



BARGE "CTC 29147"

ULLAGE (HERMETIC)
FORMERLY "E2MS 317"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
2 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
2 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 15, 2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CTC 29147"

1 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

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	8.60	0	256.36	0	538.09	0	842.52	0	1,168.53	0	1,499.60	0	1,830.68	0	2,161.75	0	2,492.71	0	2,823.66
1/4	11.61	1/4	262.02	1/4	544.21	1/4	849.13	1/4	1,175.43	1/4	1,506.50	1/4	1,837.58	1/4	2,168.65	1/4	2,499.60	1/4	2,830.56
1/2	14.62	1/2	267.68	1/2	550.32	1/2	855.73	1/2	1,182.32	1/2	1,513.40	1/2	1,844.47	1/2	2,175.54	1/2	2,506.50	1/2	2,837.45
3/4	17.63	3/4	273.34	3/4	556.44	3/4	862.33	3/4	1,189.22	3/4	1,520.30	3/4	1,851.37	3/4	2,182.43	3/4	2,513.39	3/4	2,844.35
1	20.64	1	279.00	1	562.55	1	868.93	1	1,196.12	1	1,527.19	1	1,858.27	1	2,189.33	1	2,520.28	1	2,851.24
1/4	25.15	1/4	284.69	1/4	568.71	1/4	875.58	1/4	1,203.02	1/4	1,534.09	1/4	1,865.17	1/4	2,196.22	1/4	2,527.18	1/4	2,858.13
1/2	29.66	1/2	290.39	1/2	574.86	1/2	882.22	1/2	1,209.91	1/2	1,540.99	1/2	1,872.06	1/2	2,203.12	1/2	2,534.07	1/2	2,865.03
3/4	34.17	3/4	296.09	3/4	581.02	3/4	888.86	3/4	1,216.81	3/4	1,547.89	3/4	1,878.96	3/4	2,210.01	3/4	2,540.97	3/4	2,871.92
2	38.67	2	301.79	2	587.17	2	895.50	2	1,223.71	2	1,554.78	2	1,885.86	2	2,216.91	2	2,547.86	2	2,878.82
1/4	43.94	1/4	307.52	1/4	593.37	1/4	902.18	1/4	1,230.61	1/4	1,561.68	1/4	1,892.76	1/4	2,223.80	1/4	2,554.76	1/4	2,885.71
1/2	49.20	1/2	313.26	1/2	599.56	1/2	908.86	1/2	1,237.50	1/2	1,568.58	1/2	1,899.65	1/2	2,230.70	1/2	2,561.65	1/2	2,892.61
3/4	54.47	3/4	319.00	3/4	605.76	3/4	915.54	3/4	1,244.40	3/4	1,575.48	3/4	1,906.55	3/4	2,237.59	3/4	2,568.55	3/4	2,899.50
3	59.73	3	324.73	3	611.95	3	922.23	3	1,251.30	3	1,582.37	3	1,913.45	3	2,244.49	3	2,575.44	3	2,906.40
1/4	65.04	1/4	330.51	1/4	618.19	1/4	928.95	1/4	1,258.19	1/4	1,589.27	1/4	1,920.35	1/4	2,251.38	1/4	2,582.34	1/4	2,913.29
1/2	70.34	1/2	336.29	1/2	624.43	1/2	935.67	1/2	1,265.09	1/2	1,596.17	1/2	1,927.24	1/2	2,258.28	1/2	2,589.23	1/2	2,920.19
3/4	75.65	3/4	342.06	3/4	630.67	3/4	942.39	3/4	1,271.99	3/4	1,603.06	3/4	1,934.14	3/4	2,265.17	3/4	2,596.13	3/4	2,927.08
4	80.95	4	347.84	4	636.91	4	949.11	4	1,278.89	4	1,609.96	4	1,941.04	4	2,272.07	4	2,603.02	4	2,933.98
1/4	86.30	1/4	353.66	1/4	643.19	1/4	955.87	1/4	1,285.78	1/4	1,616.86	1/4	1,947.93	1/4	2,278.96	1/4	2,609.92	1/4	2,940.87
1/2	91.64	1/2	359.47	1/2	649.48	1/2	962.63	1/2	1,292.68	1/2	1,623.76	1/2	1,954.83	1/2	2,285.86	1/2	2,616.81	1/2	2,947.77
3/4	96.98	3/4	365.29	3/4	655.77	3/4	969.39	3/4	1,299.58	3/4	1,630.65	3/4	1,961.73	3/4	2,292.75	3/4	2,623.71	3/4	2,954.66
5	102.33	5	371.10	5	662.06	5	976.15	5	1,306.48	5	1,637.55	5	1,968.63	5	2,299.65	5	2,630.60	5	2,961.56
1/4	107.71	1/4	376.96	1/4	668.39	1/4	982.95	1/4	1,313.37	1/4	1,644.45	1/4	1,975.52	1/4	2,306.54	1/4	2,637.50	1/4	2,968.45
1/2	113.09	1/2	382.81	1/2	674.71	1/2	989.74	1/2	1,320.27	1/2	1,651.35	1/2	1,982.42	1/2	2,313.44	1/2	2,644.39	1/2	2,975.35
3/4	118.48	3/4	388.67	3/4	681.04	3/4	996.54	3/4	1,327.17	3/4	1,658.24	3/4	1,989.32	3/4	2,320.33	3/4	2,651.29	3/4	2,982.24
6	123.86	6	394.52	6	687.37	6	1,003.34	6	1,334.07	6	1,665.14	6	1,996.22	6	2,327.23	6	2,658.18	6	2,989.14
1/4	129.28	1/4	400.42	1/4	693.73	1/4	1,010.18	1/4	1,340.96	1/4	1,672.04	1/4	2,003.11	1/4	2,334.12	1/4	2,665.08	1/4	2,996.03
1/2	134.71	1/2	406.31	1/2	700.10	1/2	1,017.02	1/2	1,347.86	1/2	1,678.94	1/2	2,010.01	1/2	2,341.02	1/2	2,671.97	1/2	3,002.93
3/4	140.13	3/4	412.21	3/4	706.47	3/4	1,023.86	3/4	1,354.76	3/4	1,685.83	3/4	2,016.91	3/4	2,347.91	3/4	2,678.87	3/4	3,009.82
7	145.55	7	418.10	7	712.83	7	1,030.70	7	1,361.66	7	1,692.73	7	2,023.81	7	2,354.81	7	2,685.76	7	3,016.72
1/4	151.01	1/4	424.03	1/4	719.24	1/4	1,037.57	1/4	1,368.55	1/4	1,699.63	1/4	2,030.70	1/4	2,361.70	1/4	2,692.66	1/4	3,023.61
1/2	156.47	1/2	429.96	1/2	725.65	1/2	1,044.44	1/2	1,375.45	1/2	1,706.53	1/2	2,037.60	1/2	2,368.60	1/2	2,699.55	1/2	3,030.51
3/4	161.94	3/4	435.89	3/4	732.05	3/4	1,051.32	3/4	1,382.35	3/4	1,713.42	3/4	2,044.50	3/4	2,375.49	3/4	2,706.45	3/4	3,037.40
8	167.40	8	441.81	8	738.46	8	1,058.19	8	1,389.25	8	1,720.32	8	2,051.40	8	2,382.39	8	2,713.34	8	3,044.30
1/4	172.90	1/4	447.77	1/4	744.90	1/4	1,065.08	1/4	1,396.14	1/4	1,727.22	1/4	2,058.29	1/4	2,389.28	1/4	2,720.24	1/4	3,051.19
1/2	178.40	1/2	453.73	1/2	751.35	1/2	1,071.97	1/2	1,403.04	1/2	1,734.12	1/2	2,065.19	1/2	2,396.18	1/2	2,727.13	1/2	3,058.09
3/4	183.90	3/4	459.69	3/4	757.79	3/4	1,078.87	3/4	1,409.94	3/4	1,741.01	3/4	2,072.09	3/4	2,403.07	3/4	2,734.03	3/4	3,064.98
9	189.40	9	465.65	9	764.24	9	1,085.76	9	1,416.83	9	1,747.91	9	2,078.99	9	2,409.97	9	2,740.92	9	3,071.88
1/4	194.94	1/4	471.65	1/4	770.72	1/4	1,092.66	1/4	1,423.73	1/4	1,754.81	1/4	2,085.88	1/4	2,416.86	1/4	2,747.82	1/4	3,078.77
1/2	200.48	1/2	477.64	1/2	777.21	1/2	1,099.55	1/2	1,430.63	1/2	1,761.70	1/2	2,092.78	1/2	2,423.76	1/2	2,754.71	1/2	3,085.67
3/4	206.02	3/4	483.64	3/4	783.69	3/4	1,106.45	3/4	1,437.53	3/4	1,768.60	3/4	2,099.68	3/4	2,430.65	3/4	2,761.61	3/4	3,092.56
10	211.56	10	489.64	10	790.18	10	1,113.35	10	1,444.42	10	1,775.50	10	2,106.57	10	2,437.55	10	2,768.50	10	3,099.46
1/4	217.14	1/4	495.68	1/4	796.70	1/4	1,120.25	1/4	1,451.32	1/4	1,782.40	1/4	2,113.47	1/4	2,444.44	1/4	2,775.40	1/4	3,106.35
1/2	222.72	1/2	501.71	1/2	803.22	1/2	1,127.14	1/2	1,458.22	1/2	1,789.29	1/2	2,120.37	1/2	2,451.34	1/2	2,782.29	1/2	3,113.25
3/4	228.30	3/4	507.75	3/4	809.75	3/4	1,134.04	3/4	1,465.12	3/4	1,796.19	3/4	2,127.27	3/4	2,458.23	3/4	2,789.19	3/4	3,120.14
11	233.88	11	513.79	11	816.27	11	1,140.94	11	1,472.01	11	1,803.09	11	2,134.16	11	2,465.13	11	2,796.08	11	3,127.04
1/4	239.50	1/4	519.86	1/4	822.83	1/4	1,147.84	1/4	1,478.91	1/4	1,809.99	1/4	2,141.06	1/4	2,472.02	1/4	2,802.98	1/4	3,133.93
1/2	245.12	1/2	525.94	1/2	829.40	1/2	1,154.73	1/2	1,485.81	1/2	1,816.88	1/2	2,147.96	1/2	2,478.92	1/2	2,809.87	1/2	3,140.83
3/4	250.74	3/4	532.02	3/4	835.96	3/4	1,161.63	3/4	1,492.71	3/4	1,823.78	3/4	2,154.85	3/4	2,485.81	3/4	2,816.77	3/4	3,147.72

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "CTC 29147"

