4,548.49	1	4,206.13	1	3,862.73	1	3,519.38	1	3,176.07	1	2,832.70	1	2,489.30
1/4		1/4		1/4	4,883.20	1/4	4,541.37	1/4	4,198.98	1/4	3,855.58	1/4	3,512.22	1/4	3,168.92	1/4	2,825.55	1/4	2,482.15
1/2		1/2		1/2	4,876.08	1/2	4,534.24	1/2	4,191.82	1/2	3,848.42	1/2	3,505.07	1/2	3,161.77	1/2	2,818.39	1/2	2,474.99
3/4		3/4		3/4	4,868.96	3/4	4,527.12	3/4	4,184.67	3/4	3,841.27	3/4	3,497.92	3/4	3,154.61	3/4	2,811.24	3/4	2,467.84
2		2		2	4,861.83	2	4,520.00	2	4,177.52	2	3,834.11	2	3,490.77	2	3,147.46	2	2,804.09	2	2,460.68
1/4		1/4		1/4	4,854.71	1/4	4,512.88	1/4	4,170.36	1/4	3,826.96	1/4	3,483.62	1/4	3,140.31	1/4	2,796.93	1/4	2,453.53
1/2		1/2		1/2	4,847.59	1/2	4,505.76	1/2	4,163.21	1/2	3,819.81	1/2	3,476.46	1/2	3,133.16	1/2	2,789.78	1/2	2,446.38
3/4		3/4		3/4	4,840.47	3/4	4,498.64	3/4	4,156.05	3/4	3,812.65	3/4	3,469.31	3/4	3,126.01	3/4	2,782.62	3/4	2,439.22
3		3		3	4,833.35	3	4,491.52	3	4,148.90	3	3,805.50	3	3,462.16	3	3,118.85	3	2,775.47	3	2,432.07
1/4		1/4		1/4	4,826.23	1/4	4,484.39	1/4	4,141.74	1/4	3,798.34	1/4	3,455.01	1/4	3,111.70	1/4	2,768.31	1/4	2,424.91
1/2		1/2		1/2	4,819.10	1/2	4,477.27	1/2	4,134.59	1/2	3,791.19	1/2	3,447.86	1/2	3,104.55	1/2	2,761.16	1/2	2,417.76
3/4		3/4		3/4	4,811.98	3/4	4,470.15	3/4	4,127.44	3/4	3,784.03	3/4	3,440.70	3/4	3,097.40	3/4	2,754.01	3/4	2,410.60
4		4		4	4,804.86	4	4,463.03	4	4,120.28	4	3,776.88	4	3,433.55	4	3,090.25	4	2,746.85	4	2,403.45
1/4		1/4		1/4	4,797.74	1/4	4,455.91	1/4	4,113.13	1/4	3,769.73	1/4	3,426.40	1/4	3,083.09	1/4	2,739.70	1/4	2,396.30
1/2		1/2		1/2	4,790.62	1/2	4,448.79	1/2	4,105.97	1/2	3,762.57	1/2	3,419.25	1/2	3,075.94	1/2	2,732.54	1/2	2,389.14
3/4		3/4		3/4	4,783.50	3/4	4,441.67	3/4	4,098.82	3/4	3,755.42	3/4	3,412.09	3/4	3,068.79	3/4	2,725.39	3/4	2,381.99
5		5	5,091.39	5	4,776.38	5	4,434.54	5	4,091.67	5	3,748.26	5	3,404.94	5	3,061.64	5	2,718.23	5	2,374.83
1/4		1/4	5,087.59	1/4	4,769.25	1/4	4,427.42	1/4	4,084.51	1/4	3,741.11	1/4	3,397.79	1/4	3,054.48	1/4	2,711.08	1/4	2,367.68
1/2		1/2	5,083.80	1/2	4,762.13	1/2	4,420.30	1/2	4,077.36	1/2	3,733.96	1/2	3,390.64	1/2	3,047.33	1/2	2,703.93	1/2	2,360.52
3/4		3/4	5,080.00	3/4	4,755.01	3/4	4,413.18	3/4	4,070.20	3/4	3,726.80	3/4	3,383.49	3/4	3,040.17	3/4	2,696.77	3/4	2,353.37
6		6	5,076.20	6	4,747.89	6	4,406.06	6	4,063.05	6	3,719.65	6	3,376.33	6	3,033.02	6	2,689.62	6	2,346.22
1/4		1/4	5,071.21	1/4	4,740.77	1/4	4,398.94	1/4	4,055.89	1/4	3,712.49	1/4	3,369.18	1/4	3,025.87	1/4	2,682.46	1/4	2,339.06
1/2		1/2	5,066.22	1/2	4,733.65	1/2	4,391.81	1/2	4,048.74	1/2	3,705.34	1/2	3,362.03	1/2	3,018.71	1/2	2,675.31	1/2	2,331.91
3/4		3/4	5,061.23	3/4	4,726.53	3/4	4,384.69	3/4	4,041.59	3/4	3,698.18	3/4	3,354.88	3/4	3,011.56	3/4	2,668.16	3/4	2,324.75
7		7	5,056.24	7	4,719.40	7	4,377.57	7	4,034.43	7	3,691.03	7	3,347.72	7	3,004.40	7	2,661.00	7	2,317.60
1/4		1/4	5,050.06	1/4	4,712.28	1/4	4,370.45	1/4	4,027.28	1/4	3,683.88	1/4	3,340.57	1/4	2,997.25	1/4	2,653.85	1/4	2,310.45
1/2		1/2	5,043.88	1/2	4,705.16	1/2	4,363.33	1/2	4,020.12	1/2	3,676.73	1/2	3,333.42	1/2	2,990.09	1/2	2,646.69	1/2	2,303.29
3/4		3/4	5,037.69	3/4	4,698.04	3/4	4,356.21	3/4	4,012.97	3/4	3,669.57	3/4	3,326.27	3/4	2,982.94	3/4	2,639.54	3/4	2,296.14
8		8	5,031.51	8	4,690.92	8	4,349.09	8	4,005.81	8	3,662.42	8	3,319.12	8	2,975.79	8	2,632.38	8	2,288.98
1/4		1/4	5,024.50	1/4	4,683.80	1/4	4,341.96	1/4	3,998.66	1/4	3,655.27	1/4	3,311.96	1/4	2,968.63	1/4	2,625.23	1/4	2,281.83
1/2		1/2	5,017.50	1/2	4,676.67	1/2	4,334.84	1/2	3,991.51	1/2	3,648.12	1/2	3,304.81	1/2	2,961.48	1/2	2,618.08	1/2	2,274.67
3/4		3/4	5,010.49	3/4	4,669.55	3/4	4,327.72	3/4	3,984.35	3/4	3,640.96	3/4	3,297.66	3/4	2,954.32	3/4	2,610.92	3/4	2,267.52
9		9	5,003.48	9	4,662.43	9	4,320.60	9	3,977.20	9	3,633.81	9	3,290.51	9	2,947.17	9	2,603.77	9	2,260.37
1/4		1/4	4,996.42	1/4	4,655.31	1/4	4,313.45	1/4	3,970.04	1/4	3,626.66	1/4	3,283.35	1/4	2,940.01	1/4	2,596.61	1/4	2,253.21
1/2		1/2	4,989.36	1/2	4,648.19	1/2	4,306.29	1/2	3,962.89	1/2	3,619.51	1/2	3,276.20	1/2	2,932.86	1/2	2,589.46	1/2	2,246.06
3/4		3/4	4,982.29	3/4	4,641.07	3/4	4,299.14	3/4	3,955.74	3/4	3,612.36	3/4	3,269.05	3/4	2,925.71	3/4	2,582.31	3/4	2,238.90
10		10	4,975.23	10	4,633.95	10	4,291.98	10	3,948.58	10	3,605.20	10	3,261.90	10	2,918.55	10	2,575.15	10	2,231.75
1/4		1/4	4,968.16	1/4	4,626.82	1/4	4,284.83	1/4	3,941.43	1/4	3,598.05	1/4	3,254.75	1/4	2,911.40	1/4	2,568.00	1/4	2,224.60
1/2		1/2	4,961.08	1/2	4,619.70	1/2	4,277.67	1/2	3,934.27	1/2	3,590.90	1/2	3,247.59	1/2	2,904.24	1/2	2,560.84	1/2	2,217.44
3/4		3/4	4,954.01	3/4	4,612.58	3/4	4,270.52	3/4	3,927.12	3/4	3,583.75	3/4	3,240.44	3/4	2,897.09	3/4	2,553.69	3/4	2,210.29
11		11	4,946.93	11	4,605.46	11	4,263.37	11	3,919.96	11	3,576.59	11	3,233.29	11	2,889.94	11	2,546.53	11	2,203.13
1/4		1/4	4,939.86	1/4	4,598.34	1/4	4,256.21	1/4	3,912.81	1/4	3,569.44	1/4	3,226.14	1/4	2,882.78	1/4	2,539.38	1/4	2,195.98
1/2		1/2	4,932.78	1/2	4,591.22	1/2	4,249.06	1/2	3,905.66	1/2	3,562.29	1/2	3,218.98	1/2	2,875.63	1/2	2,532.23	1/2	2,188.82
3/4		3/4	4,925.70	3/4	4,584.10	3/4	4,241.90	3/4	3,898.50	3/4	3,555.14	3/4	3,211.83	3/4	2,868.47	3/4	2,525.07	3/4	2,181.67

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "MPX 419"

2 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	2,174.52	0	1,831.11	0	1,487.71	0	1,144.31	0	801.40	0	458.02	0	114.63	0		0		0	
1/4	2,167.36	1/4	1,823.96	1/4	1,480.56	1/4	1,137.16	1/4	794.25	1/4	450.86	1/4	107.49	1/4		1/4		1/4	
1/2	2,160.21	1/2	1,816.81	1/2	1,473.40	1/2	1,130.00	1/2	787.10	1/2	443.71	1/2	100.35	1/2		1/2		1/2	
3/4	2,153.05	3/4	1,809.65	3/4	1,466.25	3/4	1,122.85	3/4	779.94	3/4	436.55	3/4	93.20	3/4		3/4		3/4	
1	2,145.90	1	1,802.50	1	1,459.10	1	1,115.69	1	772.79	1	429.40	1	86.06	1		1		1	
1/4	2,138.74	1/4	1,795.34	1/4	1,451.94	1/4	1,108.55	1/4	765.63	1/4	422.25	1/4	78.94	1/4		1/4		1/4	
1/2	2,131.59	1/2	1,788.19	1/2	1,444.79	1/2	1,101.40	1/2	758.48	1/2	415.09	1/2	71.82	1/2		1/2		1/2	
3/4	2,124.44	3/4	1,781.03	3/4	1,437.63	3/4	1,094.25	3/4	751.33	3/4	407.94	3/4	64.71	3/4		3/4		3/4	
2	2,117.28	2	1,773.88	2	1,430.48	2	1,087.10	2	744.17	2	400.78	2	57.59	2		2		2	
1/4	2,110.13	1/4	1,766.73	1/4	1,423.32	1/4	1,079.96	1/4	737.02	1/4	393.63	1/4	51.33	1/4		1/4		1/4	
1/2	2,102.97	1/2	1,759.57	1/2	1,416.17	1/2	1,072.82	1/2	729.86	1/2	386.48	1/2	45.07	1/2		1/2		1/2	
3/4	2,095.82	3/4	1,752.42	3/4	1,409.02	3/4	1,065.68	3/4	722.71	3/4	379.32	3/4	38.81	3/4		3/4		3/4	
3	2,088.67	3	1,745.26	3	1,401.86	3	1,058.54	3	715.56	3	372.17	3	32.56	3		3		3	
1/4	2,081.51	1/4	1,738.11	1/4	1,394.71	1/4	1,051.40	1/4	708.40	1/4	365.01	1/4	28.08	1/4		1/4		1/4	
1/2	2,074.36	1/2	1,730.96	1/2	1,387.55	1/2	1,044.26	1/2	701.25	1/2	357.86	1/2	23.61	1/2		1/2		1/2	
3/4	2,067.20	3/4	1,723.80	3/4	1,380.40	3/4	1,037.12	3/4	694.09	3/4	350.71	3/4	19.14	3/4		3/4		3/4	
4	2,060.05	4	1,716.65	4	1,373.25	4	1,029.98	4	686.94	4	343.55	4	14.67	4		4		4	
1/4	2,052.89	1/4	1,709.49	1/4	1,366.09	1/4	1,022.84	1/4	679.79	1/4	336.40	1/4		1/4		1/4		1/4	
1/2	2,045.74	1/2	1,702.34	1/2	1,358.94	1/2	1,015.70	1/2	672.63	1/2	329.25	1/2		1/2		1/2		1/2	
3/4	2,038.59	3/4	1,695.18	3/4	1,351.78	3/4	1,008.56	3/4	665.48	3/4	322.09	3/4		3/4		3/4		3/4	
5	2,031.43	5	1,688.03	5	1,344.63	5	1,001.42	5	658.32	5	314.94	5		5		5		5	
1/4	2,024.28	1/4	1,680.88	1/4	1,337.47	1/4	994.28	1/4	651.17	1/4	307.78	1/4		1/4		1/4		1/4	
1/2	2,017.12	1/2	1,673.72	1/2	1,330.32	1/2	987.14	1/2	644.02	1/2	300.63	1/2		1/2		1/2		1/2	
3/4	2,009.97	3/4	1,666.57	3/4	1,323.17	3/4	980.00	3/4	636.86	3/4	293.48	3/4		3/4		3/4		3/4	
6	2,002.81	6	1,659.41	6	1,316.01	6	972.86	6	629.71	6	286.32	6		6		6		6	
1/4	1,995.66	1/4	1,652.26	1/4	1,308.86	1/4	965.72	1/4	622.56	1/4	279.17	1/4		1/4		1/4		1/4	
1/2	1,988.51	1/2	1,645.10	1/2	1,301.70	1/2	958.58	1/2	615.40	1/2	272.01	1/2		1/2		1/2		1/2	
3/4	1,981.35	3/4	1,637.95	3/4	1,294.55	3/4	951.44	3/4	608.25	3/4	264.86	3/4		3/4		3/4		3/4	
7	1,974.20	7	1,630.80	7	1,287.39	7	944.30	7	601.09	7	257.71	7		7		7		7	
1/4	1,967.04	1/4	1,623.64	1/4	1,280.24	1/4	937.16	1/4	593.94	1/4	250.55	1/4		1/4		1/4		1/4	
1/2	1,959.89	1/2	1,616.49	1/2	1,273.09	1/2	930.02	1/2	586.79	1/2	243.40	1/2		1/2		1/2		1/2	
3/4	1,952.74	3/4	1,609.33	3/4	1,265.93	3/4	922.88	3/4	579.63	3/4	236.24	3/4		3/4		3/4		3/4	
8	1,945.58	8	1,602.18	8	1,258.78	8	915.74	8	572.48	8	229.09	8		8		8		8	
1/4	1,938.43	1/4	1,595.03	1/4	1,251.62	1/4	908.60	1/4	565.32	1/4	221.94	1/4		1/4		1/4		1/4	
1/2	1,931.27	1/2	1,587.87	1/2	1,244.47	1/2	901.46	1/2	558.17	1/2	214.78	1/2		1/2		1/2		1/2	
3/4	1,924.12	3/4	1,580.72	3/4	1,237.32	3/4	894.32	3/4	551.02	3/4	207.63	3/4		3/4		3/4		3/4	
9	1,916.96	9	1,573.56	9	1,230.16	9	887.18	9	543.86	9	200.48	9		9		9		9	
1/4	1,909.81	1/4	1,566.41	1/4	1,223.01	1/4	880.04	1/4	536.71	1/4	193.32	1/4		1/4		1/4		1/4	
1/2	1,902.66	1/2	1,559.25	1/2	1,215.85	1/2	872.90	1/2	529.55	1/2	186.17	1/2		1/2		1/2		1/2	
3/4	1,895.50	3/4	1,552.10	3/4	1,208.70	3/4	865.76	3/4	522.40	3/4	179.01	3/4		3/4		3/4		3/4	
10	1,888.35	10	1,544.95	10	1,201.54	10	858.62	10	515.25	10	171.86	10		10		10		10	
1/4	1,881.19	1/4	1,537.79	1/4	1,194.39	1/4	851.47	1/4	508.09	1/4	164.71	1/4		1/4		1/4		1/4	
1/2	1,874.04	1/2	1,530.64	1/2	1,187.24	1/2	844.32	1/2	500.94	1/2	157.55	1/2		1/2		1/2		1/2	
3/4	1,866.89	3/4	1,523.48	3/4	1,180.08	3/4	837.17	3/4	493.79	3/4	150.40	3/4		3/4		3/4		3/4	
11	1,859.73	11	1,516.33	11	1,172.93	11	830.02	11	486.63	11	143.24	11		11		11		11	
1/4	1,852.58	1/4	1,509.18	1/4	1,165.77	1/4	822.86	1/4	479.48	1/4	136.09	1/4		1/4		1/4		1/4	
1/2	1,845.42	1/2	1,502.02	1/2	1,158.62	1/2	815.71	1/2	472.32	1/2	128.94	1/2		1/2		1/2		1/2	
3/4	1,838.27	3/4	1,494.87	3/4	1,151.47	3/4	808.56	3/4	465.17	3/4	121.79	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 PORT

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,304.24	0	4,095.62	0	3,886.63	0	3,676.87	0	3,467.36	0	3,203.67	0	2,862.19	0	2,520.58
1/4		1/4		1/4	4,299.92	1/4	4,091.27	1/4	3,882.26	1/4	3,672.50	1/4	3,463.01	1/4	3,196.57	1/4	2,855.07	1/4	2,513.47
1/2		1/2		1/2	4,295.60	1/2	4,086.92	1/2	3,877.89	1/2	3,668.13	1/2	3,458.65	1/2	3,189.48	1/2	2,847.95	1/2	2,506.35
3/4		3/4		3/4	4,291.27	3/4	4,082.57	3/4	3,873.52	3/4	3,663.76	3/4	3,454.30	3/4	3,182.38	3/4	2,840.84	3/4	2,499.23
1		1		1	4,286.95	1	4,078.22	1	3,869.15	1	3,659.39	1	3,449.94	1	3,175.29	1	2,833.72	1	2,492.12
1/4		1/4		1/4	4,282.63	1/4	4,073.87	1/4	3,864.78	1/4	3,655.02	1/4	3,445.59	1/4	3,168.19	1/4	2,826.60	1/4	2,485.00
1/2		1/2		1/2	4,278.31	1/2	4,069.52	1/2	3,860.41	1/2	3,650.65	1/2	3,441.24	1/2	3,161.10	1/2	2,819.48	1/2	2,477.88
3/4		3/4		3/4	4,273.98	3/4	4,065.17	3/4	3,856.04	3/4	3,646.28	3/4	3,436.88	3/4	3,154.00	3/4	2,812.37	3/4	2,470.76
2		2		2	4,269.66	2	4,060.82	2	3,851.67	2	3,641.91	2	3,432.53	2	3,146.90	2	2,805.25	2	2,463.65
1/4		1/4		1/4	4,265.31	1/4	4,056.47	1/4	3,847.30	1/4	3,637.54	1/4	3,428.17	1/4	3,139.81	1/4	2,798.13	1/4	2,456.53
1/2		1/2		1/2	4,260.96	1/2	4,052.11	1/2	3,842.93	1/2	3,633.17	1/2	3,423.82	1/2	3,132.71	1/2	2,791.02	1/2	2,449.41
3/4		3/4		3/4	4,256.61	3/4	4,047.76	3/4	3,838.56	3/4	3,628.80	3/4	3,419.46	3/4	3,125.62	3/4	2,783.90	3/4	2,442.29
3		3		3	4,252.26	3	4,043.41	3	3,834.19	3	3,624.43	3	3,415.11	3	3,118.52	3	2,776.78	3	2,435.18
1/4		1/4		1/4	4,247.91	1/4	4,039.06	1/4	3,829.82	1/4	3,620.06	1/4	3,410.76	1/4	3,111.41	1/4	2,769.67	1/4	2,428.06
1/2		1/2		1/2	4,243.55	1/2	4,034.71	1/2	3,825.45	1/2	3,615.69	1/2	3,406.40	1/2	3,104.30	1/2	2,762.55	1/2	2,420.94
3/4		3/4		3/4	4,239.20	3/4	4,030.36	3/4	3,821.08	3/4	3,611.32	3/4	3,402.05	3/4	3,097.19	3/4	2,755.43	3/4	2,413.82
4		4		4	4,234.85	4	4,026.01	4	3,816.71	4	3,606.95	4	3,397.69	4	3,090.07	4	2,748.32	4	2,406.71
1/4		1/4		1/4	4,230.50	1/4	4,021.66	1/4	3,812.34	1/4	3,602.58	1/4	3,393.34	1/4	3,082.96	1/4	2,741.20	1/4	2,399.59
1/2		1/2		1/2	4,226.15	1/2	4,017.31	1/2	3,807.97	1/2	3,598.21	1/2	3,388.98	1/2	3,075.85	1/2	2,734.08	1/2	2,392.47
3/4		3/4		3/4	4,221.80	3/4	4,012.96	3/4	3,803.60	3/4	3,593.84	3/4	3,384.63	3/4	3,068.74	3/4	2,726.97	3/4	2,385.35
5		5		5	4,217.45	5	4,008.61	5	3,799.23	5	3,589.47	5	3,380.28	5	3,061.62	5	2,719.85	5	2,378.24
1/4		1/4		1/4	4,213.10	1/4	4,004.25	1/4	3,794.86	1/4	3,585.10	1/4	3,375.94	1/4	3,054.51	1/4	2,712.73	1/4	2,371.12
1/2		1/2		1/2	4,208.75	1/2	3,999.90	1/2	3,790.49	1/2	3,580.73	1/2	3,371.60	1/2	3,047.40	1/2	2,705.62	1/2	2,364.00
3/4		3/4		3/4	4,204.40	3/4	3,995.55	3/4	3,786.12	3/4	3,576.36	3/4	3,367.27	3/4	3,040.28	3/4	2,698.50	3/4	2,356.88
6		6	4,385.31	6	4,200.05	6	3,991.20	6	3,781.75	6	3,571.99	6	3,362.93	6	3,033.17	6	2,691.38	6	2,349.77
1/4		1/4	4,383.60	1/4	4,195.69	1/4	3,986.85	1/4	3,777.38	1/4	3,567.62	1/4	3,358.60	1/4	3,026.04	1/4	2,684.27	1/4	2,342.65
1/2		1/2	4,381.90	1/2	4,191.34	1/2	3,982.50	1/2	3,773.01	1/2	3,563.25	1/2	3,354.26	1/2	3,018.91	1/2	2,677.15	1/2	2,335.53
3/4		3/4	4,380.19	3/4	4,186.99	3/4	3,978.15	3/4	3,768.64	3/4	3,558.88	3/4	3,349.92	3/4	3,011.79	3/4	2,670.03	3/4	2,328.41
7		7	4,378.48	7	4,182.64	7	3,973.80	7	3,764.27	7	3,554.51	7	3,345.59	7	3,004.66	7	2,662.92	7	2,321.30
1/4		1/4	4,376.24	1/4	4,178.29	1/4	3,969.45	1/4	3,759.90	1/4	3,550.14	1/4	3,338.49	1/4	2,997.53	1/4	2,655.80	1/4	2,314.18
1/2		1/2	4,373.99	1/2	4,173.94	1/2	3,965.10	1/2	3,755.53	1/2	3,545.77	1/2	3,331.39	1/2	2,990.40	1/2	2,648.68	1/2	2,307.06
3/4		3/4	4,371.75	3/4	4,169.59	3/4	3,960.75	3/4	3,751.16	3/4	3,541.40	3/4	3,324.30	3/4	2,983.27	3/4	2,641.57	3/4	2,299.94
8		8	4,369.51	8	4,165.24	8	3,956.39	8	3,746.79	8	3,537.03	8	3,317.20	8	2,976.15	8	2,634.45	8	2,292.83
1/4		1/4	4,366.07	1/4	4,160.89	1/4	3,952.04	1/4	3,742.42	1/4	3,532.67	1/4	3,310.10	1/4	2,969.02	1/4	2,627.33	1/4	2,285.71
1/2		1/2	4,362.64	1/2	4,156.54	1/2	3,947.69	1/2	3,738.05	1/2	3,528.32	1/2	3,303.01	1/2	2,961.89	1/2	2,620.22	1/2	2,278.59
3/4		3/4	4,359.21	3/4	4,152.19	3/4	3,943.34	3/4	3,733.68	3/4	3,523.97	3/4	3,295.91	3/4	2,954.76	3/4	2,613.10	3/4	2,271.47
9		9	4,355.78	9	4,147.83	9	3,938.99	9	3,729.31	9	3,519.61	9	3,288.81	9	2,947.63	9	2,605.98	9	2,264.36
1/4		1/4	4,351.52	1/4	4,143.48	1/4	3,934.64	1/4	3,724.94	1/4	3,515.26	1/4	3,281.72	1/4	2,940.50	1/4	2,598.87	1/4	2,257.24
1/2		1/2	4,347.27	1/2	4,139.13	1/2	3,930.29	1/2	3,720.57	1/2	3,510.90	1/2	3,274.62	1/2	2,933.38	1/2	2,591.75	1/2	2,250.12
3/4		3/4	4,343.01	3/4	4,134.78	3/4	3,925.94	3/4	3,716.20	3/4	3,506.55	3/4	3,267.52	3/4	2,926.25	3/4	2,584.63	3/4	2,243.00
10		10	4,338.76	10	4,130.43	10	3,921.59	10	3,711.83	10	3,502.19	10	3,260.43	10	2,919.12	10	2,577.52	10	2,235.89
1/4		1/4	4,334.45	1/4	4,126.08	1/4	3,917.22	1/4	3,707.46	1/4	3,497.84	1/4	3,253.33	1/4	2,912.00	1/4	2,570.40	1/4	2,228.77
1/2		1/2	4,330.14	1/2	4,121.73	1/2	3,912.85	1/2	3,703.09	1/2	3,493.49	1/2	3,246.24	1/2	2,904.89	1/2	2,563.28	1/2	2,221.65
3/4		3/4	4,325.83	3/4	4,117.38	3/4	3,908.48	3/4	3,698.72	3/4	3,489.13	3/4	3,239.14	3/4	2,897.77	3/4	2,556.17	3/4	2,214.53
11		11	4,321.52	11	4,113.03	11	3,904.11	11	3,694.35	11	3,484.78	11	3,232.05	11	2,890.65	11	2,549.05	11	2,207.42
1/4		1/4	4,317.20	1/4	4,108.68	1/4	3,899.74	1/4	3,689.98	1/4	3,480.42	1/4	3,224.95	1/4	2,883.54	1/4	2,541.93	1/4	2,200.30
1/2		1/2	4,312.88	1/2	4,104.33	1/2	3,895.37	1/2	3,685.61	1/2	3,476.07	1/2	3,217.86	1/2	2,876.42	1/2	2,534.82	1/2	2,193.18
3/4		3/4	4,308.56	3/4	4,099.97	3/4	3,891.00	3/4	3,681.24	3/4	3,471.71	3/4	3,210.76	3/4	2,869.30	3/4	2,527.70	3/4	2,186.06

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "MPX 419"