**1 PORT
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-06"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

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	3,154.62	0	3,485.57	0	3,814.91	0	4,130.40	0	4,428.45	0		0		0		0		0	
1/4	3,161.51	1/4	3,492.47	1/4	3,821.64	1/4	4,136.76	1/4	4,434.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,168.41	1/2	3,499.36	1/2	3,828.37	1/2	4,143.12	1/2	4,440.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,175.30	3/4	3,506.26	3/4	3,835.10	3/4	4,149.48	3/4	4,446.54	3/4		3/4		3/4		3/4		3/4	
1	3,182.20	1	3,513.15	1	3,841.84	1	4,155.84	1	4,452.57	1		1		1		1		1	
1/4	3,189.09	1/4	3,520.05	1/4	3,848.54	1/4	4,162.18	1/4	4,458.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,195.99	1/2	3,526.94	1/2	3,855.25	1/2	4,168.51	1/2	4,464.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,202.88	3/4	3,533.84	3/4	3,861.95	3/4	4,174.84	3/4	4,470.58	3/4		3/4		3/4		3/4		3/4	
2	3,209.77	2	3,540.73	2	3,868.66	2	4,181.18	2	4,476.58	2		2		2		2		2	
1/4	3,216.67	1/4	3,547.62	1/4	3,875.33	1/4	4,187.48	1/4	4,482.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,223.56	1/2	3,554.52	1/2	3,882.01	1/2	4,193.79	1/2	4,489.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,230.46	3/4	3,561.41	3/4	3,888.69	3/4	4,200.10	3/4	4,495.51	3/4		3/4		3/4		3/4		3/4	
3	3,237.35	3	3,568.31	3	3,895.36	3	4,206.40	3	4,501.82	3		3		3		3		3	
1/4	3,244.25	1/4	3,575.20	1/4	3,902.01	1/4	4,212.68	1/4	4,508.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,251.14	1/2	3,582.10	1/2	3,908.66	1/2	4,218.96	1/2	4,515.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,258.04	3/4	3,588.99	3/4	3,915.31	3/4	4,225.24	3/4	4,521.63	3/4		3/4		3/4		3/4		3/4	
4	3,264.93	4	3,595.89	4	3,921.96	4	4,231.52	4	4,528.24	4		4		4		4		4	
1/4	3,271.83	1/4	3,602.78	1/4	3,928.59	1/4	4,237.77	1/4	4,533.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,278.72	1/2	3,609.68	1/2	3,935.21	1/2	4,244.02	1/2	4,539.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,285.62	3/4	3,616.57	3/4	3,941.83	3/4	4,250.27	3/4	4,545.50	3/4		3/4		3/4		3/4		3/4	
5	3,292.51	5	3,623.47	5	3,948.45	5	4,256.52	5	4,551.26	5		5		5		5		5	
1/4	3,299.41	1/4	3,630.36	1/4	3,955.05	1/4	4,262.74	1/4	4,555.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,306.30	1/2	3,637.26	1/2	3,961.64	1/2	4,268.97	1/2	4,560.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,313.20	3/4	3,644.15	3/4	3,968.24	3/4	4,275.19	3/4	4,565.07	3/4		3/4		3/4		3/4		3/4	
6	3,320.09	6	3,651.05	6	3,974.83	6	4,281.41	6	4,569.68	6		6		6		6		6	
1/4	3,326.99	1/4	3,657.94	1/4	3,981.40	1/4	4,287.61	1/4	4,573.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,333.88	1/2	3,664.82	1/2	3,987.96	1/2	4,293.80	1/2	4,576.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,340.78	3/4	3,671.71	3/4	3,994.53	3/4	4,300.00	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,347.67	7	3,678.60	7	4,001.10	7	4,306.19	7		7		7		7		7		7	
1/4	3,354.57	1/4	3,685.47	1/4	4,007.64	1/4	4,312.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,361.46	1/2	3,692.34	1/2	4,014.18	1/2	4,318.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,368.36	3/4	3,699.21	3/4	4,020.71	3/4	4,324.70	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,375.25	8	3,706.08	8	4,027.25	8	4,330.87	8		8		8		8		8		8	
1/4	3,382.15	1/4	3,712.92	1/4	4,033.77	1/4	4,337.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,389.04	1/2	3,719.77	1/2	4,040.28	1/2	4,343.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,395.94	3/4	3,726.61	3/4	4,046.79	3/4	4,349.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,402.83	9	3,733.45	9	4,053.30	9	4,355.43	9		9		9		9		9		9	
1/4	3,409.73	1/4	3,740.27	1/4	4,059.77	1/4	4,361.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,416.62	1/2	3,747.08	1/2	4,066.24	1/2	4,367.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,423.52	3/4	3,753.90	3/4	4,072.71	3/4	4,373.77	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,430.41	10	3,760.71	10	4,079.18	10	4,379.88	10		10		10		10		10		10	
1/4	3,437.31	1/4	3,767.50	1/4	4,085.59	1/4	4,385.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,444.20	1/2	3,774.29	1/2	4,092.01	1/2	4,392.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,451.10	3/4	3,781.08	3/4	4,098.43	3/4	4,398.13	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,457.99	11	3,787.86	11	4,104.84	11	4,404.22	11		11		11		11		11		11	
1/4	3,464.89	1/4	3,794.62	1/4	4,111.23	1/4	4,410.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,471.78	1/2	3,801.39	1/2	4,117.62	1/2	4,416.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,478.68	3/4	3,808.15	3/4	4,124.01	3/4	4,422.39	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

1 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

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	8.62	0	256.87	0	539.09	0	843.32	0	1,168.95	0	1,500.47	0	1,831.98	0	2,163.50	0	2,494.89	0	2,826.29
1/4	11.63	1/4	262.54	1/4	545.21	1/4	849.90	1/4	1,175.86	1/4	1,507.37	1/4	1,838.89	1/4	2,170.40	1/4	2,501.80	1/4	2,833.20
1/2	14.65	1/2	268.21	1/2	551.34	1/2	856.48	1/2	1,182.76	1/2	1,514.28	1/2	1,845.80	1/2	2,177.31	1/2	2,508.70	1/2	2,840.10
3/4	17.67	3/4	273.87	3/4	557.46	3/4	863.06	3/4	1,189.67	3/4	1,521.19	3/4	1,852.70	3/4	2,184.21	3/4	2,515.61	3/4	2,847.00
1	20.69	1	279.54	1	563.59	1	869.64	1	1,196.58	1	1,528.09	1	1,859.61	1	2,191.11	1	2,522.51	1	2,853.91
1/4	25.20	1/4	285.25	1/4	569.75	1/4	876.26	1/4	1,203.48	1/4	1,535.00	1/4	1,866.52	1/4	2,198.02	1/4	2,529.41	1/4	2,860.81
1/2	29.72	1/2	290.96	1/2	575.92	1/2	882.88	1/2	1,210.39	1/2	1,541.91	1/2	1,873.42	1/2	2,204.92	1/2	2,536.32	1/2	2,867.72
3/4	34.24	3/4	296.67	3/4	582.08	3/4	889.50	3/4	1,217.30	3/4	1,548.81	3/4	1,880.33	3/4	2,211.83	3/4	2,543.22	3/4	2,874.62
2	38.75	2	302.38	2	588.25	2	896.12	2	1,224.20	2	1,555.72	2	1,887.24	2	2,218.73	2	2,550.13	2	2,881.52
1/4	44.03	1/4	308.12	1/4	594.45	1/4	902.78	1/4	1,231.11	1/4	1,562.63	1/4	1,894.14	1/4	2,225.63	1/4	2,557.03	1/4	2,888.43
1/2	49.31	1/2	313.87	1/2	600.66	1/2	909.44	1/2	1,238.02	1/2	1,569.53	1/2	1,901.05	1/2	2,232.54	1/2	2,563.94	1/2	2,895.33
3/4	54.58	3/4	319.62	3/4	606.86	3/4	916.09	3/4	1,244.92	3/4	1,576.44	3/4	1,907.96	3/4	2,239.44	3/4	2,570.84	3/4	2,902.24
3	59.86	3	325.37	3	613.07	3	922.75	3	1,251.83	3	1,583.35	3	1,914.86	3	2,246.35	3	2,577.74	3	2,909.14
1/4	65.17	1/4	331.15	1/4	619.31	1/4	929.45	1/4	1,258.74	1/4	1,590.25	1/4	1,921.77	1/4	2,253.25	1/4	2,584.65	1/4	2,916.04
1/2	70.49	1/2	336.94	1/2	625.56	1/2	936.15	1/2	1,265.64	1/2	1,597.16	1/2	1,928.68	1/2	2,260.15	1/2	2,591.55	1/2	2,922.95
3/4	75.80	3/4	342.73	3/4	631.81	3/4	942.85	3/4	1,272.55	3/4	1,604.07	3/4	1,935.58	3/4	2,267.06	3/4	2,598.46	3/4	2,929.85
4	81.12	4	348.51	4	638.06	4	949.54	4	1,279.46	4	1,610.97	4	1,942.49	4	2,273.96	4	2,605.36	4	2,936.76
1/4	86.47	1/4	354.34	1/4	644.36	1/4	956.28	1/4	1,286.36	1/4	1,617.88	1/4	1,949.40	1/4	2,280.87	1/4	2,612.26	1/4	2,943.66
1/2	91.83	1/2	360.16	1/2	650.66	1/2	963.02	1/2	1,293.27	1/2	1,624.79	1/2	1,956.30	1/2	2,287.77	1/2	2,619.17	1/2	2,950.56
3/4	97.18	3/4	365.99	3/4	656.95	3/4	969.75	3/4	1,300.18	3/4	1,631.69	3/4	1,963.21	3/4	2,294.68	3/4	2,626.07	3/4	2,957.47
5	102.54	5	371.82	5	663.25	5	976.49	5	1,307.08	5	1,638.60	5	1,970.12	5	2,301.58	5	2,632.98	5	2,964.37
1/4	107.93	1/4	377.68	1/4	669.59	1/4	983.27	1/4	1,313.99	1/4	1,645.51	1/4	1,977.02	1/4	2,308.48	1/4	2,639.88	1/4	2,971.28
1/2	113.33	1/2	383.55	1/2	675.93	1/2	990.05	1/2	1,320.90	1/2	1,652.41	1/2	1,983.93	1/2	2,315.39	1/2	2,646.78	1/2	2,978.18
3/4	118.72	3/4	389.41	3/4	682.26	3/4	996.83	3/4	1,327.80	3/4	1,659.32	3/4	1,990.84	3/4	2,322.29	3/4	2,653.69	3/4	2,985.09
6	124.11	6	395.28	6	688.60	6	1,003.61	6	1,334.71	6	1,666.23	6	1,997.74	6	2,329.20	6	2,660.59	6	2,991.99
1/4	129.55	1/4	401.18	1/4	694.97	1/4	1,010.44	1/4	1,341.62	1/4	1,673.13	1/4	2,004.65	1/4	2,336.10	1/4	2,667.50	1/4	2,998.89
1/2	134.98	1/2	407.09	1/2	701.33	1/2	1,017.27	1/2	1,348.52	1/2	1,680.04	1/2	2,011.56	1/2	2,343.00	1/2	2,674.40	1/2	3,005.80
3/4	140.41	3/4	412.99	3/4	707.70	3/4	1,024.10	3/4	1,355.43	3/4	1,686.95	3/4	2,018.46	3/4	2,349.91	3/4	2,681.31	3/4	3,012.70
7	145.85	7	418.90	7	714.07	7	1,030.93	7	1,362.34	7	1,693.85	7	2,025.37	7	2,356.81	7	2,688.21	7	3,019.61
1/4	151.32	1/4	424.83	1/4	720.46	1/4	1,037.82	1/4	1,369.24	1/4	1,700.76	1/4	2,032.28	1/4	2,363.72	1/4	2,695.11	1/4	3,026.51
1/2	156.79	1/2	430.77	1/2	726.84	1/2	1,044.70	1/2	1,376.15	1/2	1,707.67	1/2	2,039.18	1/2	2,370.62	1/2	2,702.02	1/2	3,033.41
3/4	162.26	3/4	436.71	3/4	733.23	3/4	1,051.58	3/4	1,383.06	3/4	1,714.57	3/4	2,046.09	3/4	2,377.52	3/4	2,708.92	3/4	3,040.32
8	167.74	8	442.65	8	739.62	8	1,058.46	8	1,389.96	8	1,721.48	8	2,053.00	8	2,384.43	8	2,715.83	8	3,047.22
1/4	173.25	1/4	448.62	1/4	746.04	1/4	1,065.37	1/4	1,396.87	1/4	1,728.39	1/4	2,059.90	1/4	2,391.33	1/4	2,722.73	1/4	3,054.13
1/2	178.76	1/2	454.59	1/2	752.46	1/2	1,072.27	1/2	1,403.78	1/2	1,735.29	1/2	2,066.81	1/2	2,398.24	1/2	2,729.63	1/2	3,061.03
3/4	184.27	3/4	460.55	3/4	758.89	3/4	1,079.17	3/4	1,410.68	3/4	1,742.20	3/4	2,073.72	3/4	2,405.14	3/4	2,736.54	3/4	3,067.93
9	189.78	9	466.52	9	765.31	9	1,086.07	9	1,417.59	9	1,749.11	9	2,080.62	9	2,412.05	9	2,743.44	9	3,074.84
1/4	195.33	1/4	472.53	1/4	771.77	1/4	1,092.98	1/4	1,424.50	1/4	1,756.01	1/4	2,087.53	1/4	2,418.95	1/4	2,750.35	1/4	3,081.74
1/2	200.89	1/2	478.54	1/2	778.23	1/2	1,099.89	1/2	1,431.40	1/2	1,762.92	1/2	2,094.44	1/2	2,425.85	1/2	2,757.25	1/2	3,088.65
3/4	206.44	3/4	484.55	3/4	784.69	3/4	1,106.79	3/4	1,438.31	3/4	1,769.83	3/4	2,101.34	3/4	2,432.76	3/4	2,764.15	3/4	3,095.55
10	211.99	10	490.55	10	791.16	10	1,113.70	10	1,445.22	10	1,776.73	10	2,108.25	10	2,439.66	10	2,771.06	10	3,102.46
1/4	217.58	1/4	496.60	1/4	797.66	1/4	1,120.60	1/4	1,452.12	1/4	1,783.64	1/4	2,115.16	1/4	2,446.57	1/4	2,777.96	1/4	3,109.36
1/2	223.17	1/2	502.65	1/2	804.16	1/2	1,127.51	1/2	1,459.03	1/2	1,790.55	1/2	2,122.06	1/2	2,453.47	1/2	2,784.87	1/2	3,116.26
3/4	228.76	3/4	508.69	3/4	810.66	3/4	1,134.42	3/4	1,465.93	3/4	1,797.45	3/4	2,128.97	3/4	2,460.37	3/4	2,791.77	3/4	3,123.17
11	234.35	11	514.74	11	817.16	11	1,141.32	11	1,472.84	11	1,804.36	11	2,135.88	11	2,467.28	11	2,798.67	11	3,130.07
1/4	239.98	1/4	520.83	1/4	823.70	1/4	1,148.23	1/4	1,479.75	1/4	1,811.26	1/4	2,142.78	1/4	2,474.18	1/4	2,805.58	1/4	3,136.98
1/2	245.61	1/2	526.91	1/2	830.24	1/2	1,155.14	1/2	1,486.65	1/2	1,818.17	1/2	2,149.69	1/2	2,481.09	1/2	2,812.48	1/2	3,143.88
3/4	251.24	3/4	533.00	3/4	836.78	3/4	1,162.04	3/4	1,493.56	3/4	1,825.08	3/4	2,156.59	3/4	2,487.99	3/4	2,819.39	3/4	3,150.78