3 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,178.95	0	1,837.31	0	1,495.67	0	1,154.03	0	825.63	0	484.85	0	142.78	0		0		0	
1/4	2,171.83	1/4	1,830.19	1/4	1,488.55	1/4	1,146.91	1/4	818.74	1/4	477.73	1/4	135.65	1/4		1/4		1/4	
1/2	2,164.71	1/2	1,823.07	1/2	1,481.43	1/2	1,139.79	1/2	811.85	1/2	470.61	1/2	128.52	1/2		1/2		1/2	
3/4	2,157.59	3/4	1,815.95	3/4	1,474.31	3/4	1,132.67	3/4	804.97	3/4	463.49	3/4	121.39	3/4		3/4		3/4	
1	2,150.48	1	1,808.84	1	1,467.20	1	1,125.56	1	798.08	1	456.37	1	114.26	1		1		1	
1/4	2,143.36	1/4	1,801.72	1/4	1,460.08	1/4	1,118.67	1/4	790.96	1/4	449.26	1/4	107.14	1/4		1/4		1/4	
1/2	2,136.24	1/2	1,794.60	1/2	1,452.96	1/2	1,111.78	1/2	783.84	1/2	442.14	1/2	100.02	1/2		1/2		1/2	
3/4	2,129.12	3/4	1,787.48	3/4	1,445.84	3/4	1,104.90	3/4	776.73	3/4	435.02	3/4	92.90	3/4		3/4		3/4	
2	2,122.01	2	1,780.37	2	1,438.73	2	1,098.01	2	769.61	2	427.90	2	85.78	2		2		2	
1/4	2,114.89	1/4	1,773.25	1/4	1,431.61	1/4	1,091.20	1/4	762.49	1/4	420.78	1/4	78.68	1/4		1/4		1/4	
1/2	2,107.77	1/2	1,766.13	1/2	1,424.49	1/2	1,084.38	1/2	755.37	1/2	413.66	1/2	71.59	1/2		1/2		1/2	
3/4	2,100.65	3/4	1,759.01	3/4	1,417.37	3/4	1,077.56	3/4	748.25	3/4	406.54	3/4	64.50	3/4		3/4		3/4	
3	2,093.54	3	1,751.90	3	1,410.26	3	1,070.75	3	741.13	3	399.42	3	57.40	3		3		3	
1/4	2,086.42	1/4	1,744.78	1/4	1,403.14	1/4	1,063.94	1/4	734.01	1/4	392.30	1/4	51.16	1/4		1/4		1/4	
1/2	2,079.30	1/2	1,737.66	1/2	1,396.02	1/2	1,057.13	1/2	726.89	1/2	385.19	1/2	44.93	1/2		1/2		1/2	
3/4	2,072.18	3/4	1,730.54	3/4	1,388.90	3/4	1,050.32	3/4	719.77	3/4	378.07	3/4	38.69	3/4		3/4		3/4	
4	2,065.07	4	1,723.43	4	1,381.79	4	1,043.51	4	712.66	4	370.95	4	32.45	4		4		4	
1/4	2,057.95	1/4	1,716.31	1/4	1,374.67	1/4	1,036.71	1/4	705.54	1/4	363.82	1/4	27.99	1/4		1/4		1/4	
1/2	2,050.83	1/2	1,709.19	1/2	1,367.55	1/2	1,029.90	1/2	698.42	1/2	356.69	1/2	23.54	1/2		1/2		1/2	
3/4	2,043.71	3/4	1,702.07	3/4	1,360.43	3/4	1,023.09	3/4	691.30	3/4	349.56	3/4	19.08	3/4		3/4		3/4	
5	2,036.60	5	1,694.96	5	1,353.32	5	1,016.28	5	684.18	5	342.43	5	14.63	5		5		5	
1/4	2,029.48	1/4	1,687.84	1/4	1,346.20	1/4	1,009.47	1/4	677.06	1/4	335.30	1/4		1/4		1/4		1/4	
1/2	2,022.36	1/2	1,680.72	1/2	1,339.08	1/2	1,002.67	1/2	669.94	1/2	328.17	1/2		1/2		1/2		1/2	
3/4	2,015.24	3/4	1,673.60	3/4	1,331.96	3/4	995.86	3/4	662.82	3/4	321.04	3/4		3/4		3/4		3/4	
6	2,008.13	6	1,666.49	6	1,324.85	6	989.05	6	655.70	6	313.90	6		6		6		6	
1/4	2,001.01	1/4	1,659.37	1/4	1,317.73	1/4	982.24	1/4	648.59	1/4	306.77	1/4		1/4		1/4		1/4	
1/2	1,993.89	1/2	1,652.25	1/2	1,310.61	1/2	975.43	1/2	641.47	1/2	299.64	1/2		1/2		1/2		1/2	
3/4	1,986.77	3/4	1,645.13	3/4	1,303.49	3/4	968.63	3/4	634.35	3/4	292.51	3/4		3/4		3/4		3/4	
7	1,979.66	7	1,638.02	7	1,296.38	7	961.82	7	627.23	7	285.38	7		7		7		7	
1/4	1,972.54	1/4	1,630.90	1/4	1,289.26	1/4	955.01	1/4	620.11	1/4	278.25	1/4		1/4		1/4		1/4	
1/2	1,965.42	1/2	1,623.78	1/2	1,282.14	1/2	948.20	1/2	612.99	1/2	271.12	1/2		1/2		1/2		1/2	
3/4	1,958.30	3/4	1,616.66	3/4	1,275.02	3/4	941.39	3/4	605.87	3/4	263.99	3/4		3/4		3/4		3/4	
8	1,951.19	8	1,609.55	8	1,267.91	8	934.58	8	598.75	8	256.86	8		8		8		8	
1/4	1,944.07	1/4	1,602.43	1/4	1,260.79	1/4	927.78	1/4	591.63	1/4	249.73	1/4		1/4		1/4		1/4	
1/2	1,936.95	1/2	1,595.31	1/2	1,253.67	1/2	920.97	1/2	584.51	1/2	242.60	1/2		1/2		1/2		1/2	
3/4	1,929.83	3/4	1,588.19	3/4	1,246.55	3/4	914.16	3/4	577.40	3/4	235.47	3/4		3/4		3/4		3/4	
9	1,922.72	9	1,581.08	9	1,239.44	9	907.35	9	570.28	9	228.34	9		9		9		9	
1/4	1,915.60	1/4	1,573.96	1/4	1,232.32	1/4	900.55	1/4	563.16	1/4	221.21	1/4		1/4		1/4		1/4	
1/2	1,908.48	1/2	1,566.84	1/2	1,225.20	1/2	893.74	1/2	556.04	1/2	214.08	1/2		1/2		1/2		1/2	
3/4	1,901.36	3/4	1,559.72	3/4	1,218.08	3/4	886.93	3/4	548.92	3/4	206.95	3/4		3/4		3/4		3/4	
10	1,894.25	10	1,552.61	10	1,210.97	10	880.12	10	541.80	10	199.82	10		10		10		10	
1/4	1,887.13	1/4	1,545.49	1/4	1,203.85	1/4	873.31	1/4	534.68	1/4	192.69	1/4		1/4		1/4		1/4	
1/2	1,880.01	1/2	1,538.37	1/2	1,196.73	1/2	866.51	1/2	527.56	1/2	185.56	1/2		1/2		1/2		1/2	
3/4	1,872.89	3/4	1,531.25	3/4	1,189.61	3/4	859.70	3/4	520.44	3/4	178.43	3/4		3/4		3/4		3/4	
11	1,865.78	11	1,524.14	11	1,182.50	11	852.89	11	513.33	11	171.30	11		11		11		11	
1/4	1,858.66	1/4	1,517.02	1/4	1,175.38	1/4	846.08	1/4	506.21	1/4	164.17	1/4		1/4		1/4		1/4	
1/2	1,851.54	1/2	1,509.90	1/2	1,168.26	1/2	839.26	1/2	499.09	1/2	157.04	1/2		1/2		1/2		1/2	
3/4	1,844.42	3/4	1,502.78	3/4	1,161.14	3/4	832.44	3/4	491.97	3/4	149.91	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	4,317.72	0	4,109.19	0	3,900.29	0	3,690.62	0	3,480.96	0	3,217.20	0	2,876.41	0	2,535.19
1/4		1/4		1/4	4,313.40	1/4	4,104.84	1/4	3,895.92	1/4	3,686.25	1/4	3,476.59	1/4	3,210.12	1/4	2,869.31	1/4	2,528.06
1/2		1/2		1/2	4,309.08	1/2	4,100.49	1/2	3,891.55	1/2	3,681.89	1/2	3,472.22	1/2	3,203.03	1/2	2,862.21	1/2	2,520.94
3/4		3/4		3/4	4,304.76	3/4	4,096.14	3/4	3,887.18	3/4	3,677.52	3/4	3,467.85	3/4	3,195.94	3/4	2,855.10	3/4	2,513.82
1		1		1	4,300.44	1	4,091.79	1	3,882.81	1	3,673.15	1	3,463.49	1	3,188.86	1	2,848.00	1	2,506.69
1/4		1/4		1/4	4,296.11	1/4	4,087.45	1/4	3,878.45	1/4	3,668.78	1/4	3,459.12	1/4	3,181.77	1/4	2,840.89	1/4	2,499.57
1/2		1/2		1/2	4,291.79	1/2	4,083.10	1/2	3,874.08	1/2	3,664.41	1/2	3,454.75	1/2	3,174.68	1/2	2,833.79	1/2	2,492.45
3/4		3/4		3/4	4,287.47	3/4	4,078.75	3/4	3,869.71	3/4	3,660.05	3/4	3,450.38	3/4	3,167.60	3/4	2,826.68	3/4	2,485.33
2		2		2	4,283.15	2	4,074.40	2	3,865.34	2	3,655.68	2	3,446.01	2	3,160.51	2	2,819.58	2	2,478.21
1/4		1/4		1/4	4,278.80	1/4	4,070.05	1/4	3,860.97	1/4	3,651.31	1/4	3,441.65	1/4	3,153.42	1/4	2,812.48	1/4	2,471.08
1/2		1/2		1/2	4,274.45	1/2	4,065.70	1/2	3,856.61	1/2	3,646.94	1/2	3,437.28	1/2	3,146.33	1/2	2,805.37	1/2	2,463.96
3/4		3/4		3/4	4,270.10	3/4	4,061.35	3/4	3,852.24	3/4	3,642.57	3/4	3,432.91	3/4	3,139.25	3/4	2,798.27	3/4	2,456.84
3		3		3	4,265.75	3	4,057.00	3	3,847.87	3	3,638.21	3	3,428.54	3	3,132.16	3	2,791.16	3	2,449.72
1/4		1/4		1/4	4,261.41	1/4	4,052.65	1/4	3,843.50	1/4	3,633.84	1/4	3,424.17	1/4	3,125.06	1/4	2,784.06	1/4	2,442.59
1/2		1/2		1/2	4,257.06	1/2	4,048.30	1/2	3,839.13	1/2	3,629.47	1/2	3,419.81	1/2	3,117.95	1/2	2,776.96	1/2	2,435.47
3/4		3/4		3/4	4,252.71	3/4	4,043.96	3/4	3,834.77	3/4	3,625.10	3/4	3,415.44	3/4	3,110.85	3/4	2,769.85	3/4	2,428.35
4		4		4	4,248.36	4	4,039.61	4	3,830.40	4	3,620.73	4	3,411.07	4	3,103.74	4	2,762.75	4	2,421.23
1/4		1/4		1/4	4,244.01	1/4	4,035.26	1/4	3,826.03	1/4	3,616.37	1/4	3,406.70	1/4	3,096.64	1/4	2,755.64	1/4	2,414.10
1/2		1/2		1/2	4,239.66	1/2	4,030.91	1/2	3,821.66	1/2	3,612.00	1/2	3,402.33	1/2	3,089.54	1/2	2,748.54	1/2	2,406.98
3/4		3/4		3/4	4,235.31	3/4	4,026.56	3/4	3,817.29	3/4	3,607.63	3/4	3,397.97	3/4	3,082.43	3/4	2,741.44	3/4	2,399.86
5		5		5	4,230.96	5	4,022.21	5	3,812.93	5	3,603.26	5	3,393.60	5	3,075.33	5	2,734.33	5	2,392.74
1/4		1/4		1/4	4,226.61	1/4	4,017.86	1/4	3,808.56	1/4	3,598.89	1/4	3,389.27	1/4	3,068.22	1/4	2,727.23	1/4	2,385.62
1/2		1/2		1/2	4,222.26	1/2	4,013.51	1/2	3,804.19	1/2	3,594.53	1/2	3,384.93	1/2	3,061.12	1/2	2,720.12	1/2	2,378.49
3/4		3/4		3/4	4,217.92	3/4	4,009.16	3/4	3,799.82	3/4	3,590.16	3/4	3,380.60	3/4	3,054.02	3/4	2,713.02	3/4	2,371.37
6		6	4,398.76	6	4,213.57	6	4,004.81	6	3,795.45	6	3,585.79	6	3,376.27	6	3,046.91	6	2,705.92	6	2,364.25
1/4		1/4	4,397.05	1/4	4,209.22	1/4	4,000.47	1/4	3,791.09	1/4	3,581.42	1/4	3,371.94	1/4	3,039.81	1/4	2,698.81	1/4	2,357.13
1/2		1/2	4,395.35	1/2	4,204.87	1/2	3,996.12	1/2	3,786.72	1/2	3,577.05	1/2	3,367.60	1/2	3,032.70	1/2	2,691.71	1/2	2,350.00
3/4		3/4	4,393.64	3/4	4,200.52	3/4	3,991.77	3/4	3,782.35	3/4	3,572.69	3/4	3,363.27	3/4	3,025.60	3/4	2,684.60	3/4	2,342.88
7		7	4,391.93	7	4,196.17	7	3,987.42	7	3,777.98	7	3,568.32	7	3,358.94	7	3,018.50	7	2,677.50	7	2,335.76
1/4		1/4	4,389.69	1/4	4,191.82	1/4	3,983.07	1/4	3,773.61	1/4	3,563.95	1/4	3,351.85	1/4	3,011.39	1/4	2,670.39	1/4	2,328.64
1/2		1/2	4,387.45	1/2	4,187.47	1/2	3,978.72	1/2	3,769.25	1/2	3,559.58	1/2	3,344.77	1/2	3,004.29	1/2	2,663.29	1/2	2,321.52
3/4		3/4	4,385.20	3/4	4,183.12	3/4	3,974.37	3/4	3,764.88	3/4	3,555.21	3/4	3,337.68	3/4	2,997.18	3/4	2,656.19	3/4	2,314.39
8		8	4,382.96	8	4,178.77	8	3,970.02	8	3,760.51	8	3,550.85	8	3,330.59	8	2,990.08	8	2,649.08	8	2,307.27
1/4		1/4	4,379.53	1/4	4,174.43	1/4	3,965.67	1/4	3,756.14	1/4	3,546.48	1/4	3,323.50	1/4	2,982.98	1/4	2,641.98	1/4	2,300.15
1/2		1/2	4,376.10	1/2	4,170.08	1/2	3,961.32	1/2	3,751.77	1/2	3,542.11	1/2	3,316.42	1/2	2,975.87	1/2	2,634.87	1/2	2,293.03
3/4		3/4	4,372.66	3/4	4,165.73	3/4	3,956.98	3/4	3,747.41	3/4	3,537.74	3/4	3,309.33	3/4	2,968.77	3/4	2,627.77	3/4	2,285.90
9		9	4,369.23	9	4,161.38	9	3,952.63	9	3,743.04	9	3,533.37	9	3,302.24	9	2,961.66	9	2,620.67	9	2,278.78
1/4		1/4	4,364.98	1/4	4,157.03	1/4	3,948.28	1/4	3,738.67	1/4	3,529.01	1/4	3,295.16	1/4	2,954.56	1/4	2,613.54	1/4	2,271.66
1/2		1/2	4,360.73	1/2	4,152.68	1/2	3,943.93	1/2	3,734.30	1/2	3,524.64	1/2	3,288.07	1/2	2,947.45	1/2	2,606.42	1/2	2,264.54
3/4		3/4	4,356.47	3/4	4,148.33	3/4	3,939.58	3/4	3,729.93	3/4	3,520.27	3/4	3,280.98	3/4	2,940.35	3/4	2,599.30	3/4	2,257.41
10		10	4,352.22	10	4,143.98	10	3,935.23	10	3,725.57	10	3,515.90	10	3,273.90	10	2,933.25	10	2,592.17	10	2,250.29
1/4		1/4	4,347.91	1/4	4,139.63	1/4	3,930.86	1/4	3,721.20	1/4	3,511.53	1/4	3,266.81	1/4	2,926.14	1/4	2,585.05	1/4	2,243.17
1/2		1/2	4,343.61	1/2	4,135.28	1/2	3,926.49	1/2	3,716.83	1/2	3,507.17	1/2	3,259.72	1/2	2,919.04	1/2	2,577.93	1/2	2,236.05
3/4		3/4	4,339.30	3/4	4,130.94	3/4	3,922.13	3/4	3,712.46	3/4	3,502.80	3/4	3,252.64	3/4	2,911.93	3/4	2,570.80	3/4	2,228.93
11		11	4,334.99	11	4,126.59	11	3,917.76	11	3,708.09	11	3,498.43	11	3,245.55	11	2,904.83	11	2,563.68	11	2,221.80
1/4		1/4	4,330.67	1/4	4,122.24	1/4	3,913.39	1/4	3,703.73	1/4	3,494.06	1/4	3,238.46	1/4	2,897.73	1/4	2,556.56	1/4	2,214.68
1/2		1/2	4,326.36	1/2	4,117.89	1/2	3,909.02	1/2	3,699.36	1/2	3,489.69	1/2	3,231.38	1/2	2,890.62	1/2	2,549.43	1/2	2,207.56
3/4		3/4	4,322.04	3/4	4,113.54	3/4	3,904.65	3/4	3,694.99	3/4	3,485.33	3/4	3,224.29	3/4	2,883.52	3/4	2,542.31	3/4	2,200.44

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 OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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

BARGE "MPX 419"

3 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,193.31	0	1,851.44	0	1,509.57	0	1,167.70	0	826.33	0	484.47	0	142.61	0		0		0	
1/4	2,186.19	1/4	1,844.32	1/4	1,502.45	1/4	1,160.58	1/4	819.21	1/4	477.35	1/4	135.49	1/4		1/4		1/4	
1/2	2,179.07	1/2	1,837.20	1/2	1,495.33	1/2	1,153.46	1/2	812.09	1/2	470.23	1/2	128.37	1/2		1/2		1/2	
3/4	2,171.95	3/4	1,830.08	3/4	1,488.21	3/4	1,146.34	3/4	804.97	3/4	463.11	3/4	121.25	3/4		3/4		3/4	
1	2,164.82	1	1,822.95	1	1,481.08	1	1,139.21	1	797.84	1	455.98	1	114.13	1		1		1	
1/4	2,157.70	1/4	1,815.83	1/4	1,473.96	1/4	1,132.09	1/4	790.72	1/4	448.86	1/4	107.02	1/4		1/4		1/4	
1/2	2,150.58	1/2	1,808.71	1/2	1,466.84	1/2	1,124.97	1/2	783.60	1/2	441.74	1/2	99.90	1/2		1/2		1/2	
3/4	2,143.46	3/4	1,801.59	3/4	1,459.72	3/4	1,117.85	3/4	776.48	3/4	434.62	3/4	92.79	3/4		3/4		3/4	
2	2,136.34	2	1,794.46	2	1,452.59	2	1,110.72	2	769.36	2	427.49	2	85.68	2		2		2	
1/4	2,129.21	1/4	1,787.34	1/4	1,445.47	1/4	1,103.61	1/4	762.23	1/4	420.37	1/4	78.60	1/4		1/4		1/4	
1/2	2,122.09	1/2	1,780.22	1/2	1,438.35	1/2	1,096.49	1/2	755.11	1/2	413.25	1/2	71.51	1/2		1/2		1/2	
3/4	2,114.97	3/4	1,773.10	3/4	1,431.23	3/4	1,089.37	3/4	747.99	3/4	406.13	3/4	64.42	3/4		3/4		3/4	
3	2,107.85	3	1,765.98	3	1,424.11	3	1,082.26	3	740.87	3	399.01	3	57.34	3		3		3	
1/4	2,100.72	1/4	1,758.85	1/4	1,416.98	1/4	1,075.15	1/4	733.75	1/4	391.88	1/4	51.11	1/4		1/4		1/4	
1/2	2,093.60	1/2	1,751.73	1/2	1,409.86	1/2	1,068.04	1/2	726.62	1/2	384.76	1/2	44.88	1/2		1/2		1/2	
3/4	2,086.48	3/4	1,744.61	3/4	1,402.74	3/4	1,060.93	3/4	719.50	3/4	377.64	3/4	38.65	3/4		3/4		3/4	
4	2,079.36	4	1,737.49	4	1,395.62	4	1,053.83	4	712.38	4	370.52	4	32.42	4		4		4	
1/4	2,072.23	1/4	1,730.36	1/4	1,388.49	1/4	1,046.72	1/4	705.26	1/4	363.40	1/4	27.97	1/4		1/4		1/4	
1/2	2,065.11	1/2	1,723.24	1/2	1,381.37	1/2	1,039.61	1/2	698.13	1/2	356.27	1/2	23.51	1/2		1/2		1/2	
3/4	2,057.99	3/4	1,716.12	3/4	1,374.25	3/4	1,032.50	3/4	691.01	3/4	349.15	3/4	19.06	3/4		3/4		3/4	
5	2,050.87	5	1,709.00	5	1,367.13	5	1,025.39	5	683.89	5	342.03	5	14.61	5		5		5	
1/4	2,043.75	1/4	1,701.87	1/4	1,360.00	1/4	1,018.28	1/4	676.77	1/4	334.91	1/4		1/4		1/4		1/4	
1/2	2,036.62	1/2	1,694.75	1/2	1,352.88	1/2	1,011.18	1/2	669.65	1/2	327.79	1/2		1/2		1/2		1/2	
3/4	2,029.50	3/4	1,687.63	3/4	1,345.76	3/4	1,004.07	3/4	662.52	3/4	320.66	3/4		3/4		3/4		3/4	
6	2,022.38	6	1,680.51	6	1,338.64	6	996.96	6	655.40	6	313.54	6		6		6		6	
1/4	2,015.26	1/4	1,673.39	1/4	1,331.52	1/4	989.85	1/4	648.28	1/4	306.42	1/4		1/4		1/4		1/4	
1/2	2,008.13	1/2	1,666.26	1/2	1,324.39	1/2	982.74	1/2	641.16	1/2	299.30	1/2		1/2		1/2		1/2	
3/4	2,001.01	3/4	1,659.14	3/4	1,317.27	3/4	975.63	3/4	634.04	3/4	292.17	3/4		3/4		3/4		3/4	
7	1,993.89	7	1,652.02	7	1,310.15	7	968.53	7	626.91	7	285.05	7		7		7		7	
1/4	1,986.77	1/4	1,644.90	1/4	1,303.03	1/4	961.42	1/4	619.79	1/4	277.93	1/4		1/4		1/4		1/4	
1/2	1,979.64	1/2	1,637.77	1/2	1,295.90	1/2	954.31	1/2	612.67	1/2	270.81	1/2		1/2		1/2		1/2	
3/4	1,972.52	3/4	1,630.65	3/4	1,288.78	3/4	947.20	3/4	605.55	3/4	263.69	3/4		3/4		3/4		3/4	
8	1,965.40	8	1,623.53	8	1,281.66	8	940.09	8	598.43	8	256.56	8		8		8		8	
1/4	1,958.28	1/4	1,616.41	1/4	1,274.54	1/4	932.98	1/4	591.30	1/4	249.44	1/4		1/4		1/4		1/4	
1/2	1,951.16	1/2	1,609.29	1/2	1,267.41	1/2	925.88	1/2	584.18	1/2	242.32	1/2		1/2		1/2		1/2	
3/4	1,944.03	3/4	1,602.16	3/4	1,260.29	3/4	918.77	3/4	577.06	3/4	235.20	3/4		3/4		3/4		3/4	
9	1,936.91	9	1,595.04	9	1,253.17	9	911.66	9	569.94	9	228.08	9		9		9		9	
1/4	1,929.79	1/4	1,587.92	1/4	1,246.05	1/4	904.55	1/4	562.81	1/4	220.95	1/4		1/4		1/4		1/4	
1/2	1,922.67	1/2	1,580.80	1/2	1,238.93	1/2	897.44	1/2	555.69	1/2	213.83	1/2		1/2		1/2		1/2	
3/4	1,915.54	3/4	1,573.67	3/4	1,231.80	3/4	890.34	3/4	548.57	3/4	206.71	3/4		3/4		3/4		3/4	
10	1,908.42	10	1,566.55	10	1,224.68	10	883.23	10	541.45	10	199.59	10		10		10		10	
1/4	1,901.30	1/4	1,559.43	1/4	1,217.56	1/4	876.12	1/4	534.33	1/4	192.47	1/4		1/4		1/4		1/4	
1/2	1,894.18	1/2	1,552.31	1/2	1,210.44	1/2	869.01	1/2	527.20	1/2	185.34	1/2		1/2		1/2		1/2	
3/4	1,887.05	3/4	1,545.18	3/4	1,203.31	3/4	861.90	3/4	520.08	3/4	178.22	3/4		3/4		3/4		3/4	
11	1,879.93	11	1,538.06	11	1,196.19	11	854.80	11	512.96	11	171.10	11		11		11		11	
1/4	1,872.81	1/4	1,530.94	1/4	1,189.07	1/4	847.68	1/4	505.84	1/4	163.98	1/4		1/4		1/4		1/4	
1/2	1,865.69	1/2	1,523.82	1/2	1,181.95	1/2	840.56	1/2	498.72	1/2	156.85	1/2		1/2		1/2		1/2	
3/4	1,858.57	3/4	1,516.70	3/4	1,174.82	3/4	833.45	3/4	491.59	3/4	149.73	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

INNAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	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	- 10-0/8	10-0/8	- 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"

May 26, 2021

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

http://www.pmacorp.net

BARGE "MPX 419"

1 PORT

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

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	251.99	0	582.69	0	924.08	0	1,265.74	0	1,608.58	0	1,951.43	0	2,294.27	0	2,637.10	0	2,979.93
1/4	3.94	1/4	258.47	1/4	589.83	1/4	931.17	1/4	1,272.88	1/4	1,615.72	1/4	1,958.57	1/4	2,301.41	1/4	2,644.25	1/4	2,987.07
1/2	5.72	1/2	264.94	1/2	596.97	1/2	938.25	1/2	1,280.02	1/2	1,622.87	1/2	1,965.71	1/2	2,308.56	1/2	2,651.39	1/2	2,994.21
3/4	7.51	3/4	271.42	3/4	604.11	3/4	945.33	3/4	1,287.17	3/4	1,630.01	3/4	1,972.85	3/4	2,315.70	3/4	2,658.53	3/4	3,001.35
1	9.29	1	277.89	1	611.26	1	952.41	1	1,294.31	1	1,637.15	1	1,980.00	1	2,322.84	1	2,665.67	1	3,008.49
1/4	12.09	1/4	284.45	1/4	618.40	1/4	959.49	1/4	1,301.45	1/4	1,644.29	1/4	1,987.14	1/4	2,329.98	1/4	2,672.81	1/4	3,015.63
1/2	14.89	1/2	291.01	1/2	625.54	1/2	966.58	1/2	1,308.59	1/2	1,651.44	1/2	1,994.28	1/2	2,337.13	1/2	2,679.96	1/2	3,022.77
3/4	17.69	3/4	297.57	3/4	632.68	3/4	973.66	3/4	1,315.74	3/4	1,658.58	3/4	2,001.42	3/4	2,344.27	3/4	2,687.10	3/4	3,029.91
2	20.49	2	304.12	2	639.82	2	980.74	2	1,322.88	2	1,665.72	2	2,008.57	2	2,351.41	2	2,694.24	2	3,037.05
1/4	24.34	1/4	310.77	1/4	646.97	1/4	987.82	1/4	1,330.02	1/4	1,672.87	1/4	2,015.71	1/4	2,358.55	1/4	2,701.38	1/4	3,044.19
1/2	28.20	1/2	317.41	1/2	654.11	1/2	994.91	1/2	1,337.16	1/2	1,680.01	1/2	2,022.85	1/2	2,365.70	1/2	2,708.53	1/2	3,051.33
3/4	32.05	3/4	324.05	3/4	661.25	3/4	1,001.99	3/4	1,344.31	3/4	1,687.15	3/4	2,030.00	3/4	2,372.84	3/4	2,715.67	3/4	3,058.47
3	35.91	3	330.69	3	668.39	3	1,009.07	3	1,351.45	3	1,694.29	3	2,037.14	3	2,379.98	3	2,722.81	3	3,065.61
1/4	41.16	1/4	337.42	1/4	675.54	1/4	1,016.16	1/4	1,358.59	1/4	1,701.44	1/4	2,044.28	1/4	2,387.13	1/4	2,729.95	1/4	3,072.75
1/2	46.42	1/2	344.14	1/2	682.68	1/2	1,023.24	1/2	1,365.73	1/2	1,708.58	1/2	2,051.42	1/2	2,394.27	1/2	2,737.09	1/2	3,079.89
3/4	51.68	3/4	350.87	3/4	689.82	3/4	1,030.33	3/4	1,372.88	3/4	1,715.72	3/4	2,058.57	3/4	2,401.41	3/4	2,744.24	3/4	3,087.03
4	56.94	4	357.59	4	696.96	4	1,037.42	4	1,380.02	4	1,722.86	4	2,065.71	4	2,408.55	4	2,751.38	4	3,094.17
1/4	62.72	1/4	364.40	1/4	704.11	1/4	1,044.51	1/4	1,387.16	1/4	1,730.01	1/4	2,072.85	1/4	2,415.70	1/4	2,758.52	1/4	3,101.31
1/2	68.51	1/2	371.21	1/2	711.25	1/2	1,051.61	1/2	1,394.30	1/2	1,737.15	1/2	2,079.99	1/2	2,422.84	1/2	2,765.66	1/2	3,108.45
3/4	74.29	3/4	378.02	3/4	718.39	3/4	1,058.71	3/4	1,401.45	3/4	1,744.29	3/4	2,087.14	3/4	2,429.98	3/4	2,772.80	3/4	3,115.59
5	80.07	5	384.83	5	725.53	5	1,065.81	5	1,408.59	5	1,751.43	5	2,094.28	5	2,437.12	5	2,779.95	5	3,122.73
1/4	85.96	1/4	391.72	1/4	732.66	1/4	1,072.94	1/4	1,415.73	1/4	1,758.58	1/4	2,101.42	1/4	2,444.27	1/4	2,787.09	1/4	3,129.87
1/2	91.84	1/2	398.61	1/2	739.78	1/2	1,080.06	1/2	1,422.87	1/2	1,765.72	1/2	2,108.56	1/2	2,451.41	1/2	2,794.23	1/2	3,137.01
3/4	97.73	3/4	405.50	3/4	746.91	3/4	1,087.19	3/4	1,430.02	3/4	1,772.86	3/4	2,115.71	3/4	2,458.55	3/4	2,801.37	3/4	3,144.15
6	103.61	6	412.39	6	754.03	6	1,094.31	6	1,437.16	6	1,780.00	6	2,122.85	6	2,465.69	6	2,808.51	6	3,151.29
1/4	109.59	1/4	419.37	1/4	761.13	1/4	1,101.46	1/4	1,444.30	1/4	1,787.15	1/4	2,129.99	1/4	2,472.84	1/4	2,815.66	1/4	3,158.43
1/2	115.56	1/2	426.34	1/2	768.23	1/2	1,108.60	1/2	1,451.44	1/2	1,794.29	1/2	2,137.13	1/2	2,479.98	1/2	2,822.80	1/2	3,165.58
3/4	121.53	3/4	433.31	3/4	775.33	3/4	1,115.74	3/4	1,458.59	3/4	1,801.43	3/4	2,144.28	3/4	2,487.12	3/4	2,829.94	3/4	3,172.72
7	127.51	7	440.29	7	782.43	7	1,122.89	7	1,465.73	7	1,808.57	7	2,151.42	7	2,494.26	7	2,837.08	7	3,179.86
1/4	133.56	1/4	447.34	1/4	789.51	1/4	1,130.03	1/4	1,472.87	1/4	1,815.72	1/4	2,158.56	1/4	2,501.41	1/4	2,844.23	1/4	3,187.00
1/2	139.62	1/2	454.39	1/2	796.60	1/2	1,137.17	1/2	1,480.02	1/2	1,822.86	1/2	2,165.70	1/2	2,508.55	1/2	2,851.37	1/2	3,194.14
3/4	145.68	3/4	461.45	3/4	803.69	3/4	1,144.31	3/4	1,487.16	3/4	1,830.00	3/4	2,172.85	3/4	2,515.69	3/4	2,858.51	3/4	3,201.28
8	151.74	8	468.50	8	810.77	8	1,151.46	8	1,494.30	8	1,837.15	8	2,179.99	8	2,522.83	8	2,865.65	8	3,208.42
1/4	157.88	1/4	475.62	1/4	817.85	1/4	1,158.60	1/4	1,501.44	1/4	1,844.29	1/4	2,187.13	1/4	2,529.98	1/4	2,872.79	1/4	3,215.56
1/2	164.02	1/2	482.74	1/2	824.94	1/2	1,165.74	1/2	1,508.59	1/2	1,851.43	1/2	2,194.28	1/2	2,537.12	1/2	2,879.94	1/2	3,222.70
3/4	170.16	3/4	489.86	3/4	832.02	3/4	1,172.88	3/4	1,515.73	3/4	1,858.57	3/4	2,201.42	3/4	2,544.26	3/4	2,887.08	3/4	3,229.84
9	176.30	9	496.98	9	839.10	9	1,180.03	9	1,522.87	9	1,865.72	9	2,208.56	9	2,551.41	9	2,894.22	9	3,236.98
1/4	182.52	1/4	504.12	1/4	846.18	1/4	1,187.17	1/4	1,530.01	1/4	1,872.86	1/4	2,215.70	1/4	2,558.55	1/4	2,901.36	1/4	3,244.12
1/2	188.75	1/2	511.26	1/2	853.26	1/2	1,194.31	1/2	1,537.16	1/2	1,880.00	1/2	2,222.85	1/2	2,565.69	1/2	2,908.50	1/2	3,251.26
3/4	194.97	3/4	518.40	3/4	860.35	3/4	1,201.45	3/4	1,544.30	3/4	1,887.14	3/4	2,229.99	3/4	2,572.83	3/4	2,915.65	3/4	3,258.40
10	201.20	10	525.55	10	867.43	10	1,208.60	10	1,551.44	10	1,894.29	10	2,237.13	10	2,579.98	10	2,922.79	10	3,265.54
1/4	207.50	1/4	532.69	1/4	874.51	1/4	1,215.74	1/4	1,558.58	1/4	1,901.43	1/4	2,244.27	1/4	2,587.12	1/4	2,929.93	1/4	3,272.68
1/2	213.81	1/2	539.83	1/2	881.59	1/2	1,222.88	1/2	1,565.73	1/2	1,908.57	1/2	2,251.42	1/2	2,594.26	1/2	2,937.07	1/2	3,279.82
3/4	220.12	3/4	546.97	3/4	888.67	3/4	1,230.02	3/4	1,572.87	3/4	1,915.71	3/4	2,258.56	3/4	2,601.40	3/4	2,944.21	3/4	3,286.96
11	226.43	11	554.12	11	895.76	11	1,237.17	11	1,580.01	11	1,922.86	11	2,265.70	11	2,608.55	11	2,951.36	11	3,294.10
1/4	232.82	1/4	561.26	1/4	902.84	1/4	1,244.31	1/4	1,587.15	1/4	1,930.00	1/4	2,272.84	1/4	2,615.69	1/4	2,958.50	1/4	3,301.24
1/2	239.21	1/2	568.40	1/2	909.92	1/2	1,251.45	1/2	1,594.30	1/2	1,937.14	1/2	2,279.99	1/2	2,622.83	1/2	2,965.64	1/2	3,308.38
3/4	245.60	3/4	575.54	3/4	917.00	3/4	1,258.59	3/4	1,601.44	3/4	1,944.28	3/4	2,287.13	3/4	2,629.96	3/4	2,972.78	3/4	3,315.52

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 419"

1 PORT

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

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	3,322.66	0	3,665.39	0	4,008.22	0	4,350.58	0	4,691.84	0	5,012.96	0		0		0		0	
1/4	3,329.80	1/4	3,672.54	1/4	4,015.36	1/4	4,357.69	1/4	4,698.95	1/4	5,016.15	1/4		1/4		1/4		1/4	
1/2	3,336.94	1/2	3,679.68	1/2	4,022.50	1/2	4,364.80	1/2	4,706.06	1/2	5,019.35	1/2		1/2		1/2		1/2	
3/4	3,344.08	3/4	3,686.82	3/4	4,029.65	3/4	4,371.91	3/4	4,713.17	3/4	5,022.55	3/4		3/4		3/4		3/4	
1	3,351.22	1	3,693.96	1	4,036.79	1	4,379.02	1	4,720.28	1	5,025.74	1		1		1		1	
1/4	3,358.36	1/4	3,701.11	1/4	4,043.93	1/4	4,386.13	1/4	4,727.39	1/4	5,027.75	1/4		1/4		1/4		1/4	
1/2	3,365.50	1/2	3,708.25	1/2	4,051.07	1/2	4,393.24	1/2	4,734.49	1/2	5,029.75	1/2		1/2		1/2		1/2	
3/4	3,372.64	3/4	3,715.39	3/4	4,058.22	3/4	4,400.35	3/4	4,741.60	3/4	5,031.76	3/4		3/4		3/4		3/4	
2	3,379.78	2	3,722.53	2	4,065.36	2	4,407.46	2	4,748.71	2	5,033.76	2		2		2		2	
1/4	3,386.92	1/4	3,729.67	1/4	4,072.50	1/4	4,414.57	1/4	4,755.82	1/4	5,034.69	1/4		1/4		1/4		1/4	
1/2	3,394.06	1/2	3,736.82	1/2	4,079.64	1/2	4,421.68	1/2	4,762.93	1/2	5,035.62	1/2		1/2		1/2		1/2	
3/4	3,401.20	3/4	3,743.96	3/4	4,086.78	3/4	4,428.79	3/4	4,770.04	3/4	5,036.55	3/4		3/4		3/4		3/4	
3	3,408.34	3	3,751.10	3	4,093.93	3	4,435.90	3	4,777.15	3	5,037.48	3		3		3		3	
1/4	3,415.48	1/4	3,758.24	1/4	4,101.07	1/4	4,443.01	1/4	4,784.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,422.62	1/2	3,765.39	1/2	4,108.21	1/2	4,450.11	1/2	4,791.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,429.76	3/4	3,772.53	3/4	4,115.35	3/4	4,457.22	3/4	4,798.48	3/4		3/4		3/4		3/4		3/4	
4	3,436.90	4	3,779.67	4	4,122.50	4	4,464.33	4	4,805.59	4		4		4		4		4	
1/4	3,444.04	1/4	3,786.81	1/4	4,129.64	1/4	4,471.44	1/4	4,812.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,451.18	1/2	3,793.95	1/2	4,136.78	1/2	4,478.55	1/2	4,819.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,458.32	3/4	3,801.10	3/4	4,143.92	3/4	4,485.66	3/4	4,826.85	3/4		3/4		3/4		3/4		3/4	
5	3,465.46	5	3,808.24	5	4,151.06	5	4,492.77	5	4,833.94	5		5		5		5		5	
1/4	3,472.60	1/4	3,815.38	1/4	4,158.21	1/4	4,499.88	1/4	4,841.00	1/4		1/4		1/4		1/4		1/4	
1/2	3,479.74	1/2	3,822.52	1/2	4,165.35	1/2	4,506.99	1/2	4,848.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,486.88	3/4	3,829.67	3/4	4,172.49	3/4	4,514.10	3/4	4,855.13	3/4		3/4		3/4		3/4		3/4	
6	3,494.02	6	3,836.81	6	4,179.63	6	4,521.21	6	4,862.19	6		6		6		6		6	
1/4	3,501.16	1/4	3,843.95	1/4	4,186.78	1/4	4,528.32	1/4	4,869.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,508.30	1/2	3,851.09	1/2	4,193.92	1/2	4,535.43	1/2	4,876.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,515.44	3/4	3,858.23	3/4	4,201.06	3/4	4,542.54	3/4	4,883.39	3/4		3/4		3/4		3/4		3/4	
7	3,522.59	7	3,865.38	7	4,208.20	7	4,549.65	7	4,890.45	7		7		7		7		7	
1/4	3,529.73	1/4	3,872.52	1/4	4,215.34	1/4	4,556.76	1/4	4,897.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,536.87	1/2	3,879.66	1/2	4,222.49	1/2	4,563.87	1/2	4,904.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,544.01	3/4	3,886.80	3/4	4,229.63	3/4	4,570.98	3/4	4,911.62	3/4		3/4		3/4		3/4		3/4	
8	3,551.15	8	3,893.95	8	4,236.77	8	4,578.09	8	4,918.68	8		8		8		8		8	
1/4	3,558.29	1/4	3,901.09	1/4	4,243.89	1/4	4,585.20	1/4	4,925.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,565.43	1/2	3,908.23	1/2	4,251.02	1/2	4,592.30	1/2	4,932.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.57	3/4	3,915.37	3/4	4,258.14	3/4	4,599.41	3/4	4,939.75	3/4		3/4		3/4		3/4		3/4	
9	3,579.71	9	3,922.51	9	4,265.27	9	4,606.52	9	4,946.77	9		9		9		9		9	
1/4	3,586.85	1/4	3,929.66	1/4	4,272.38	1/4	4,613.63	1/4	4,953.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,593.99	1/2	3,936.80	1/2	4,279.49	1/2	4,620.74	1/2	4,959.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,601.13	3/4	3,943.94	3/4	4,286.60	3/4	4,627.85	3/4	4,966.52	3/4		3/4		3/4		3/4		3/4	
10	3,608.27	10	3,951.08	10	4,293.71	10	4,634.96	10	4,973.11	10		10		10		10		10	
1/4	3,615.41	1/4	3,958.22	1/4	4,300.82	1/4	4,642.07	1/4	4,978.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,622.55	1/2	3,965.37	1/2	4,307.92	1/2	4,649.18	1/2	4,984.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.69	3/4	3,972.51	3/4	4,315.03	3/4	4,656.29	3/4	4,989.84	3/4		3/4		3/4		3/4		3/4	
11	3,636.83	11	3,979.65	11	4,322.14	11	4,663.40	11	4,995.41	11		11		11		11		11	
1/4	3,643.97	1/4	3,986.79	1/4	4,329.25	1/4	4,670.51	1/4	4,999.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,651.11	1/2	3,993.94	1/2	4,336.36	1/2	4,677.62	1/2	5,004.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,658.25	3/4	4,001.08	3/4	4,343.47	3/4	4,684.73	3/4	5,008.57	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

1 STBD

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

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	251.69	0	582.07	0	924.39	0	1,266.75	0	1,609.24	0	1,951.73	0	2,294.22	0	2,636.70	0	2,979.16
1/4	3.93	1/4	258.16	1/4	589.21	1/4	931.51	1/4	1,273.89	1/4	1,616.37	1/4	1,958.86	1/4	2,301.35	1/4	2,643.83	1/4	2,986.30
1/2	5.72	1/2	264.63	1/2	596.34	1/2	938.64	1/2	1,281.02	1/2	1,623.51	1/2	1,966.00	1/2	2,308.49	1/2	2,650.97	1/2	2,993.43
3/4	7.50	3/4	271.10	3/4	603.48	3/4	945.77	3/4	1,288.16	3/4	1,630.65	3/4	1,973.13	3/4	2,315.62	3/4	2,658.10	3/4	3,000.56
1	9.28	1	277.56	1	610.61	1	952.89	1	1,295.29	1	1,637.78	1	1,980.27	1	2,322.76	1	2,665.24	1	3,007.70
1/4	12.08	1/4	284.11	1/4	617.75	1/4	960.02	1/4	1,302.43	1/4	1,644.92	1/4	1,987.41	1/4	2,329.90	1/4	2,672.37	1/4	3,014.83
1/2	14.88	1/2	290.66	1/2	624.88	1/2	967.15	1/2	1,309.56	1/2	1,652.05	1/2	1,994.54	1/2	2,337.03	1/2	2,679.51	1/2	3,021.96
3/4	17.67	3/4	297.22	3/4	632.02	3/4	974.27	3/4	1,316.70	3/4	1,659.19	3/4	2,001.68	3/4	2,344.17	3/4	2,686.64	3/4	3,029.10
2	20.47	2	303.77	2	639.15	2	981.40	2	1,323.83	2	1,666.32	2	2,008.81	2	2,351.30	2	2,693.77	2	3,036.23
1/4	24.32	1/4	310.40	1/4	646.29	1/4	988.52	1/4	1,330.97	1/4	1,673.46	1/4	2,015.95	1/4	2,358.44	1/4	2,700.91	1/4	3,043.36
1/2	28.16	1/2	317.04	1/2	653.42	1/2	995.65	1/2	1,338.10	1/2	1,680.59	1/2	2,023.08	1/2	2,365.57	1/2	2,708.04	1/2	3,050.50
3/4	32.01	3/4	323.67	3/4	660.56	3/4	1,002.78	3/4	1,345.24	3/4	1,687.73	3/4	2,030.22	3/4	2,372.71	3/4	2,715.18	3/4	3,057.63
3	35.86	3	330.30	3	667.69	3	1,009.90	3	1,352.37	3	1,694.86	3	2,037.35	3	2,379.84	3	2,722.31	3	3,064.76
1/4	41.11	1/4	337.02	1/4	674.83	1/4	1,017.03	1/4	1,359.51	1/4	1,702.00	1/4	2,044.49	1/4	2,386.98	1/4	2,729.45	1/4	3,071.89
1/2	46.36	1/2	343.74	1/2	681.96	1/2	1,024.16	1/2	1,366.64	1/2	1,709.13	1/2	2,051.62	1/2	2,394.11	1/2	2,736.58	1/2	3,079.03
3/4	51.62	3/4	350.46	3/4	689.10	3/4	1,031.29	3/4	1,373.78	3/4	1,716.27	3/4	2,058.76	3/4	2,401.25	3/4	2,743.72	3/4	3,086.16
4	56.87	4	357.18	4	696.23	4	1,038.43	4	1,380.91	4	1,723.40	4	2,065.89	4	2,408.38	4	2,750.85	4	3,093.29
1/4	62.64	1/4	363.98	1/4	703.37	1/4	1,045.56	1/4	1,388.05	1/4	1,730.54	1/4	2,073.03	1/4	2,415.52	1/4	2,757.99	1/4	3,100.42
1/2	68.42	1/2	370.78	1/2	710.50	1/2	1,052.70	1/2	1,395.18	1/2	1,737.67	1/2	2,080.16	1/2	2,422.65	1/2	2,765.12	1/2	3,107.56
3/4	74.20	3/4	377.58	3/4	717.64	3/4	1,059.83	3/4	1,402.32	3/4	1,744.81	3/4	2,087.30	3/4	2,429.79	3/4	2,772.26	3/4	3,114.69
5	79.98	5	384.38	5	724.77	5	1,066.96	5	1,409.45	5	1,751.94	5	2,094.43	5	2,436.92	5	2,779.39	5	3,121.82
1/4	85.85	1/4	391.26	1/4	731.91	1/4	1,074.10	1/4	1,416.59	1/4	1,759.08	1/4	2,101.57	1/4	2,444.06	1/4	2,786.53	1/4	3,128.96
1/2	91.73	1/2	398.15	1/2	739.04	1/2	1,081.24	1/2	1,423.72	1/2	1,766.21	1/2	2,108.70	1/2	2,451.19	1/2	2,793.66	1/2	3,136.09
3/4	97.61	3/4	405.03	3/4	746.18	3/4	1,088.37	3/4	1,430.86	3/4	1,773.35	3/4	2,115.84	3/4	2,458.33	3/4	2,800.80	3/4	3,143.22
6	103.49	6	411.92	6	753.31	6	1,095.51	6	1,438.00	6	1,780.48	6	2,122.97	6	2,465.46	6	2,807.93	6	3,150.35
1/4	109.45	1/4	418.89	1/4	760.45	1/4	1,102.64	1/4	1,445.13	1/4	1,787.62	1/4	2,130.11	1/4	2,472.60	1/4	2,815.06	1/4	3,157.49
1/2	115.42	1/2	425.85	1/2	767.58	1/2	1,109.78	1/2	1,452.27	1/2	1,794.75	1/2	2,137.24	1/2	2,479.73	1/2	2,822.20	1/2	3,164.62
3/4	121.38	3/4	432.82	3/4	774.71	3/4	1,116.91	3/4	1,459.40	3/4	1,801.89	3/4	2,144.38	3/4	2,486.87	3/4	2,829.33	3/4	3,171.75
7	127.35	7	439.79	7	781.85	7	1,124.05	7	1,466.54	7	1,809.03	7	2,151.51	7	2,494.00	7	2,836.47	7	3,178.89
1/4	133.40	1/4	446.84	1/4	788.98	1/4	1,131.18	1/4	1,473.67	1/4	1,816.16	1/4	2,158.65	1/4	2,501.14	1/4	2,843.60	1/4	3,186.02
1/2	139.45	1/2	453.89	1/2	796.11	1/2	1,138.32	1/2	1,480.81	1/2	1,823.30	1/2	2,165.79	1/2	2,508.28	1/2	2,850.74	1/2	3,193.15
3/4	145.50	3/4	460.95	3/4	803.24	3/4	1,145.45	3/4	1,487.94	3/4	1,830.43	3/4	2,172.92	3/4	2,515.41	3/4	2,857.87	3/4	3,200.28
8	151.55	8	468.00	8	810.37	8	1,152.59	8	1,495.08	8	1,837.57	8	2,180.06	8	2,522.55	8	2,865.01	8	3,207.42
1/4	157.68	1/4	475.11	1/4	817.50	1/4	1,159.72	1/4	1,502.21	1/4	1,844.70	1/4	2,187.19	1/4	2,529.68	1/4	2,872.14	1/4	3,214.55
1/2	163.82	1/2	482.22	1/2	824.62	1/2	1,166.86	1/2	1,509.35	1/2	1,851.84	1/2	2,194.33	1/2	2,536.82	1/2	2,879.28	1/2	3,221.68
3/4	169.95	3/4	489.34	3/4	831.75	3/4	1,173.99	3/4	1,516.48	3/4	1,858.97	3/4	2,201.46	3/4	2,543.95	3/4	2,886.41	3/4	3,228.82
9	176.09	9	496.45	9	838.87	9	1,181.13	9	1,523.62	9	1,866.11	9	2,208.60	9	2,551.09	9	2,893.55	9	3,235.95
1/4	182.30	1/4	503.59	1/4	846.00	1/4	1,188.26	1/4	1,530.75	1/4	1,873.24	1/4	2,215.73	1/4	2,558.22	1/4	2,900.68	1/4	3,243.08
1/2	188.52	1/2	510.72	1/2	853.13	1/2	1,195.40	1/2	1,537.89	1/2	1,880.38	1/2	2,222.87	1/2	2,565.36	1/2	2,907.82	1/2	3,250.21
3/4	194.74	3/4	517.86	3/4	860.25	3/4	1,202.53	3/4	1,545.02	3/4	1,887.51	3/4	2,230.00	3/4	2,572.49	3/4	2,914.95	3/4	3,257.35
10	200.96	10	524.99	10	867.38	10	1,209.67	10	1,552.16	10	1,894.65	10	2,237.14	10	2,579.63	10	2,922.09	10	3,264.48
1/4	207.26	1/4	532.13	1/4	874.50	1/4	1,216.80	1/4	1,559.29	1/4	1,901.78	1/4	2,244.27	1/4	2,586.76	1/4	2,929.22	1/4	3,271.61
1/2	213.56	1/2	539.26	1/2	881.63	1/2	1,223.94	1/2	1,566.43	1/2	1,908.92	1/2	2,251.41	1/2	2,593.90	1/2	2,936.35	1/2	3,278.74
3/4	219.86	3/4	546.40	3/4	888.76	3/4	1,231.07	3/4	1,573.56	3/4	1,916.05	3/4	2,258.54	3/4	2,601.03	3/4	2,943.49	3/4	3,285.88
11	226.16	11	553.53	11	895.88	11	1,238.21	11	1,580.70	11	1,923.19	11	2,265.68	11	2,608.17	11	2,950.62	11	3,293.01
1/4	232.54	1/4	560.67	1/4	903.01	1/4	1,245.34	1/4	1,587.83	1/4	1,930.32	1/4	2,272.81	1/4	2,615.30	1/4	2,957.76	1/4	3,300.14
1/2	238.93	1/2	567.80	1/2	910.14	1/2	1,252.48	1/2	1,594.97	1/2	1,937.46	1/2	2,279.95	1/2	2,622.43	1/2	2,964.89	1/2	3,307.28
3/4	245.31	3/4	574.94	3/4	917.26	3/4	1,259.62	3/4	1,602.10	3/4	1,944.59	3/4	2,287.08	3/4	2,629.56	3/4	2,972.03	3/4	3,314.41

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 419"

1 STBD

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

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	3,321.54	0	3,663.92	0	4,006.39	0	4,348.40	0	4,689.30	0	5,010.08	0		0		0		0	
1/4	3,328.67	1/4	3,671.06	1/4	4,013.53	1/4	4,355.50	1/4	4,696.40	1/4	5,013.28	1/4		1/4		1/4		1/4	
1/2	3,335.81	1/2	3,678.19	1/2	4,020.66	1/2	4,362.60	1/2	4,703.50	1/2	5,016.47	1/2		1/2		1/2		1/2	
3/4	3,342.94	3/4	3,685.33	3/4	4,027.80	3/4	4,369.70	3/4	4,710.61	3/4	5,019.66	3/4		3/4		3/4		3/4	
1	3,350.07	1	3,692.46	1	4,034.93	1	4,376.81	1	4,717.71	1	5,022.85	1		1		1		1	
1/4	3,357.21	1/4	3,699.60	1/4	4,042.07	1/4	4,383.91	1/4	4,724.81	1/4	5,024.86	1/4		1/4		1/4		1/4	
1/2	3,364.34	1/2	3,706.73	1/2	4,049.20	1/2	4,391.01	1/2	4,731.91	1/2	5,026.86	1/2		1/2		1/2		1/2	
3/4	3,371.47	3/4	3,713.87	3/4	4,056.34	3/4	4,398.11	3/4	4,739.01	3/4	5,028.86	3/4		3/4		3/4		3/4	
2	3,378.60	2	3,721.00	2	4,063.47	2	4,405.21	2	4,746.12	2	5,030.86	2		2		2		2	
1/4	3,385.74	1/4	3,728.13	1/4	4,070.61	1/4	4,412.32	1/4	4,753.22	1/4	5,031.79	1/4		1/4		1/4		1/4	
1/2	3,392.87	1/2	3,735.27	1/2	4,077.74	1/2	4,419.42	1/2	4,760.32	1/2	5,032.72	1/2		1/2		1/2		1/2	
3/4	3,400.00	3/4	3,742.40	3/4	4,084.87	3/4	4,426.52	3/4	4,767.42	3/4	5,033.65	3/4		3/4		3/4		3/4	
3	3,407.14	3	3,749.54	3	4,092.01	3	4,433.62	3	4,774.52	3	5,034.57	3		3		3		3	
1/4	3,414.27	1/4	3,756.67	1/4	4,099.14	1/4	4,440.73	1/4	4,781.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,421.40	1/2	3,763.81	1/2	4,106.28	1/2	4,447.83	1/2	4,788.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,428.53	3/4	3,770.94	3/4	4,113.41	3/4	4,454.93	3/4	4,795.83	3/4		3/4		3/4		3/4		3/4	
4	3,435.67	4	3,778.08	4	4,120.55	4	4,462.03	4	4,802.93	4		4		4		4		4	
1/4	3,442.80	1/4	3,785.21	1/4	4,127.68	1/4	4,469.13	1/4	4,810.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,449.93	1/2	3,792.35	1/2	4,134.82	1/2	4,476.24	1/2	4,817.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,457.06	3/4	3,799.48	3/4	4,141.95	3/4	4,483.34	3/4	4,824.17	3/4		3/4		3/4		3/4		3/4	
5	3,464.20	5	3,806.62	5	4,149.09	5	4,490.44	5	4,831.25	5		5		5		5		5	
1/4	3,471.33	1/4	3,813.75	1/4	4,156.22	1/4	4,497.54	1/4	4,838.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,478.46	1/2	3,820.89	1/2	4,163.36	1/2	4,504.64	1/2	4,845.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,485.60	3/4	3,828.02	3/4	4,170.49	3/4	4,511.75	3/4	4,852.42	3/4		3/4		3/4		3/4		3/4	
6	3,492.73	6	3,835.16	6	4,177.63	6	4,518.85	6	4,859.48	6		6		6		6		6	
1/4	3,499.86	1/4	3,842.29	1/4	4,184.76	1/4	4,525.95	1/4	4,866.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,506.99	1/2	3,849.43	1/2	4,191.90	1/2	4,533.05	1/2	4,873.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,514.13	3/4	3,856.56	3/4	4,199.03	3/4	4,540.15	3/4	4,880.65	3/4		3/4		3/4		3/4		3/4	
7	3,521.26	7	3,863.70	7	4,206.17	7	4,547.26	7	4,887.71	7		7		7		7		7	
1/4	3,528.39	1/4	3,870.83	1/4	4,213.30	1/4	4,554.36	1/4	4,894.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,535.53	1/2	3,877.97	1/2	4,220.44	1/2	4,561.46	1/2	4,901.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,542.66	3/4	3,885.10	3/4	4,227.57	3/4	4,568.56	3/4	4,908.85	3/4		3/4		3/4		3/4		3/4	
8	3,549.79	8	3,892.24	8	4,234.71	8	4,575.67	8	4,915.90	8		8		8		8		8	
1/4	3,556.92	1/4	3,899.37	1/4	4,241.82	1/4	4,582.77	1/4	4,922.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.06	1/2	3,906.50	1/2	4,248.94	1/2	4,589.87	1/2	4,929.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,571.19	3/4	3,913.64	3/4	4,256.06	3/4	4,596.97	3/4	4,936.95	3/4		3/4		3/4		3/4		3/4	
9	3,578.32	9	3,920.77	9	4,263.17	9	4,604.07	9	4,943.97	9		9		9		9		9	
1/4	3,585.46	1/4	3,927.91	1/4	4,270.28	1/4	4,611.18	1/4	4,950.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.59	1/2	3,935.04	1/2	4,277.38	1/2	4,618.28	1/2	4,957.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,599.72	3/4	3,942.18	3/4	4,284.48	3/4	4,625.38	3/4	4,963.70	3/4		3/4		3/4		3/4		3/4	
10	3,606.85	10	3,949.31	10	4,291.58	10	4,632.48	10	4,970.27	10		10		10		10		10	
1/4	3,613.99	1/4	3,956.45	1/4	4,298.68	1/4	4,639.58	1/4	4,975.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,621.12	1/2	3,963.58	1/2	4,305.79	1/2	4,646.69	1/2	4,981.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,628.25	3/4	3,970.72	3/4	4,312.89	3/4	4,653.79	3/4	4,986.99	3/4		3/4		3/4		3/4		3/4	
11	3,635.38	11	3,977.85	11	4,319.99	11	4,660.89	11	4,992.56	11		11		11		11		11	
1/4	3,642.52	1/4	3,984.99	1/4	4,327.09	1/4	4,667.99	1/4	4,996.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,649.65	1/2	3,992.12	1/2	4,334.19	1/2	4,675.09	1/2	5,001.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.79	3/4	3,999.26	3/4	4,341.30	3/4	4,682.20	3/4	5,005.70	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 PORT

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	300.52	0	643.79	0	979.19	0	1,315.84	0	1,659.12	0	2,002.40	0	2,345.69	0	2,688.97	0	3,032.25
1/4	3.94	1/4	307.68	1/4	650.94	1/4	986.04	1/4	1,322.99	1/4	1,666.27	1/4	2,009.56	1/4	2,352.84	1/4	2,696.12	1/4	3,039.39
1/2	5.73	1/2	314.83	1/2	658.09	1/2	992.88	1/2	1,330.14	1/2	1,673.43	1/2	2,016.71	1/2	2,359.99	1/2	2,703.27	1/2	3,046.54
3/4	7.52	3/4	321.98	3/4	665.25	3/4	999.73	3/4	1,337.30	3/4	1,680.58	3/4	2,023.86	3/4	2,367.14	3/4	2,710.42	3/4	3,053.68
1	9.30	1	329.13	1	672.40	1	1,006.57	1	1,344.45	1	1,687.73	1	2,031.01	1	2,374.29	1	2,717.57	1	3,060.82
1/4	12.88	1/4	336.28	1/4	679.55	1/4	1,013.41	1/4	1,351.60	1/4	1,694.88	1/4	2,038.16	1/4	2,381.44	1/4	2,724.73	1/4	3,067.97
1/2	16.46	1/2	343.43	1/2	686.70	1/2	1,020.26	1/2	1,358.75	1/2	1,702.03	1/2	2,045.31	1/2	2,388.60	1/2	2,731.88	1/2	3,075.12
3/4	20.03	3/4	350.58	3/4	693.85	3/4	1,027.10	3/4	1,365.90	3/4	1,709.18	3/4	2,052.47	3/4	2,395.75	3/4	2,739.03	3/4	3,082.27
2	23.61	2	357.74	2	701.00	2	1,033.95	2	1,373.05	2	1,716.34	2	2,059.62	2	2,402.90	2	2,746.18	2	3,089.42
1/4	28.97	1/4	364.89	1/4	708.15	1/4	1,040.79	1/4	1,380.21	1/4	1,723.49	1/4	2,066.77	1/4	2,410.05	1/4	2,753.33	1/4	3,096.57
1/2	34.33	1/2	372.04	1/2	715.31	1/2	1,047.63	1/2	1,387.36	1/2	1,730.64	1/2	2,073.92	1/2	2,417.20	1/2	2,760.48	1/2	3,103.72
3/4	39.70	3/4	379.19	3/4	722.46	3/4	1,054.48	3/4	1,394.51	3/4	1,737.79	3/4	2,081.07	3/4	2,424.35	3/4	2,767.64	3/4	3,110.87
3	45.06	3	386.34	3	729.61	3	1,061.32	3	1,401.66	3	1,744.94	3	2,088.22	3	2,431.51	3	2,774.79	3	3,118.02
1/4	51.74	1/4	393.49	1/4	736.76	1/4	1,068.17	1/4	1,408.81	1/4	1,752.09	1/4	2,095.38	1/4	2,438.66	1/4	2,781.94	1/4	3,125.17
1/2	58.43	1/2	400.64	1/2	743.91	1/2	1,075.02	1/2	1,415.96	1/2	1,759.25	1/2	2,102.53	1/2	2,445.81	1/2	2,789.09	1/2	3,132.32
3/4	65.11	3/4	407.80	3/4	751.06	3/4	1,081.87	3/4	1,423.12	3/4	1,766.40	3/4	2,109.68	3/4	2,452.96	3/4	2,796.24	3/4	3,139.47
4	71.80	4	414.95	4	758.21	4	1,088.72	4	1,430.27	4	1,773.55	4	2,116.83	4	2,460.11	4	2,803.39	4	3,146.62
1/4	78.93	1/4	422.10	1/4	765.37	1/4	1,095.58	1/4	1,437.42	1/4	1,780.70	1/4	2,123.98	1/4	2,467.26	1/4	2,810.55	1/4	3,153.77
1/2	86.06	1/2	429.25	1/2	772.52	1/2	1,102.44	1/2	1,444.57	1/2	1,787.85	1/2	2,131.13	1/2	2,474.42	1/2	2,817.70	1/2	3,160.92
3/4	93.18	3/4	436.40	3/4	779.67	3/4	1,109.30	3/4	1,451.72	3/4	1,795.00	3/4	2,138.29	3/4	2,481.57	3/4	2,824.85	3/4	3,168.07
5	100.31	5	443.55	5	786.82	5	1,116.16	5	1,458.87	5	1,802.16	5	2,145.44	5	2,488.72	5	2,832.00	5	3,175.22
1/4	107.46	1/4	450.70	1/4	793.83	1/4	1,123.17	1/4	1,466.03	1/4	1,809.31	1/4	2,152.59	1/4	2,495.87	1/4	2,839.15	1/4	3,182.37
1/2	114.60	1/2	457.86	1/2	800.84	1/2	1,130.18	1/2	1,473.18	1/2	1,816.46	1/2	2,159.74	1/2	2,503.02	1/2	2,846.30	1/2	3,189.52
3/4	121.75	3/4	465.01	3/4	807.85	3/4	1,137.19	3/4	1,480.33	3/4	1,823.61	3/4	2,166.89	3/4	2,510.17	3/4	2,853.46	3/4	3,196.67
6	128.89	6	472.16	6	814.86	6	1,144.20	6	1,487.48	6	1,830.76	6	2,174.04	6	2,517.33	6	2,860.61	6	3,203.82
1/4	136.04	1/4	479.31	1/4	821.72	1/4	1,151.35	1/4	1,494.63	1/4	1,837.91	1/4	2,181.20	1/4	2,524.48	1/4	2,867.76	1/4	3,210.97
1/2	143.20	1/2	486.46	1/2	828.58	1/2	1,158.50	1/2	1,501.78	1/2	1,845.07	1/2	2,188.35	1/2	2,531.63	1/2	2,874.91	1/2	3,218.12
3/4	150.35	3/4	493.61	3/4	835.44	3/4	1,165.65	3/4	1,508.94	3/4	1,852.22	3/4	2,195.50	3/4	2,538.78	3/4	2,882.06	3/4	3,225.27
7	157.50	7	500.76	7	842.30	7	1,172.81	7	1,516.09	7	1,859.37	7	2,202.65	7	2,545.93	7	2,889.21	7	3,232.42
1/4	164.65	1/4	507.92	1/4	849.15	1/4	1,179.96	1/4	1,523.24	1/4	1,866.52	1/4	2,209.80	1/4	2,553.08	1/4	2,896.37	1/4	3,239.56
1/2	171.80	1/2	515.07	1/2	856.00	1/2	1,187.11	1/2	1,530.39	1/2	1,873.67	1/2	2,216.95	1/2	2,560.24	1/2	2,903.52	1/2	3,246.71
3/4	178.95	3/4	522.22	3/4	862.84	3/4	1,194.26	3/4	1,537.54	3/4	1,880.82	3/4	2,224.11	3/4	2,567.39	3/4	2,910.67	3/4	3,253.86
8	186.10	8	529.37	8	869.69	8	1,201.41	8	1,544.69	8	1,887.98	8	2,231.26	8	2,574.54	8	2,917.82	8	3,261.01
1/4	193.25	1/4	536.52	1/4	876.54	1/4	1,208.56	1/4	1,551.85	1/4	1,895.13	1/4	2,238.41	1/4	2,581.69	1/4	2,924.97	1/4	3,268.16
1/2	200.41	1/2	543.67	1/2	883.38	1/2	1,215.72	1/2	1,559.00	1/2	1,902.28	1/2	2,245.56	1/2	2,588.84	1/2	2,932.12	1/2	3,275.31
3/4	207.56	3/4	550.82	3/4	890.22	3/4	1,222.87	3/4	1,566.15	3/4	1,909.43	3/4	2,252.71	3/4	2,595.99	3/4	2,939.28	3/4	3,282.46
9	214.71	9	557.98	9	897.07	9	1,230.02	9	1,573.30	9	1,916.58	9	2,259.86	9	2,603.15	9	2,946.43	9	3,289.61
1/4	221.86	1/4	565.13	1/4	903.91	1/4	1,237.17	1/4	1,580.45	1/4	1,923.73	1/4	2,267.02	1/4	2,610.30	1/4	2,953.58	1/4	3,296.76
1/2	229.01	1/2	572.28	1/2	910.75	1/2	1,244.32	1/2	1,587.60	1/2	1,930.89	1/2	2,274.17	1/2	2,617.45	1/2	2,960.73	1/2	3,303.91
3/4	236.16	3/4	579.43	3/4	917.60	3/4	1,251.48	3/4	1,594.76	3/4	1,938.04	3/4	2,281.32	3/4	2,624.60	3/4	2,967.88	3/4	3,311.06
10	243.31	10	586.58	10	924.44	10	1,258.63	10	1,601.91	10	1,945.19	10	2,288.47	10	2,631.75	10	2,975.03	10	3,318.21
1/4	250.46	1/4	593.73	1/4	931.29	1/4	1,265.78	1/4	1,609.06	1/4	1,952.34	1/4	2,295.62	1/4	2,638.90	1/4	2,982.19	1/4	3,325.36
1/2	257.62	1/2	600.88	1/2	938.13	1/2	1,272.93	1/2	1,616.21	1/2	1,959.49	1/2	2,302.77	1/2	2,646.06	1/2	2,989.34	1/2	3,332.51
3/4	264.77	3/4	608.03	3/4	944.97	3/4	1,280.08	3/4	1,623.36	3/4	1,966.64	3/4	2,309.93	3/4	2,653.21	3/4	2,996.49	3/4	3,339.66
11	271.92	11	615.19	11	951.82	11	1,287.23	11	1,630.52	11	1,973.80	11	2,317.08	11	2,660.36	11	3,003.64	11	3,346.81
1/4	279.07	1/4	622.34	1/4	958.66	1/4	1,294.39	1/4	1,637.67	1/4	1,980.95	1/4	2,324.23	1/4	2,667.51	1/4	3,010.79	1/4	3,353.96
1/2	286.22	1/2	629.49	1/2	965.51	1/2	1,301.54	1/2	1,644.82	1/2	1,988.10	1/2	2,331.38	1/2	2,674.66	1/2	3,017.94	1/2	3,361.11
3/4	293.37	3/4	636.64	3/4	972.35	3/4	1,308.69	3/4	1,651.97	3/4	1,995.25	3/4	2,338.53	3/4	2,681.81	3/4	3,025.10	3/4	3,368.26

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 419"

2 PORT

INNAGE 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	3,375.41	0	3,718.59	0	4,061.77	0	4,404.49	0	4,746.11	0	5,067.56	0		0		0		0	
1/4	3,382.56	1/4	3,725.74	1/4	4,068.92	1/4	4,411.61	1/4	4,753.23	1/4	5,070.75	1/4		1/4		1/4		1/4	
1/2	3,389.71	1/2	3,732.89	1/2	4,076.07	1/2	4,418.73	1/2	4,760.34	1/2	5,073.95	1/2		1/2		1/2		1/2	
3/4	3,396.86	3/4	3,740.04	3/4	4,083.22	3/4	4,425.84	3/4	4,767.46	3/4	5,077.15	3/4		3/4		3/4		3/4	
1	3,404.01	1	3,747.19	1	4,090.37	1	4,432.96	1	4,774.58	1	5,080.35	1		1		1		1	
1/4	3,411.16	1/4	3,754.34	1/4	4,097.52	1/4	4,440.08	1/4	4,781.69	1/4	5,082.36	1/4		1/4		1/4		1/4	
1/2	3,418.30	1/2	3,761.49	1/2	4,104.67	1/2	4,447.20	1/2	4,788.81	1/2	5,084.36	1/2		1/2		1/2		1/2	
3/4	3,425.45	3/4	3,768.64	3/4	4,111.82	3/4	4,454.31	3/4	4,795.93	3/4	5,086.37	3/4		3/4		3/4		3/4	
2	3,432.60	2	3,775.78	2	4,118.97	2	4,461.43	2	4,803.05	2	5,088.37	2		2		2		2	
1/4	3,439.75	1/4	3,782.93	1/4	4,126.12	1/4	4,468.55	1/4	4,810.16	1/4	5,089.30	1/4		1/4		1/4		1/4	
1/2	3,446.90	1/2	3,790.08	1/2	4,133.26	1/2	4,475.66	1/2	4,817.28	1/2	5,090.23	1/2		1/2		1/2		1/2	
3/4	3,454.05	3/4	3,797.23	3/4	4,140.41	3/4	4,482.78	3/4	4,824.40	3/4	5,091.16	3/4		3/4		3/4		3/4	
3	3,461.20	3	3,804.38	3	4,147.56	3	4,489.90	3	4,831.51	3	5,092.09	3		3		3		3	
1/4	3,468.35	1/4	3,811.53	1/4	4,154.71	1/4	4,497.01	1/4	4,838.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,475.50	1/2	3,818.68	1/2	4,161.86	1/2	4,504.13	1/2	4,845.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,482.65	3/4	3,825.83	3/4	4,169.01	3/4	4,511.25	3/4	4,852.86	3/4		3/4		3/4		3/4		3/4	
4	3,489.80	4	3,832.98	4	4,176.16	4	4,518.37	4	4,859.98	4		4		4		4		4	
1/4	3,496.95	1/4	3,840.13	1/4	4,183.31	1/4	4,525.48	1/4	4,867.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,504.10	1/2	3,847.28	1/2	4,190.46	1/2	4,532.60	1/2	4,874.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,511.25	3/4	3,854.43	3/4	4,197.61	3/4	4,539.72	3/4	4,881.26	3/4		3/4		3/4		3/4		3/4	
5	3,518.40	5	3,861.58	5	4,204.76	5	4,546.83	5	4,888.36	5		5		5		5		5	
1/4	3,525.55	1/4	3,868.73	1/4	4,211.91	1/4	4,553.95	1/4	4,895.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,532.70	1/2	3,875.88	1/2	4,219.06	1/2	4,561.07	1/2	4,902.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,539.85	3/4	3,883.03	3/4	4,226.21	3/4	4,568.18	3/4	4,909.57	3/4		3/4		3/4		3/4		3/4	
6	3,547.00	6	3,890.18	6	4,233.36	6	4,575.30	6	4,916.65	6		6		6		6		6	
1/4	3,554.15	1/4	3,897.33	1/4	4,240.51	1/4	4,582.42	1/4	4,923.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,561.30	1/2	3,904.48	1/2	4,247.66	1/2	4,589.54	1/2	4,930.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,568.45	3/4	3,911.63	3/4	4,254.81	3/4	4,596.65	3/4	4,937.86	3/4		3/4		3/4		3/4		3/4	
7	3,575.60	7	3,918.78	7	4,261.96	7	4,603.77	7	4,944.93	7		7		7		7		7	
1/4	3,582.75	1/4	3,925.93	1/4	4,269.11	1/4	4,610.89	1/4	4,951.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,589.90	1/2	3,933.08	1/2	4,276.26	1/2	4,618.00	1/2	4,959.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,597.04	3/4	3,940.23	3/4	4,283.41	3/4	4,625.12	3/4	4,966.12	3/4		3/4		3/4		3/4		3/4	
8	3,604.19	8	3,947.38	8	4,290.56	8	4,632.24	8	4,973.18	8		8		8		8		8	
1/4	3,611.34	1/4	3,954.52	1/4	4,297.69	1/4	4,639.35	1/4	4,980.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,618.49	1/2	3,961.67	1/2	4,304.82	1/2	4,646.47	1/2	4,987.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,625.64	3/4	3,968.82	3/4	4,311.96	3/4	4,653.59	3/4	4,994.27	3/4		3/4		3/4		3/4		3/4	
9	3,632.79	9	3,975.97	9	4,319.09	9	4,660.71	9	5,001.30	9		9		9		9		9	
1/4	3,639.94	1/4	3,983.12	1/4	4,326.21	1/4	4,667.82	1/4	5,007.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,647.09	1/2	3,990.27	1/2	4,333.32	1/2	4,674.94	1/2	5,014.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,654.24	3/4	3,997.42	3/4	4,340.44	3/4	4,682.06	3/4	5,021.08	3/4		3/4		3/4		3/4		3/4	
10	3,661.39	10	4,004.57	10	4,347.56	10	4,689.17	10	5,027.67	10		10		10		10		10	
1/4	3,668.54	1/4	4,011.72	1/4	4,354.67	1/4	4,696.29	1/4	5,033.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,675.69	1/2	4,018.87	1/2	4,361.79	1/2	4,703.41	1/2	5,038.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,682.84	3/4	4,026.02	3/4	4,368.91	3/4	4,710.52	3/4	5,044.41	3/4		3/4		3/4		3/4		3/4	
11	3,689.99	11	4,033.17	11	4,376.03	11	4,717.64	11	5,049.99	11		11		11		11		11	
1/4	3,697.14	1/4	4,040.32	1/4	4,383.14	1/4	4,724.76	1/4	5,054.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,704.29	1/2	4,047.47	1/2	4,390.26	1/2	4,731.88	1/2	5,058.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,711.44	3/4	4,054.62	3/4	4,397.38	3/4	4,738.99	3/4	5,063.17	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 STBD