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 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

1 STBD INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	3,157.69	0	3,489.08	0	3,818.86	0	4,134.81	0	4,433.34	0		0		0		0		0	
1/4	3,164.59	1/4	3,495.99	1/4	3,825.60	1/4	4,141.18	1/4	4,439.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,171.50	1/2	3,502.89	1/2	3,832.35	1/2	4,147.55	1/2	4,445.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,178.40	3/4	3,509.80	3/4	3,839.09	3/4	4,153.93	3/4	4,451.46	3/4		3/4		3/4		3/4		3/4	
1	3,185.30	1	3,516.70	1	3,845.83	1	4,160.30	1	4,457.50	1		1		1		1		1	
1/4	3,192.21	1/4	3,523.61	1/4	3,852.55	1/4	4,166.64	1/4	4,463.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,199.11	1/2	3,530.51	1/2	3,859.26	1/2	4,172.98	1/2	4,469.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,206.02	3/4	3,537.41	3/4	3,865.97	3/4	4,179.33	3/4	4,475.53	3/4		3/4		3/4		3/4		3/4	
2	3,212.92	2	3,544.32	2	3,872.69	2	4,185.67	2	4,481.55	2		2		2		2		2	
1/4	3,219.82	1/4	3,551.22	1/4	3,879.37	1/4	4,191.99	1/4	4,487.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,226.73	1/2	3,558.13	1/2	3,886.06	1/2	4,198.30	1/2	4,494.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,233.63	3/4	3,565.03	3/4	3,892.75	3/4	4,204.62	3/4	4,500.51	3/4		3/4		3/4		3/4		3/4	
3	3,240.54	3	3,571.93	3	3,899.43	3	4,210.93	3	4,506.83	3		3		3		3		3	
1/4	3,247.44	1/4	3,578.84	1/4	3,906.09	1/4	4,217.22	1/4	4,513.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,254.35	1/2	3,585.74	1/2	3,912.75	1/2	4,223.51	1/2	4,520.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,261.25	3/4	3,592.65	3/4	3,919.41	3/4	4,229.80	3/4	4,526.67	3/4		3/4		3/4		3/4		3/4	
4	3,268.15	4	3,599.55	4	3,926.07	4	4,236.09	4	4,533.28	4		4		4		4		4	
1/4	3,275.06	1/4	3,606.45	1/4	3,932.70	1/4	4,242.35	1/4	4,539.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,281.96	1/2	3,613.36	1/2	3,939.33	1/2	4,248.61	1/2	4,544.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,288.87	3/4	3,620.26	3/4	3,945.97	3/4	4,254.87	3/4	4,550.57	3/4		3/4		3/4		3/4		3/4	
5	3,295.77	5	3,627.17	5	3,952.60	5	4,261.13	5	4,556.33	5		5		5		5		5	
1/4	3,302.67	1/4	3,634.07	1/4	3,959.20	1/4	4,267.36	1/4	4,560.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,309.58	1/2	3,640.97	1/2	3,965.81	1/2	4,273.60	1/2	4,565.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,316.48	3/4	3,647.88	3/4	3,972.41	3/4	4,279.83	3/4	4,570.17	3/4		3/4		3/4		3/4		3/4	
6	3,323.39	6	3,654.78	6	3,979.01	6	4,286.06	6	4,574.78	6		6		6		6		6	
1/4	3,330.29	1/4	3,661.68	1/4	3,985.59	1/4	4,292.27	1/4	4,578.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,337.19	1/2	3,668.58	1/2	3,992.17	1/2	4,298.47	1/2	4,581.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,344.10	3/4	3,675.47	3/4	3,998.74	3/4	4,304.68	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,351.00	7	3,682.37	7	4,005.32	7	4,310.88	7		7		7		7		7		7	
1/4	3,357.91	1/4	3,689.25	1/4	4,011.87	1/4	4,317.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,364.81	1/2	3,696.13	1/2	4,018.42	1/2	4,323.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,371.72	3/4	3,703.01	3/4	4,024.97	3/4	4,329.42	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,378.62	8	3,709.89	8	4,031.51	8	4,335.59	8		8		8		8		8		8	
1/4	3,385.52	1/4	3,716.74	1/4	4,038.04	1/4	4,341.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,392.43	1/2	3,723.59	1/2	4,044.56	1/2	4,347.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,399.33	3/4	3,730.45	3/4	4,051.08	3/4	4,354.05	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,406.24	9	3,737.30	9	4,057.60	9	4,360.20	9		9		9		9		9		9	
1/4	3,413.14	1/4	3,744.12	1/4	4,064.08	1/4	4,366.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,420.04	1/2	3,750.95	1/2	4,070.56	1/2	4,372.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,426.95	3/4	3,757.77	3/4	4,077.04	3/4	4,378.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,433.85	10	3,764.60	10	4,083.51	10	4,384.69	10		10		10		10		10		10	
1/4	3,440.76	1/4	3,771.39	1/4	4,089.94	1/4	4,390.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,447.66	1/2	3,778.19	1/2	4,096.37	1/2	4,396.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,454.56	3/4	3,784.99	3/4	4,102.79	3/4	4,402.97	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,461.47	11	3,791.78	11	4,109.22	11	4,409.07	11		11		11		11		11		11	
1/4	3,468.37	1/4	3,798.55	1/4	4,115.62	1/4	4,415.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,475.28	1/2	3,805.32	1/2	4,122.02	1/2	4,421.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,482.18	3/4	3,812.09	3/4	4,128.41	3/4	4,427.27	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

2 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-05 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

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	11.90	0	384.98	0	773.32	0	1,161.71	0	1,550.32	0	1,938.93	0	2,327.54	0	2,716.14	0	3,104.60	0	3,493.07
1/4	16.96	1/4	393.08	1/4	781.40	1/4	1,169.81	1/4	1,558.42	1/4	1,947.02	1/4	2,335.63	1/4	2,724.23	1/4	3,112.70	1/4	3,501.16
1/2	22.02	1/2	401.18	1/2	789.48	1/2	1,177.90	1/2	1,566.51	1/2	1,955.12	1/2	2,343.73	1/2	2,732.33	1/2	3,120.79	1/2	3,509.25
3/4	27.08	3/4	409.27	3/4	797.57	3/4	1,186.00	3/4	1,574.61	3/4	1,963.22	3/4	2,351.82	3/4	2,740.42	3/4	3,128.88	3/4	3,517.35
1	32.14	1	417.37	1	805.65	1	1,194.10	1	1,582.70	1	1,971.31	1	2,359.92	1	2,748.51	1	3,136.98	1	3,525.44
1/4	39.40	1/4	425.46	1/4	813.73	1/4	1,202.19	1/4	1,590.80	1/4	1,979.41	1/4	2,368.02	1/4	2,756.61	1/4	3,145.07	1/4	3,533.53
1/2	46.65	1/2	433.56	1/2	821.81	1/2	1,210.29	1/2	1,598.90	1/2	1,987.50	1/2	2,376.11	1/2	2,764.70	1/2	3,153.16	1/2	3,541.63
3/4	53.90	3/4	441.66	3/4	829.89	3/4	1,218.38	3/4	1,606.99	3/4	1,995.60	3/4	2,384.21	3/4	2,772.79	3/4	3,161.25	3/4	3,549.72
2	61.15	2	449.75	2	837.97	2	1,226.48	2	1,615.09	2	2,003.70	2	2,392.30	2	2,780.88	2	3,169.35	2	3,557.81
1/4	69.25	1/4	457.85	1/4	846.05	1/4	1,234.58	1/4	1,623.18	1/4	2,011.79	1/4	2,400.40	1/4	2,788.98	1/4	3,177.44	1/4	3,565.90
1/2	77.34	1/2	465.94	1/2	854.13	1/2	1,242.67	1/2	1,631.28	1/2	2,019.89	1/2	2,408.50	1/2	2,797.07	1/2	3,185.53	1/2	3,574.00
3/4	85.44	3/4	474.04	3/4	862.21	3/4	1,250.77	3/4	1,639.38	3/4	2,027.98	3/4	2,416.59	3/4	2,805.16	3/4	3,193.63	3/4	3,582.09
3	93.54	3	482.13	3	870.29	3	1,258.86	3	1,647.47	3	2,036.08	3	2,424.69	3	2,813.26	3	3,201.72	3	3,590.18
1/4	101.63	1/4	490.23	1/4	878.38	1/4	1,266.96	1/4	1,655.57	1/4	2,044.18	1/4	2,432.78	1/4	2,821.35	1/4	3,209.81	1/4	3,598.28
1/2	109.73	1/2	498.33	1/2	886.47	1/2	1,275.06	1/2	1,663.66	1/2	2,052.27	1/2	2,440.88	1/2	2,829.44	1/2	3,217.91	1/2	3,606.37
3/4	117.82	3/4	506.42	3/4	894.55	3/4	1,283.15	3/4	1,671.76	3/4	2,060.37	3/4	2,448.98	3/4	2,837.54	3/4	3,226.00	3/4	3,614.46
4	125.92	4	514.52	4	902.64	4	1,291.25	4	1,679.86	4	2,068.46	4	2,457.07	4	2,845.63	4	3,234.09	4	3,622.56
1/4	134.01	1/4	522.61	1/4	910.74	1/4	1,299.34	1/4	1,687.95	1/4	2,076.56	1/4	2,465.17	1/4	2,853.72	1/4	3,242.18	1/4	3,630.65
1/2	142.11	1/2	530.71	1/2	918.83	1/2	1,307.44	1/2	1,696.05	1/2	2,084.66	1/2	2,473.26	1/2	2,861.81	1/2	3,250.28	1/2	3,638.74
3/4	150.21	3/4	538.80	3/4	926.93	3/4	1,315.54	3/4	1,704.14	3/4	2,092.75	3/4	2,481.36	3/4	2,869.91	3/4	3,258.37	3/4	3,646.83
5	158.30	5	546.90	5	935.02	5	1,323.63	5	1,712.24	5	2,100.85	5	2,489.46	5	2,878.00	5	3,266.46	5	3,654.93
1/4	166.40	1/4	555.00	1/4	943.12	1/4	1,331.73	1/4	1,720.34	1/4	2,108.94	1/4	2,497.55	1/4	2,886.09	1/4	3,274.56	1/4	3,663.02
1/2	174.49	1/2	563.09	1/2	951.22	1/2	1,339.82	1/2	1,728.43	1/2	2,117.04	1/2	2,505.65	1/2	2,894.19	1/2	3,282.65	1/2	3,671.11
3/4	182.59	3/4	571.19	3/4	959.31	3/4	1,347.92	3/4	1,736.53	3/4	2,125.14	3/4	2,513.74	3/4	2,902.28	3/4	3,290.74	3/4	3,679.21
6	190.69	6	579.28	6	967.41	6	1,356.02	6	1,744.62	6	2,133.23	6	2,521.84	6	2,910.37	6	3,298.84	6	3,687.30
1/4	198.78	1/4	587.38	1/4	975.50	1/4	1,364.11	1/4	1,752.72	1/4	2,141.33	1/4	2,529.94	1/4	2,918.47	1/4	3,306.93	1/4	3,695.39
1/2	206.88	1/2	595.48	1/2	983.60	1/2	1,372.21	1/2	1,760.82	1/2	2,149.42	1/2	2,538.03	1/2	2,926.56	1/2	3,315.02	1/2	3,703.49
3/4	214.97	3/4	603.57	3/4	991.70	3/4	1,380.30	3/4	1,768.91	3/4	2,157.52	3/4	2,546.13	3/4	2,934.65	3/4	3,323.11	3/4	3,711.58
7	223.07	7	611.67	7	999.79	7	1,388.40	7	1,777.01	7	2,165.62	7	2,554.22	7	2,942.74	7	3,331.21	7	3,719.67
1/4	231.16	1/4	619.76	1/4	1,007.89	1/4	1,396.50	1/4	1,785.10	1/4	2,173.71	1/4	2,562.32	1/4	2,950.84	1/4	3,339.30	1/4	3,727.76
1/2	239.26	1/2	627.85	1/2	1,015.98	1/2	1,404.59	1/2	1,793.20	1/2	2,181.81	1/2	2,570.42	1/2	2,958.93	1/2	3,347.39	1/2	3,735.86
3/4	247.36	3/4	635.94	3/4	1,024.08	3/4	1,412.69	3/4	1,801.30	3/4	2,189.90	3/4	2,578.51	3/4	2,967.02	3/4	3,355.49	3/4	3,743.95
8	255.45	8	644.03	8	1,032.18	8	1,420.78	8	1,809.39	8	2,198.00	8	2,586.61	8	2,975.12	8	3,363.58	8	3,752.04
1/4	263.55	1/4	652.11	1/4	1,040.27	1/4	1,428.88	1/4	1,817.49	1/4	2,206.10	1/4	2,594.70	1/4	2,983.21	1/4	3,371.67	1/4	3,760.14
1/2	271.64	1/2	660.19	1/2	1,048.37	1/2	1,436.98	1/2	1,825.58	1/2	2,214.19	1/2	2,602.80	1/2	2,991.30	1/2	3,379.77	1/2	3,768.23
3/4	279.74	3/4	668.27	3/4	1,056.46	3/4	1,445.07	3/4	1,833.68	3/4	2,222.29	3/4	2,610.90	3/4	2,999.40	3/4	3,387.86	3/4	3,776.32
9	287.83	9	676.35	9	1,064.56	9	1,453.17	9	1,841.78	9	2,230.38	9	2,618.99	9	3,007.49	9	3,395.95	9	3,784.42
1/4	295.93	1/4	684.43	1/4	1,072.66	1/4	1,461.26	1/4	1,849.87	1/4	2,238.48	1/4	2,627.09	1/4	3,015.58	1/4	3,404.04	1/4	3,792.51
1/2	304.03	1/2	692.51	1/2	1,080.75	1/2	1,469.36	1/2	1,857.97	1/2	2,246.58	1/2	2,635.18	1/2	3,023.67	1/2	3,412.14	1/2	3,800.60
3/4	312.12	3/4	700.59	3/4	1,088.85	3/4	1,477.46	3/4	1,866.06	3/4	2,254.67	3/4	2,643.28	3/4	3,031.77	3/4	3,420.23	3/4	3,808.69
10	320.22	10	708.67	10	1,096.94	10	1,485.55	10	1,874.16	10	2,262.77	10	2,651.38	10	3,039.86	10	3,428.32	10	3,816.79
1/4	328.31	1/4	716.76	1/4	1,105.04	1/4	1,493.65	1/4	1,882.26	1/4	2,270.86	1/4	2,659.47	1/4	3,047.95	1/4	3,436.42	1/4	3,824.88
1/2	336.41	1/2	724.84	1/2	1,113.14	1/2	1,501.74	1/2	1,890.35	1/2	2,278.96	1/2	2,667.57	1/2	3,056.05	1/2	3,444.51	1/2	3,832.97
3/4	344.51	3/4	732.92	3/4	1,121.23	3/4	1,509.84	3/4	1,898.45	3/4	2,287.06	3/4	2,675.66	3/4	3,064.14	3/4	3,452.60	3/4	3,841.07
11	352.60	11	741.00	11	1,129.33	11	1,517.94	11	1,906.54	11	2,295.15	11	2,683.76	11	3,072.23	11	3,460.70	11	3,849.16
1/4	360.70	1/4	749.08	1/4	1,137.42	1/4	1,526.03	1/4	1,914.64	1/4	2,303.25	1/4	2,691.86	1/4	3,080.32	1/4	3,468.79	1/4	3,857.25
1/2	368.79	1/2	757.16	1/2	1,145.52	1/2	1,534.13	1/2	1,922.74	1/2	2,311.34	1/2	2,699.95	1/2	3,088.42	1/2	3,476.88	1/2	3,865.35
3/4	376.89	3/4	765.24	3/4	1,153.62	3/4	1,542.22	3/4	1,930.83	3/4	2,319.44	3/4	2,708.05	3/4	3,096.51	3/4	3,484.97	3/4	3,873.44

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 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