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	300.63	0	644.02	0	987.14	0	1,330.32	0	1,673.72	0	2,017.13	0	2,360.53	0	2,703.93	0	3,047.33
1/4	3.94	1/4	307.79	1/4	651.17	1/4	994.28	1/4	1,337.48	1/4	1,680.88	1/4	2,024.28	1/4	2,367.68	1/4	2,711.08	1/4	3,054.48
1/2	5.73	1/2	314.94	1/2	658.33	1/2	1,001.42	1/2	1,344.63	1/2	1,688.03	1/2	2,031.43	1/2	2,374.84	1/2	2,718.24	1/2	3,061.64
3/4	7.52	3/4	322.09	3/4	665.48	3/4	1,008.56	3/4	1,351.79	3/4	1,695.19	3/4	2,038.59	3/4	2,381.99	3/4	2,725.39	3/4	3,068.79
1	9.31	1	329.25	1	672.64	1	1,015.70	1	1,358.94	1	1,702.34	1	2,045.74	1	2,389.14	1	2,732.55	1	3,075.94
1/4	12.89	1/4	336.40	1/4	679.79	1/4	1,022.84	1/4	1,366.09	1/4	1,709.50	1/4	2,052.90	1/4	2,396.30	1/4	2,739.70	1/4	3,083.10
1/2	16.46	1/2	343.56	1/2	686.94	1/2	1,029.98	1/2	1,373.25	1/2	1,716.65	1/2	2,060.05	1/2	2,403.45	1/2	2,746.85	1/2	3,090.25
3/4	20.04	3/4	350.71	3/4	694.10	3/4	1,037.12	3/4	1,380.40	3/4	1,723.80	3/4	2,067.21	3/4	2,410.61	3/4	2,754.01	3/4	3,097.40
2	23.62	2	357.86	2	701.25	2	1,044.26	2	1,387.56	2	1,730.96	2	2,074.36	2	2,417.76	2	2,761.16	2	3,104.55
1/4	28.98	1/4	365.02	1/4	708.40	1/4	1,051.40	1/4	1,394.71	1/4	1,738.11	1/4	2,081.51	1/4	2,424.92	1/4	2,768.32	1/4	3,111.70
1/2	34.35	1/2	372.17	1/2	715.56	1/2	1,058.54	1/2	1,401.86	1/2	1,745.27	1/2	2,088.67	1/2	2,432.07	1/2	2,775.47	1/2	3,118.86
3/4	39.71	3/4	379.33	3/4	722.71	3/4	1,065.68	3/4	1,409.02	3/4	1,752.42	3/4	2,095.82	3/4	2,439.22	3/4	2,782.63	3/4	3,126.01
3	45.07	3	386.48	3	729.87	3	1,072.82	3	1,416.17	3	1,759.57	3	2,102.98	3	2,446.38	3	2,789.78	3	3,133.16
1/4	51.76	1/4	393.63	1/4	737.02	1/4	1,079.97	1/4	1,423.33	1/4	1,766.73	1/4	2,110.13	1/4	2,453.53	1/4	2,796.93	1/4	3,140.31
1/2	58.45	1/2	400.79	1/2	744.17	1/2	1,087.11	1/2	1,430.48	1/2	1,773.88	1/2	2,117.28	1/2	2,460.69	1/2	2,804.09	1/2	3,147.47
3/4	65.14	3/4	407.94	3/4	751.33	3/4	1,094.26	3/4	1,437.64	3/4	1,781.04	3/4	2,124.44	3/4	2,467.84	3/4	2,811.24	3/4	3,154.62
4	71.83	4	415.09	4	758.48	4	1,101.40	4	1,444.79	4	1,788.19	4	2,131.59	4	2,474.99	4	2,818.40	4	3,161.77
1/4	78.96	1/4	422.25	1/4	765.64	1/4	1,108.55	1/4	1,451.94	1/4	1,795.35	1/4	2,138.75	1/4	2,482.15	1/4	2,825.55	1/4	3,168.92
1/2	86.09	1/2	429.40	1/2	772.79	1/2	1,115.70	1/2	1,459.10	1/2	1,802.50	1/2	2,145.90	1/2	2,489.30	1/2	2,832.70	1/2	3,176.07
3/4	93.22	3/4	436.56	3/4	779.94	3/4	1,122.85	3/4	1,466.25	3/4	1,809.65	3/4	2,153.06	3/4	2,496.46	3/4	2,839.86	3/4	3,183.23
5	100.35	5	443.71	5	787.10	5	1,130.01	5	1,473.41	5	1,816.81	5	2,160.21	5	2,503.61	5	2,847.01	5	3,190.38
1/4	107.50	1/4	450.86	1/4	794.25	1/4	1,137.16	1/4	1,480.56	1/4	1,823.96	1/4	2,167.36	1/4	2,510.77	1/4	2,854.17	1/4	3,197.53
1/2	114.65	1/2	458.02	1/2	801.41	1/2	1,144.31	1/2	1,487.72	1/2	1,831.12	1/2	2,174.52	1/2	2,517.92	1/2	2,861.32	1/2	3,204.68
3/4	121.79	3/4	465.17	3/4	808.56	3/4	1,151.47	3/4	1,494.87	3/4	1,838.27	3/4	2,181.67	3/4	2,525.07	3/4	2,868.48	3/4	3,211.84
6	128.94	6	472.33	6	815.71	6	1,158.62	6	1,502.02	6	1,845.43	6	2,188.83	6	2,532.23	6	2,875.63	6	3,218.99
1/4	136.09	1/4	479.48	1/4	822.87	1/4	1,165.78	1/4	1,509.18	1/4	1,852.58	1/4	2,195.98	1/4	2,539.38	1/4	2,882.78	1/4	3,226.14
1/2	143.25	1/2	486.63	1/2	830.02	1/2	1,172.93	1/2	1,516.33	1/2	1,859.73	1/2	2,203.14	1/2	2,546.54	1/2	2,889.94	1/2	3,233.29
3/4	150.40	3/4	493.79	3/4	837.17	3/4	1,180.08	3/4	1,523.49	3/4	1,866.89	3/4	2,210.29	3/4	2,553.69	3/4	2,897.09	3/4	3,240.44
7	157.55	7	500.94	7	844.32	7	1,187.24	7	1,530.64	7	1,874.04	7	2,217.44	7	2,560.85	7	2,904.25	7	3,247.60
1/4	164.71	1/4	508.10	1/4	851.47	1/4	1,194.39	1/4	1,537.79	1/4	1,881.20	1/4	2,224.60	1/4	2,568.00	1/4	2,911.40	1/4	3,254.75
1/2	171.86	1/2	515.25	1/2	858.61	1/2	1,201.55	1/2	1,544.95	1/2	1,888.35	1/2	2,231.75	1/2	2,575.15	1/2	2,918.56	1/2	3,261.90
3/4	179.02	3/4	522.40	3/4	865.76	3/4	1,208.70	3/4	1,552.10	3/4	1,895.50	3/4	2,238.91	3/4	2,582.31	3/4	2,925.71	3/4	3,269.05
8	186.17	8	529.56	8	872.90	8	1,215.86	8	1,559.26	8	1,902.66	8	2,246.06	8	2,589.46	8	2,932.86	8	3,276.21
1/4	193.32	1/4	536.71	1/4	880.04	1/4	1,223.01	1/4	1,566.41	1/4	1,909.81	1/4	2,253.21	1/4	2,596.62	1/4	2,940.02	1/4	3,283.36
1/2	200.48	1/2	543.87	1/2	887.18	1/2	1,230.16	1/2	1,573.57	1/2	1,916.97	1/2	2,260.37	1/2	2,603.77	1/2	2,947.17	1/2	3,290.51
3/4	207.63	3/4	551.02	3/4	894.32	3/4	1,237.32	3/4	1,580.72	3/4	1,924.12	3/4	2,267.52	3/4	2,610.92	3/4	2,954.33	3/4	3,297.66
9	214.79	9	558.17	9	901.46	9	1,244.47	9	1,587.87	9	1,931.28	9	2,274.68	9	2,618.08	9	2,961.48	9	3,304.81
1/4	221.94	1/4	565.33	1/4	908.60	1/4	1,251.63	1/4	1,595.03	1/4	1,938.43	1/4	2,281.83	1/4	2,625.23	1/4	2,968.63	1/4	3,311.97
1/2	229.09	1/2	572.48	1/2	915.74	1/2	1,258.78	1/2	1,602.18	1/2	1,945.58	1/2	2,288.99	1/2	2,632.39	1/2	2,975.79	1/2	3,319.12
3/4	236.25	3/4	579.63	3/4	922.88	3/4	1,265.94	3/4	1,609.34	3/4	1,952.74	3/4	2,296.14	3/4	2,639.54	3/4	2,982.94	3/4	3,326.27
10	243.40	10	586.79	10	930.02	10	1,273.09	10	1,616.49	10	1,959.89	10	2,303.29	10	2,646.70	10	2,990.10	10	3,333.42
1/4	250.56	1/4	593.94	1/4	937.16	1/4	1,280.24	1/4	1,623.65	1/4	1,967.05	1/4	2,310.45	1/4	2,653.85	1/4	2,997.25	1/4	3,340.58
1/2	257.71	1/2	601.10	1/2	944.30	1/2	1,287.40	1/2	1,630.80	1/2	1,974.20	1/2	2,317.60	1/2	2,661.00	1/2	3,004.41	1/2	3,347.73
3/4	264.86	3/4	608.25	3/4	951.44	3/4	1,294.55	3/4	1,637.95	3/4	1,981.36	3/4	2,324.76	3/4	2,668.16	3/4	3,011.56	3/4	3,354.88
11	272.02	11	615.40	11	958.58	11	1,301.71	11	1,645.11	11	1,988.51	11	2,331.91	11	2,675.31	11	3,018.71	11	3,362.03
1/4	279.17	1/4	622.56	1/4	965.72	1/4	1,308.86	1/4	1,652.26	1/4	1,995.66	1/4	2,339.07	1/4	2,682.47	1/4	3,025.87	1/4	3,369.18
1/2	286.32	1/2	629.71	1/2	972.86	1/2	1,316.01	1/2	1,659.42	1/2	2,002.82	1/2	2,346.22	1/2	2,689.62	1/2	3,033.02	1/2	3,376.34
3/4	293.48	3/4	636.87	3/4	980.00	3/4	1,323.17	3/4	1,666.57	3/4	2,009.97	3/4	2,353.37	3/4	2,696.78	3/4	3,040.18	3/4	3,383.49

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 419"

2 STBD

INNAGE 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	3,390.64	0	3,733.96	0	4,077.36	0	4,420.30	0	4,762.13	0	5,083.80	0		0		0		0	
1/4	3,397.79	1/4	3,741.11	1/4	4,084.51	1/4	4,427.42	1/4	4,769.26	1/4	5,087.00	1/4		1/4		1/4		1/4	
1/2	3,404.94	1/2	3,748.27	1/2	4,091.67	1/2	4,434.55	1/2	4,776.38	1/2	5,090.20	1/2		1/2		1/2		1/2	
3/4	3,412.10	3/4	3,755.42	3/4	4,098.82	3/4	4,441.67	3/4	4,783.50	3/4	5,093.40	3/4		3/4		3/4		3/4	
1	3,419.25	1	3,762.57	1	4,105.98	1	4,448.79	1	4,790.62	1	5,096.60	1		1		1		1	
1/4	3,426.40	1/4	3,769.73	1/4	4,113.13	1/4	4,455.91	1/4	4,797.74	1/4	5,098.61	1/4		1/4		1/4		1/4	
1/2	3,433.55	1/2	3,776.88	1/2	4,120.28	1/2	4,463.03	1/2	4,804.86	1/2	5,100.62	1/2		1/2		1/2		1/2	
3/4	3,440.71	3/4	3,784.04	3/4	4,127.44	3/4	4,470.15	3/4	4,811.99	3/4	5,102.63	3/4		3/4		3/4		3/4	
2	3,447.86	2	3,791.19	2	4,134.59	2	4,477.27	2	4,819.11	2	5,104.64	2		2		2		2	
1/4	3,455.01	1/4	3,798.35	1/4	4,141.75	1/4	4,484.40	1/4	4,826.23	1/4	5,105.57	1/4		1/4		1/4		1/4	
1/2	3,462.16	1/2	3,805.50	1/2	4,148.90	1/2	4,491.52	1/2	4,833.35	1/2	5,106.50	1/2		1/2		1/2		1/2	
3/4	3,469.31	3/4	3,812.65	3/4	4,156.06	3/4	4,498.64	3/4	4,840.47	3/4	5,107.43	3/4		3/4		3/4		3/4	
3	3,476.47	3	3,819.81	3	4,163.21	3	4,505.76	3	4,847.59	3	5,108.36	3		3		3		3	
1/4	3,483.62	1/4	3,826.96	1/4	4,170.36	1/4	4,512.88	1/4	4,854.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,490.77	1/2	3,834.12	1/2	4,177.52	1/2	4,520.00	1/2	4,861.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,497.92	3/4	3,841.27	3/4	4,184.67	3/4	4,527.13	3/4	4,868.96	3/4		3/4		3/4		3/4		3/4	
4	3,505.08	4	3,848.42	4	4,191.83	4	4,534.25	4	4,876.08	4		4		4		4		4	
1/4	3,512.23	1/4	3,855.58	1/4	4,198.98	1/4	4,541.37	1/4	4,883.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,519.38	1/2	3,862.73	1/2	4,206.13	1/2	4,548.49	1/2	4,890.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,526.53	3/4	3,869.89	3/4	4,213.29	3/4	4,555.61	3/4	4,897.38	3/4		3/4		3/4		3/4		3/4	
5	3,533.68	5	3,877.04	5	4,220.44	5	4,562.73	5	4,904.48	5		5		5		5		5	
1/4	3,540.84	1/4	3,884.20	1/4	4,227.60	1/4	4,569.85	1/4	4,911.55	1/4		1/4		1/4		1/4		1/4	
1/2	3,547.99	1/2	3,891.35	1/2	4,234.75	1/2	4,576.98	1/2	4,918.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.14	3/4	3,898.50	3/4	4,241.91	3/4	4,584.10	3/4	4,925.71	3/4		3/4		3/4		3/4		3/4	
6	3,562.29	6	3,905.66	6	4,249.06	6	4,591.22	6	4,932.78	6		6		6		6		6	
1/4	3,569.45	1/4	3,912.81	1/4	4,256.21	1/4	4,598.34	1/4	4,939.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,576.60	1/2	3,919.97	1/2	4,263.37	1/2	4,605.46	1/2	4,946.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,583.75	3/4	3,927.12	3/4	4,270.52	3/4	4,612.58	3/4	4,954.01	3/4		3/4		3/4		3/4		3/4	
7	3,590.90	7	3,934.28	7	4,277.68	7	4,619.70	7	4,961.08	7		7		7		7		7	
1/4	3,598.05	1/4	3,941.43	1/4	4,284.83	1/4	4,626.83	1/4	4,968.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,605.21	1/2	3,948.58	1/2	4,291.99	1/2	4,633.95	1/2	4,975.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,612.36	3/4	3,955.74	3/4	4,299.14	3/4	4,641.07	3/4	4,982.29	3/4		3/4		3/4		3/4		3/4	
8	3,619.51	8	3,962.89	8	4,306.29	8	4,648.19	8	4,989.36	8		8		8		8		8	
1/4	3,626.66	1/4	3,970.05	1/4	4,313.43	1/4	4,655.31	1/4	4,996.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,633.82	1/2	3,977.20	1/2	4,320.57	1/2	4,662.43	1/2	5,003.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,640.97	3/4	3,984.35	3/4	4,327.71	3/4	4,669.56	3/4	5,010.46	3/4		3/4		3/4		3/4		3/4	
9	3,648.12	9	3,991.51	9	4,334.84	9	4,676.68	9	5,017.50	9		9		9		9		9	
1/4	3,655.27	1/4	3,998.66	1/4	4,341.97	1/4	4,683.80	1/4	5,024.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.42	1/2	4,005.82	1/2	4,349.09	1/2	4,690.92	1/2	5,030.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.58	3/4	4,012.97	3/4	4,356.21	3/4	4,698.04	3/4	5,037.28	3/4		3/4		3/4		3/4		3/4	
10	3,676.73	10	4,020.13	10	4,363.33	10	4,705.16	10	5,043.88	10		10		10		10		10	
1/4	3,683.88	1/4	4,027.28	1/4	4,370.45	1/4	4,712.28	1/4	5,049.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,691.03	1/2	4,034.43	1/2	4,377.57	1/2	4,719.41	1/2	5,055.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.19	3/4	4,041.59	3/4	4,384.70	3/4	4,726.53	3/4	5,060.64	3/4		3/4		3/4		3/4		3/4	
11	3,705.34	11	4,048.74	11	4,391.82	11	4,733.65	11	5,066.22	11		11		11		11		11	
1/4	3,712.50	1/4	4,055.90	1/4	4,398.94	1/4	4,740.77	1/4	5,070.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.65	1/2	4,063.05	1/2	4,406.06	1/2	4,747.89	1/2	5,075.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,726.80	3/4	4,070.21	3/4	4,413.18	3/4	4,755.01	3/4	5,079.40	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 PORT

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.65	0	641.47	0	975.43	0	1,310.61	0	1,652.25	0	1,993.89	0	2,335.53	0	2,677.15	0	3,018.92
1/4	3.93	1/4	306.78	1/4	648.58	1/4	982.24	1/4	1,317.73	1/4	1,659.37	1/4	2,001.01	1/4	2,342.65	1/4	2,684.27	1/4	3,026.04
1/2	5.71	1/2	313.91	1/2	655.70	1/2	989.05	1/2	1,324.85	1/2	1,666.49	1/2	2,008.13	1/2	2,349.77	1/2	2,691.39	1/2	3,033.16
3/4	7.50	3/4	321.04	3/4	662.82	3/4	995.86	3/4	1,331.97	3/4	1,673.61	3/4	2,015.25	3/4	2,356.89	3/4	2,698.50	3/4	3,040.28
1	9.28	1	328.17	1	669.94	1	1,002.67	1	1,339.08	1	1,680.72	1	2,022.36	1	2,364.00	1	2,705.62	1	3,047.40
1/4	12.84	1/4	335.30	1/4	677.06	1/4	1,009.48	1/4	1,346.20	1/4	1,687.84	1/4	2,029.48	1/4	2,371.12	1/4	2,712.74	1/4	3,054.51
1/2	16.41	1/2	342.43	1/2	684.18	1/2	1,016.28	1/2	1,353.32	1/2	1,694.96	1/2	2,036.60	1/2	2,378.24	1/2	2,719.85	1/2	3,061.62
3/4	19.97	3/4	349.56	3/4	691.30	3/4	1,023.09	3/4	1,360.44	3/4	1,702.08	3/4	2,043.72	3/4	2,385.36	3/4	2,726.97	3/4	3,068.74
2	23.54	2	356.69	2	698.42	2	1,029.90	2	1,367.55	2	1,709.19	2	2,050.83	2	2,392.47	2	2,734.09	2	3,075.85
1/4	28.89	1/4	363.82	1/4	705.53	1/4	1,036.71	1/4	1,374.67	1/4	1,716.31	1/4	2,057.95	1/4	2,399.59	1/4	2,741.20	1/4	3,082.96
1/2	34.23	1/2	370.94	1/2	712.65	1/2	1,043.52	1/2	1,381.79	1/2	1,723.43	1/2	2,065.07	1/2	2,406.71	1/2	2,748.32	1/2	3,090.07
3/4	39.58	3/4	378.06	3/4	719.77	3/4	1,050.32	3/4	1,388.91	3/4	1,730.55	3/4	2,072.19	3/4	2,413.83	3/4	2,755.44	3/4	3,097.19
3	44.93	3	385.19	3	726.89	3	1,057.13	3	1,396.02	3	1,737.66	3	2,079.30	3	2,420.94	3	2,762.55	3	3,104.30
1/4	51.59	1/4	392.31	1/4	734.01	1/4	1,063.94	1/4	1,403.14	1/4	1,744.78	1/4	2,086.42	1/4	2,428.06	1/4	2,769.67	1/4	3,111.40
1/2	58.26	1/2	399.43	1/2	741.13	1/2	1,070.76	1/2	1,410.26	1/2	1,751.90	1/2	2,093.54	1/2	2,435.18	1/2	2,776.78	1/2	3,118.51
3/4	64.93	3/4	406.54	3/4	748.25	3/4	1,077.57	3/4	1,417.38	3/4	1,759.02	3/4	2,100.66	3/4	2,442.30	3/4	2,783.90	3/4	3,125.61
4	71.59	4	413.66	4	755.37	4	1,084.38	4	1,424.49	4	1,766.13	4	2,107.77	4	2,449.41	4	2,791.02	4	3,132.72
1/4	78.70	1/4	420.78	1/4	762.48	1/4	1,091.23	1/4	1,431.61	1/4	1,773.25	1/4	2,114.89	1/4	2,456.53	1/4	2,798.13	1/4	3,139.81
1/2	85.81	1/2	427.90	1/2	769.60	1/2	1,098.08	1/2	1,438.73	1/2	1,780.37	1/2	2,122.01	1/2	2,463.65	1/2	2,805.25	1/2	3,146.91
3/4	92.91	3/4	435.02	3/4	776.72	3/4	1,104.93	3/4	1,445.85	3/4	1,787.49	3/4	2,129.13	3/4	2,470.77	3/4	2,812.37	3/4	3,154.00
5	100.02	5	442.14	5	783.84	5	1,111.79	5	1,452.96	5	1,794.60	5	2,136.24	5	2,477.88	5	2,819.48	5	3,161.10
1/4	107.14	1/4	449.26	1/4	790.84	1/4	1,118.79	1/4	1,460.08	1/4	1,801.72	1/4	2,143.36	1/4	2,485.00	1/4	2,826.60	1/4	3,168.19
1/2	114.27	1/2	456.38	1/2	797.85	1/2	1,125.79	1/2	1,467.20	1/2	1,808.84	1/2	2,150.48	1/2	2,492.12	1/2	2,833.72	1/2	3,175.29
3/4	121.39	3/4	463.50	3/4	804.85	3/4	1,132.79	3/4	1,474.32	3/4	1,815.96	3/4	2,157.60	3/4	2,499.24	3/4	2,840.83	3/4	3,182.38
6	128.52	6	470.61	6	811.85	6	1,139.79	6	1,481.43	6	1,823.07	6	2,164.71	6	2,506.35	6	2,847.95	6	3,189.48
1/4	135.65	1/4	477.73	1/4	818.71	1/4	1,146.91	1/4	1,488.55	1/4	1,830.19	1/4	2,171.83	1/4	2,513.47	1/4	2,855.07	1/4	3,196.57
1/2	142.78	1/2	484.85	1/2	825.56	1/2	1,154.03	1/2	1,495.67	1/2	1,837.31	1/2	2,178.95	1/2	2,520.59	1/2	2,862.18	1/2	3,203.67
3/4	149.91	3/4	491.97	3/4	832.41	3/4	1,161.15	3/4	1,502.79	3/4	1,844.43	3/4	2,186.07	3/4	2,527.70	3/4	2,869.30	3/4	3,210.76
7	157.04	7	499.09	7	839.26	7	1,168.26	7	1,509.90	7	1,851.54	7	2,193.18	7	2,534.82	7	2,876.42	7	3,217.86
1/4	164.17	1/4	506.21	1/4	846.07	1/4	1,175.38	1/4	1,517.02	1/4	1,858.66	1/4	2,200.30	1/4	2,541.94	1/4	2,883.53	1/4	3,224.95
1/2	171.30	1/2	513.33	1/2	852.88	1/2	1,182.50	1/2	1,524.14	1/2	1,865.78	1/2	2,207.42	1/2	2,549.05	1/2	2,890.65	1/2	3,232.05
3/4	178.43	3/4	520.45	3/4	859.70	3/4	1,189.62	3/4	1,531.26	3/4	1,872.90	3/4	2,214.54	3/4	2,556.17	3/4	2,897.77	3/4	3,239.14
8	185.56	8	527.56	8	866.51	8	1,196.73	8	1,538.37	8	1,880.01	8	2,221.65	8	2,563.29	8	2,904.88	8	3,246.24
1/4	192.69	1/4	534.68	1/4	873.32	1/4	1,203.85	1/4	1,545.49	1/4	1,887.13	1/4	2,228.77	1/4	2,570.40	1/4	2,912.01	1/4	3,253.33
1/2	199.82	1/2	541.80	1/2	880.12	1/2	1,210.97	1/2	1,552.61	1/2	1,894.25	1/2	2,235.89	1/2	2,577.52	1/2	2,919.13	1/2	3,260.43
3/4	206.95	3/4	548.92	3/4	886.93	3/4	1,218.09	3/4	1,559.73	3/4	1,901.37	3/4	2,243.01	3/4	2,584.64	3/4	2,926.25	3/4	3,267.53
9	214.08	9	556.04	9	893.74	9	1,225.20	9	1,566.84	9	1,908.48	9	2,250.12	9	2,591.75	9	2,933.38	9	3,274.62
1/4	221.21	1/4	563.16	1/4	900.55	1/4	1,232.32	1/4	1,573.96	1/4	1,915.60	1/4	2,257.24	1/4	2,598.87	1/4	2,940.51	1/4	3,281.72
1/2	228.34	1/2	570.28	1/2	907.35	1/2	1,239.44	1/2	1,581.08	1/2	1,922.72	1/2	2,264.36	1/2	2,605.99	1/2	2,947.63	1/2	3,288.82
3/4	235.47	3/4	577.40	3/4	914.16	3/4	1,246.56	3/4	1,588.20	3/4	1,929.84	3/4	2,271.48	3/4	2,613.10	3/4	2,954.76	3/4	3,295.91
10	242.60	10	584.51	10	920.97	10	1,253.67	10	1,595.31	10	1,936.95	10	2,278.59	10	2,620.22	10	2,961.89	10	3,303.01
1/4	249.73	1/4	591.63	1/4	927.78	1/4	1,260.79	1/4	1,602.43	1/4	1,944.07	1/4	2,285.71	1/4	2,627.34	1/4	2,969.02	1/4	3,310.11
1/2	256.86	1/2	598.75	1/2	934.59	1/2	1,267.91	1/2	1,609.55	1/2	1,951.19	1/2	2,292.83	1/2	2,634.45	1/2	2,976.15	1/2	3,317.20
3/4	263.99	3/4	605.87	3/4	941.39	3/4	1,275.03	3/4	1,616.67	3/4	1,958.31	3/4	2,299.95	3/4	2,641.57	3/4	2,983.28	3/4	3,324.30
11	271.13	11	612.99	11	948.20	11	1,282.14	11	1,623.78	11	1,965.42	11	2,307.06	11	2,648.69	11	2,990.40	11	3,331.40
1/4	278.26	1/4	620.11	1/4	955.01	1/4	1,289.26	1/4	1,630.90	1/4	1,972.54	1/4	2,314.18	1/4	2,655.80	1/4	2,997.53	1/4	3,337.11
1/2	285.39	1/2	627.23	1/2	961.82	1/2	1,296.38	1/2	1,638.02	1/2	1,979.66	1/2	2,321.30	1/2	2,662.92	1/2	3,004.66	1/2	3,342.83
3/4	292.52	3/4	634.35	3/4	968.63	3/4	1,303.50	3/4	1,645.14	3/4	1,986.78	3/4	2,328.42	3/4	2,670.04	3/4	3,011.79	3/4	3,348.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

3 PORT

INNAGE 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	3,354.26	0	3,563.25	0	3,773.01	0	3,982.50	0	4,191.34	0	4,381.90	0		0		0		0	
1/4	3,358.60	1/4	3,567.62	1/4	3,777.38	1/4	3,986.85	1/4	4,195.69	1/4	4,383.60	1/4		1/4		1/4		1/4	
1/2	3,362.93	1/2	3,571.99	1/2	3,781.75	1/2	3,991.20	1/2	4,200.04	1/2	4,385.31	1/2		1/2		1/2		1/2	
3/4	3,367.27	3/4	3,576.36	3/4	3,786.12	3/4	3,995.55	3/4	4,204.40	3/4	4,387.02	3/4		3/4		3/4		3/4	
1	3,371.61	1	3,580.73	1	3,790.49	1	3,999.90	1	4,208.75	1	4,388.73	1		1		1		1	
1/4	3,375.95	1/4	3,585.10	1/4	3,794.86	1/4	4,004.25	1/4	4,213.10	1/4	4,390.43	1/4		1/4		1/4		1/4	
1/2	3,380.30	1/2	3,589.47	1/2	3,799.23	1/2	4,008.60	1/2	4,217.45	1/2	4,392.14	1/2		1/2		1/2		1/2	
3/4	3,384.64	3/4	3,593.84	3/4	3,803.60	3/4	4,012.96	3/4	4,221.80	3/4	4,393.85	3/4		3/4		3/4		3/4	
2	3,388.99	2	3,598.21	2	3,807.97	2	4,017.31	2	4,226.15	2	4,395.55	2		2		2		2	
1/4	3,393.34	1/4	3,602.58	1/4	3,812.34	1/4	4,021.66	1/4	4,230.50	1/4	4,396.63	1/4		1/4		1/4		1/4	
1/2	3,397.69	1/2	3,606.95	1/2	3,816.71	1/2	4,026.01	1/2	4,234.85	1/2	4,397.71	1/2		1/2		1/2		1/2	
3/4	3,402.05	3/4	3,611.32	3/4	3,821.08	3/4	4,030.36	3/4	4,239.20	3/4	4,398.78	3/4		3/4		3/4		3/4	
3	3,406.40	3	3,615.69	3	3,825.45	3	4,034.71	3	4,243.55	3	4,399.86	3		3		3		3	
1/4	3,410.76	1/4	3,620.06	1/4	3,829.82	1/4	4,039.06	1/4	4,247.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,415.11	1/2	3,624.43	1/2	3,834.19	1/2	4,043.41	1/2	4,252.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,419.47	3/4	3,628.80	3/4	3,838.56	3/4	4,047.76	3/4	4,256.61	3/4		3/4		3/4		3/4		3/4	
4	3,423.82	4	3,633.17	4	3,842.93	4	4,052.11	4	4,260.96	4		4		4		4		4	
1/4	3,428.17	1/4	3,637.54	1/4	3,847.30	1/4	4,056.46	1/4	4,265.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,432.53	1/2	3,641.91	1/2	3,851.67	1/2	4,060.82	1/2	4,269.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,436.88	3/4	3,646.28	3/4	3,856.04	3/4	4,065.17	3/4	4,273.97	3/4		3/4		3/4		3/4		3/4	
5	3,441.24	5	3,650.65	5	3,860.41	5	4,069.52	5	4,278.30	5		5		5		5		5	
1/4	3,445.59	1/4	3,655.02	1/4	3,864.78	1/4	4,073.87	1/4	4,282.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,449.95	1/2	3,659.39	1/2	3,869.15	1/2	4,078.22	1/2	4,286.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,454.30	3/4	3,663.76	3/4	3,873.52	3/4	4,082.57	3/4	4,291.27	3/4		3/4		3/4		3/4		3/4	
6	3,458.65	6	3,668.13	6	3,877.89	6	4,086.92	6	4,295.60	6		6		6		6		6	
1/4	3,463.01	1/4	3,672.50	1/4	3,882.26	1/4	4,091.27	1/4	4,299.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,467.36	1/2	3,676.87	1/2	3,886.63	1/2	4,095.62	1/2	4,304.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,471.72	3/4	3,681.24	3/4	3,891.00	3/4	4,099.97	3/4	4,308.56	3/4		3/4		3/4		3/4		3/4	
7	3,476.07	7	3,685.61	7	3,895.37	7	4,104.32	7	4,312.88	7		7		7		7		7	
1/4	3,480.42	1/4	3,689.98	1/4	3,899.74	1/4	4,108.68	1/4	4,317.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,484.78	1/2	3,694.35	1/2	3,904.11	1/2	4,113.03	1/2	4,321.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,489.13	3/4	3,698.72	3/4	3,908.48	3/4	4,117.38	3/4	4,325.83	3/4		3/4		3/4		3/4		3/4	
8	3,493.49	8	3,703.09	8	3,912.85	8	4,121.73	8	4,330.14	8		8		8		8		8	
1/4	3,497.84	1/4	3,707.46	1/4	3,917.21	1/4	4,126.08	1/4	4,334.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,502.20	1/2	3,711.83	1/2	3,921.57	1/2	4,130.43	1/2	4,338.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,506.55	3/4	3,716.20	3/4	3,925.93	3/4	4,134.78	3/4	4,342.99	3/4		3/4		3/4		3/4		3/4	
9	3,510.90	9	3,720.57	9	3,930.29	9	4,139.13	9	4,347.27	9		9		9		9		9	
1/4	3,515.26	1/4	3,724.94	1/4	3,934.64	1/4	4,143.48	1/4	4,351.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,519.61	1/2	3,729.31	1/2	3,938.99	1/2	4,147.83	1/2	4,354.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,523.97	3/4	3,733.68	3/4	3,943.34	3/4	4,152.18	3/4	4,358.80	3/4		3/4		3/4		3/4		3/4	
10	3,528.32	10	3,738.05	10	3,947.69	10	4,156.54	10	4,362.64	10		10		10		10		10	
1/4	3,532.68	1/4	3,742.42	1/4	3,952.04	1/4	4,160.89	1/4	4,365.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,537.05	1/2	3,746.79	1/2	3,956.39	1/2	4,165.24	1/2	4,368.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,541.41	3/4	3,751.16	3/4	3,960.74	3/4	4,169.59	3/4	4,371.16	3/4		3/4		3/4		3/4		3/4	
11	3,545.77	11	3,755.53	11	3,965.10	11	4,173.94	11	4,374.00	11		11		11		11		11	
1/4	3,550.14	1/4	3,759.90	1/4	3,969.45	1/4	4,178.29	1/4	4,375.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,554.51	1/2	3,764.27	1/2	3,973.80	1/2	4,182.64	1/2	4,377.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,558.88	3/4	3,768.64	3/4	3,978.15	3/4	4,186.99	3/4	4,379.92	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 STBD

INNAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.29	0	641.16	0	982.74	0	1,324.39	0	1,666.26	0	2,008.13	0	2,350.00	0	2,691.70	0	3,032.70
1/4	3.93	1/4	306.42	1/4	648.28	1/4	989.85	1/4	1,331.51	1/4	1,673.38	1/4	2,015.25	1/4	2,357.12	1/4	2,698.81	1/4	3,039.80
1/2	5.71	1/2	313.54	1/2	655.40	1/2	996.96	1/2	1,338.64	1/2	1,680.51	1/2	2,022.38	1/2	2,364.25	1/2	2,705.91	1/2	3,046.91
3/4	7.49	3/4	320.66	3/4	662.52	3/4	1,004.06	3/4	1,345.76	3/4	1,687.63	3/4	2,029.50	3/4	2,371.37	3/4	2,713.02	3/4	3,054.01
1	9.27	1	327.78	1	669.64	1	1,011.17	1	1,352.88	1	1,694.75	1	2,036.62	1	2,378.49	1	2,720.12	1	3,061.12
1/4	12.83	1/4	334.90	1/4	676.77	1/4	1,018.28	1/4	1,360.00	1/4	1,701.87	1/4	2,043.74	1/4	2,385.61	1/4	2,727.22	1/4	3,068.22
1/2	16.39	1/2	342.03	1/2	683.89	1/2	1,025.39	1/2	1,367.12	1/2	1,708.99	1/2	2,050.87	1/2	2,392.74	1/2	2,734.33	1/2	3,075.33
3/4	19.95	3/4	349.15	3/4	691.01	3/4	1,032.50	3/4	1,374.25	3/4	1,716.12	3/4	2,057.99	3/4	2,399.86	3/4	2,741.43	3/4	3,082.43
2	23.51	2	356.27	2	698.13	2	1,039.61	2	1,381.37	2	1,723.24	2	2,065.11	2	2,406.98	2	2,748.54	2	3,089.53
1/4	28.85	1/4	363.39	1/4	705.25	1/4	1,046.71	1/4	1,388.49	1/4	1,730.36	1/4	2,072.23	1/4	2,414.10	1/4	2,755.64	1/4	3,096.64
1/2	34.19	1/2	370.52	1/2	712.38	1/2	1,053.82	1/2	1,395.61	1/2	1,737.48	1/2	2,079.35	1/2	2,421.22	1/2	2,762.74	1/2	3,103.74
3/4	39.53	3/4	377.64	3/4	719.50	3/4	1,060.93	3/4	1,402.74	3/4	1,744.61	3/4	2,086.48	3/4	2,428.35	3/4	2,769.85	3/4	3,110.85
3	44.87	3	384.76	3	726.62	3	1,068.04	3	1,409.86	3	1,751.73	3	2,093.60	3	2,435.47	3	2,776.95	3	3,117.95
1/4	51.53	1/4	391.88	1/4	733.74	1/4	1,075.15	1/4	1,416.98	1/4	1,758.85	1/4	2,100.72	1/4	2,442.59	1/4	2,784.06	1/4	3,125.05
1/2	58.19	1/2	399.00	1/2	740.86	1/2	1,082.26	1/2	1,424.10	1/2	1,765.97	1/2	2,107.84	1/2	2,449.71	1/2	2,791.16	1/2	3,132.14
3/4	64.85	3/4	406.13	3/4	747.99	3/4	1,089.38	3/4	1,431.22	3/4	1,773.10	3/4	2,114.97	3/4	2,456.84	3/4	2,798.27	3/4	3,139.24
4	71.51	4	413.25	4	755.11	4	1,096.49	4	1,438.35	4	1,780.22	4	2,122.09	4	2,463.96	4	2,805.37	4	3,146.33
1/4	78.61	1/4	420.37	1/4	762.23	1/4	1,103.61	1/4	1,445.47	1/4	1,787.34	1/4	2,129.21	1/4	2,471.08	1/4	2,812.47	1/4	3,153.42
1/2	85.70	1/2	427.49	1/2	769.35	1/2	1,110.73	1/2	1,452.59	1/2	1,794.46	1/2	2,136.33	1/2	2,478.20	1/2	2,819.58	1/2	3,160.51
3/4	92.80	3/4	434.61	3/4	776.48	3/4	1,117.85	3/4	1,459.71	3/4	1,801.58	3/4	2,143.45	3/4	2,485.33	3/4	2,826.68	3/4	3,167.59
5	99.90	5	441.74	5	783.60	5	1,124.97	5	1,466.84	5	1,808.71	5	2,150.58	5	2,492.45	5	2,833.79	5	3,174.68
1/4	107.02	1/4	448.86	1/4	790.72	1/4	1,132.09	1/4	1,473.96	1/4	1,815.83	1/4	2,157.70	1/4	2,499.57	1/4	2,840.89	1/4	3,181.77
1/2	114.13	1/2	455.98	1/2	797.84	1/2	1,139.21	1/2	1,481.08	1/2	1,822.95	1/2	2,164.82	1/2	2,506.69	1/2	2,847.99	1/2	3,188.85
3/4	121.25	3/4	463.10	3/4	804.96	3/4	1,146.33	3/4	1,488.20	3/4	1,830.07	3/4	2,171.94	3/4	2,513.82	3/4	2,855.10	3/4	3,195.94
6	128.37	6	470.22	6	812.09	6	1,153.46	6	1,495.33	6	1,837.20	6	2,179.07	6	2,520.94	6	2,862.20	6	3,203.03
1/4	135.49	1/4	477.35	1/4	819.20	1/4	1,160.58	1/4	1,502.45	1/4	1,844.32	1/4	2,186.19	1/4	2,528.06	1/4	2,869.31	1/4	3,210.11
1/2	142.61	1/2	484.47	1/2	826.32	1/2	1,167.70	1/2	1,509.57	1/2	1,851.44	1/2	2,193.31	1/2	2,535.19	1/2	2,876.41	1/2	3,217.20
3/4	149.73	3/4	491.59	3/4	833.44	3/4	1,174.82	3/4	1,516.69	3/4	1,858.56	3/4	2,200.43	3/4	2,542.31	3/4	2,883.51	3/4	3,224.29
7	156.85	7	498.71	7	840.56	7	1,181.94	7	1,523.81	7	1,865.69	7	2,207.56	7	2,549.43	7	2,890.62	7	3,231.37
1/4	163.97	1/4	505.84	1/4	847.67	1/4	1,189.07	1/4	1,530.94	1/4	1,872.81	1/4	2,214.68	1/4	2,556.55	1/4	2,897.72	1/4	3,238.46
1/2	171.10	1/2	512.96	1/2	854.78	1/2	1,196.19	1/2	1,538.06	1/2	1,879.93	1/2	2,221.80	1/2	2,563.68	1/2	2,904.83	1/2	3,245.55
3/4	178.22	3/4	520.08	3/4	861.90	3/4	1,203.31	3/4	1,545.18	3/4	1,887.05	3/4	2,228.92	3/4	2,570.80	3/4	2,911.93	3/4	3,252.63
8	185.34	8	527.20	8	869.01	8	1,210.43	8	1,552.30	8	1,894.17	8	2,236.04	8	2,577.92	8	2,919.03	8	3,259.72
1/4	192.46	1/4	534.32	1/4	876.12	1/4	1,217.56	1/4	1,559.43	1/4	1,901.30	1/4	2,243.17	1/4	2,585.05	1/4	2,926.14	1/4	3,266.81
1/2	199.59	1/2	541.45	1/2	883.23	1/2	1,224.68	1/2	1,566.55	1/2	1,908.42	1/2	2,250.29	1/2	2,592.17	1/2	2,933.24	1/2	3,273.89
3/4	206.71	3/4	548.57	3/4	890.33	3/4	1,231.80	3/4	1,573.67	3/4	1,915.54	3/4	2,257.41	3/4	2,599.29	3/4	2,940.35	3/4	3,280.98
9	213.83	9	555.69	9	897.44	9	1,238.92	9	1,580.79	9	1,922.66	9	2,264.53	9	2,606.42	9	2,947.45	9	3,288.07
1/4	220.95	1/4	562.81	1/4	904.55	1/4	1,246.05	1/4	1,587.92	1/4	1,929.79	1/4	2,271.66	1/4	2,613.53	1/4	2,954.56	1/4	3,295.15
1/2	228.07	1/2	569.93	1/2	911.66	1/2	1,253.17	1/2	1,595.04	1/2	1,936.91	1/2	2,278.78	1/2	2,620.64	1/2	2,961.66	1/2	3,302.24
3/4	235.20	3/4	577.06	3/4	918.77	3/4	1,260.29	3/4	1,602.16	3/4	1,944.03	3/4	2,285.90	3/4	2,627.76	3/4	2,968.76	3/4	3,309.33
10	242.32	10	584.18	10	925.87	10	1,267.41	10	1,609.28	10	1,951.15	10	2,293.02	10	2,634.87	10	2,975.87	10	3,316.42
1/4	249.44	1/4	591.30	1/4	932.98	1/4	1,274.53	1/4	1,616.40	1/4	1,958.28	1/4	2,300.15	1/4	2,641.97	1/4	2,982.97	1/4	3,323.50
1/2	256.56	1/2	598.42	1/2	940.09	1/2	1,281.66	1/2	1,623.53	1/2	1,965.40	1/2	2,307.27	1/2	2,649.08	1/2	2,990.08	1/2	3,330.59
3/4	263.68	3/4	605.54	3/4	947.20	3/4	1,288.78	3/4	1,630.65	3/4	1,972.52	3/4	2,314.39	3/4	2,656.18	3/4	2,997.18	3/4	3,337.68
11	270.81	11	612.67	11	954.31	11	1,295.90	11	1,637.77	11	1,979.64	11	2,321.51	11	2,663.29	11	3,004.28	11	3,344.76
1/4	277.93	1/4	619.79	1/4	961.41	1/4	1,303.02	1/4	1,644.89	1/4	1,986.76	1/4	2,328.63	1/4	2,670.39	1/4	3,011.39	1/4	3,350.47
1/2	285.05	1/2	626.91	1/2	968.52	1/2	1,310.15	1/2	1,652.02	1/2	1,993.89	1/2	2,335.76	1/2	2,677.50	1/2	3,018.49	1/2	3,356.18
3/4	292.17	3/4	634.03	3/4	975.63	3/4	1,317.27	3/4	1,659.14	3/4	2,001.01	3/4	2,342.88	3/4	2,684.60	3/4	3,025.60	3/4	3,361.89

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

3 STBD

INNAGE 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	3,367.60	0	3,577.05	0	3,786.72	0	3,996.11	0	4,204.87	0	4,395.35	0		0		0		0	
1/4	3,371.93	1/4	3,581.42	1/4	3,791.08	1/4	4,000.46	1/4	4,209.22	1/4	4,397.05	1/4		1/4		1/4		1/4	
1/2	3,376.27	1/2	3,585.79	1/2	3,795.45	1/2	4,004.81	1/2	4,213.56	1/2	4,398.76	1/2		1/2		1/2		1/2	
3/4	3,380.60	3/4	3,590.16	3/4	3,799.82	3/4	4,009.16	3/4	4,217.91	3/4	4,400.46	3/4		3/4		3/4		3/4	
1	3,384.93	1	3,594.52	1	3,804.19	1	4,013.51	1	4,222.26	1	4,402.17	1		1		1		1	
1/4	3,389.28	1/4	3,598.89	1/4	3,808.56	1/4	4,017.86	1/4	4,226.61	1/4	4,403.88	1/4		1/4		1/4		1/4	
1/2	3,393.63	1/2	3,603.26	1/2	3,812.92	1/2	4,022.21	1/2	4,230.96	1/2	4,405.58	1/2		1/2		1/2		1/2	
3/4	3,397.98	3/4	3,607.63	3/4	3,817.29	3/4	4,026.56	3/4	4,235.31	3/4	4,407.29	3/4		3/4		3/4		3/4	
2	3,402.33	2	3,612.00	2	3,821.66	2	4,030.91	2	4,239.66	2	4,409.00	2		2		2		2	
1/4	3,406.70	1/4	3,616.36	1/4	3,826.03	1/4	4,035.26	1/4	4,244.01	1/4	4,410.07	1/4		1/4		1/4		1/4	
1/2	3,411.07	1/2	3,620.73	1/2	3,830.40	1/2	4,039.60	1/2	4,248.36	1/2	4,411.15	1/2		1/2		1/2		1/2	
3/4	3,415.44	3/4	3,625.10	3/4	3,834.76	3/4	4,043.95	3/4	4,252.71	3/4	4,412.22	3/4		3/4		3/4		3/4	
3	3,419.80	3	3,629.47	3	3,839.13	3	4,048.30	3	4,257.05	3	4,413.30	3		3		3		3	
1/4	3,424.17	1/4	3,633.84	1/4	3,843.50	1/4	4,052.65	1/4	4,261.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,428.54	1/2	3,638.20	1/2	3,847.87	1/2	4,057.00	1/2	4,265.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,432.91	3/4	3,642.57	3/4	3,852.24	3/4	4,061.35	3/4	4,270.10	3/4		3/4		3/4		3/4		3/4	
4	3,437.28	4	3,646.94	4	3,856.60	4	4,065.70	4	4,274.45	4		4		4		4		4	
1/4	3,441.64	1/4	3,651.31	1/4	3,860.97	1/4	4,070.05	1/4	4,278.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,446.01	1/2	3,655.68	1/2	3,865.34	1/2	4,074.40	1/2	4,283.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,450.38	3/4	3,660.04	3/4	3,869.71	3/4	4,078.75	3/4	4,287.45	3/4		3/4		3/4		3/4		3/4	
5	3,454.75	5	3,664.41	5	3,874.08	5	4,083.09	5	4,291.79	5		5		5		5		5	
1/4	3,459.12	1/4	3,668.78	1/4	3,878.44	1/4	4,087.44	1/4	4,296.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,463.48	1/2	3,673.15	1/2	3,882.81	1/2	4,091.79	1/2	4,300.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,467.85	3/4	3,677.52	3/4	3,887.18	3/4	4,096.14	3/4	4,304.75	3/4		3/4		3/4		3/4		3/4	
6	3,472.22	6	3,681.88	6	3,891.55	6	4,100.49	6	4,309.08	6		6		6		6		6	
1/4	3,476.59	1/4	3,686.25	1/4	3,895.92	1/4	4,104.84	1/4	4,313.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,480.96	1/2	3,690.62	1/2	3,900.28	1/2	4,109.19	1/2	4,317.71	1/2		1/2		1/2		1/2		1/2	
3/4	3,485.32	3/4	3,694.99	3/4	3,904.65	3/4	4,113.54	3/4	4,322.03	3/4		3/4		3/4		3/4		3/4	
7	3,489.69	7	3,699.36	7	3,909.02	7	4,117.89	7	4,326.35	7		7		7		7		7	
1/4	3,494.06	1/4	3,703.72	1/4	3,913.39	1/4	4,122.24	1/4	4,330.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,498.43	1/2	3,708.09	1/2	3,917.76	1/2	4,126.58	1/2	4,334.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.80	3/4	3,712.46	3/4	3,922.12	3/4	4,130.93	3/4	4,339.29	3/4		3/4		3/4		3/4		3/4	
8	3,507.16	8	3,716.83	8	3,926.49	8	4,135.28	8	4,343.60	8		8		8		8		8	
1/4	3,511.53	1/4	3,721.20	1/4	3,930.85	1/4	4,139.63	1/4	4,347.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,515.90	1/2	3,725.56	1/2	3,935.21	1/2	4,143.98	1/2	4,352.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,520.27	3/4	3,729.93	3/4	3,939.57	3/4	4,148.33	3/4	4,356.44	3/4		3/4		3/4		3/4		3/4	
9	3,524.64	9	3,734.30	9	3,943.93	9	4,152.68	9	4,360.72	9		9		9		9		9	
1/4	3,529.00	1/4	3,738.67	1/4	3,948.28	1/4	4,157.03	1/4	4,364.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,533.37	1/2	3,743.04	1/2	3,952.62	1/2	4,161.38	1/2	4,368.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,537.74	3/4	3,747.40	3/4	3,956.97	3/4	4,165.73	3/4	4,372.25	3/4		3/4		3/4		3/4		3/4	
10	3,542.11	10	3,751.77	10	3,961.32	10	4,170.07	10	4,376.09	10		10		10		10		10	
1/4	3,546.48	1/4	3,756.14	1/4	3,965.67	1/4	4,174.42	1/4	4,378.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.84	1/2	3,760.51	1/2	3,970.02	1/2	4,178.77	1/2	4,381.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.21	3/4	3,764.88	3/4	3,974.37	3/4	4,183.12	3/4	4,384.61	3/4		3/4		3/4		3/4		3/4	
11	3,559.58	11	3,769.24	11	3,978.72	11	4,187.47	11	4,387.44	11		11		11		11		11	
1/4	3,563.95	1/4	3,773.61	1/4	3,983.07	1/4	4,191.82	1/4	4,389.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,568.32	1/2	3,777.98	1/2	3,987.42	1/2	4,196.17	1/2	4,391.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.68	3/4	3,782.35	3/4	3,991.77	3/4	4,200.52	3/4	4,393.37	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

ULLAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	- 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	10-0/8	- 10-0/8	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"

May 26, 2021

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

http://www.pmacorp.net

BARGE "MPX 419"

1 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

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	5,033.77	0	4,748.72	0	4,407.46	0	4,065.36	0	3,722.54	0	3,379.79	0	3,037.06
1/4		1/4		1/4		1/4	5,031.76	1/4	4,741.61	1/4	4,400.35	1/4	4,058.22	1/4	3,715.39	1/4	3,372.65	1/4	3,029.92
1/2		1/2		1/2		1/2	5,029.76	1/2	4,734.50	1/2	4,393.24	1/2	4,051.08	1/2	3,708.25	1/2	3,365.51	1/2	3,022.78
3/4		3/4		3/4		3/4	5,027.75	3/4	4,727.39	3/4	4,386.13	3/4	4,043.94	3/4	3,701.11	3/4	3,358.37	3/4	3,015.64
1		1		1		1	5,025.75	1	4,720.28	1	4,379.02	1	4,036.79	1	3,693.97	1	3,351.22	1	3,008.50
1/4		1/4		1/4		1/4	5,022.55	1/4	4,713.17	1/4	4,371.91	1/4	4,029.65	1/4	3,686.83	1/4	3,344.08	1/4	3,001.35
1/2		1/2		1/2		1/2	5,019.35	1/2	4,706.06	1/2	4,364.81	1/2	4,022.51	1/2	3,679.68	1/2	3,336.94	1/2	2,994.21
3/4		3/4		3/4		3/4	5,016.16	3/4	4,698.95	3/4	4,357.70	3/4	4,015.37	3/4	3,672.54	3/4	3,329.80	3/4	2,987.07
2		2		2		2	5,012.96	2	4,691.84	2	4,350.59	2	4,008.22	2	3,665.40	2	3,322.66	2	2,979.93
1/4		1/4		1/4		1/4	5,008.58	1/4	4,684.73	1/4	4,343.48	1/4	4,001.08	1/4	3,658.26	1/4	3,315.52	1/4	2,972.79
1/2		1/2		1/2		1/2	5,004.19	1/2	4,677.62	1/2	4,336.37	1/2	3,993.94	1/2	3,651.11	1/2	3,308.38	1/2	2,965.65
3/4		3/4		3/4		3/4	4,999.81	3/4	4,670.51	3/4	4,329.26	3/4	3,986.80	3/4	3,643.97	3/4	3,301.24	3/4	2,958.50
3		3		3		3	4,995.42	3	4,663.40	3	4,322.15	3	3,979.66	3	3,636.83	3	3,294.10	3	2,951.36
1/4		1/4		1/4		1/4	4,989.84	1/4	4,656.29	1/4	4,315.04	1/4	3,972.51	1/4	3,629.69	1/4	3,286.96	1/4	2,944.22
1/2		1/2		1/2		1/2	4,984.27	1/2	4,649.19	1/2	4,307.93	1/2	3,965.37	1/2	3,622.55	1/2	3,279.82	1/2	2,937.08
3/4		3/4		3/4		3/4	4,978.69	3/4	4,642.08	3/4	4,300.82	3/4	3,958.23	3/4	3,615.41	3/4	3,272.68	3/4	2,929.93
4		4		4		4	4,973.11	4	4,634.97	4	4,293.71	4	3,951.09	4	3,608.27	4	3,265.54	4	2,922.79
1/4		1/4		1/4		1/4	4,966.53	1/4	4,627.86	1/4	4,286.60	1/4	3,943.95	1/4	3,601.13	1/4	3,258.40	1/4	2,915.65
1/2		1/2		1/2		1/2	4,959.95	1/2	4,620.75	1/2	4,279.49	1/2	3,936.80	1/2	3,593.99	1/2	3,251.26	1/2	2,908.51
3/4		3/4		3/4		3/4	4,953.36	3/4	4,613.64	3/4	4,272.38	3/4	3,929.66	3/4	3,586.85	3/4	3,244.12	3/4	2,901.37
5		5		5		5	4,946.78	5	4,606.53	5	4,265.27	5	3,922.52	5	3,579.71	5	3,236.98	5	2,894.22
1/4		1/4		1/4		1/4	4,939.75	1/4	4,599.42	1/4	4,258.15	1/4	3,915.38	1/4	3,572.57	1/4	3,229.84	1/4	2,887.08
1/2		1/2		1/2		1/2	4,932.73	1/2	4,592.31	1/2	4,251.02	1/2	3,908.23	1/2	3,565.43	1/2	3,222.70	1/2	2,879.94
3/4		3/4		3/4		3/4	4,925.71	3/4	4,585.20	3/4	4,243.90	3/4	3,901.09	3/4	3,558.29	3/4	3,215.56	3/4	2,872.80
6		6		6		6	4,918.69	6	4,578.09	6	4,236.78	6	3,893.95	6	3,551.15	6	3,208.42	6	2,865.66
1/4		1/4		1/4		1/4	4,911.63	1/4	4,570.98	1/4	4,229.63	1/4	3,886.81	1/4	3,544.01	1/4	3,201.28	1/4	2,858.51
1/2		1/2		1/2		1/2	4,904.57	1/2	4,563.87	1/2	4,222.49	1/2	3,879.67	1/2	3,536.87	1/2	3,194.14	1/2	2,851.37
3/4		3/4		3/4		3/4	4,897.51	3/4	4,556.76	3/4	4,215.35	3/4	3,872.52	3/4	3,529.73	3/4	3,187.00	3/4	2,844.23
7		7		7		7	4,890.46	7	4,549.65	7	4,208.21	7	3,865.38	7	3,522.59	7	3,179.86	7	2,837.09
1/4		1/4		1/4		1/4	4,883.39	1/4	4,542.54	1/4	4,201.06	1/4	3,858.24	1/4	3,515.45	1/4	3,172.72	1/4	2,829.95
1/2		1/2		1/2		1/2	4,876.33	1/2	4,535.43	1/2	4,193.92	1/2	3,851.10	1/2	3,508.31	1/2	3,165.58	1/2	2,822.80
3/4		3/4		3/4		3/4	4,869.26	3/4	4,528.32	3/4	4,186.78	3/4	3,843.95	3/4	3,501.17	3/4	3,158.44	3/4	2,815.66
8		8		8		8	4,862.20	8	4,521.21	8	4,179.64	8	3,836.81	8	3,494.03	8	3,151.30	8	2,808.52
1/4		1/4		1/4		1/4	4,855.13	1/4	4,514.10	1/4	4,172.50	1/4	3,829.67	1/4	3,486.89	1/4	3,144.16	1/4	2,801.38
1/2		1/2		1/2		1/2	4,848.07	1/2	4,507.00	1/2	4,165.35	1/2	3,822.53	1/2	3,479.75	1/2	3,137.02	1/2	2,794.24
3/4		3/4		3/4		3/4	4,841.01	3/4	4,499.89	3/4	4,158.21	3/4	3,815.39	3/4	3,472.61	3/4	3,129.88	3/4	2,787.09
9		9		9		9	4,833.94	9	4,492.78	9	4,151.07	9	3,808.24	9	3,465.47	9	3,122.74	9	2,779.95
1/4		1/4		1/4		1/4	4,826.85	1/4	4,485.67	1/4	4,143.93	1/4	3,801.10	1/4	3,458.33	1/4	3,115.60	1/4	2,772.81
1/2		1/2		1/2		1/2	4,819.77	1/2	4,478.56	1/2	4,136.78	1/2	3,793.96	1/2	3,451.19	1/2	3,108.46	1/2	2,765.67
3/4		3/4		3/4		3/4	4,812.68	3/4	4,471.45	3/4	4,129.64	3/4	3,786.82	3/4	3,444.05	3/4	3,101.32	3/4	2,758.52
10		10		10		10	4,805.59	10	4,464.34	10	4,122.50	10	3,779.67	10	3,436.91	10	3,094.18	10	2,751.38
1/4		1/4		1/4		1/4	4,798.48	1/4	4,457.23	1/4	4,115.36	1/4	3,772.53	1/4	3,429.77	1/4	3,087.04	1/4	2,744.24
1/2		1/2		1/2		1/2	4,791.38	1/2	4,450.12	1/2	4,108.22	1/2	3,765.39	1/2	3,422.63	1/2	3,079.90	1/2	2,737.10
3/4		3/4		3/4		3/4	4,784.27	3/4	4,443.01	3/4	4,101.07	3/4	3,758.25	3/4	3,415.49	3/4	3,072.76	3/4	2,729.96
11		11		11	5,037.48	11	4,777.16	11	4,435.90	11	4,093.93	11	3,751.11	11	3,408.35	11	3,065.62	11	2,722.81
1/4		1/4		1/4	5,036.55	1/4	4,770.05	1/4	4,428.79	1/4	4,086.79	1/4	3,743.96	1/4	3,401.21	1/4	3,058.48	1/4	2,715.67
1/2		1/2		1/2	5,035.62	1/2	4,762.94	1/2	4,421.68	1/2	4,079.65	1/2	3,736.82	1/2	3,394.07	1/2	3,051.34	1/2	2,708.53
3/4		3/4		3/4	5,034.70	3/4	4,755.83	3/4	4,414.57	3/4	4,072.50	3/4	3,729.68	3/4	3,386.93	3/4	3,044.20	3/4	2,701.39

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

BARGE "MPX 419"

1 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

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	2,694.25	0	2,351.42	0	2,008.57	0	1,665.73	0	1,322.88	0	980.75	0	639.83	0	304.13	0	20.50	0	
1/4	2,687.10	1/4	2,344.27	1/4	2,001.43	1/4	1,658.58	1/4	1,315.74	1/4	973.66	1/4	632.69	1/4	297.57	1/4	17.70	1/4	
1/2	2,679.96	1/2	2,337.13	1/2	1,994.29	1/2	1,651.44	1/2	1,308.60	1/2	966.58	1/2	625.54	1/2	291.01	1/2	14.90	1/2	
3/4	2,672.82	3/4	2,329.99	3/4	1,987.14	3/4	1,644.30	3/4	1,301.45	3/4	959.50	3/4	618.40	3/4	284.45	3/4	12.10	3/4	
1	2,665.68	1	2,322.85	1	1,980.00	1	1,637.16	1	1,294.31	1	952.42	1	611.26	1	277.90	1	9.30	1	
1/4	2,658.54	1/4	2,315.70	1/4	1,972.86	1/4	1,630.01	1/4	1,287.17	1/4	945.34	1/4	604.12	1/4	271.42	1/4	7.51	1/4	
1/2	2,651.39	1/2	2,308.56	1/2	1,965.72	1/2	1,622.87	1/2	1,280.03	1/2	938.25	1/2	596.97	1/2	264.95	1/2	5.73	1/2	
3/4	2,644.25	3/4	2,301.42	3/4	1,958.57	3/4	1,615.73	3/4	1,272.88	3/4	931.17	3/4	589.83	3/4	258.47	3/4	3.94	3/4	
2	2,637.11	2	2,294.28	2	1,951.43	2	1,608.59	2	1,265.74	2	924.09	2	582.69	2	252.00	2	2.16	2	
1/4	2,629.97	1/4	2,287.13	1/4	1,944.29	1/4	1,601.44	1/4	1,258.60	1/4	917.01	1/4	575.55	1/4	245.61	1/4		1/4	
1/2	2,622.83	1/2	2,279.99	1/2	1,937.15	1/2	1,594.30	1/2	1,251.46	1/2	909.92	1/2	568.41	1/2	239.21	1/2		1/2	
3/4	2,615.69	3/4	2,272.85	3/4	1,930.00	3/4	1,587.16	3/4	1,244.31	3/4	902.84	3/4	561.26	3/4	232.82	3/4		3/4	
3	2,608.55	3	2,265.71	3	1,922.86	3	1,580.02	3	1,237.17	3	895.76	3	554.12	3	226.43	3		3	
1/4	2,601.41	1/4	2,258.56	1/4	1,915.72	1/4	1,572.87	1/4	1,230.03	1/4	888.68	1/4	546.98	1/4	220.12	1/4		1/4	
1/2	2,594.27	1/2	2,251.42	1/2	1,908.58	1/2	1,565.73	1/2	1,222.89	1/2	881.60	1/2	539.84	1/2	213.82	1/2		1/2	
3/4	2,587.12	3/4	2,244.28	3/4	1,901.43	3/4	1,558.59	3/4	1,215.74	3/4	874.51	3/4	532.69	3/4	207.51	3/4		3/4	
4	2,579.98	4	2,237.14	4	1,894.29	4	1,551.45	4	1,208.60	4	867.43	4	525.55	4	201.20	4		4	
1/4	2,572.84	1/4	2,229.99	1/4	1,887.15	1/4	1,544.30	1/4	1,201.46	1/4	860.35	1/4	518.41	1/4	194.98	1/4		1/4	
1/2	2,565.69	1/2	2,222.85	1/2	1,880.01	1/2	1,537.16	1/2	1,194.32	1/2	853.27	1/2	511.27	1/2	188.75	1/2		1/2	
3/4	2,558.55	3/4	2,215.71	3/4	1,872.86	3/4	1,530.02	3/4	1,187.17	3/4	846.19	3/4	504.12	3/4	182.53	3/4		3/4	
5	2,551.41	5	2,208.56	5	1,865.72	5	1,522.88	5	1,180.03	5	839.10	5	496.98	5	176.30	5		5	
1/4	2,544.27	1/4	2,201.42	1/4	1,858.58	1/4	1,515.73	1/4	1,172.89	1/4	832.02	1/4	489.86	1/4	170.16	1/4		1/4	
1/2	2,537.12	1/2	2,194.28	1/2	1,851.43	1/2	1,508.59	1/2	1,165.75	1/2	824.94	1/2	482.74	1/2	164.02	1/2		1/2	
3/4	2,529.98	3/4	2,187.14	3/4	1,844.29	3/4	1,501.45	3/4	1,158.60	3/4	817.86	3/4	475.62	3/4	157.88	3/4		3/4	
6	2,522.84	6	2,179.99	6	1,837.15	6	1,494.30	6	1,151.46	6	810.78	6	468.51	6	151.74	6		6	
1/4	2,515.70	1/4	2,172.85	1/4	1,830.01	1/4	1,487.16	1/4	1,144.32	1/4	803.69	1/4	461.45	1/4	145.68	1/4		1/4	
1/2	2,508.55	1/2	2,165.71	1/2	1,822.86	1/2	1,480.02	1/2	1,137.17	1/2	796.60	1/2	454.40	1/2	139.62	1/2		1/2	
3/4	2,501.41	3/4	2,158.57	3/4	1,815.72	3/4	1,472.88	3/4	1,130.03	3/4	789.52	3/4	447.34	3/4	133.57	3/4		3/4	
7	2,494.27	7	2,151.42	7	1,808.58	7	1,465.73	7	1,122.89	7	782.43	7	440.29	7	127.51	7		7	
1/4	2,487.13	1/4	2,144.28	1/4	1,801.44	1/4	1,458.59	1/4	1,115.75	1/4	775.33	1/4	433.32	1/4	121.54	1/4		1/4	
1/2	2,479.98	1/2	2,137.14	1/2	1,794.29	1/2	1,451.45	1/2	1,108.60	1/2	768.23	1/2	426.34	1/2	115.56	1/2		1/2	
3/4	2,472.84	3/4	2,130.00	3/4	1,787.15	3/4	1,444.31	3/4	1,101.46	3/4	761.14	3/4	419.37	3/4	109.59	3/4		3/4	
8	2,465.70	8	2,122.85	8	1,780.01	8	1,437.16	8	1,094.32	8	754.04	8	412.40	8	103.62	8		8	
1/4	2,458.56	1/4	2,115.71	1/4	1,772.87	1/4	1,430.02	1/4	1,087.19	1/4	746.91	1/4	405.51	1/4	97.73	1/4		1/4	
1/2	2,451.41	1/2	2,108.57	1/2	1,765.72	1/2	1,422.88	1/2	1,080.07	1/2	739.79	1/2	398.61	1/2	91.85	1/2		1/2	
3/4	2,444.27	3/4	2,101.43	3/4	1,758.58	3/4	1,415.74	3/4	1,072.94	3/4	732.66	3/4	391.72	3/4	85.96	3/4		3/4	
9	2,437.13	9	2,094.28	9	1,751.44	9	1,408.59	9	1,065.82	9	725.54	9	384.83	9	80.08	9		9	
1/4	2,429.99	1/4	2,087.14	1/4	1,744.30	1/4	1,401.45	1/4	1,058.72	1/4	718.40	1/4	378.02	1/4	74.29	1/4		1/4	
1/2	2,422.84	1/2	2,080.00	1/2	1,737.15	1/2	1,394.31	1/2	1,051.62	1/2	711.25	1/2	371.21	1/2	68.51	1/2		1/2	
3/4	2,415.70	3/4	2,072.86	3/4	1,730.01	3/4	1,387.17	3/4	1,044.52	3/4	704.11	3/4	364.40	3/4	62.73	3/4		3/4	
10	2,408.56	10	2,065.71	10	1,722.87	10	1,380.02	10	1,037.42	10	696.97	10	357.60	10	56.94	10		10	
1/4	2,401.42	1/4	2,058.57	1/4	1,715.73	1/4	1,372.88	1/4	1,030.33	1/4	689.83	1/4	350.87	1/4	51.69	1/4		1/4	
1/2	2,394.27	1/2	2,051.43	1/2	1,708.58	1/2	1,365.74	1/2	1,023.25	1/2	682.68	1/2	344.15	1/2	46.43	1/2		1/2	
3/4	2,387.13	3/4	2,044.29	3/4	1,701.44	3/4	1,358.60	3/4	1,016.16	3/4	675.54	3/4	337.42	3/4	41.17	3/4		3/4	
11	2,379.99	11	2,037.14	11	1,694.30	11	1,351.45	11	1,009.07	11	668.40	11	330.70	11	35.91	11		11	
1/4	2,372.84	1/4	2,030.00	1/4	1,687.16	1/4	1,344.31	1/4	1,001.99	1/4	661.26	1/4	324.05	1/4	32.06	1/4		1/4	
1/2	2,365.70	1/2	2,022.86	1/2	1,680.01	1/2	1,337.17	1/2	994.91	1/2	654.11	1/2	317.41	1/2	28.20	1/2		1/2	
3/4	2,358.56	3/4	2,015.71	3/4	1,672.87	3/4	1,330.03	3/4	987.83	3/4	646.97	3/4	310.77	3/4	24.35	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