2 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,881.53	0	4,270.00	0	4,656.57	0	5,026.93	0	5,376.86	0		0		0		0		0	
1/4	3,889.62	1/4	4,278.09	1/4	4,664.47	1/4	5,034.40	1/4	5,383.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,897.72	1/2	4,286.18	1/2	4,672.38	1/2	5,041.87	1/2	5,391.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,905.81	3/4	4,294.27	3/4	4,680.28	3/4	5,049.34	3/4	5,398.10	3/4		3/4		3/4		3/4		3/4	
1	3,913.90	1	4,302.37	1	4,688.18	1	5,056.81	1	5,405.18	1		1		1		1		1	
1/4	3,922.00	1/4	4,310.46	1/4	4,696.05	1/4	5,064.24	1/4	5,412.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,930.09	1/2	4,318.55	1/2	4,703.92	1/2	5,071.68	1/2	5,419.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,938.18	3/4	4,326.65	3/4	4,711.80	3/4	5,079.11	3/4	5,426.32	3/4		3/4		3/4		3/4		3/4	
2	3,946.28	2	4,334.74	2	4,719.67	2	5,086.55	2	5,433.37	2		2		2		2		2	
1/4	3,954.37	1/4	4,342.83	1/4	4,727.50	1/4	5,093.95	1/4	5,440.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,962.46	1/2	4,350.93	1/2	4,735.34	1/2	5,101.35	1/2	5,448.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,970.55	3/4	4,359.02	3/4	4,743.18	3/4	5,108.76	3/4	5,455.60	3/4		3/4		3/4		3/4		3/4	
3	3,978.65	3	4,367.11	3	4,751.02	3	5,116.16	3	5,463.01	3		3		3		3		3	
1/4	3,986.74	1/4	4,375.20	1/4	4,758.83	1/4	5,123.53	1/4	5,470.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,994.83	1/2	4,383.30	1/2	4,766.63	1/2	5,130.90	1/2	5,478.51	1/2		1/2		1/2		1/2		1/2	
3/4	4,002.93	3/4	4,391.39	3/4	4,774.44	3/4	5,138.27	3/4	5,486.26	3/4		3/4		3/4		3/4		3/4	
4	4,011.02	4	4,399.48	4	4,782.24	4	5,145.64	4	5,494.01	4		4		4		4		4	
1/4	4,019.11	1/4	4,407.58	1/4	4,790.02	1/4	5,152.98	1/4	5,500.77	1/4		1/4		1/4		1/4		1/4	
1/2	4,027.21	1/2	4,415.67	1/2	4,797.79	1/2	5,160.32	1/2	5,507.52	1/2		1/2		1/2		1/2		1/2	
3/4	4,035.30	3/4	4,423.76	3/4	4,805.56	3/4	5,167.66	3/4	5,514.28	3/4		3/4		3/4		3/4		3/4	
5	4,043.39	5	4,431.86	5	4,813.34	5	5,175.00	5	5,521.03	5		5		5		5		5	
1/4	4,051.48	1/4	4,439.95	1/4	4,821.08	1/4	5,182.31	1/4	5,526.44	1/4		1/4		1/4		1/4		1/4	
1/2	4,059.58	1/2	4,448.04	1/2	4,828.82	1/2	5,189.61	1/2	5,531.84	1/2		1/2		1/2		1/2		1/2	
3/4	4,067.67	3/4	4,456.13	3/4	4,836.56	3/4	5,196.92	3/4	5,537.25	3/4		3/4		3/4		3/4		3/4	
6	4,075.76	6	4,464.23	6	4,844.30	6	5,204.22	6	5,542.65	6		6		6		6		6	
1/4	4,083.86	1/4	4,472.31	1/4	4,852.01	1/4	5,211.50	1/4	5,546.71	1/4		1/4		1/4		1/4		1/4	
1/2	4,091.95	1/2	4,480.40	1/2	4,859.72	1/2	5,218.77	1/2	5,550.76	1/2		1/2		1/2		1/2		1/2	
3/4	4,100.04	3/4	4,488.49	3/4	4,867.43	3/4	5,226.05	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,108.14	7	4,496.57	7	4,875.14	7	5,233.32	7		7		7		7		7		7	
1/4	4,116.23	1/4	4,504.64	1/4	4,882.82	1/4	5,240.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,124.32	1/2	4,512.70	1/2	4,890.49	1/2	5,247.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,132.41	3/4	4,520.77	3/4	4,898.17	3/4	5,255.05	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,140.51	8	4,528.83	8	4,905.85	8	5,262.29	8		8		8		8		8		8	
1/4	4,148.60	1/4	4,536.86	1/4	4,913.49	1/4	5,269.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,156.69	1/2	4,544.89	1/2	4,921.14	1/2	5,276.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,164.79	3/4	4,552.93	3/4	4,928.78	3/4	5,283.91	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,172.88	9	4,560.96	9	4,936.42	9	5,291.12	9		9		9		9		9		9	
1/4	4,180.97	1/4	4,568.96	1/4	4,944.02	1/4	5,298.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,189.07	1/2	4,576.96	1/2	4,951.61	1/2	5,305.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,197.16	3/4	4,584.96	3/4	4,959.21	3/4	5,312.65	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,205.25	10	4,592.96	10	4,966.80	10	5,319.83	10		10		10		10		10		10	
1/4	4,213.34	1/4	4,600.93	1/4	4,974.33	1/4	5,326.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,221.44	1/2	4,608.89	1/2	4,981.87	1/2	5,334.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,229.53	3/4	4,616.86	3/4	4,989.40	3/4	5,341.27	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,237.62	11	4,624.83	11	4,996.93	11	5,348.41	11		11		11		11		11		11	
1/4	4,245.72	1/4	4,632.76	1/4	5,004.43	1/4	5,355.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,253.81	1/2	4,640.70	1/2	5,011.93	1/2	5,362.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,261.90	3/4	4,648.64	3/4	5,019.43	3/4	5,369.75	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

2 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

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	11.88	0	384.30	0	771.95	0	1,152.94	0	1,532.59	0	1,920.51	0	2,308.42	0	2,696.33	0	3,084.11	0	3,471.88
1/4	16.93	1/4	392.38	1/4	780.01	1/4	1,160.71	1/4	1,540.67	1/4	1,928.59	1/4	2,316.50	1/4	2,704.41	1/4	3,092.19	1/4	3,479.96
1/2	21.98	1/2	400.46	1/2	788.08	1/2	1,168.48	1/2	1,548.75	1/2	1,936.67	1/2	2,324.59	1/2	2,712.49	1/2	3,100.26	1/2	3,488.04
3/4	27.04	3/4	408.54	3/4	796.15	3/4	1,176.25	3/4	1,556.83	3/4	1,944.75	3/4	2,332.67	3/4	2,720.57	3/4	3,108.34	3/4	3,496.12
1	32.09	1	416.63	1	804.21	1	1,184.02	1	1,564.92	1	1,952.83	1	2,340.75	1	2,728.65	1	3,116.42	1	3,504.19
1/4	39.33	1/4	424.71	1/4	812.28	1/4	1,191.78	1/4	1,573.00	1/4	1,960.91	1/4	2,348.83	1/4	2,736.73	1/4	3,124.50	1/4	3,512.27
1/2	46.57	1/2	432.79	1/2	820.35	1/2	1,199.55	1/2	1,581.08	1/2	1,969.00	1/2	2,356.91	1/2	2,744.81	1/2	3,132.58	1/2	3,520.35
3/4	53.81	3/4	440.87	3/4	828.41	3/4	1,207.32	3/4	1,589.16	3/4	1,977.08	3/4	2,364.99	3/4	2,752.89	3/4	3,140.66	3/4	3,528.43
2	61.04	2	448.95	2	836.48	2	1,215.09	2	1,597.24	2	1,985.16	2	2,373.08	2	2,760.96	2	3,148.74	2	3,536.51
1/4	69.13	1/4	457.03	1/4	844.55	1/4	1,222.86	1/4	1,605.32	1/4	1,993.24	1/4	2,381.16	1/4	2,769.04	1/4	3,156.82	1/4	3,544.59
1/2	77.21	1/2	465.11	1/2	852.61	1/2	1,230.63	1/2	1,613.40	1/2	2,001.32	1/2	2,389.24	1/2	2,777.12	1/2	3,164.89	1/2	3,552.67
3/4	85.29	3/4	473.20	3/4	860.68	3/4	1,238.39	3/4	1,621.49	3/4	2,009.40	3/4	2,397.32	3/4	2,785.20	3/4	3,172.97	3/4	3,560.75
3	93.37	3	481.28	3	868.75	3	1,246.16	3	1,629.57	3	2,017.48	3	2,405.40	3	2,793.28	3	3,181.05	3	3,568.82
1/4	101.45	1/4	489.36	1/4	876.82	1/4	1,253.93	1/4	1,637.65	1/4	2,025.57	1/4	2,413.48	1/4	2,801.36	1/4	3,189.13	1/4	3,576.90
1/2	109.53	1/2	497.44	1/2	884.89	1/2	1,261.70	1/2	1,645.73	1/2	2,033.65	1/2	2,421.56	1/2	2,809.44	1/2	3,197.21	1/2	3,584.98
3/4	117.61	3/4	505.52	3/4	892.96	3/4	1,269.47	3/4	1,653.81	3/4	2,041.73	3/4	2,429.65	3/4	2,817.51	3/4	3,205.29	3/4	3,593.06
4	125.70	4	513.60	4	901.04	4	1,277.24	4	1,661.89	4	2,049.81	4	2,437.73	4	2,825.59	4	3,213.37	4	3,601.14
1/4	133.78	1/4	521.68	1/4	909.12	1/4	1,285.00	1/4	1,669.98	1/4	2,057.89	1/4	2,445.81	1/4	2,833.67	1/4	3,221.44	1/4	3,609.22
1/2	141.86	1/2	529.77	1/2	917.20	1/2	1,292.77	1/2	1,678.06	1/2	2,065.97	1/2	2,453.89	1/2	2,841.75	1/2	3,229.52	1/2	3,617.30
3/4	149.94	3/4	537.85	3/4	925.28	3/4	1,300.54	3/4	1,686.14	3/4	2,074.06	3/4	2,461.97	3/4	2,849.83	3/4	3,237.60	3/4	3,625.37
5	158.02	5	545.93	5	933.36	5	1,308.31	5	1,694.22	5	2,082.14	5	2,470.05	5	2,857.91	5	3,245.68	5	3,633.45
1/4	166.10	1/4	554.01	1/4	941.44	1/4	1,316.08	1/4	1,702.30	1/4	2,090.22	1/4	2,478.14	1/4	2,865.99	1/4	3,253.76	1/4	3,641.53
1/2	174.18	1/2	562.09	1/2	949.52	1/2	1,323.85	1/2	1,710.38	1/2	2,098.30	1/2	2,486.22	1/2	2,874.06	1/2	3,261.84	1/2	3,649.61
3/4	182.27	3/4	570.17	3/4	957.61	3/4	1,331.62	3/4	1,718.47	3/4	2,106.38	3/4	2,494.30	3/4	2,882.14	3/4	3,269.92	3/4	3,657.69
6	190.35	6	578.25	6	965.69	6	1,339.40	6	1,726.55	6	2,114.46	6	2,502.38	6	2,890.22	6	3,277.99	6	3,665.77
1/4	198.43	1/4	586.34	1/4	973.65	1/4	1,347.29	1/4	1,734.63	1/4	2,122.55	1/4	2,510.46	1/4	2,898.30	1/4	3,286.07	1/4	3,673.85
1/2	206.51	1/2	594.42	1/2	981.62	1/2	1,355.18	1/2	1,742.71	1/2	2,130.63	1/2	2,518.54	1/2	2,906.38	1/2	3,294.15	1/2	3,681.92
3/4	214.59	3/4	602.50	3/4	989.59	3/4	1,363.07	3/4	1,750.79	3/4	2,138.71	3/4	2,526.63	3/4	2,914.46	3/4	3,302.23	3/4	3,690.00
7	222.67	7	610.58	7	997.56	7	1,370.96	7	1,758.87	7	2,146.79	7	2,534.71	7	2,922.54	7	3,310.31	7	3,698.08
1/4	230.75	1/4	618.66	1/4	1,005.33	1/4	1,379.04	1/4	1,766.96	1/4	2,154.87	1/4	2,542.79	1/4	2,930.61	1/4	3,318.39	1/4	3,706.16
1/2	238.84	1/2	626.73	1/2	1,013.10	1/2	1,387.12	1/2	1,775.04	1/2	2,162.95	1/2	2,550.87	1/2	2,938.69	1/2	3,326.47	1/2	3,714.24
3/4	246.92	3/4	634.81	3/4	1,020.87	3/4	1,395.20	3/4	1,783.12	3/4	2,171.04	3/4	2,558.95	3/4	2,946.77	3/4	3,334.54	3/4	3,722.32
8	255.00	8	642.88	8	1,028.65	8	1,403.28	8	1,791.20	8	2,179.12	8	2,567.03	8	2,954.85	8	3,342.62	8	3,730.40
1/4	263.08	1/4	650.95	1/4	1,036.42	1/4	1,411.36	1/4	1,799.28	1/4	2,187.20	1/4	2,575.12	1/4	2,962.93	1/4	3,350.70	1/4	3,738.47
1/2	271.16	1/2	659.01	1/2	1,044.18	1/2	1,419.45	1/2	1,807.36	1/2	2,195.28	1/2	2,583.20	1/2	2,971.01	1/2	3,358.78	1/2	3,746.55
3/4	279.24	3/4	667.08	3/4	1,051.95	3/4	1,427.53	3/4	1,815.44	3/4	2,203.36	3/4	2,591.28	3/4	2,979.09	3/4	3,366.86	3/4	3,754.63
9	287.32	9	675.15	9	1,059.72	9	1,435.61	9	1,823.53	9	2,211.44	9	2,599.36	9	2,987.16	9	3,374.94	9	3,762.71
1/4	295.41	1/4	683.21	1/4	1,067.49	1/4	1,443.69	1/4	1,831.61	1/4	2,219.52	1/4	2,607.44	1/4	2,995.24	1/4	3,383.02	1/4	3,770.79
1/2	303.49	1/2	691.28	1/2	1,075.26	1/2	1,451.77	1/2	1,839.69	1/2	2,227.61	1/2	2,615.52	1/2	3,003.32	1/2	3,391.09	1/2	3,778.87
3/4	311.57	3/4	699.35	3/4	1,083.03	3/4	1,459.85	3/4	1,847.77	3/4	2,235.69	3/4	2,623.60	3/4	3,011.40	3/4	3,399.17	3/4	3,786.95
10	319.65	10	707.41	10	1,090.79	10	1,467.94	10	1,855.85	10	2,243.77	10	2,631.69	10	3,019.48	10	3,407.25	10	3,795.02
1/4	327.73	1/4	715.48	1/4	1,098.56	1/4	1,476.02	1/4	1,863.93	1/4	2,251.85	1/4	2,639.77	1/4	3,027.56	1/4	3,415.33	1/4	3,803.10
1/2	335.81	1/2	723.55	1/2	1,106.33	1/2	1,484.10	1/2	1,872.02	1/2	2,259.93	1/2	2,647.85	1/2	3,035.64	1/2	3,423.41	1/2	3,811.18
3/4	343.89	3/4	731.61	3/4	1,114.10	3/4	1,492.18	3/4	1,880.10	3/4	2,268.01	3/4	2,655.93	3/4	3,043.71	3/4	3,431.49	3/4	3,819.26
11	351.97	11	739.68	11	1,121.87	11	1,500.26	11	1,888.18	11	2,276.10	11	2,664.01	11	3,051.79	11	3,439.57	11	3,827.34
1/4	360.06	1/4	747.75	1/4	1,129.64	1/4	1,508.34	1/4	1,896.26	1/4	2,284.18	1/4	2,672.09	1/4	3,059.87	1/4	3,447.64	1/4	3,835.42
1/2	368.14	1/2	755.81	1/2	1,137.40	1/2	1,516.43	1/2	1,904.34	1/2	2,292.26	1/2	2,680.17	1/2	3,067.95	1/2	3,455.72	1/2	3,843.50
3/4	376.22	3/4	763.88	3/4	1,145.17	3/4	1,524.51	3/4	1,912.42	3/4	2,300.34	3/4	2,688.25	3/4	3,076.03	3/4	3,463.80	3/4	3,851.57

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 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

2 STBD INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	3,859.65	0	4,247.43	0	4,633.31	0	5,002.97	0	5,352.20	0		0		0		0		0	
1/4	3,867.73	1/4	4,255.50	1/4	4,641.20	1/4	5,010.43	1/4	5,359.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,875.81	1/2	4,263.58	1/2	4,649.09	1/2	5,017.88	1/2	5,366.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,883.89	3/4	4,271.66	3/4	4,656.97	3/4	5,025.33	3/4	5,373.39	3/4		3/4		3/4		3/4		3/4	
1	3,891.97	1	4,279.74	1	4,664.86	1	5,032.79	1	5,380.46	1		1		1		1		1	
1/4	3,900.05	1/4	4,287.82	1/4	4,672.72	1/4	5,040.21	1/4	5,387.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,908.12	1/2	4,295.90	1/2	4,680.58	1/2	5,047.63	1/2	5,394.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,916.20	3/4	4,303.98	3/4	4,688.43	3/4	5,055.05	3/4	5,401.56	3/4		3/4		3/4		3/4		3/4	
2	3,924.28	2	4,312.05	2	4,696.29	2	5,062.47	2	5,408.59	2		2		2		2		2	
1/4	3,932.36	1/4	4,320.13	1/4	4,704.11	1/4	5,069.86	1/4	5,415.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,940.44	1/2	4,328.21	1/2	4,711.94	1/2	5,077.25	1/2	5,423.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,948.52	3/4	4,336.29	3/4	4,719.76	3/4	5,084.64	3/4	5,430.77	3/4		3/4		3/4		3/4		3/4	
3	3,956.60	3	4,344.37	3	4,727.58	3	5,092.03	3	5,438.17	3		3		3		3		3	
1/4	3,964.68	1/4	4,352.45	1/4	4,735.37	1/4	5,099.38	1/4	5,445.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,972.75	1/2	4,360.53	1/2	4,743.17	1/2	5,106.74	1/2	5,453.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,980.83	3/4	4,368.61	3/4	4,750.96	3/4	5,114.09	3/4	5,461.38	3/4		3/4		3/4		3/4		3/4	
4	3,988.91	4	4,376.68	4	4,758.75	4	5,121.45	4	5,469.12	4		4		4		4		4	
1/4	3,996.99	1/4	4,384.76	1/4	4,766.51	1/4	5,128.77	1/4	5,475.86	1/4		1/4		1/4		1/4		1/4	
1/2	4,005.07	1/2	4,392.84	1/2	4,774.27	1/2	5,136.10	1/2	5,482.60	1/2		1/2		1/2		1/2		1/2	
3/4	4,013.15	3/4	4,400.92	3/4	4,782.03	3/4	5,143.42	3/4	5,489.34	3/4		3/4		3/4		3/4		3/4	
5	4,021.23	5	4,409.00	5	4,789.79	5	5,150.75	5	5,496.08	5		5		5		5		5	
1/4	4,029.30	1/4	4,417.08	1/4	4,797.51	1/4	5,158.04	1/4	5,501.48	1/4		1/4		1/4		1/4		1/4	
1/2	4,037.38	1/2	4,425.16	1/2	4,805.24	1/2	5,165.33	1/2	5,506.87	1/2		1/2		1/2		1/2		1/2	
3/4	4,045.46	3/4	4,433.23	3/4	4,812.97	3/4	5,172.62	3/4	5,512.27	3/4		3/4		3/4		3/4		3/4	
6	4,053.54	6	4,441.31	6	4,820.69	6	5,179.91	6	5,517.66	6		6		6		6		6	
1/4	4,061.62	1/4	4,449.38	1/4	4,828.39	1/4	5,187.17	1/4	5,521.71	1/4		1/4		1/4		1/4		1/4	
1/2	4,069.70	1/2	4,457.45	1/2	4,836.08	1/2	5,194.43	1/2	5,525.76	1/2		1/2		1/2		1/2		1/2	
3/4	4,077.78	3/4	4,465.53	3/4	4,843.78	3/4	5,201.69	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,085.85	7	4,473.60	7	4,851.47	7	5,208.95	7		7		7		7		7		7	
1/4	4,093.93	1/4	4,481.65	1/4	4,859.13	1/4	5,216.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,102.01	1/2	4,489.70	1/2	4,866.80	1/2	5,223.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,110.09	3/4	4,497.75	3/4	4,874.46	3/4	5,230.63	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,118.17	8	4,505.80	8	4,882.12	8	5,237.86	8		8		8		8		8		8	
1/4	4,126.25	1/4	4,513.82	1/4	4,889.75	1/4	5,245.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,134.33	1/2	4,521.83	1/2	4,897.38	1/2	5,252.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,142.40	3/4	4,529.85	3/4	4,905.01	3/4	5,259.44	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,150.48	9	4,537.87	9	4,912.64	9	5,266.64	9		9		9		9		9		9	
1/4	4,158.56	1/4	4,545.86	1/4	4,920.22	1/4	5,273.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,166.64	1/2	4,553.84	1/2	4,927.80	1/2	5,280.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,174.72	3/4	4,561.83	3/4	4,935.38	3/4	5,288.12	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,182.80	10	4,569.81	10	4,942.96	10	5,295.29	10		10		10		10		10		10	
1/4	4,190.88	1/4	4,577.77	1/4	4,950.48	1/4	5,302.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,198.95	1/2	4,585.72	1/2	4,957.99	1/2	5,309.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,207.03	3/4	4,593.67	3/4	4,965.51	3/4	5,316.68	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,215.11	11	4,601.63	11	4,973.03	11	5,323.81	11		11		11		11		11		11	
1/4	4,223.19	1/4	4,609.55	1/4	4,980.52	1/4	5,330.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,231.27	1/2	4,617.47	1/2	4,988.00	1/2	5,338.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,239.35	3/4	4,625.39	3/4	4,995.49	3/4	5,345.10	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