1 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

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	5,030.86	0	4,746.11	0	4,405.21	0	4,063.47	0	3,721.00	0	3,378.60	0	3,036.23
1/4		1/4		1/4		1/4	5,028.86	1/4	4,739.01	1/4	4,398.11	1/4	4,056.33	1/4	3,713.86	1/4	3,371.47	1/4	3,029.09
1/2		1/2		1/2		1/2	5,026.85	1/2	4,731.91	1/2	4,391.01	1/2	4,049.20	1/2	3,706.73	1/2	3,364.33	1/2	3,021.96
3/4		3/4		3/4		3/4	5,024.85	3/4	4,724.81	3/4	4,383.90	3/4	4,042.06	3/4	3,699.59	3/4	3,357.20	3/4	3,014.83
1		1		1		1	5,022.85	1	4,717.70	1	4,376.80	1	4,034.93	1	3,692.46	1	3,350.07	1	3,007.69
1/4		1/4		1/4		1/4	5,019.66	1/4	4,710.60	1/4	4,369.70	1/4	4,027.79	1/4	3,685.32	1/4	3,342.94	1/4	3,000.56
1/2		1/2		1/2		1/2	5,016.46	1/2	4,703.50	1/2	4,362.60	1/2	4,020.66	1/2	3,678.19	1/2	3,335.80	1/2	2,993.43
3/4		3/4		3/4		3/4	5,013.27	3/4	4,696.40	3/4	4,355.50	3/4	4,013.52	3/4	3,671.05	3/4	3,328.67	3/4	2,986.29
2		2		2		2	5,010.08	2	4,689.29	2	4,348.39	2	4,006.39	2	3,663.92	2	3,321.54	2	2,979.16
1/4		1/4		1/4		1/4	5,005.70	1/4	4,682.19	1/4	4,341.29	1/4	3,999.25	1/4	3,656.78	1/4	3,314.40	1/4	2,972.02
1/2		1/2		1/2		1/2	5,001.32	1/2	4,675.09	1/2	4,334.19	1/2	3,992.12	1/2	3,649.65	1/2	3,307.27	1/2	2,964.89
3/4		3/4		3/4		3/4	4,996.93	3/4	4,667.99	3/4	4,327.09	3/4	3,984.98	3/4	3,642.51	3/4	3,300.14	3/4	2,957.75
3		3		3		3	4,992.55	3	4,660.89	3	4,319.99	3	3,977.85	3	3,635.38	3	3,293.01	3	2,950.62
1/4		1/4		1/4		1/4	4,986.98	1/4	4,653.78	1/4	4,312.88	1/4	3,970.71	1/4	3,628.25	1/4	3,285.87	1/4	2,943.48
1/2		1/2		1/2		1/2	4,981.41	1/2	4,646.68	1/2	4,305.78	1/2	3,963.58	1/2	3,621.11	1/2	3,278.74	1/2	2,936.35
3/4		3/4		3/4		3/4	4,975.84	3/4	4,639.58	3/4	4,298.68	3/4	3,956.44	3/4	3,613.98	3/4	3,271.61	3/4	2,929.22
4		4		4		4	4,970.27	4	4,632.48	4	4,291.58	4	3,949.31	4	3,606.85	4	3,264.47	4	2,922.08
1/4		1/4		1/4		1/4	4,963.69	1/4	4,625.38	1/4	4,284.48	1/4	3,942.17	1/4	3,599.72	1/4	3,257.34	1/4	2,914.95
1/2		1/2		1/2		1/2	4,957.12	1/2	4,618.27	1/2	4,277.37	1/2	3,935.04	1/2	3,592.58	1/2	3,250.21	1/2	2,907.81
3/4		3/4		3/4		3/4	4,950.54	3/4	4,611.17	3/4	4,270.27	3/4	3,927.91	3/4	3,585.45	3/4	3,243.08	3/4	2,900.68
5		5		5		5	4,943.96	5	4,604.07	5	4,263.17	5	3,920.77	5	3,578.32	5	3,235.94	5	2,893.54
1/4		1/4		1/4		1/4	4,936.95	1/4	4,596.97	1/4	4,256.05	1/4	3,913.64	1/4	3,571.19	1/4	3,228.81	1/4	2,886.41
1/2		1/2		1/2		1/2	4,929.93	1/2	4,589.87	1/2	4,248.94	1/2	3,906.50	1/2	3,564.05	1/2	3,221.68	1/2	2,879.27
3/4		3/4		3/4		3/4	4,922.91	3/4	4,582.76	3/4	4,241.82	3/4	3,899.37	3/4	3,556.92	3/4	3,214.55	3/4	2,872.14
6		6		6		6	4,915.90	6	4,575.66	6	4,234.70	6	3,892.23	6	3,549.79	6	3,207.41	6	2,865.00
1/4		1/4		1/4		1/4	4,908.85	1/4	4,568.56	1/4	4,227.57	1/4	3,885.10	1/4	3,542.65	1/4	3,200.28	1/4	2,857.87
1/2		1/2		1/2		1/2	4,901.80	1/2	4,561.46	1/2	4,220.43	1/2	3,877.96	1/2	3,535.52	1/2	3,193.15	1/2	2,850.73
3/4		3/4		3/4		3/4	4,894.75	3/4	4,554.35	3/4	4,213.30	3/4	3,870.83	3/4	3,528.39	3/4	3,186.01	3/4	2,843.60
7		7		7		7	4,887.70	7	4,547.25	7	4,206.16	7	3,863.69	7	3,521.26	7	3,178.88	7	2,836.46
1/4		1/4		1/4		1/4	4,880.65	1/4	4,540.15	1/4	4,199.03	1/4	3,856.56	1/4	3,514.12	1/4	3,171.75	1/4	2,829.33
1/2		1/2		1/2		1/2	4,873.59	1/2	4,533.05	1/2	4,191.89	1/2	3,849.42	1/2	3,506.99	1/2	3,164.62	1/2	2,822.20
3/4		3/4		3/4		3/4	4,866.53	3/4	4,525.95	3/4	4,184.76	3/4	3,842.29	3/4	3,499.86	3/4	3,157.48	3/4	2,815.06
8		8		8		8	4,859.48	8	4,518.84	8	4,177.62	8	3,835.15	8	3,492.72	8	3,150.35	8	2,807.93
1/4		1/4		1/4		1/4	4,852.42	1/4	4,511.74	1/4	4,170.49	1/4	3,828.02	1/4	3,485.59	1/4	3,143.22	1/4	2,800.79
1/2		1/2		1/2		1/2	4,845.36	1/2	4,504.64	1/2	4,163.35	1/2	3,820.88	1/2	3,478.46	1/2	3,136.08	1/2	2,793.66
3/4		3/4		3/4		3/4	4,838.30	3/4	4,497.54	3/4	4,156.22	3/4	3,813.75	3/4	3,471.33	3/4	3,128.95	3/4	2,786.52
9		9		9		9	4,831.25	9	4,490.44	9	4,149.08	9	3,806.61	9	3,464.19	9	3,121.82	9	2,779.39
1/4		1/4		1/4		1/4	4,824.17	1/4	4,483.33	1/4	4,141.95	1/4	3,799.48	1/4	3,457.06	1/4	3,114.69	1/4	2,772.25
1/2		1/2		1/2		1/2	4,817.09	1/2	4,476.23	1/2	4,134.81	1/2	3,792.34	1/2	3,449.93	1/2	3,107.55	1/2	2,765.12
3/4		3/4		3/4		3/4	4,810.01	3/4	4,469.13	3/4	4,127.68	3/4	3,785.21	3/4	3,442.79	3/4	3,100.42	3/4	2,757.98
10		10		10		10	4,802.93	10	4,462.03	10	4,120.54	10	3,778.07	10	3,435.66	10	3,093.29	10	2,750.85
1/4		1/4		1/4		1/4	4,795.83	1/4	4,454.93	1/4	4,113.41	1/4	3,770.94	1/4	3,428.53	1/4	3,086.15	1/4	2,743.71
1/2		1/2		1/2		1/2	4,788.72	1/2	4,447.82	1/2	4,106.28	1/2	3,763.80	1/2	3,421.40	1/2	3,079.02	1/2	2,736.58
3/4		3/4		3/4		3/4	4,781.62	3/4	4,440.72	3/4	4,099.14	3/4	3,756.67	3/4	3,414.26	3/4	3,071.89	3/4	2,729.44
11		11		11	5,034.57	11	4,774.52	11	4,433.62	11	4,092.01	11	3,749.54	11	3,407.13	11	3,064.76	11	2,722.31
1/4		1/4		1/4	5,033.64	1/4	4,767.42	1/4	4,426.52	1/4	4,084.87	1/4	3,742.40	1/4	3,400.00	1/4	3,057.62	1/4	2,715.17
1/2		1/2		1/2	5,032.72	1/2	4,760.32	1/2	4,419.42	1/2	4,077.74	1/2	3,735.27	1/2	3,392.87	1/2	3,050.49	1/2	2,708.04
3/4		3/4		3/4	5,031.79	3/4	4,753.21	3/4	4,412.31	3/4	4,070.60	3/4	3,728.13	3/4	3,385.73	3/4	3,043.36	3/4	2,700.91

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

BARGE "MPX 419"

1 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,693.77	0	2,351.30	0	2,008.81	0	1,666.32	0	1,323.83	0	981.39	0	639.15	0	303.76	0	20.46	0	
1/4	2,686.64	1/4	2,344.16	1/4	2,001.67	1/4	1,659.18	1/4	1,316.69	1/4	974.27	1/4	632.01	1/4	297.21	1/4	17.67	1/4	
1/2	2,679.50	1/2	2,337.03	1/2	1,994.54	1/2	1,652.05	1/2	1,309.56	1/2	967.14	1/2	624.88	1/2	290.66	1/2	14.87	1/2	
3/4	2,672.37	3/4	2,329.89	3/4	1,987.40	3/4	1,644.91	3/4	1,302.42	3/4	960.02	3/4	617.74	3/4	284.11	3/4	12.08	3/4	
1	2,665.23	1	2,322.76	1	1,980.27	1	1,637.78	1	1,295.29	1	952.89	1	610.61	1	277.56	1	9.28	1	
1/4	2,658.10	1/4	2,315.62	1/4	1,973.13	1/4	1,630.64	1/4	1,288.15	1/4	945.76	1/4	603.47	1/4	271.09	1/4	7.50	1/4	
1/2	2,650.96	1/2	2,308.49	1/2	1,966.00	1/2	1,623.51	1/2	1,281.02	1/2	938.64	1/2	596.34	1/2	264.62	1/2	5.71	1/2	
3/4	2,643.83	3/4	2,301.35	3/4	1,958.86	3/4	1,616.37	3/4	1,273.88	3/4	931.51	3/4	589.20	3/4	258.16	3/4	3.93	3/4	
2	2,636.69	2	2,294.21	2	1,951.73	2	1,609.24	2	1,266.75	2	924.38	2	582.07	2	251.69	2	2.15	2	
1/4	2,629.56	1/4	2,287.08	1/4	1,944.59	1/4	1,602.10	1/4	1,259.61	1/4	917.26	1/4	574.93	1/4	245.30	1/4		1/4	
1/2	2,622.43	1/2	2,279.94	1/2	1,937.45	1/2	1,594.97	1/2	1,252.48	1/2	910.13	1/2	567.80	1/2	238.92	1/2		1/2	
3/4	2,615.30	3/4	2,272.81	3/4	1,930.32	3/4	1,587.83	3/4	1,245.34	3/4	903.00	3/4	560.66	3/4	232.54	3/4		3/4	
3	2,608.16	3	2,265.67	3	1,923.18	3	1,580.69	3	1,238.21	3	895.88	3	553.53	3	226.15	3		3	
1/4	2,601.03	1/4	2,258.54	1/4	1,916.05	1/4	1,573.56	1/4	1,231.07	1/4	888.75	1/4	546.39	1/4	219.85	1/4		1/4	
1/2	2,593.89	1/2	2,251.40	1/2	1,908.91	1/2	1,566.42	1/2	1,223.93	1/2	881.63	1/2	539.26	1/2	213.55	1/2		1/2	
3/4	2,586.76	3/4	2,244.27	3/4	1,901.78	3/4	1,559.29	3/4	1,216.80	3/4	874.50	3/4	532.12	3/4	207.25	3/4		3/4	
4	2,579.62	4	2,237.13	4	1,894.64	4	1,552.15	4	1,209.66	4	867.37	4	524.99	4	200.95	4		4	
1/4	2,572.49	1/4	2,230.00	1/4	1,887.51	1/4	1,545.02	1/4	1,202.53	1/4	860.25	1/4	517.85	1/4	194.73	1/4		1/4	
1/2	2,565.35	1/2	2,222.86	1/2	1,880.37	1/2	1,537.88	1/2	1,195.39	1/2	853.12	1/2	510.72	1/2	188.52	1/2		1/2	
3/4	2,558.22	3/4	2,215.73	3/4	1,873.24	3/4	1,530.75	3/4	1,188.26	3/4	846.00	3/4	503.58	3/4	182.30	3/4		3/4	
5	2,551.08	5	2,208.59	5	1,866.10	5	1,523.61	5	1,181.12	5	838.87	5	496.45	5	176.08	5		5	
1/4	2,543.95	1/4	2,201.46	1/4	1,858.97	1/4	1,516.48	1/4	1,173.99	1/4	831.74	1/4	489.33	1/4	169.95	1/4		1/4	
1/2	2,536.81	1/2	2,194.32	1/2	1,851.83	1/2	1,509.34	1/2	1,166.85	1/2	824.62	1/2	482.22	1/2	163.81	1/2		1/2	
3/4	2,529.68	3/4	2,187.19	3/4	1,844.70	3/4	1,502.21	3/4	1,159.72	3/4	817.49	3/4	475.11	3/4	157.68	3/4		3/4	
6	2,522.54	6	2,180.05	6	1,837.56	6	1,495.07	6	1,152.58	6	810.37	6	467.99	6	151.55	6		6	
1/4	2,515.41	1/4	2,172.92	1/4	1,830.43	1/4	1,487.94	1/4	1,145.45	1/4	803.24	1/4	460.94	1/4	145.50	1/4		1/4	
1/2	2,508.27	1/2	2,165.78	1/2	1,823.29	1/2	1,480.80	1/2	1,138.31	1/2	796.10	1/2	453.89	1/2	139.45	1/2		1/2	
3/4	2,501.14	3/4	2,158.65	3/4	1,816.16	3/4	1,473.67	3/4	1,131.18	3/4	788.97	3/4	446.84	3/4	133.40	3/4		3/4	
7	2,494.00	7	2,151.51	7	1,809.02	7	1,466.53	7	1,124.04	7	781.84	7	439.79	7	127.35	7		7	
1/4	2,486.87	1/4	2,144.38	1/4	1,801.89	1/4	1,459.40	1/4	1,116.91	1/4	774.71	1/4	432.82	1/4	121.38	1/4		1/4	
1/2	2,479.73	1/2	2,137.24	1/2	1,794.75	1/2	1,452.26	1/2	1,109.77	1/2	767.58	1/2	425.85	1/2	115.41	1/2		1/2	
3/4	2,472.59	3/4	2,130.11	3/4	1,787.62	3/4	1,445.13	3/4	1,102.64	3/4	760.44	3/4	418.88	3/4	109.45	3/4		3/4	
8	2,465.46	8	2,122.97	8	1,780.48	8	1,437.99	8	1,095.50	8	753.31	8	411.91	8	103.48	8		8	
1/4	2,458.32	1/4	2,115.83	1/4	1,773.35	1/4	1,430.86	1/4	1,088.37	1/4	746.17	1/4	405.03	1/4	97.60	1/4		1/4	
1/2	2,451.19	1/2	2,108.70	1/2	1,766.21	1/2	1,423.72	1/2	1,081.23	1/2	739.04	1/2	398.15	1/2	91.73	1/2		1/2	
3/4	2,444.05	3/4	2,101.56	3/4	1,759.07	3/4	1,416.59	3/4	1,074.10	3/4	731.90	3/4	391.26	3/4	85.85	3/4		3/4	
9	2,436.92	9	2,094.43	9	1,751.94	9	1,409.45	9	1,066.96	9	724.77	9	384.38	9	79.97	9		9	
1/4	2,429.78	1/4	2,087.29	1/4	1,744.80	1/4	1,402.31	1/4	1,059.83	1/4	717.63	1/4	377.57	1/4	74.19	1/4		1/4	
1/2	2,422.65	1/2	2,080.16	1/2	1,737.67	1/2	1,395.18	1/2	1,052.69	1/2	710.50	1/2	370.77	1/2	68.42	1/2		1/2	
3/4	2,415.51	3/4	2,073.02	3/4	1,730.53	3/4	1,388.04	3/4	1,045.56	3/4	703.36	3/4	363.97	3/4	62.64	3/4		3/4	
10	2,408.38	10	2,065.89	10	1,723.40	10	1,380.91	10	1,038.42	10	696.23	10	357.17	10	56.86	10		10	
1/4	2,401.24	1/4	2,058.75	1/4	1,716.26	1/4	1,373.77	1/4	1,031.29	1/4	689.09	1/4	350.45	1/4	51.61	1/4		1/4	
1/2	2,394.11	1/2	2,051.62	1/2	1,709.13	1/2	1,366.64	1/2	1,024.16	1/2	681.96	1/2	343.74	1/2	46.36	1/2		1/2	
3/4	2,386.97	3/4	2,044.48	3/4	1,701.99	3/4	1,359.50	3/4	1,017.03	3/4	674.82	3/4	337.02	3/4	41.11	3/4		3/4	
11	2,379.84	11	2,037.35	11	1,694.86	11	1,352.37	11	1,009.90	11	667.69	11	330.30	11	35.86	11		11	
1/4	2,372.70	1/4	2,030.21	1/4	1,687.72	1/4	1,345.23	1/4	1,002.77	1/4	660.55	1/4	323.67	1/4	32.01	1/4		1/4	
1/2	2,365.57	1/2	2,023.08	1/2	1,680.59	1/2	1,338.10	1/2	995.65	1/2	653.42	1/2	317.03	1/2	28.16	1/2		1/2	
3/4	2,358.43	3/4	2,015.94	3/4	1,673.45	3/4	1,330.96	3/4	988.52	3/4	646.28	3/4	310.40	3/4	24.31	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,089.30	0	4,810.16	0	4,468.55	0	4,126.12	0	3,782.94	0	3,439.75	0	3,096.57
1/4		1/4		1/4		1/4	5,088.38	1/4	4,803.05	1/4	4,461.43	1/4	4,118.97	1/4	3,775.79	1/4	3,432.60	1/4	3,089.42
1/2		1/2		1/2		1/2	5,086.37	1/2	4,795.93	1/2	4,454.31	1/2	4,111.82	1/2	3,768.64	1/2	3,425.46	1/2	3,082.27
3/4		3/4		3/4		3/4	5,084.36	3/4	4,788.81	3/4	4,447.20	3/4	4,104.67	3/4	3,761.49	3/4	3,418.31	3/4	3,075.12
1		1		1		1	5,082.36	1	4,781.70	1	4,440.08	1	4,097.52	1	3,754.34	1	3,411.16	1	3,067.98
1/4		1/4		1/4		1/4	5,080.35	1/4	4,774.58	1/4	4,432.96	1/4	4,090.37	1/4	3,747.19	1/4	3,404.01	1/4	3,060.83
1/2		1/2		1/2		1/2	5,077.15	1/2	4,767.46	1/2	4,425.84	1/2	4,083.22	1/2	3,740.04	1/2	3,396.86	1/2	3,053.68
3/4		3/4		3/4		3/4	5,073.95	3/4	4,760.34	3/4	4,418.73	3/4	4,076.07	3/4	3,732.89	3/4	3,389.71	3/4	3,046.54
2		2		2		2	5,070.75	2	4,753.23	2	4,411.61	2	4,068.92	2	3,725.74	2	3,382.56	2	3,039.39
1/4		1/4		1/4		1/4	5,067.56	1/4	4,746.11	1/4	4,404.49	1/4	4,061.77	1/4	3,718.59	1/4	3,375.41	1/4	3,032.25
1/2		1/2		1/2		1/2	5,063.17	1/2	4,738.99	1/2	4,397.38	1/2	4,054.62	1/2	3,711.44	1/2	3,368.26	1/2	3,025.10
3/4		3/4		3/4		3/4	5,058.78	3/4	4,731.88	3/4	4,390.26	3/4	4,047.47	3/4	3,704.29	3/4	3,361.11	3/4	3,017.95
3		3		3		3	5,054.39	3	4,724.76	3	4,383.14	3	4,040.32	3	3,697.14	3	3,353.96	3	3,010.79
1/4		1/4		1/4		1/4	5,050.00	1/4	4,717.64	1/4	4,376.03	1/4	4,033.17	1/4	3,689.99	1/4	3,346.81	1/4	3,003.64
1/2		1/2		1/2		1/2	5,044.41	1/2	4,710.53	1/2	4,368.91	1/2	4,026.02	1/2	3,682.84	1/2	3,339.66	1/2	2,996.49
3/4		3/4		3/4		3/4	5,038.83	3/4	4,703.41	3/4	4,361.79	3/4	4,018.87	3/4	3,675.69	3/4	3,332.51	3/4	2,989.34
4		4		4		4	5,033.25	4	4,696.29	4	4,354.67	4	4,011.72	4	3,668.54	4	3,325.36	4	2,982.19
1/4		1/4		1/4		1/4	5,027.67	1/4	4,689.17	1/4	4,347.56	1/4	4,004.57	1/4	3,661.39	1/4	3,318.21	1/4	2,975.04
1/2		1/2		1/2		1/2	5,021.08	1/2	4,682.06	1/2	4,340.44	1/2	3,997.42	1/2	3,654.24	1/2	3,311.06	1/2	2,967.88
3/4		3/4		3/4		3/4	5,014.49	3/4	4,674.94	3/4	4,333.32	3/4	3,990.27	3/4	3,647.09	3/4	3,303.91	3/4	2,960.73
5		5		5		5	5,007.89	5	4,667.82	5	4,326.21	5	3,983.12	5	3,639.94	5	3,296.76	5	2,953.58
1/4		1/4		1/4		1/4	5,001.30	1/4	4,660.71	1/4	4,319.09	1/4	3,975.97	1/4	3,632.79	1/4	3,289.61	1/4	2,946.43
1/2		1/2		1/2		1/2	4,994.27	1/2	4,653.59	1/2	4,311.96	1/2	3,968.82	1/2	3,625.64	1/2	3,282.46	1/2	2,939.28
3/4		3/4		3/4		3/4	4,987.24	3/4	4,646.47	3/4	4,304.82	3/4	3,961.68	3/4	3,618.49	3/4	3,275.31	3/4	2,932.13
6		6		6		6	4,980.21	6	4,639.35	6	4,297.69	6	3,954.53	6	3,611.34	6	3,268.16	6	2,924.97
1/4		1/4		1/4		1/4	4,973.18	1/4	4,632.24	1/4	4,290.56	1/4	3,947.38	1/4	3,604.20	1/4	3,261.01	1/4	2,917.82
1/2		1/2		1/2		1/2	4,966.12	1/2	4,625.12	1/2	4,283.41	1/2	3,940.23	1/2	3,597.05	1/2	3,253.86	1/2	2,910.67
3/4		3/4		3/4		3/4	4,959.06	3/4	4,618.00	3/4	4,276.26	3/4	3,933.08	3/4	3,589.90	3/4	3,246.72	3/4	2,903.52
7		7		7		7	4,951.99	7	4,610.89	7	4,269.11	7	3,925.93	7	3,582.75	7	3,239.57	7	2,896.37
1/4		1/4		1/4		1/4	4,944.93	1/4	4,603.77	1/4	4,261.96	1/4	3,918.78	1/4	3,575.60	1/4	3,232.42	1/4	2,889.22
1/2		1/2		1/2		1/2	4,937.86	1/2	4,596.65	1/2	4,254.81	1/2	3,911.63	1/2	3,568.45	1/2	3,225.27	1/2	2,882.06
3/4		3/4		3/4		3/4	4,930.79	3/4	4,589.54	3/4	4,247.66	3/4	3,904.48	3/4	3,561.30	3/4	3,218.12	3/4	2,874.91
8		8		8		8	4,923.72	8	4,582.42	8	4,240.51	8	3,897.33	8	3,554.15	8	3,210.97	8	2,867.76
1/4		1/4		1/4		1/4	4,916.65	1/4	4,575.30	1/4	4,233.36	1/4	3,890.18	1/4	3,547.00	1/4	3,203.82	1/4	2,860.61
1/2		1/2		1/2		1/2	4,909.57	1/2	4,568.18	1/2	4,226.21	1/2	3,883.03	1/2	3,539.85	1/2	3,196.67	1/2	2,853.46
3/4		3/4		3/4		3/4	4,902.50	3/4	4,561.07	3/4	4,219.06	3/4	3,875.88	3/4	3,532.70	3/4	3,189.52	3/4	2,846.30
9		9		9		9	4,895.43	9	4,553.95	9	4,211.91	9	3,868.73	9	3,525.55	9	3,182.37	9	2,839.15
1/4		1/4		1/4		1/4	4,888.36	1/4	4,546.83	1/4	4,204.76	1/4	3,861.58	1/4	3,518.40	1/4	3,175.22	1/4	2,832.00
1/2		1/2		1/2		1/2	4,881.26	1/2	4,539.72	1/2	4,197.61	1/2	3,854.43	1/2	3,511.25	1/2	3,168.07	1/2	2,824.85
3/4		3/4		3/4		3/4	4,874.17	3/4	4,532.60	3/4	4,190.46	3/4	3,847.28	3/4	3,504.10	3/4	3,160.92	3/4	2,817.70
10		10		10		10	4,867.08	10	4,525.48	10	4,183.31	10	3,840.13	10	3,496.95	10	3,153.77	10	2,810.55
1/4		1/4		1/4		1/4	4,859.98	1/4	4,518.37	1/4	4,176.16	1/4	3,832.98	1/4	3,489.80	1/4	3,146.62	1/4	2,803.39
1/2		1/2		1/2		1/2	4,852.87	1/2	4,511.25	1/2	4,169.01	1/2	3,825.83	1/2	3,482.65	1/2	3,139.47	1/2	2,796.24
3/4		3/4		3/4		3/4	4,845.75	3/4	4,504.13	3/4	4,161.86	3/4	3,818.68	3/4	3,475.50	3/4	3,132.32	3/4	2,789.09
11		11		11		11	4,838.63	11	4,497.01	11	4,154.71	11	3,811.53	11	3,468.35	11	3,125.17	11	2,781.94
1/4		1/4		1/4	5,092.09	1/4	4,831.51	1/4	4,489.90	1/4	4,147.56	1/4	3,804.38	1/4	3,461.20	1/4	3,118.02	1/4	2,774.79
1/2		1/2		1/2	5,091.16	1/2	4,824.40	1/2	4,482.78	1/2	4,140.42	1/2	3,797.23	1/2	3,454.05	1/2	3,110.87	1/2	2,767.64
3/4		3/4		3/4	5,090.23	3/4	4,817.28	3/4	4,475.66	3/4	4,133.27	3/4	3,790.08	3/4	3,446.90	3/4	3,103.72	3/4	2,760.48

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

BARGE "MPX 419"

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	2,753.33	0	2,410.05	0	2,066.77	0	1,723.49	0	1,380.21	0	1,040.79	0	708.16	0	364.89	0	28.97	0	
1/4	2,746.18	1/4	2,402.90	1/4	2,059.62	1/4	1,716.34	1/4	1,373.05	1/4	1,033.95	1/4	701.00	1/4	357.74	1/4	23.61	1/4	
1/2	2,739.03	1/2	2,395.75	1/2	2,052.47	1/2	1,709.18	1/2	1,365.90	1/2	1,027.10	1/2	693.85	1/2	350.59	1/2	20.03	1/2	
3/4	2,731.88	3/4	2,388.60	3/4	2,045.31	3/4	1,702.03	3/4	1,358.75	3/4	1,020.26	3/4	686.70	3/4	343.43	3/4	16.46	3/4	
1	2,724.73	1	2,381.44	1	2,038.16	1	1,694.88	1	1,351.60	1	1,013.42	1	679.55	1	336.28	1	12.88	1	
1/4	2,717.57	1/4	2,374.29	1/4	2,031.01	1/4	1,687.73	1/4	1,344.45	1/4	1,006.57	1/4	672.40	1/4	329.13	1/4	9.31	1/4	
1/2	2,710.42	1/2	2,367.14	1/2	2,023.86	1/2	1,680.58	1/2	1,337.30	1/2	999.73	1/2	665.25	1/2	321.98	1/2	7.52	1/2	
3/4	2,703.27	3/4	2,359.99	3/4	2,016.71	3/4	1,673.43	3/4	1,330.14	3/4	992.88	3/4	658.10	3/4	314.83	3/4	5.73	3/4	
2	2,696.12	2	2,352.84	2	2,009.56	2	1,666.27	2	1,322.99	2	986.04	2	650.94	2	307.68	2	3.94	2	
1/4	2,688.97	1/4	2,345.69	1/4	2,002.40	1/4	1,659.12	1/4	1,315.84	1/4	979.20	1/4	643.79	1/4	300.53	1/4	2.15	1/4	
1/2	2,681.82	1/2	2,338.53	1/2	1,995.25	1/2	1,651.97	1/2	1,308.69	1/2	972.35	1/2	636.64	1/2	293.37	1/2		1/2	
3/4	2,674.66	3/4	2,331.38	3/4	1,988.10	3/4	1,644.82	3/4	1,301.54	3/4	965.51	3/4	629.49	3/4	286.22	3/4		3/4	
3	2,667.51	3	2,324.23	3	1,980.95	3	1,637.67	3	1,294.39	3	958.66	3	622.34	3	279.07	3		3	
1/4	2,660.36	1/4	2,317.08	1/4	1,973.80	1/4	1,630.52	1/4	1,287.23	1/4	951.82	1/4	615.19	1/4	271.92	1/4		1/4	
1/2	2,653.21	1/2	2,309.93	1/2	1,966.65	1/2	1,623.36	1/2	1,280.08	1/2	944.98	1/2	608.04	1/2	264.77	1/2		1/2	
3/4	2,646.06	3/4	2,302.78	3/4	1,959.49	3/4	1,616.21	3/4	1,272.93	3/4	938.13	3/4	600.88	3/4	257.62	3/4		3/4	
4	2,638.91	4	2,295.62	4	1,952.34	4	1,609.06	4	1,265.78	4	931.29	4	593.73	4	250.47	4		4	
1/4	2,631.75	1/4	2,288.47	1/4	1,945.19	1/4	1,601.91	1/4	1,258.63	1/4	924.44	1/4	586.58	1/4	243.31	1/4		1/4	
1/2	2,624.60	1/2	2,281.32	1/2	1,938.04	1/2	1,594.76	1/2	1,251.48	1/2	917.60	1/2	579.43	1/2	236.16	1/2		1/2	
3/4	2,617.45	3/4	2,274.17	3/4	1,930.89	3/4	1,587.61	3/4	1,244.32	3/4	910.76	3/4	572.28	3/4	229.01	3/4		3/4	
5	2,610.30	5	2,267.02	5	1,923.74	5	1,580.45	5	1,237.17	5	903.91	5	565.13	5	221.86	5		5	
1/4	2,603.15	1/4	2,259.87	1/4	1,916.58	1/4	1,573.30	1/4	1,230.02	1/4	897.07	1/4	557.98	1/4	214.71	1/4		1/4	
1/2	2,596.00	1/2	2,252.71	1/2	1,909.43	1/2	1,566.15	1/2	1,222.87	1/2	890.22	1/2	550.82	1/2	207.56	1/2		1/2	
3/4	2,588.84	3/4	2,245.56	3/4	1,902.28	3/4	1,559.00	3/4	1,215.72	3/4	883.38	3/4	543.67	3/4	200.41	3/4		3/4	
6	2,581.69	6	2,238.41	6	1,895.13	6	1,551.85	6	1,208.57	6	876.54	6	536.52	6	193.25	6		6	
1/4	2,574.54	1/4	2,231.26	1/4	1,887.98	1/4	1,544.70	1/4	1,201.41	1/4	869.69	1/4	529.37	1/4	186.10	1/4		1/4	
1/2	2,567.39	1/2	2,224.11	1/2	1,880.83	1/2	1,537.54	1/2	1,194.26	1/2	862.84	1/2	522.22	1/2	178.95	1/2		1/2	
3/4	2,560.24	3/4	2,216.96	3/4	1,873.67	3/4	1,530.39	3/4	1,187.11	3/4	856.00	3/4	515.07	3/4	171.80	3/4		3/4	
7	2,553.09	7	2,209.80	7	1,866.52	7	1,523.24	7	1,179.96	7	849.15	7	507.92	7	164.65	7		7	
1/4	2,545.93	1/4	2,202.65	1/4	1,859.37	1/4	1,516.09	1/4	1,172.81	1/4	842.30	1/4	500.76	1/4	157.50	1/4		1/4	
1/2	2,538.78	1/2	2,195.50	1/2	1,852.22	1/2	1,508.94	1/2	1,165.66	1/2	835.44	1/2	493.61	1/2	150.35	1/2		1/2	
3/4	2,531.63	3/4	2,188.35	3/4	1,845.07	3/4	1,501.79	3/4	1,158.50	3/4	828.58	3/4	486.46	3/4	143.20	3/4		3/4	
8	2,524.48	8	2,181.20	8	1,837.92	8	1,494.63	8	1,151.35	8	821.72	8	479.31	8	136.05	8		8	
1/4	2,517.33	1/4	2,174.05	1/4	1,830.76	1/4	1,487.48	1/4	1,144.20	1/4	814.86	1/4	472.16	1/4	128.89	1/4		1/4	
1/2	2,510.18	1/2	2,166.89	1/2	1,823.61	1/2	1,480.33	1/2	1,137.19	1/2	807.85	1/2	465.01	1/2	121.75	1/2		1/2	
3/4	2,503.02	3/4	2,159.74	3/4	1,816.46	3/4	1,473.18	3/4	1,130.18	3/4	800.84	3/4	457.86	3/4	114.60	3/4		3/4	
9	2,495.87	9	2,152.59	9	1,809.31	9	1,466.03	9	1,123.17	9	793.83	9	450.70	9	107.46	9		9	
1/4	2,488.72	1/4	2,145.44	1/4	1,802.16	1/4	1,458.88	1/4	1,116.16	1/4	786.82	1/4	443.55	1/4	100.31	1/4		1/4	
1/2	2,481.57	1/2	2,138.29	1/2	1,795.01	1/2	1,451.72	1/2	1,109.30	1/2	779.67	1/2	436.40	1/2	93.18	1/2		1/2	
3/4	2,474.42	3/4	2,131.13	3/4	1,787.85	3/4	1,444.57	3/4	1,102.44	3/4	772.52	3/4	429.25	3/4	86.06	3/4		3/4	
10	2,467.26	10	2,123.98	10	1,780.70	10	1,437.42	10	1,095.58	10	765.37	10	422.10	10	78.93	10		10	
1/4	2,460.11	1/4	2,116.83	1/4	1,773.55	1/4	1,430.27	1/4	1,088.72	1/4	758.22	1/4	414.95	1/4	71.80	1/4		1/4	
1/2	2,452.96	1/2	2,109.68	1/2	1,766.40	1/2	1,423.12	1/2	1,081.87	1/2	751.06	1/2	407.80	1/2	65.12	1/2		1/2	
3/4	2,445.81	3/4	2,102.53	3/4	1,759.25	3/4	1,415.96	3/4	1,075.02	3/4	743.91	3/4	400.65	3/4	58.43	3/4		3/4	
11	2,438.66	11	2,095.38	11	1,752.09	11	1,408.81	11	1,068.17	11	736.76	11	393.49	11	51.74	11		11	
1/4	2,431.51	1/4	2,088.22	1/4	1,744.94	1/4	1,401.66	1/4	1,061.32	1/4	729.61	1/4	386.34	1/4	45.06	1/4		1/4	
1/2	2,424.35	1/2	2,081.07	1/2	1,737.79	1/2	1,394.51	1/2	1,054.48	1/2	722.46	1/2	379.19	1/2	39.70	1/2		1/2	
3/4	2,417.20	3/4	2,073.92	3/4	1,730.64	3/4	1,387.36	3/4	1,047.64	3/4	715.31	3/4	372.04	3/4	34.33	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

2 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,105.57	0	4,826.23	0	4,484.40	0	4,141.75	0	3,798.35	0	3,455.01	0	3,111.71
1/4		1/4		1/4		1/4	5,104.64	1/4	4,819.11	1/4	4,477.28	1/4	4,134.59	1/4	3,791.19	1/4	3,447.86	1/4	3,104.55
1/2		1/2		1/2		1/2	5,102.63	1/2	4,811.99	1/2	4,470.15	1/2	4,127.44	1/2	3,784.04	1/2	3,440.71	1/2	3,097.40
3/4		3/4		3/4		3/4	5,100.62	3/4	4,804.86	3/4	4,463.03	3/4	4,120.29	3/4	3,776.88	3/4	3,433.55	3/4	3,090.25
1		1		1		1	5,098.61	1	4,797.74	1	4,455.91	1	4,113.13	1	3,769.73	1	3,426.40	1	3,083.10
1/4		1/4		1/4		1/4	5,096.60	1/4	4,790.62	1/4	4,448.79	1/4	4,105.98	1/4	3,762.58	1/4	3,419.25	1/4	3,075.94
1/2		1/2		1/2		1/2	5,093.40	1/2	4,783.50	1/2	4,441.67	1/2	4,098.82	1/2	3,755.42	1/2	3,412.10	1/2	3,068.79
3/4		3/4		3/4		3/4	5,090.20	3/4	4,776.38	3/4	4,434.55	3/4	4,091.67	3/4	3,748.27	3/4	3,404.95	3/4	3,061.64
2		2		2		2	5,087.00	2	4,769.26	2	4,427.43	2	4,084.51	2	3,741.11	2	3,397.79	2	3,054.49
1/4		1/4		1/4		1/4	5,083.80	1/4	4,762.14	1/4	4,420.30	1/4	4,077.36	1/4	3,733.96	1/4	3,390.64	1/4	3,047.33
1/2		1/2		1/2		1/2	5,079.40	1/2	4,755.01	1/2	4,413.18	1/2	4,070.21	1/2	3,726.80	1/2	3,383.49	1/2	3,040.18
3/4		3/4		3/4		3/4	5,075.01	3/4	4,747.89	3/4	4,406.06	3/4	4,063.05	3/4	3,719.65	3/4	3,376.34	3/4	3,033.02
3		3		3		3	5,070.62	3	4,740.77	3	4,398.94	3	4,055.90	3	3,712.50	3	3,369.18	3	3,025.87
1/4		1/4		1/4		1/4	5,066.22	1/4	4,733.65	1/4	4,391.82	1/4	4,048.74	1/4	3,705.34	1/4	3,362.03	1/4	3,018.72
1/2		1/2		1/2		1/2	5,060.64	1/2	4,726.53	1/2	4,384.70	1/2	4,041.59	1/2	3,698.19	1/2	3,354.88	1/2	3,011.56
3/4		3/4		3/4		3/4	5,055.05	3/4	4,719.41	3/4	4,377.57	3/4	4,034.44	3/4	3,691.04	3/4	3,347.73	3/4	3,004.41
4		4		4		4	5,049.47	4	4,712.29	4	4,370.45	4	4,027.28	4	3,683.88	4	3,340.58	4	2,997.25
1/4		1/4		1/4		1/4	5,043.88	1/4	4,705.16	1/4	4,363.33	1/4	4,020.13	1/4	3,676.73	1/4	3,333.42	1/4	2,990.10
1/2		1/2		1/2		1/2	5,037.28	1/2	4,698.04	1/2	4,356.21	1/2	4,012.97	1/2	3,669.58	1/2	3,326.27	1/2	2,982.94
3/4		3/4		3/4		3/4	5,030.69	3/4	4,690.92	3/4	4,349.09	3/4	4,005.82	3/4	3,662.43	3/4	3,319.12	3/4	2,975.79
5		5		5		5	5,024.09	5	4,683.80	5	4,341.97	5	3,998.66	5	3,655.27	5	3,311.97	5	2,968.64
1/4		1/4		1/4		1/4	5,017.50	1/4	4,676.68	1/4	4,334.85	1/4	3,991.51	1/4	3,648.12	1/4	3,304.82	1/4	2,961.48
1/2		1/2		1/2		1/2	5,010.46	1/2	4,669.56	1/2	4,327.71	1/2	3,984.36	1/2	3,640.97	1/2	3,297.66	1/2	2,954.33
3/4		3/4		3/4		3/4	5,003.43	3/4	4,662.43	3/4	4,320.57	3/4	3,977.20	3/4	3,633.82	3/4	3,290.51	3/4	2,947.17
6		6		6		6	4,996.39	6	4,655.31	6	4,313.43	6	3,970.05	6	3,626.66	6	3,283.36	6	2,940.02
1/4		1/4		1/4		1/4	4,989.36	1/4	4,648.19	1/4	4,306.29	1/4	3,962.89	1/4	3,619.51	1/4	3,276.21	1/4	2,932.86
1/2		1/2		1/2		1/2	4,982.29	1/2	4,641.07	1/2	4,299.14	1/2	3,955.74	1/2	3,612.36	1/2	3,269.05	1/2	2,925.71
3/4		3/4		3/4		3/4	4,975.22	3/4	4,633.95	3/4	4,291.99	3/4	3,948.58	3/4	3,605.21	3/4	3,261.90	3/4	2,918.56
7		7		7		7	4,968.15	7	4,626.83	7	4,284.83	7	3,941.43	7	3,598.06	7	3,254.75	7	2,911.40
1/4		1/4		1/4		1/4	4,961.09	1/4	4,619.71	1/4	4,277.68	1/4	3,934.28	1/4	3,590.90	1/4	3,247.60	1/4	2,904.25
1/2		1/2		1/2		1/2	4,954.01	1/2	4,612.58	1/2	4,270.52	1/2	3,927.12	1/2	3,583.75	1/2	3,240.45	1/2	2,897.09
3/4		3/4		3/4		3/4	4,946.93	3/4	4,605.46	3/4	4,263.37	3/4	3,919.97	3/4	3,576.60	3/4	3,233.29	3/4	2,889.94
8		8		8		8	4,939.86	8	4,598.34	8	4,256.22	8	3,912.81	8	3,569.45	8	3,226.14	8	2,882.79
1/4		1/4		1/4		1/4	4,932.78	1/4	4,591.22	1/4	4,249.06	1/4	3,905.66	1/4	3,562.29	1/4	3,218.99	1/4	2,875.63
1/2		1/2		1/2		1/2	4,925.71	1/2	4,584.10	1/2	4,241.91	1/2	3,898.51	1/2	3,555.14	1/2	3,211.84	1/2	2,868.48
3/4		3/4		3/4		3/4	4,918.63	3/4	4,576.98	3/4	4,234.75	3/4	3,891.35	3/4	3,547.99	3/4	3,204.68	3/4	2,861.32
9		9		9		9	4,911.55	9	4,569.86	9	4,227.60	9	3,884.20	9	3,540.84	9	3,197.53	9	2,854.17
1/4		1/4		1/4		1/4	4,904.48	1/4	4,562.73	1/4	4,220.44	1/4	3,877.04	1/4	3,533.69	1/4	3,190.38	1/4	2,847.01
1/2		1/2		1/2		1/2	4,897.38	1/2	4,555.61	1/2	4,213.29	1/2	3,869.89	1/2	3,526.53	1/2	3,183.23	1/2	2,839.86
3/4		3/4		3/4		3/4	4,890.28	3/4	4,548.49	3/4	4,206.14	3/4	3,862.73	3/4	3,519.38	3/4	3,176.08	3/4	2,832.71
10		10		10		10	4,883.18	10	4,541.37	10	4,198.98	10	3,855.58	10	3,512.23	10	3,168.92	10	2,825.55
1/4		1/4		1/4		1/4	4,876.08	1/4	4,534.25	1/4	4,191.83	1/4	3,848.43	1/4	3,505.08	1/4	3,161.77	1/4	2,818.40
1/2		1/2		1/2		1/2	4,868.96	1/2	4,527.13	1/2	4,184.67	1/2	3,841.27	1/2	3,497.92	1/2	3,154.62	1/2	2,811.24
3/4		3/4		3/4		3/4	4,861.84	3/4	4,520.00	3/4	4,177.52	3/4	3,834.12	3/4	3,490.77	3/4	3,147.47	3/4	2,804.09
11		11		11		11	4,854.72	11	4,512.88	11	4,170.36	11	3,826.96	11	3,483.62	11	3,140.31	11	2,796.93
1/4		1/4		1/4	5,108.36	1/4	4,847.59	1/4	4,505.76	1/4	4,163.21	1/4	3,819.81	1/4	3,476.47	1/4	3,133.16	1/4	2,789.78
1/2		1/2		1/2	5,107.43	1/2	4,840.47	1/2	4,498.64	1/2	4,156.06	1/2	3,812.65	1/2	3,469.32	1/2	3,126.01	1/2	2,782.63
3/4		3/4		3/4	5,106.50	3/4	4,833.35	3/4	4,491.52	3/4	4,148.90	3/4	3,805.50	3/4	3,462.16	3/4	3,118.86	3/4	2,775.47

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

BARGE "MPX 419"

2 STBD

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	2,768.32	0	2,424.92	0	2,081.51	0	1,738.11	0	1,394.71	0	1,051.40	0	708.41	0	365.02	0	28.98	0	
1/4	2,761.16	1/4	2,417.76	1/4	2,074.36	1/4	1,730.96	1/4	1,387.56	1/4	1,044.26	1/4	701.25	1/4	357.86	1/4	23.62	1/4	
1/2	2,754.01	1/2	2,410.61	1/2	2,067.21	1/2	1,723.80	1/2	1,380.40	1/2	1,037.12	1/2	694.10	1/2	350.71	1/2	20.04	1/2	
3/4	2,746.86	3/4	2,403.45	3/4	2,060.05	3/4	1,716.65	3/4	1,373.25	3/4	1,029.98	3/4	686.94	3/4	343.56	3/4	16.46	3/4	
1	2,739.70	1	2,396.30	1	2,052.90	1	1,709.50	1	1,366.09	1	1,022.84	1	679.79	1	336.40	1	12.89	1	
1/4	2,732.55	1/4	2,389.15	1/4	2,045.74	1/4	1,702.34	1/4	1,358.94	1/4	1,015.70	1/4	672.64	1/4	329.25	1/4	9.31	1/4	
1/2	2,725.39	1/2	2,381.99	1/2	2,038.59	1/2	1,695.19	1/2	1,351.79	1/2	1,008.56	1/2	665.48	1/2	322.10	1/2	7.52	1/2	
3/4	2,718.24	3/4	2,374.84	3/4	2,031.44	3/4	1,688.03	3/4	1,344.63	3/4	1,001.42	3/4	658.33	3/4	314.94	3/4	5.73	3/4	
2	2,711.08	2	2,367.68	2	2,024.28	2	1,680.88	2	1,337.48	2	994.28	2	651.17	2	307.79	2	3.94	2	
1/4	2,703.93	1/4	2,360.53	1/4	2,017.13	1/4	1,673.73	1/4	1,330.32	1/4	987.14	1/4	644.02	1/4	300.63	1/4	2.16	1/4	
1/2	2,696.78	1/2	2,353.37	1/2	2,009.97	1/2	1,666.57	1/2	1,323.17	1/2	980.00	1/2	636.87	1/2	293.48	1/2		1/2	
3/4	2,689.62	3/4	2,346.22	3/4	2,002.82	3/4	1,659.42	3/4	1,316.02	3/4	972.86	3/4	629.71	3/4	286.33	3/4		3/4	
3	2,682.47	3	2,339.07	3	1,995.66	3	1,652.26	3	1,308.86	3	965.72	3	622.56	3	279.17	3		3	
1/4	2,675.31	1/4	2,331.91	1/4	1,988.51	1/4	1,645.11	1/4	1,301.71	1/4	958.58	1/4	615.41	1/4	272.02	1/4		1/4	
1/2	2,668.16	1/2	2,324.76	1/2	1,981.36	1/2	1,637.95	1/2	1,294.55	1/2	951.44	1/2	608.25	1/2	264.86	1/2		1/2	
3/4	2,661.01	3/4	2,317.60	3/4	1,974.20	3/4	1,630.80	3/4	1,287.40	3/4	944.30	3/4	601.10	3/4	257.71	3/4		3/4	
4	2,653.85	4	2,310.45	4	1,967.05	4	1,623.65	4	1,280.24	4	937.16	4	593.94	4	250.56	4		4	
1/4	2,646.70	1/4	2,303.30	1/4	1,959.89	1/4	1,616.49	1/4	1,273.09	1/4	930.02	1/4	586.79	1/4	243.40	1/4		1/4	
1/2	2,639.54	1/2	2,296.14	1/2	1,952.74	1/2	1,609.34	1/2	1,265.94	1/2	922.88	1/2	579.64	1/2	236.25	1/2		1/2	
3/4	2,632.39	3/4	2,288.99	3/4	1,945.59	3/4	1,602.18	3/4	1,258.78	3/4	915.74	3/4	572.48	3/4	229.09	3/4		3/4	
5	2,625.23	5	2,281.83	5	1,938.43	5	1,595.03	5	1,251.63	5	908.60	5	565.33	5	221.94	5		5	
1/4	2,618.08	1/4	2,274.68	1/4	1,931.28	1/4	1,587.88	1/4	1,244.47	1/4	901.46	1/4	558.17	1/4	214.79	1/4		1/4	
1/2	2,610.93	1/2	2,267.52	1/2	1,924.12	1/2	1,580.72	1/2	1,237.32	1/2	894.32	1/2	551.02	1/2	207.63	1/2		1/2	
3/4	2,603.77	3/4	2,260.37	3/4	1,916.97	3/4	1,573.57	3/4	1,230.17	3/4	887.18	3/4	543.87	3/4	200.48	3/4		3/4	
6	2,596.62	6	2,253.22	6	1,909.81	6	1,566.41	6	1,223.01	6	880.04	6	536.71	6	193.33	6		6	
1/4	2,589.46	1/4	2,246.06	1/4	1,902.66	1/4	1,559.26	1/4	1,215.86	1/4	872.90	1/4	529.56	1/4	186.17	1/4		1/4	
1/2	2,582.31	1/2	2,238.91	1/2	1,895.51	1/2	1,552.10	1/2	1,208.70	1/2	865.76	1/2	522.40	1/2	179.02	1/2		1/2	
3/4	2,575.15	3/4	2,231.75	3/4	1,888.35	3/4	1,544.95	3/4	1,201.55	3/4	858.61	3/4	515.25	3/4	171.86	3/4		3/4	
7	2,568.00	7	2,224.60	7	1,881.20	7	1,537.80	7	1,194.39	7	851.47	7	508.10	7	164.71	7		7	
1/4	2,560.85	1/4	2,217.44	1/4	1,874.04	1/4	1,530.64	1/4	1,187.24	1/4	844.33	1/4	500.94	1/4	157.56	1/4		1/4	
1/2	2,553.69	1/2	2,210.29	1/2	1,866.89	1/2	1,523.49	1/2	1,180.09	1/2	837.17	1/2	493.79	1/2	150.40	1/2		1/2	
3/4	2,546.54	3/4	2,203.14	3/4	1,859.73	3/4	1,516.33	3/4	1,172.93	3/4	830.02	3/4	486.63	3/4	143.25	3/4		3/4	
8	2,539.38	8	2,195.98	8	1,852.58	8	1,509.18	8	1,165.78	8	822.87	8	479.48	8	136.10	8		8	
1/4	2,532.23	1/4	2,188.83	1/4	1,845.43	1/4	1,502.02	1/4	1,158.62	1/4	815.71	1/4	472.33	1/4	128.94	1/4		1/4	
1/2	2,525.08	1/2	2,181.67	1/2	1,838.27	1/2	1,494.87	1/2	1,151.47	1/2	808.56	1/2	465.17	1/2	121.79	1/2		1/2	
3/4	2,517.92	3/4	2,174.52	3/4	1,831.12	3/4	1,487.72	3/4	1,144.31	3/4	801.41	3/4	458.02	3/4	114.65	3/4		3/4	
9	2,510.77	9	2,167.37	9	1,823.96	9	1,480.56	9	1,137.16	9	794.25	9	450.87	9	107.50	9		9	
1/4	2,503.61	1/4	2,160.21	1/4	1,816.81	1/4	1,473.41	1/4	1,130.01	1/4	787.10	1/4	443.71	1/4	100.35	1/4		1/4	
1/2	2,496.46	1/2	2,153.06	1/2	1,809.66	1/2	1,466.25	1/2	1,122.86	1/2	779.94	1/2	436.56	1/2	93.22	1/2		1/2	
3/4	2,489.30	3/4	2,145.90	3/4	1,802.50	3/4	1,459.10	3/4	1,115.70	3/4	772.79	3/4	429.40	3/4	86.09	3/4		3/4	
10	2,482.15	10	2,138.75	10	1,795.35	10	1,451.95	10	1,108.55	10	765.64	10	422.25	10	78.96	10		10	
1/4	2,475.00	1/4	2,131.59	1/4	1,788.19	1/4	1,444.79	1/4	1,101.40	1/4	758.48	1/4	415.10	1/4	71.83	1/4		1/4	
1/2	2,467.84	1/2	2,124.44	1/2	1,781.04	1/2	1,437.64	1/2	1,094.26	1/2	751.33	1/2	407.94	1/2	65.14	1/2		1/2	
3/4	2,460.69	3/4	2,117.29	3/4	1,773.88	3/4	1,430.48	3/4	1,087.11	3/4	744.18	3/4	400.79	3/4	58.45	3/4		3/4	
11	2,453.53	11	2,110.13	11	1,766.73	11	1,423.33	11	1,079.97	11	737.02	11	393.63	11	51.76	11		11	
1/4	2,446.38	1/4	2,102.98	1/4	1,759.58	1/4	1,416.17	1/4	1,072.82	1/4	729.87	1/4	386.48	1/4	45.08	1/4		1/4	
1/2	2,439.22	1/2	2,095.82	1/2	1,752.42	1/2	1,409.02	1/2	1,065.68	1/2	722.71	1/2	379.33	1/2	39.71	1/2		1/2	
3/4	2,432.07	3/4	2,088.67	3/4	1,745.27	3/4	1,401.87	3/4	1,058.54	3/4	715.56	3/4	372.17	3/4	34.35	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,396.63	0	4,230.50	0	4,021.66	0	3,812.34	0	3,602.58	0	3,393.34	0	3,082.96
1/4		1/4		1/4		1/4	4,395.55	1/4	4,226.15	1/4	4,017.31	1/4	3,807.97	1/4	3,598.21	1/4	3,388.99	1/4	3,075.85
1/2		1/2		1/2		1/2	4,393.85	1/2	4,221.80	1/2	4,012.96	1/2	3,803.60	1/2	3,593.84	1/2	3,384.64	1/2	3,068.74
3/4		3/4		3/4		3/4	4,392.14	3/4	4,217.45	3/4	4,008.60	3/4	3,799.23	3/4	3,589.47	3/4	3,380.30	3/4	3,061.62
1		1		1		1	4,390.43	1	4,213.10	1	4,004.25	1	3,794.86	1	3,585.10	1	3,375.95	1	3,054.51
1/4		1/4		1/4		1/4	4,388.73	1/4	4,208.75	1/4	3,999.90	1/4	3,790.49	1/4	3,580.73	1/4	3,371.61	1/4	3,047.40
1/2		1/2		1/2		1/2	4,387.02	1/2	4,204.40	1/2	3,995.55	1/2	3,786.12	1/2	3,576.36	1/2	3,367.27	1/2	3,040.28
3/4		3/4		3/4		3/4	4,385.31	3/4	4,200.04	3/4	3,991.20	3/4	3,781.75	3/4	3,571.99	3/4	3,362.93	3/4	3,033.16
2		2		2		2	4,383.60	2	4,195.69	2	3,986.85	2	3,777.38	2	3,567.62	2	3,358.60	2	3,026.04
1/4		1/4		1/4		1/4	4,381.90	1/4	4,191.34	1/4	3,982.50	1/4	3,773.01	1/4	3,563.25	1/4	3,354.26	1/4	3,018.92
1/2		1/2		1/2		1/2	4,379.92	1/2	4,186.99	1/2	3,978.15	1/2	3,768.64	1/2	3,558.88	1/2	3,348.55	1/2	3,011.79
3/4		3/4		3/4		3/4	4,377.95	3/4	4,182.64	3/4	3,973.80	3/4	3,764.27	3/4	3,554.51	3/4	3,342.83	3/4	3,004.66
3		3		3		3	4,375.97	3	4,178.29	3	3,969.45	3	3,759.90	3	3,550.14	3	3,337.11	3	2,997.53
1/4		1/4		1/4		1/4	4,373.99	1/4	4,173.94	1/4	3,965.10	1/4	3,755.53	1/4	3,545.77	1/4	3,331.40	1/4	2,990.40
1/2		1/2		1/2		1/2	4,371.16	1/2	4,169.59	1/2	3,960.74	1/2	3,751.16	1/2	3,541.41	1/2	3,324.30	1/2	2,983.28
3/4		3/4		3/4		3/4	4,368.32	3/4	4,165.24	3/4	3,956.39	3/4	3,746.79	3/4	3,537.04	3/4	3,317.20	3/4	2,976.15
4		4		4		4	4,365.48	4	4,160.89	4	3,952.04	4	3,742.42	4	3,532.68	4	3,310.11	4	2,969.02
1/4		1/4		1/4		1/4	4,362.64	1/4	4,156.54	1/4	3,947.69	1/4	3,738.05	1/4	3,528.32	1/4	3,303.01	1/4	2,961.89
1/2		1/2		1/2		1/2	4,358.80	1/2	4,152.18	1/2	3,943.34	1/2	3,733.68	1/2	3,523.97	1/2	3,295.91	1/2	2,954.76
3/4		3/4		3/4		3/4	4,354.96	3/4	4,147.83	3/4	3,938.99	3/4	3,729.31	3/4	3,519.61	3/4	3,288.82	3/4	2,947.63
5		5		5		5	4,351.11	5	4,143.48	5	3,934.64	5	3,724.94	5	3,515.26	5	3,281.72	5	2,940.51
1/4		1/4		1/4		1/4	4,347.27	1/4	4,139.13	1/4	3,930.29	1/4	3,720.57	1/4	3,510.90	1/4	3,274.62	1/4	2,933.38
1/2		1/2		1/2		1/2	4,342.99	1/2	4,134.78	1/2	3,925.93	1/2	3,716.20	1/2	3,506.55	1/2	3,267.53	1/2	2,926.25
3/4		3/4		3/4		3/4	4,338.71	3/4	4,130.43	3/4	3,921.57	3/4	3,711.83	3/4	3,502.20	3/4	3,260.43	3/4	2,919.13
6		6		6		6	4,334.42	6	4,126.08	6	3,917.21	6	3,707.46	6	3,497.84	6	3,253.33	6	2,912.01
1/4		1/4		1/4		1/4	4,330.14	1/4	4,121.73	1/4	3,912.85	1/4	3,703.09	1/4	3,493.49	1/4	3,246.24	1/4	2,904.88
1/2		1/2		1/2		1/2	4,325.83	1/2	4,117.38	1/2	3,908.48	1/2	3,698.72	1/2	3,489.13	1/2	3,239.14	1/2	2,897.77
3/4		3/4		3/4		3/4	4,321.51	3/4	4,113.03	3/4	3,904.11	3/4	3,694.35	3/4	3,484.78	3/4	3,232.05	3/4	2,890.65
7		7		7		7	4,317.20	7	4,108.68	7	3,899.74	7	3,689.98	7	3,480.42	7	3,224.95	7	2,883.53
1/4		1/4		1/4		1/4	4,312.88	1/4	4,104.32	1/4	3,895.37	1/4	3,685.61	1/4	3,476.07	1/4	3,217.86	1/4	2,876.42
1/2		1/2		1/2		1/2	4,308.56	1/2	4,099.97	1/2	3,891.00	1/2	3,681.24	1/2	3,471.72	1/2	3,210.76	1/2	2,869.30
3/4		3/4		3/4		3/4	4,304.24	3/4	4,095.62	3/4	3,886.63	3/4	3,676.87	3/4	3,467.36	3/4	3,203.67	3/4	2,862.18
8		8		8		8	4,299.92	8	4,091.27	8	3,882.26	8	3,672.50	8	3,463.01	8	3,196.57	8	2,855.07
1/4		1/4		1/4		1/4	4,295.60	1/4	4,086.92	1/4	3,877.89	1/4	3,668.13	1/4	3,458.65	1/4	3,189.48	1/4	2,847.95
1/2		1/2		1/2		1/2	4,291.27	1/2	4,082.57	1/2	3,873.52	1/2	3,663.76	1/2	3,454.30	1/2	3,182.38	1/2	2,840.83
3/4		3/4		3/4		3/4	4,286.95	3/4	4,078.22	3/4	3,869.15	3/4	3,659.39	3/4	3,449.95	3/4	3,175.29	3/4	2,833.72
9		9		9		9	4,282.63	9	4,073.87	9	3,864.78	9	3,655.02	9	3,445.59	9	3,168.19	9	2,826.60
1/4		1/4		1/4		1/4	4,278.30	1/4	4,069.52	1/4	3,860.41	1/4	3,650.65	1/4	3,441.24	1/4	3,161.10	1/4	2,819.48
1/2		1/2		1/2		1/2	4,273.97	1/2	4,065.17	1/2	3,856.04	1/2	3,646.28	1/2	3,436.88	1/2	3,154.00	1/2	2,812.37
3/4		3/4		3/4		3/4	4,269.63	3/4	4,060.82	3/4	3,851.67	3/4	3,641.91	3/4	3,432.53	3/4	3,146.91	3/4	2,805.25
10		10		10		10	4,265.29	10	4,056.46	10	3,847.30	10	3,637.54	10	3,428.17	10	3,139.81	10	2,798.13
1/4		1/4		1/4		1/4	4,260.96	1/4	4,052.11	1/4	3,842.93	1/4	3,633.17	1/4	3,423.82	1/4	3,132.72	1/4	2,791.02
1/2		1/2		1/2		1/2	4,256.61	1/2	4,047.76	1/2	3,838.56	1/2	3,628.80	1/2	3,419.47	1/2	3,125.61	1/2	2,783.90
3/4		3/4		3/4		3/4	4,252.25	3/4	4,043.41	3/4	3,834.19	3/4	3,624.43	3/4	3,415.11	3/4	3,118.51	3/4	2,776.78
11		11		11		11	4,247.90	11	4,039.06	11	3,829.82	11	3,620.06	11	3,410.76	11	3,111.40	11	2,769.67
1/4		1/4		1/4	4,399.86	1/4	4,243.55	1/4	4,034.71	1/4	3,825.45	1/4	3,615.69	1/4	3,406.40	1/4	3,104.30	1/4	2,762.55
1/2		1/2		1/2	4,398.78	1/2	4,239.20	1/2	4,030.36	1/2	3,821.08	1/2	3,611.32	1/2	3,402.05	1/2	3,097.19	1/2	2,755.43
3/4		3/4		3/4	4,397.71	3/4	4,234.85	3/4	4,026.01	3/4	3,816.71	3/4	3,606.95	3/4	3,397.69	3/4	3,090.07	3/4	2,748.32

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

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	2,741.20	0	2,399.59	0	2,057.95	0	1,716.31	0	1,374.67	0	1,036.71	0	705.53	0	363.82	0	28.89	0	
1/4	2,734.09	1/4	2,392.47	1/4	2,050.83	1/4	1,709.19	1/4	1,367.55	1/4	1,029.90	1/4	698.42	1/4	356.69	1/4	23.54	1/4	
1/2	2,726.97	1/2	2,385.36	1/2	2,043.72	1/2	1,702.08	1/2	1,360.44	1/2	1,023.09	1/2	691.30	1/2	349.56	1/2	19.97	1/2	
3/4	2,719.85	3/4	2,378.24	3/4	2,036.60	3/4	1,694.96	3/4	1,353.32	3/4	1,016.28	3/4	684.18	3/4	342.43	3/4	16.41	3/4	
1	2,712.74	1	2,371.12	1	2,029.48	1	1,687.84	1	1,346.20	1	1,009.48	1	677.06	1	335.30	1	12.84	1	
1/4	2,705.62	1/4	2,364.00	1/4	2,022.36	1/4	1,680.72	1/4	1,339.08	1/4	1,002.67	1/4	669.94	1/4	328.17	1/4	9.28	1/4	
1/2	2,698.50	1/2	2,356.89	1/2	2,015.25	1/2	1,673.61	1/2	1,331.97	1/2	995.86	1/2	662.82	1/2	321.04	1/2	7.50	1/2	
3/4	2,691.39	3/4	2,349.77	3/4	2,008.13	3/4	1,666.49	3/4	1,324.85	3/4	989.05	3/4	655.70	3/4	313.91	3/4	5.71	3/4	
2	2,684.27	2	2,342.65	2	2,001.01	2	1,659.37	2	1,317.73	2	982.24	2	648.58	2	306.78	2	3.93	2	
1/4	2,677.15	1/4	2,335.53	1/4	1,993.89	1/4	1,652.25	1/4	1,310.61	1/4	975.43	1/4	641.46	1/4	299.65	1/4	2.15	1/4	
1/2	2,670.04	1/2	2,328.42	1/2	1,986.78	1/2	1,645.14	1/2	1,303.50	1/2	968.63	1/2	634.35	1/2	292.52	1/2		1/2	
3/4	2,662.92	3/4	2,321.30	3/4	1,979.66	3/4	1,638.02	3/4	1,296.38	3/4	961.82	3/4	627.23	3/4	285.39	3/4		3/4	
3	2,655.80	3	2,314.18	3	1,972.54	3	1,630.90	3	1,289.26	3	955.01	3	620.11	3	278.26	3		3	
1/4	2,648.69	1/4	2,307.06	1/4	1,965.42	1/4	1,623.78	1/4	1,282.14	1/4	948.20	1/4	612.99	1/4	271.12	1/4		1/4	
1/2	2,641.57	1/2	2,299.95	1/2	1,958.31	1/2	1,616.67	1/2	1,275.03	1/2	941.39	1/2	605.87	1/2	263.99	1/2		1/2	
3/4	2,634.45	3/4	2,292.83	3/4	1,951.19	3/4	1,609.55	3/4	1,267.91	3/4	934.59	3/4	598.75	3/4	256.86	3/4		3/4	
4	2,627.34	4	2,285.71	4	1,944.07	4	1,602.43	4	1,260.79	4	927.78	4	591.63	4	249.73	4		4	
1/4	2,620.22	1/4	2,278.59	1/4	1,936.95	1/4	1,595.31	1/4	1,253.67	1/4	920.97	1/4	584.51	1/4	242.60	1/4		1/4	
1/2	2,613.10	1/2	2,271.48	1/2	1,929.84	1/2	1,588.20	1/2	1,246.56	1/2	914.16	1/2	577.40	1/2	235.47	1/2		1/2	
3/4	2,605.99	3/4	2,264.36	3/4	1,922.72	3/4	1,581.08	3/4	1,239.44	3/4	907.35	3/4	570.28	3/4	228.34	3/4		3/4	
5	2,598.87	5	2,257.24	5	1,915.60	5	1,573.96	5	1,232.32	5	900.55	5	563.16	5	221.21	5		5	
1/4	2,591.75	1/4	2,250.12	1/4	1,908.48	1/4	1,566.84	1/4	1,225.20	1/4	893.74	1/4	556.04	1/4	214.08	1/4		1/4	
1/2	2,584.64	1/2	2,243.01	1/2	1,901.37	1/2	1,559.73	1/2	1,218.09	1/2	886.93	1/2	548.92	1/2	206.95	1/2		1/2	
3/4	2,577.52	3/4	2,235.89	3/4	1,894.25	3/4	1,552.61	3/4	1,210.97	3/4	880.12	3/4	541.80	3/4	199.82	3/4		3/4	
6	2,570.40	6	2,228.77	6	1,887.13	6	1,545.49	6	1,203.85	6	873.32	6	534.68	6	192.69	6		6	
1/4	2,563.29	1/4	2,221.65	1/4	1,880.01	1/4	1,538.37	1/4	1,196.73	1/4	866.51	1/4	527.56	1/4	185.56	1/4		1/4	
1/2	2,556.17	1/2	2,214.54	1/2	1,872.90	1/2	1,531.26	1/2	1,189.62	1/2	859.70	1/2	520.45	1/2	178.43	1/2		1/2	
3/4	2,549.05	3/4	2,207.42	3/4	1,865.78	3/4	1,524.14	3/4	1,182.50	3/4	852.88	3/4	513.33	3/4	171.30	3/4		3/4	
7	2,541.94	7	2,200.30	7	1,858.66	7	1,517.02	7	1,175.38	7	846.07	7	506.21	7	164.17	7		7	
1/4	2,534.82	1/4	2,193.18	1/4	1,851.54	1/4	1,509.90	1/4	1,168.26	1/4	839.26	1/4	499.09	1/4	157.04	1/4		1/4	
1/2	2,527.70	1/2	2,186.07	1/2	1,844.43	1/2	1,502.79	1/2	1,161.15	1/2	832.41	1/2	491.97	1/2	149.91	1/2		1/2	
3/4	2,520.59	3/4	2,178.95	3/4	1,837.31	3/4	1,495.67	3/4	1,154.03	3/4	825.56	3/4	484.85	3/4	142.78	3/4		3/4	
8	2,513.47	8	2,171.83	8	1,830.19	8	1,488.55	8	1,146.91	8	818.70	8	477.73	8	135.65	8		8	
1/4	2,506.35	1/4	2,164.71	1/4	1,823.07	1/4	1,481.43	1/4	1,139.79	1/4	811.85	1/4	470.61	1/4	128.52	1/4		1/4	
1/2	2,499.24	1/2	2,157.60	1/2	1,815.96	1/2	1,474.32	1/2	1,132.79	1/2	804.85	1/2	463.49	1/2	121.39	1/2		1/2	
3/4	2,492.12	3/4	2,150.48	3/4	1,808.84	3/4	1,467.20	3/4	1,125.79	3/4	797.85	3/4	456.38	3/4	114.27	3/4		3/4	
9	2,485.00	9	2,143.36	9	1,801.72	9	1,460.08	9	1,118.79	9	790.84	9	449.26	9	107.14	9		9	
1/4	2,477.88	1/4	2,136.24	1/4	1,794.60	1/4	1,452.96	1/4	1,111.79	1/4	783.84	1/4	442.14	1/4	100.02	1/4		1/4	
1/2	2,470.77	1/2	2,129.13	1/2	1,787.49	1/2	1,445.85	1/2	1,104.93	1/2	776.72	1/2	435.02	1/2	92.91	1/2		1/2	
3/4	2,463.65	3/4	2,122.01	3/4	1,780.37	3/4	1,438.73	3/4	1,098.08	3/4	769.60	3/4	427.90	3/4	85.81	3/4		3/4	
10	2,456.53	10	2,114.89	10	1,773.25	10	1,431.61	10	1,091.23	10	762.48	10	420.78	10	78.70	10		10	
1/4	2,449.41	1/4	2,107.77	1/4	1,766.13	1/4	1,424.49	1/4	1,084.38	1/4	755.37	1/4	413.66	1/4	71.59	1/4		1/4	
1/2	2,442.30	1/2	2,100.66	1/2	1,759.02	1/2	1,417.38	1/2	1,077.57	1/2	748.25	1/2	406.54	1/2	64.93	1/2		1/2	
3/4	2,435.18	3/4	2,093.54	3/4	1,751.90	3/4	1,410.26	3/4	1,070.76	3/4	741.13	3/4	399.43	3/4	58.26	3/4		3/4	
11	2,428.06	11	2,086.42	11	1,744.78	11	1,403.14	11	1,063.94	11	734.01	11	392.31	11	51.59	11		11	
1/4	2,420.94	1/4	2,079.30	1/4	1,737.66	1/4	1,396.02	1/4	1,057.13	1/4	726.89	1/4	385.19	1/4	44.93	1/4		1/4	
1/2	2,413.83	1/2	2,072.19	1/2	1,730.55	1/2	1,388.91	1/2	1,050.32	1/2	719.77	1/2	378.06	1/2	39.58	1/2		1/2	
3/4	2,406.71	3/4	2,065.07	3/4	1,723.43	3/4	1,381.79	3/4	1,043.52	3/4	712.65	3/4	370.94	3/4	34.23	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