3 PORT INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	11.11	0	358.37	0	719.82	0	1,080.28	0	1,441.93	0	1,803.58	0	2,165.22	0	2,526.80	0	2,888.00	0	3,249.20
1/4	15.82	1/4	365.91	1/4	727.35	1/4	1,087.82	1/4	1,449.47	1/4	1,811.11	1/4	2,172.76	1/4	2,534.33	1/4	2,895.53	1/4	3,256.73
1/2	20.53	1/2	373.45	1/2	734.87	1/2	1,095.35	1/2	1,457.00	1/2	1,818.65	1/2	2,180.29	1/2	2,541.85	1/2	2,903.05	1/2	3,264.25
3/4	25.24	3/4	380.98	3/4	742.39	3/4	1,102.89	3/4	1,464.53	3/4	1,826.18	3/4	2,187.83	3/4	2,549.38	3/4	2,910.58	3/4	3,271.78
1	29.95	1	388.52	1	749.91	1	1,110.42	1	1,472.07	1	1,833.71	1	2,195.36	1	2,556.90	1	2,918.10	1	3,279.30
1/4	36.70	1/4	396.05	1/4	757.42	1/4	1,117.96	1/4	1,479.60	1/4	1,841.25	1/4	2,202.90	1/4	2,564.43	1/4	2,925.63	1/4	3,286.83
1/2	43.45	1/2	403.59	1/2	764.93	1/2	1,125.49	1/2	1,487.14	1/2	1,848.78	1/2	2,210.43	1/2	2,571.95	1/2	2,933.15	1/2	3,294.35
3/4	50.20	3/4	411.12	3/4	772.44	3/4	1,133.02	3/4	1,494.67	3/4	1,856.32	3/4	2,217.96	3/4	2,579.48	3/4	2,940.68	3/4	3,301.88
2	56.95	2	418.66	2	779.94	2	1,140.56	2	1,502.21	2	1,863.85	2	2,225.50	2	2,587.00	2	2,948.20	2	3,309.40
1/4	64.49	1/4	426.20	1/4	787.43	1/4	1,148.09	1/4	1,509.74	1/4	1,871.39	1/4	2,233.03	1/4	2,594.53	1/4	2,955.73	1/4	3,316.93
1/2	72.02	1/2	433.73	1/2	794.92	1/2	1,155.63	1/2	1,517.27	1/2	1,878.92	1/2	2,240.57	1/2	2,602.05	1/2	2,963.25	1/2	3,324.45
3/4	79.56	3/4	441.27	3/4	802.41	3/4	1,163.16	3/4	1,524.81	3/4	1,886.45	3/4	2,248.10	3/4	2,609.58	3/4	2,970.78	3/4	3,331.98
3	87.09	3	448.80	3	809.90	3	1,170.70	3	1,532.34	3	1,893.99	3	2,255.64	3	2,617.10	3	2,978.30	3	3,339.50
1/4	94.63	1/4	456.34	1/4	817.39	1/4	1,178.23	1/4	1,539.88	1/4	1,901.52	1/4	2,263.17	1/4	2,624.63	1/4	2,985.83	1/4	3,347.03
1/2	102.16	1/2	463.87	1/2	824.89	1/2	1,185.76	1/2	1,547.41	1/2	1,909.06	1/2	2,270.70	1/2	2,632.15	1/2	2,993.35	1/2	3,354.55
3/4	109.70	3/4	471.41	3/4	832.38	3/4	1,193.30	3/4	1,554.95	3/4	1,916.59	3/4	2,278.24	3/4	2,639.68	3/4	3,000.88	3/4	3,362.08
4	117.24	4	478.94	4	839.88	4	1,200.83	4	1,562.48	4	1,924.13	4	2,285.77	4	2,647.20	4	3,008.40	4	3,369.60
1/4	124.77	1/4	486.48	1/4	847.38	1/4	1,208.37	1/4	1,570.01	1/4	1,931.66	1/4	2,293.31	1/4	2,654.73	1/4	3,015.93	1/4	3,377.13
1/2	132.31	1/2	494.02	1/2	854.88	1/2	1,215.90	1/2	1,577.55	1/2	1,939.19	1/2	2,300.84	1/2	2,662.25	1/2	3,023.45	1/2	3,384.65
3/4	139.84	3/4	501.55	3/4	862.39	3/4	1,223.44	3/4	1,585.08	3/4	1,946.73	3/4	2,308.38	3/4	2,669.78	3/4	3,030.98	3/4	3,392.18
5	147.38	5	509.09	5	869.89	5	1,230.97	5	1,592.62	5	1,954.26	5	2,315.91	5	2,677.30	5	3,038.50	5	3,399.70
1/4	154.91	1/4	516.62	1/4	877.39	1/4	1,238.50	1/4	1,600.15	1/4	1,961.80	1/4	2,323.44	1/4	2,684.83	1/4	3,046.03	1/4	3,407.22
1/2	162.45	1/2	524.16	1/2	884.90	1/2	1,246.04	1/2	1,607.69	1/2	1,969.33	1/2	2,330.98	1/2	2,692.35	1/2	3,053.55	1/2	3,414.73
3/4	169.98	3/4	531.69	3/4	892.40	3/4	1,253.57	3/4	1,615.22	3/4	1,976.87	3/4	2,338.51	3/4	2,699.88	3/4	3,061.08	3/4	3,422.25
6	177.52	6	539.23	6	899.91	6	1,261.11	6	1,622.75	6	1,984.40	6	2,346.05	6	2,707.40	6	3,068.60	6	3,429.76
1/4	185.06	1/4	546.76	1/4	907.41	1/4	1,268.64	1/4	1,630.29	1/4	1,991.93	1/4	2,353.58	1/4	2,714.93	1/4	3,076.13	1/4	3,437.26
1/2	192.59	1/2	554.30	1/2	914.91	1/2	1,276.18	1/2	1,637.82	1/2	1,999.47	1/2	2,361.12	1/2	2,722.45	1/2	3,083.65	1/2	3,444.76
3/4	200.13	3/4	561.84	3/4	922.42	3/4	1,283.71	3/4	1,645.36	3/4	2,007.00	3/4	2,368.65	3/4	2,729.98	3/4	3,091.18	3/4	3,452.25
7	207.66	7	569.37	7	929.92	7	1,291.24	7	1,652.89	7	2,014.54	7	2,376.18	7	2,737.50	7	3,098.70	7	3,459.75
1/4	215.20	1/4	576.90	1/4	937.42	1/4	1,298.78	1/4	1,660.43	1/4	2,022.07	1/4	2,383.72	1/4	2,745.03	1/4	3,106.23	1/4	3,467.25
1/2	222.73	1/2	584.43	1/2	944.93	1/2	1,306.31	1/2	1,667.96	1/2	2,029.61	1/2	2,391.25	1/2	2,752.55	1/2	3,113.75	1/2	3,474.75
3/4	230.27	3/4	591.96	3/4	952.43	3/4	1,313.85	3/4	1,675.49	3/4	2,037.14	3/4	2,398.79	3/4	2,760.08	3/4	3,121.28	3/4	3,482.25
8	237.81	8	599.49	8	959.94	8	1,321.38	8	1,683.03	8	2,044.67	8	2,406.32	8	2,767.60	8	3,128.80	8	3,489.75
1/4	245.34	1/4	607.01	1/4	967.44	1/4	1,328.92	1/4	1,690.56	1/4	2,052.21	1/4	2,413.86	1/4	2,775.13	1/4	3,136.33	1/4	3,497.25
1/2	252.88	1/2	614.53	1/2	974.94	1/2	1,336.45	1/2	1,698.10	1/2	2,059.74	1/2	2,421.39	1/2	2,782.65	1/2	3,143.85	1/2	3,504.74
3/4	260.41	3/4	622.05	3/4	982.45	3/4	1,343.99	3/4	1,705.63	3/4	2,067.28	3/4	2,428.92	3/4	2,790.18	3/4	3,151.38	3/4	3,512.24
9	267.95	9	629.58	9	989.95	9	1,351.52	9	1,713.17	9	2,074.81	9	2,436.46	9	2,797.70	9	3,158.90	9	3,519.74
1/4	275.48	1/4	637.10	1/4	997.47	1/4	1,359.05	1/4	1,720.70	1/4	2,082.35	1/4	2,443.99	1/4	2,805.23	1/4	3,166.43	1/4	3,527.24
1/2	283.02	1/2	644.62	1/2	1,004.98	1/2	1,366.59	1/2	1,728.23	1/2	2,089.88	1/2	2,451.52	1/2	2,812.75	1/2	3,173.95	1/2	3,534.74
3/4	290.55	3/4	652.14	3/4	1,012.50	3/4	1,374.12	3/4	1,735.77	3/4	2,097.42	3/4	2,459.06	3/4	2,820.28	3/4	3,181.48	3/4	3,542.24
10	298.09	10	659.66	10	1,020.01	10	1,381.66	10	1,743.30	10	2,104.95	10	2,466.59	10	2,827.80	10	3,189.00	10	3,549.74
1/4	305.63	1/4	667.18	1/4	1,027.54	1/4	1,389.19	1/4	1,750.84	1/4	2,112.48	1/4	2,474.12	1/4	2,835.33	1/4	3,196.53	1/4	3,557.24
1/2	313.16	1/2	674.70	1/2	1,035.08	1/2	1,396.73	1/2	1,758.37	1/2	2,120.02	1/2	2,481.64	1/2	2,842.85	1/2	3,204.05	1/2	3,564.74
3/4	320.70	3/4	682.22	3/4	1,042.61	3/4	1,404.26	3/4	1,765.91	3/4	2,127.55	3/4	2,489.17	3/4	2,850.38	3/4	3,211.58	3/4	3,572.24
11	328.23	11	689.74	11	1,050.15	11	1,411.79	11	1,773.44	11	2,135.09	11	2,496.70	11	2,857.90	11	3,219.10	11	3,579.74
1/4	335.77	1/4	697.26	1/4	1,057.68	1/4	1,419.33	1/4	1,780.97	1/4	2,142.62	1/4	2,504.22	1/4	2,865.43	1/4	3,226.63	1/4	3,587.25
1/2	343.30	1/2	704.78	1/2	1,065.22	1/2	1,426.86	1/2	1,788.51	1/2	2,150.16	1/2	2,511.75	1/2	2,872.95	1/2	3,234.15	1/2	3,594.76
3/4	350.84	3/4	712.30	3/4	1,072.75	3/4	1,434.40	3/4	1,796.04	3/4	2,157.69	3/4	2,519.28	3/4	2,880.48	3/4	3,241.68	3/4	3,602.28

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 10'-09" OFF CENTERLINE AND 45'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