3 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,410.07	0	4,244.01	0	4,035.26	0	3,826.03	0	3,616.37	0	3,406.70	0	3,096.64
1/4		1/4		1/4		1/4	4,409.00	1/4	4,239.66	1/4	4,030.91	1/4	3,821.66	1/4	3,612.00	1/4	3,402.33	1/4	3,089.53
1/2		1/2		1/2		1/2	4,407.29	1/2	4,235.31	1/2	4,026.56	1/2	3,817.29	1/2	3,607.63	1/2	3,397.98	1/2	3,082.43
3/4		3/4		3/4		3/4	4,405.58	3/4	4,230.96	3/4	4,022.21	3/4	3,812.93	3/4	3,603.26	3/4	3,393.63	3/4	3,075.33
1		1		1		1	4,403.88	1	4,226.61	1	4,017.86	1	3,808.56	1	3,598.89	1	3,389.28	1	3,068.22
1/4		1/4		1/4		1/4	4,402.17	1/4	4,222.26	1/4	4,013.51	1/4	3,804.19	1/4	3,594.53	1/4	3,384.93	1/4	3,061.12
1/2		1/2		1/2		1/2	4,400.47	1/2	4,217.92	1/2	4,009.16	1/2	3,799.82	1/2	3,590.16	1/2	3,380.60	1/2	3,054.01
3/4		3/4		3/4		3/4	4,398.76	3/4	4,213.57	3/4	4,004.81	3/4	3,795.45	3/4	3,585.79	3/4	3,376.27	3/4	3,046.91
2		2		2		2	4,397.05	2	4,209.22	2	4,000.47	2	3,791.09	2	3,581.42	2	3,371.93	2	3,039.81
1/4		1/4		1/4		1/4	4,395.35	1/4	4,204.87	1/4	3,996.12	1/4	3,786.72	1/4	3,577.05	1/4	3,367.60	1/4	3,032.70
1/2		1/2		1/2		1/2	4,393.37	1/2	4,200.52	1/2	3,991.77	1/2	3,782.35	1/2	3,572.69	1/2	3,361.89	1/2	3,025.60
3/4		3/4		3/4		3/4	4,391.40	3/4	4,196.17	3/4	3,987.42	3/4	3,777.98	3/4	3,568.32	3/4	3,356.18	3/4	3,018.49
3		3		3		3	4,389.42	3	4,191.82	3	3,983.07	3	3,773.61	3	3,563.95	3	3,350.47	3	3,011.39
1/4		1/4		1/4		1/4	4,387.45	1/4	4,187.47	1/4	3,978.72	1/4	3,769.25	1/4	3,559.58	1/4	3,344.76	1/4	3,004.29
1/2		1/2		1/2		1/2	4,384.61	1/2	4,183.12	1/2	3,974.37	1/2	3,764.88	1/2	3,555.21	1/2	3,337.68	1/2	2,997.18
3/4		3/4		3/4		3/4	4,381.77	3/4	4,178.77	3/4	3,970.02	3/4	3,760.51	3/4	3,550.85	3/4	3,330.59	3/4	2,990.08
4		4		4		4	4,378.93	4	4,174.43	4	3,965.67	4	3,756.14	4	3,546.48	4	3,323.50	4	2,982.97
1/4		1/4		1/4		1/4	4,376.09	1/4	4,170.08	1/4	3,961.32	1/4	3,751.77	1/4	3,542.11	1/4	3,316.42	1/4	2,975.87
1/2		1/2		1/2		1/2	4,372.25	1/2	4,165.73	1/2	3,956.98	1/2	3,747.41	1/2	3,537.74	1/2	3,309.33	1/2	2,968.77
3/4		3/4		3/4		3/4	4,368.41	3/4	4,161.38	3/4	3,952.63	3/4	3,743.04	3/4	3,533.37	3/4	3,302.24	3/4	2,961.66
5		5		5		5	4,364.57	5	4,157.03	5	3,948.28	5	3,738.67	5	3,529.01	5	3,295.16	5	2,954.56
1/4		1/4		1/4		1/4	4,360.73	1/4	4,152.68	1/4	3,943.93	1/4	3,734.30	1/4	3,524.64	1/4	3,288.07	1/4	2,947.45
1/2		1/2		1/2		1/2	4,356.45	1/2	4,148.33	1/2	3,939.57	1/2	3,729.93	1/2	3,520.27	1/2	3,280.98	1/2	2,940.35
3/4		3/4		3/4		3/4	4,352.17	3/4	4,143.98	3/4	3,935.21	3/4	3,725.57	3/4	3,515.90	3/4	3,273.90	3/4	2,933.24
6		6		6		6	4,347.89	6	4,139.63	6	3,930.85	6	3,721.20	6	3,511.53	6	3,266.81	6	2,926.14
1/4		1/4		1/4		1/4	4,343.61	1/4	4,135.28	1/4	3,926.49	1/4	3,716.83	1/4	3,507.17	1/4	3,259.72	1/4	2,919.04
1/2		1/2		1/2		1/2	4,339.29	1/2	4,130.94	1/2	3,922.13	1/2	3,712.46	1/2	3,502.80	1/2	3,252.64	1/2	2,911.93
3/4		3/4		3/4		3/4	4,334.98	3/4	4,126.59	3/4	3,917.76	3/4	3,708.09	3/4	3,498.43	3/4	3,245.55	3/4	2,904.83
7		7		7		7	4,330.67	7	4,122.24	7	3,913.39	7	3,703.73	7	3,494.06	7	3,238.46	7	2,897.72
1/4		1/4		1/4		1/4	4,326.36	1/4	4,117.89	1/4	3,909.02	1/4	3,699.36	1/4	3,489.69	1/4	3,231.38	1/4	2,890.62
1/2		1/2		1/2		1/2	4,322.04	1/2	4,113.54	1/2	3,904.65	1/2	3,694.99	1/2	3,485.33	1/2	3,224.29	1/2	2,883.52
3/4		3/4		3/4		3/4	4,317.72	3/4	4,109.19	3/4	3,900.29	3/4	3,690.62	3/4	3,480.96	3/4	3,217.20	3/4	2,876.41
8		8		8		8	4,313.40	8	4,104.84	8	3,895.92	8	3,686.25	8	3,476.59	8	3,210.11	8	2,869.31
1/4		1/4		1/4		1/4	4,309.08	1/4	4,100.49	1/4	3,891.55	1/4	3,681.89	1/4	3,472.22	1/4	3,203.03	1/4	2,862.20
1/2		1/2		1/2		1/2	4,304.76	1/2	4,096.14	1/2	3,887.18	1/2	3,677.52	1/2	3,467.85	1/2	3,195.94	1/2	2,855.10
3/4		3/4		3/4		3/4	4,300.43	3/4	4,091.79	3/4	3,882.81	3/4	3,673.15	3/4	3,463.49	3/4	3,188.85	3/4	2,848.00
9		9		9		9	4,296.11	9	4,087.45	9	3,878.45	9	3,668.78	9	3,459.12	9	3,181.77	9	2,840.89
1/4		1/4		1/4		1/4	4,291.79	1/4	4,083.10	1/4	3,874.08	1/4	3,664.41	1/4	3,454.75	1/4	3,174.68	1/4	2,833.79
1/2		1/2		1/2		1/2	4,287.46	1/2	4,078.75	1/2	3,869.71	1/2	3,660.05	1/2	3,450.38	1/2	3,167.59	1/2	2,826.68
3/4		3/4		3/4		3/4	4,283.12	3/4	4,074.40	3/4	3,865.34	3/4	3,655.68	3/4	3,446.01	3/4	3,160.51	3/4	2,819.58
10		10		10		10	4,278.79	10	4,070.05	10	3,860.97	10	3,651.31	10	3,441.65	10	3,153.42	10	2,812.47
1/4		1/4		1/4		1/4	4,274.45	1/4	4,065.70	1/4	3,856.61	1/4	3,646.94	1/4	3,437.28	1/4	3,146.33	1/4	2,805.37
1/2		1/2		1/2		1/2	4,270.10	1/2	4,061.35	1/2	3,852.24	1/2	3,642.57	1/2	3,432.91	1/2	3,139.24	1/2	2,798.27
3/4		3/4		3/4		3/4	4,265.75	3/4	4,057.00	3/4	3,847.87	3/4	3,638.21	3/4	3,428.54	3/4	3,132.14	3/4	2,791.16
11		11		11		11	4,261.41	11	4,052.65	11	3,843.50	11	3,633.84	11	3,424.17	11	3,125.05	11	2,784.06
1/4		1/4		1/4	4,413.30	1/4	4,257.06	1/4	4,048.30	1/4	3,839.13	1/4	3,629.47	1/4	3,419.81	1/4	3,117.95	1/4	2,776.95
1/2		1/2		1/2	4,412.22	1/2	4,252.71	1/2	4,043.96	1/2	3,834.77	1/2	3,625.10	1/2	3,415.44	1/2	3,110.85	1/2	2,769.85
3/4		3/4		3/4	4,411.15	3/4	4,248.36	3/4	4,039.61	3/4	3,830.40	3/4	3,620.73	3/4	3,411.07	3/4	3,103.74	3/4	2,762.75

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "MPX 419"

3 STBD

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	2,755.64	0	2,414.10	0	2,072.23	0	1,730.36	0	1,388.49	0	1,046.72	0	705.26	0	363.39	0	28.85	0	
1/4	2,748.54	1/4	2,406.98	1/4	2,065.11	1/4	1,723.24	1/4	1,381.37	1/4	1,039.61	1/4	698.13	1/4	356.27	1/4	23.51	1/4	
1/2	2,741.43	1/2	2,399.86	1/2	2,057.99	1/2	1,716.12	1/2	1,374.25	1/2	1,032.50	1/2	691.01	1/2	349.15	1/2	19.95	1/2	
3/4	2,734.33	3/4	2,392.74	3/4	2,050.87	3/4	1,709.00	3/4	1,367.13	3/4	1,025.39	3/4	683.89	3/4	342.03	3/4	16.39	3/4	
1	2,727.23	1	2,385.61	1	2,043.74	1	1,701.87	1	1,360.00	1	1,018.28	1	676.77	1	334.91	1	12.83	1	
1/4	2,720.12	1/4	2,378.49	1/4	2,036.62	1/4	1,694.75	1/4	1,352.88	1/4	1,011.17	1/4	669.65	1/4	327.78	1/4	9.27	1/4	
1/2	2,713.02	1/2	2,371.37	1/2	2,029.50	1/2	1,687.63	1/2	1,345.76	1/2	1,004.07	1/2	662.52	1/2	320.66	1/2	7.49	1/2	
3/4	2,705.91	3/4	2,364.25	3/4	2,022.38	3/4	1,680.51	3/4	1,338.64	3/4	996.96	3/4	655.40	3/4	313.54	3/4	5.71	3/4	
2	2,698.81	2	2,357.13	2	2,015.26	2	1,673.38	2	1,331.51	2	989.85	2	648.28	2	306.42	2	3.93	2	
1/4	2,691.71	1/4	2,350.00	1/4	2,008.13	1/4	1,666.26	1/4	1,324.39	1/4	982.74	1/4	641.16	1/4	299.30	1/4	2.15	1/4	
1/2	2,684.60	1/2	2,342.88	1/2	2,001.01	1/2	1,659.14	1/2	1,317.27	1/2	975.63	1/2	634.03	1/2	292.17	1/2		1/2	
3/4	2,677.50	3/4	2,335.76	3/4	1,993.89	3/4	1,652.02	3/4	1,310.15	3/4	968.52	3/4	626.91	3/4	285.05	3/4		3/4	
3	2,670.39	3	2,328.64	3	1,986.77	3	1,644.90	3	1,303.03	3	961.42	3	619.79	3	277.93	3		3	
1/4	2,663.29	1/4	2,321.51	1/4	1,979.64	1/4	1,637.77	1/4	1,295.90	1/4	954.31	1/4	612.67	1/4	270.81	1/4		1/4	
1/2	2,656.18	1/2	2,314.39	1/2	1,972.52	1/2	1,630.65	1/2	1,288.78	1/2	947.20	1/2	605.55	1/2	263.69	1/2		1/2	
3/4	2,649.08	3/4	2,307.27	3/4	1,965.40	3/4	1,623.53	3/4	1,281.66	3/4	940.09	3/4	598.42	3/4	256.56	3/4		3/4	
4	2,641.98	4	2,300.15	4	1,958.28	4	1,616.41	4	1,274.54	4	932.98	4	591.30	4	249.44	4		4	
1/4	2,634.87	1/4	2,293.02	1/4	1,951.15	1/4	1,609.28	1/4	1,267.41	1/4	925.88	1/4	584.18	1/4	242.32	1/4		1/4	
1/2	2,627.76	1/2	2,285.90	1/2	1,944.03	1/2	1,602.16	1/2	1,260.29	1/2	918.77	1/2	577.06	1/2	235.20	1/2		1/2	
3/4	2,620.65	3/4	2,278.78	3/4	1,936.91	3/4	1,595.04	3/4	1,253.17	3/4	911.66	3/4	569.94	3/4	228.07	3/4		3/4	
5	2,613.53	5	2,271.66	5	1,929.79	5	1,587.92	5	1,246.05	5	904.55	5	562.81	5	220.95	5		5	
1/4	2,606.42	1/4	2,264.54	1/4	1,922.67	1/4	1,580.79	1/4	1,238.92	1/4	897.44	1/4	555.69	1/4	213.83	1/4		1/4	
1/2	2,599.30	1/2	2,257.41	1/2	1,915.54	1/2	1,573.67	1/2	1,231.80	1/2	890.33	1/2	548.57	1/2	206.71	1/2		1/2	
3/4	2,592.17	3/4	2,250.29	3/4	1,908.42	3/4	1,566.55	3/4	1,224.68	3/4	883.23	3/4	541.45	3/4	199.59	3/4		3/4	
6	2,585.05	6	2,243.17	6	1,901.30	6	1,559.43	6	1,217.56	6	876.12	6	534.33	6	192.46	6		6	
1/4	2,577.93	1/4	2,236.05	1/4	1,894.18	1/4	1,552.31	1/4	1,210.44	1/4	869.01	1/4	527.20	1/4	185.34	1/4		1/4	
1/2	2,570.80	1/2	2,228.92	1/2	1,887.05	1/2	1,545.18	1/2	1,203.31	1/2	861.90	1/2	520.08	1/2	178.22	1/2		1/2	
3/4	2,563.68	3/4	2,221.80	3/4	1,879.93	3/4	1,538.06	3/4	1,196.19	3/4	854.79	3/4	512.96	3/4	171.10	3/4		3/4	
7	2,556.56	7	2,214.68	7	1,872.81	7	1,530.94	7	1,189.07	7	847.67	7	505.84	7	163.98	7		7	
1/4	2,549.43	1/4	2,207.56	1/4	1,865.69	1/4	1,523.82	1/4	1,181.95	1/4	840.56	1/4	498.71	1/4	156.85	1/4		1/4	
1/2	2,542.31	1/2	2,200.43	1/2	1,858.56	1/2	1,516.69	1/2	1,174.82	1/2	833.44	1/2	491.59	1/2	149.73	1/2		1/2	
3/4	2,535.19	3/4	2,193.31	3/4	1,851.44	3/4	1,509.57	3/4	1,167.70	3/4	826.32	3/4	484.47	3/4	142.61	3/4		3/4	
8	2,528.06	8	2,186.19	8	1,844.32	8	1,502.45	8	1,160.58	8	819.21	8	477.35	8	135.49	8		8	
1/4	2,520.94	1/4	2,179.07	1/4	1,837.20	1/4	1,495.33	1/4	1,153.46	1/4	812.09	1/4	470.23	1/4	128.37	1/4		1/4	
1/2	2,513.82	1/2	2,171.95	1/2	1,830.08	1/2	1,488.20	1/2	1,146.33	1/2	804.97	1/2	463.10	1/2	121.25	1/2		1/2	
3/4	2,506.69	3/4	2,164.82	3/4	1,822.95	3/4	1,481.08	3/4	1,139.21	3/4	797.84	3/4	455.98	3/4	114.14	3/4		3/4	
9	2,499.57	9	2,157.70	9	1,815.83	9	1,473.96	9	1,132.09	9	790.72	9	448.86	9	107.02	9		9	
1/4	2,492.45	1/4	2,150.58	1/4	1,808.71	1/4	1,466.84	1/4	1,124.97	1/4	783.60	1/4	441.74	1/4	99.90	1/4		1/4	
1/2	2,485.33	1/2	2,143.46	1/2	1,801.59	1/2	1,459.72	1/2	1,117.85	1/2	776.48	1/2	434.62	1/2	92.81	1/2		1/2	
3/4	2,478.20	3/4	2,136.33	3/4	1,794.46	3/4	1,452.59	3/4	1,110.73	3/4	769.35	3/4	427.49	3/4	85.71	3/4		3/4	
10	2,471.08	10	2,129.21	10	1,787.34	10	1,445.47	10	1,103.61	10	762.23	10	420.37	10	78.61	10		10	
1/4	2,463.96	1/4	2,122.09	1/4	1,780.22	1/4	1,438.35	1/4	1,096.49	1/4	755.11	1/4	413.25	1/4	71.51	1/4		1/4	
1/2	2,456.84	1/2	2,114.97	1/2	1,773.10	1/2	1,431.23	1/2	1,089.38	1/2	747.99	1/2	406.13	1/2	64.85	1/2		1/2	
3/4	2,449.72	3/4	2,107.84	3/4	1,765.97	3/4	1,424.10	3/4	1,082.27	3/4	740.87	3/4	399.01	3/4	58.19	3/4		3/4	
11	2,442.59	11	2,100.72	11	1,758.85	11	1,416.98	11	1,075.15	11	733.74	11	391.88	11	51.53	11		11	
1/4	2,435.47	1/4	2,093.60	1/4	1,751.73	1/4	1,409.86	1/4	1,068.04	1/4	726.62	1/4	384.76	1/4	44.88	1/4		1/4	
1/2	2,428.35	1/2	2,086.48	1/2	1,744.61	1/2	1,402.74	1/2	1,060.93	1/2	719.50	1/2	377.64	1/2	39.54	1/2		1/2	
3/4	2,421.23	3/4	2,079.36	3/4	1,737.49	3/4	1,395.61	3/4	1,053.82	3/4	712.38	3/4	370.52	3/4	34.19	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED:05/27/2021 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

PORT SLOP

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,110	0	2,219	0	3,329	0	4,438	0	5,548	0		0		0		0	
1/4	23	1/4	1,133	1/4	2,242	1/4	3,352	1/4	4,461	1/4	5,571	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,156	1/2	2,265	1/2	3,375	1/2	4,484	1/2	5,594	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,179	3/4	2,288	3/4	3,398	3/4	4,507	3/4	5,617	3/4		3/4		3/4		3/4	
1	92	1	1,202	1	2,311	1	3,421	1	4,530	1		1		1		1		1	
1/4	116	1/4	1,225	1/4	2,335	1/4	3,444	1/4	4,554	1/4		1/4		1/4		1/4		1/4	
1/2	139	1/2	1,248	1/2	2,358	1/2	3,467	1/2	4,577	1/2		1/2		1/2		1/2		1/2	
3/4	162	3/4	1,271	3/4	2,381	3/4	3,490	3/4	4,600	3/4		3/4		3/4		3/4		3/4	
2	185	2	1,294	2	2,404	2	3,513	2	4,623	2		2		2		2		2	
1/4	208	1/4	1,318	1/4	2,427	1/4	3,537	1/4	4,646	1/4		1/4		1/4		1/4		1/4	
1/2	231	1/2	1,341	1/2	2,450	1/2	3,560	1/2	4,669	1/2		1/2		1/2		1/2		1/2	
3/4	254	3/4	1,364	3/4	2,473	3/4	3,583	3/4	4,692	3/4		3/4		3/4		3/4		3/4	
3	277	3	1,387	3	2,496	3	3,606	3	4,715	3		3		3		3		3	
1/4	300	1/4	1,410	1/4	2,519	1/4	3,629	1/4	4,738	1/4		1/4		1/4		1/4		1/4	
1/2	324	1/2	1,433	1/2	2,543	1/2	3,652	1/2	4,762	1/2		1/2		1/2		1/2		1/2	
3/4	347	3/4	1,456	3/4	2,566	3/4	3,675	3/4	4,785	3/4		3/4		3/4		3/4		3/4	
4	370	4	1,479	4	2,589	4	3,698	4	4,808	4		4		4		4		4	
1/4	393	1/4	1,502	1/4	2,612	1/4	3,721	1/4	4,831	1/4		1/4		1/4		1/4		1/4	
1/2	416	1/2	1,526	1/2	2,635	1/2	3,745	1/2	4,854	1/2		1/2		1/2		1/2		1/2	
3/4	439	3/4	1,549	3/4	2,658	3/4	3,768	3/4	4,877	3/4		3/4		3/4		3/4		3/4	
5	462	5	1,572	5	2,681	5	3,791	5	4,900	5		5		5		5		5	
1/4	485	1/4	1,595	1/4	2,704	1/4	3,814	1/4	4,923	1/4		1/4		1/4		1/4		1/4	
1/2	509	1/2	1,618	1/2	2,728	1/2	3,837	1/2	4,947	1/2		1/2		1/2		1/2		1/2	
3/4	532	3/4	1,641	3/4	2,751	3/4	3,860	3/4	4,970	3/4		3/4		3/4		3/4		3/4	
6	555	6	1,664	6	2,774	6	3,883	6	4,993	6		6		6		6		6	
1/4	578	1/4	1,687	1/4	2,797	1/4	3,906	1/4	5,016	1/4		1/4		1/4		1/4		1/4	
1/2	601	1/2	1,710	1/2	2,820	1/2	3,929	1/2	5,039	1/2		1/2		1/2		1/2		1/2	
3/4	624	3/4	1,734	3/4	2,843	3/4	3,953	3/4	5,062	3/4		3/4		3/4		3/4		3/4	
7	647	7	1,757	7	2,866	7	3,976	7	5,085	7		7		7		7		7	
1/4	670	1/4	1,780	1/4	2,889	1/4	3,999	1/4	5,108	1/4		1/4		1/4		1/4		1/4	
1/2	693	1/2	1,803	1/2	2,912	1/2	4,022	1/2	5,131	1/2		1/2		1/2		1/2		1/2	
3/4	717	3/4	1,826	3/4	2,936	3/4	4,045	3/4	5,155	3/4		3/4		3/4		3/4		3/4	
8	740	8	1,849	8	2,959	8	4,068	8	5,178	8		8		8		8		8	
1/4	763	1/4	1,872	1/4	2,982	1/4	4,091	1/4	5,201	1/4		1/4		1/4		1/4		1/4	
1/2	786	1/2	1,895	1/2	3,005	1/2	4,114	1/2	5,224	1/2		1/2		1/2		1/2		1/2	
3/4	809	3/4	1,919	3/4	3,028	3/4	4,138	3/4	5,247	3/4		3/4		3/4		3/4		3/4	
9	832	9	1,942	9	3,051	9	4,161	9	5,270	9		9		9		9		9	
1/4	855	1/4	1,965	1/4	3,074	1/4	4,184	1/4	5,293	1/4		1/4		1/4		1/4		1/4	
1/2	878	1/2	1,988	1/2	3,097	1/2	4,207	1/2	5,316	1/2		1/2		1/2		1/2		1/2	
3/4	901	3/4	2,011	3/4	3,120	3/4	4,230	3/4	5,339	3/4		3/4		3/4		3/4		3/4	
10	925	10	2,034	10	3,144	10	4,253	10	5,363	10		10		10		10		10	
1/4	948	1/4	2,057	1/4	3,167	1/4	4,276	1/4	5,386	1/4		1/4		1/4		1/4		1/4	
1/2	971	1/2	2,080	1/2	3,190	1/2	4,299	1/2	5,409	1/2		1/2		1/2		1/2		1/2	
3/4	994	3/4	2,103	3/4	3,213	3/4	4,322	3/4	5,432	3/4		3/4		3/4		3/4		3/4	
11	1,017	11	2,127	11	3,236	11	4,346	11	5,455	11		11		11		11		11	
1/4	1,040	1/4	2,150	1/4	3,259	1/4	4,369	1/4	5,478	1/4		1/4		1/4		1/4		1/4	
1/2	1,063	1/2	2,173	1/2	3,282	1/2	4,392	1/2	5,501	1/2		1/2		1/2		1/2		1/2	
3/4	1,086	3/4	2,196	3/4	3,305	3/4	4,415	3/4	5,524	3/4		3/4		3/4		3/4		3/4	

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 2" DIAMETER "HERMETIC" VALVE.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

STBD 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	1,103	0	2,206	0	3,309	0	4,412	0	5,515	0		0		0		0	
1/4	23	1/4	1,126	1/4	2,229	1/4	3,332	1/4	4,435	1/4	5,538	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,149	1/2	2,252	1/2	3,355	1/2	4,458	1/2	5,561	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,172	3/4	2,275	3/4	3,378	3/4	4,481	3/4	5,584	3/4		3/4		3/4		3/4	
1	92	1	1,195	1	2,298	1	3,401	1	4,504	1		1		1		1		1	
1/4	115	1/4	1,218	1/4	2,321	1/4	3,424	1/4	4,527	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,241	1/2	2,344	1/2	3,447	1/2	4,550	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,264	3/4	2,367	3/4	3,470	3/4	4,573	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,287	2	2,390	2	3,493	2	4,595	2		2		2		2		2	
1/4	207	1/4	1,310	1/4	2,413	1/4	3,516	1/4	4,618	1/4		1/4		1/4		1/4		1/4	
1/2	230	1/2	1,333	1/2	2,436	1/2	3,539	1/2	4,641	1/2		1/2		1/2		1/2		1/2	
3/4	253	3/4	1,356	3/4	2,459	3/4	3,562	3/4	4,664	3/4		3/4		3/4		3/4		3/4	
3	276	3	1,379	3	2,482	3	3,584	3	4,687	3		3		3		3		3	
1/4	299	1/4	1,402	1/4	2,505	1/4	3,607	1/4	4,710	1/4		1/4		1/4		1/4		1/4	
1/2	322	1/2	1,425	1/2	2,528	1/2	3,630	1/2	4,733	1/2		1/2		1/2		1/2		1/2	
3/4	345	3/4	1,448	3/4	2,551	3/4	3,653	3/4	4,756	3/4		3/4		3/4		3/4		3/4	
4	368	4	1,471	4	2,573	4	3,676	4	4,779	4		4		4		4		4	
1/4	391	1/4	1,494	1/4	2,596	1/4	3,699	1/4	4,802	1/4		1/4		1/4		1/4		1/4	
1/2	414	1/2	1,517	1/2	2,619	1/2	3,722	1/2	4,825	1/2		1/2		1/2		1/2		1/2	
3/4	437	3/4	1,539	3/4	2,642	3/4	3,745	3/4	4,848	3/4		3/4		3/4		3/4		3/4	
5	460	5	1,562	5	2,665	5	3,768	5	4,871	5		5		5		5		5	
1/4	483	1/4	1,585	1/4	2,688	1/4	3,791	1/4	4,894	1/4		1/4		1/4		1/4		1/4	
1/2	506	1/2	1,608	1/2	2,711	1/2	3,814	1/2	4,917	1/2		1/2		1/2		1/2		1/2	
3/4	528	3/4	1,631	3/4	2,734	3/4	3,837	3/4	4,940	3/4		3/4		3/4		3/4		3/4	
6	551	6	1,654	6	2,757	6	3,860	6	4,963	6		6		6		6		6	
1/4	574	1/4	1,677	1/4	2,780	1/4	3,883	1/4	4,986	1/4		1/4		1/4		1/4		1/4	
1/2	597	1/2	1,700	1/2	2,803	1/2	3,906	1/2	5,009	1/2		1/2		1/2		1/2		1/2	
3/4	620	3/4	1,723	3/4	2,826	3/4	3,929	3/4	5,032	3/4		3/4		3/4		3/4		3/4	
7	643	7	1,746	7	2,849	7	3,952	7	5,055	7		7		7		7		7	
1/4	666	1/4	1,769	1/4	2,872	1/4	3,975	1/4	5,078	1/4		1/4		1/4		1/4		1/4	
1/2	689	1/2	1,792	1/2	2,895	1/2	3,998	1/2	5,101	1/2		1/2		1/2		1/2		1/2	
3/4	712	3/4	1,815	3/4	2,918	3/4	4,021	3/4	5,124	3/4		3/4		3/4		3/4		3/4	
8	735	8	1,838	8	2,941	8	4,044	8	5,147	8		8		8		8		8	
1/4	758	1/4	1,861	1/4	2,964	1/4	4,067	1/4	5,170	1/4		1/4		1/4		1/4		1/4	
1/2	781	1/2	1,884	1/2	2,987	1/2	4,090	1/2	5,193	1/2		1/2		1/2		1/2		1/2	
3/4	804	3/4	1,907	3/4	3,010	3/4	4,113	3/4	5,216	3/4		3/4		3/4		3/4		3/4	
9	827	9	1,930	9	3,033	9	4,136	9	5,239	9		9		9		9		9	
1/4	850	1/4	1,953	1/4	3,056	1/4	4,159	1/4	5,262	1/4		1/4		1/4		1/4		1/4	
1/2	873	1/2	1,976	1/2	3,079	1/2	4,182	1/2	5,285	1/2		1/2		1/2		1/2		1/2	
3/4	896	3/4	1,999	3/4	3,102	3/4	4,205	3/4	5,308	3/4		3/4		3/4		3/4		3/4	
10	919	10	2,022	10	3,125	10	4,228	10	5,331	10		10		10		10		10	
1/4	942	1/4	2,045	1/4	3,148	1/4	4,251	1/4	5,354	1/4		1/4		1/4		1/4		1/4	
1/2	965	1/2	2,068	1/2	3,171	1/2	4,274	1/2	5,377	1/2		1/2		1/2		1/2		1/2	
3/4	988	3/4	2,091	3/4	3,194	3/4	4,297	3/4	5,400	3/4		3/4		3/4		3/4		3/4	
11	1,011	11	2,114	11	3,217	11	4,320	11	5,423	11		11		11		11		11	
1/4	1,034	1/4	2,137	1/4	3,240	1/4	4,343	1/4	5,446	1/4		1/4		1/4		1/4		1/4	
1/2	1,057	1/2	2,160	1/2	3,263	1/2	4,366	1/2	5,469	1/2		1/2		1/2		1/2		1/2	
3/4	1,080	3/4	2,183	3/4	3,286	3/4	4,389	3/4	5,492	3/4		3/4		3/4		3/4		3/4	

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 2" DIAMETER "HERMETIC" VALVE.

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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

BARGE "MPX 419"

FUEL TANK
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 3/4"

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

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 AT 2" STANDPIPE

STRAPPED: 05/26/2021 CL
CALCULATED: 05/27/2021 CL
PRINTED: 05/27/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2021

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