3 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	3,609.79	0	3,881.53	0	4,146.57	0	4,396.61	0	4,628.04	0		0		0		0		0	
1/4	3,616.58	1/4	3,887.08	1/4	4,151.95	1/4	4,401.59	1/4	4,632.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,623.37	1/2	3,892.64	1/2	4,157.33	1/2	4,406.58	1/2	4,637.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.17	3/4	3,898.20	3/4	4,162.71	3/4	4,411.57	3/4	4,641.92	3/4		3/4		3/4		3/4		3/4	
1	3,636.96	1	3,903.76	1	4,168.09	1	4,416.55	1	4,646.54	1		1		1		1		1	
1/4	3,642.52	1/4	3,909.32	1/4	4,173.44	1/4	4,421.51	1/4	4,651.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,648.08	1/2	3,914.88	1/2	4,178.79	1/2	4,426.47	1/2	4,655.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,653.64	3/4	3,920.43	3/4	4,184.15	3/4	4,431.43	3/4	4,660.33	3/4		3/4		3/4		3/4		3/4	
2	3,659.19	2	3,925.99	2	4,189.50	2	4,436.38	2	4,664.93	2		2		2		2		2	
1/4	3,664.75	1/4	3,931.55	1/4	4,194.82	1/4	4,441.31	1/4	4,669.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,670.31	1/2	3,937.11	1/2	4,200.14	1/2	4,446.24	1/2	4,674.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.87	3/4	3,942.67	3/4	4,205.46	3/4	4,451.16	3/4	4,679.74	3/4		3/4		3/4		3/4		3/4	
3	3,681.43	3	3,948.22	3	4,210.78	3	4,456.09	3	4,684.67	3		3		3		3		3	
1/4	3,686.98	1/4	3,953.78	1/4	4,216.07	1/4	4,460.99	1/4	4,689.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,692.54	1/2	3,959.34	1/2	4,221.36	1/2	4,465.88	1/2	4,695.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.10	3/4	3,964.90	3/4	4,226.65	3/4	4,470.78	3/4	4,700.46	3/4		3/4		3/4		3/4		3/4	
4	3,703.66	4	3,970.46	4	4,231.94	4	4,475.68	4	4,705.73	4		4		4		4		4	
1/4	3,709.22	1/4	3,976.02	1/4	4,237.21	1/4	4,480.54	1/4	4,710.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,714.78	1/2	3,981.57	1/2	4,242.47	1/2	4,485.41	1/2	4,714.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,720.33	3/4	3,987.13	3/4	4,247.73	3/4	4,490.28	3/4	4,718.79	3/4		3/4		3/4		3/4		3/4	
5	3,725.89	5	3,992.69	5	4,252.99	5	4,495.14	5	4,723.14	5		5		5		5		5	
1/4	3,731.45	1/4	3,998.25	1/4	4,258.22	1/4	4,499.98	1/4	4,726.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,737.01	1/2	4,003.81	1/2	4,263.45	1/2	4,504.82	1/2	4,729.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,742.57	3/4	4,009.37	3/4	4,268.68	3/4	4,509.65	3/4	4,732.43	3/4		3/4		3/4		3/4		3/4	
6	3,748.13	6	4,014.92	6	4,273.91	6	4,514.49	6	4,735.53	6		6		6		6		6	
1/4	3,753.68	1/4	4,020.48	1/4	4,279.11	1/4	4,519.30	1/4	4,737.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.24	1/2	4,026.03	1/2	4,284.31	1/2	4,524.10	1/2	4,739.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,764.80	3/4	4,031.58	3/4	4,289.51	3/4	4,528.91	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,770.36	7	4,037.13	7	4,294.71	7	4,533.72	7		7		7		7		7		7	
1/4	3,775.92	1/4	4,042.67	1/4	4,299.88	1/4	4,538.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,781.48	1/2	4,048.20	1/2	4,305.05	1/2	4,543.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.03	3/4	4,053.73	3/4	4,310.22	3/4	4,548.04	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,792.59	8	4,059.26	8	4,315.39	8	4,552.82	8		8		8		8		8		8	
1/4	3,798.15	1/4	4,064.76	1/4	4,320.53	1/4	4,557.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,803.71	1/2	4,070.27	1/2	4,325.67	1/2	4,562.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,809.27	3/4	4,075.77	3/4	4,330.82	3/4	4,567.06	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,814.83	9	4,081.27	9	4,335.96	9	4,571.81	9		9		9		9		9		9	
1/4	3,820.38	1/4	4,086.74	1/4	4,341.05	1/4	4,576.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,825.94	1/2	4,092.21	1/2	4,346.15	1/2	4,581.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,831.50	3/4	4,097.68	3/4	4,351.25	3/4	4,585.95	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,837.06	10	4,103.16	10	4,356.35	10	4,590.67	10		10		10		10		10		10	
1/4	3,842.62	1/4	4,108.60	1/4	4,361.39	1/4	4,595.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,848.18	1/2	4,114.04	1/2	4,366.44	1/2	4,600.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,853.73	3/4	4,119.48	3/4	4,371.49	3/4	4,604.73	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,859.29	11	4,124.92	11	4,376.54	11	4,609.41	11		11		11		11		11		11	
1/4	3,864.85	1/4	4,130.33	1/4	4,381.55	1/4	4,614.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,870.41	1/2	4,135.74	1/2	4,386.57	1/2	4,618.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,875.97	3/4	4,141.16	3/4	4,391.59	3/4	4,623.38	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

3 STBD INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	11.11	0	357.96	0	718.76	0	1,073.41	0	1,426.92	0	1,787.83	0	2,145.63	0	2,506.39	0	2,866.85	0	3,227.39
1/4	15.82	1/4	365.48	1/4	726.26	1/4	1,080.65	1/4	1,434.44	1/4	1,795.32	1/4	2,153.11	1/4	2,513.90	1/4	2,874.36	1/4	3,234.90
1/2	20.52	1/2	373.01	1/2	733.77	1/2	1,087.88	1/2	1,441.96	1/2	1,802.81	1/2	2,160.58	1/2	2,521.41	1/2	2,881.87	1/2	3,242.41
3/4	25.23	3/4	380.53	3/4	741.28	3/4	1,095.11	3/4	1,449.48	3/4	1,810.30	3/4	2,168.06	3/4	2,528.91	3/4	2,889.38	3/4	3,249.93
1	29.94	1	388.05	1	748.79	1	1,102.34	1	1,457.00	1	1,817.80	1	2,175.54	1	2,536.42	1	2,896.89	1	3,257.44
1/4	36.69	1/4	395.57	1/4	756.29	1/4	1,109.58	1/4	1,464.51	1/4	1,825.25	1/4	2,183.06	1/4	2,543.93	1/4	2,904.41	1/4	3,264.95
1/2	43.44	1/2	403.09	1/2	763.80	1/2	1,116.81	1/2	1,472.03	1/2	1,832.70	1/2	2,190.58	1/2	2,551.44	1/2	2,911.92	1/2	3,272.46
3/4	50.19	3/4	410.61	3/4	771.31	3/4	1,124.04	3/4	1,479.55	3/4	1,840.15	3/4	2,198.10	3/4	2,558.94	3/4	2,919.43	3/4	3,279.97
2	56.94	2	418.14	2	778.81	2	1,131.28	2	1,487.07	2	1,847.60	2	2,205.63	2	2,566.45	2	2,926.94	2	3,287.48
1/4	64.47	1/4	425.66	1/4	786.32	1/4	1,138.51	1/4	1,494.59	1/4	1,855.05	1/4	2,213.15	1/4	2,573.96	1/4	2,934.45	1/4	3,294.99
1/2	72.00	1/2	433.18	1/2	793.83	1/2	1,145.75	1/2	1,502.11	1/2	1,862.50	1/2	2,220.67	1/2	2,581.47	1/2	2,941.96	1/2	3,302.50
3/4	79.54	3/4	440.70	3/4	801.34	3/4	1,152.99	3/4	1,509.63	3/4	1,869.95	3/4	2,228.19	3/4	2,588.97	3/4	2,949.47	3/4	3,310.02
3	87.07	3	448.22	3	808.84	3	1,160.22	3	1,517.15	3	1,877.40	3	2,235.71	3	2,596.48	3	2,956.98	3	3,317.53
1/4	94.61	1/4	455.75	1/4	816.36	1/4	1,167.47	1/4	1,524.67	1/4	1,884.85	1/4	2,243.24	1/4	2,603.99	1/4	2,964.50	1/4	3,325.04
1/2	102.14	1/2	463.27	1/2	823.87	1/2	1,174.71	1/2	1,532.18	1/2	1,892.30	1/2	2,250.76	1/2	2,611.50	1/2	2,972.01	1/2	3,332.55
3/4	109.67	3/4	470.79	3/4	831.38	3/4	1,181.95	3/4	1,539.70	3/4	1,899.76	3/4	2,258.28	3/4	2,619.00	3/4	2,979.52	3/4	3,340.06
4	117.21	4	478.31	4	838.89	4	1,189.19	4	1,547.22	4	1,907.21	4	2,265.80	4	2,626.51	4	2,987.03	4	3,347.57
1/4	124.74	1/4	485.83	1/4	846.42	1/4	1,196.43	1/4	1,554.74	1/4	1,914.66	1/4	2,273.33	1/4	2,634.02	1/4	2,994.54	1/4	3,355.08
1/2	132.28	1/2	493.36	1/2	853.94	1/2	1,203.68	1/2	1,562.26	1/2	1,922.11	1/2	2,280.85	1/2	2,641.53	1/2	3,002.05	1/2	3,362.59
3/4	139.81	3/4	500.88	3/4	861.46	3/4	1,210.92	3/4	1,569.78	3/4	1,929.56	3/4	2,288.37	3/4	2,649.03	3/4	3,009.56	3/4	3,370.11
5	147.34	5	508.40	5	868.98	5	1,218.16	5	1,577.30	5	1,937.01	5	2,295.89	5	2,656.54	5	3,017.07	5	3,377.62
1/4	154.87	1/4	515.92	1/4	876.51	1/4	1,225.41	1/4	1,584.82	1/4	1,944.46	1/4	2,303.41	1/4	2,664.05	1/4	3,024.59	1/4	3,385.12
1/2	162.40	1/2	523.44	1/2	884.03	1/2	1,232.65	1/2	1,592.34	1/2	1,951.91	1/2	2,310.94	1/2	2,671.56	1/2	3,032.10	1/2	3,392.63
3/4	169.93	3/4	530.97	3/4	891.55	3/4	1,239.90	3/4	1,599.85	3/4	1,959.36	3/4	2,318.46	3/4	2,679.07	3/4	3,039.61	3/4	3,400.14
6	177.46	6	538.49	6	899.07	6	1,247.14	6	1,607.37	6	1,966.81	6	2,325.98	6	2,686.58	6	3,047.12	6	3,407.65
1/4	184.98	1/4	546.01	1/4	906.49	1/4	1,254.49	1/4	1,614.89	1/4	1,974.26	1/4	2,333.50	1/4	2,694.09	1/4	3,054.63	1/4	3,415.15
1/2	192.50	1/2	553.53	1/2	913.90	1/2	1,261.84	1/2	1,622.41	1/2	1,981.71	1/2	2,341.03	1/2	2,701.60	1/2	3,062.14	1/2	3,422.65
3/4	200.03	3/4	561.05	3/4	921.32	3/4	1,269.19	3/4	1,629.93	3/4	1,989.16	3/4	2,348.55	3/4	2,709.11	3/4	3,069.65	3/4	3,430.15
7	207.55	7	568.57	7	928.74	7	1,276.54	7	1,637.45	7	1,996.61	7	2,356.07	7	2,716.62	7	3,077.17	7	3,437.64
1/4	215.07	1/4	576.09	1/4	935.97	1/4	1,284.06	1/4	1,644.97	1/4	2,004.07	1/4	2,363.59	1/4	2,724.13	1/4	3,084.68	1/4	3,445.14
1/2	222.59	1/2	583.61	1/2	943.21	1/2	1,291.58	1/2	1,652.49	1/2	2,011.52	1/2	2,371.11	1/2	2,731.65	1/2	3,092.19	1/2	3,452.64
3/4	230.11	3/4	591.13	3/4	950.45	3/4	1,299.10	3/4	1,660.01	3/4	2,018.97	3/4	2,378.64	3/4	2,739.16	3/4	3,099.70	3/4	3,460.14
8	237.63	8	598.64	8	957.69	8	1,306.62	8	1,667.52	8	2,026.42	8	2,386.16	8	2,746.67	8	3,107.21	8	3,467.64
1/4	245.14	1/4	606.15	1/4	964.92	1/4	1,314.14	1/4	1,675.04	1/4	2,033.87	1/4	2,393.68	1/4	2,754.18	1/4	3,114.72	1/4	3,475.14
1/2	252.66	1/2	613.66	1/2	972.15	1/2	1,321.66	1/2	1,682.56	1/2	2,041.32	1/2	2,401.20	1/2	2,761.69	1/2	3,122.23	1/2	3,482.64
3/4	260.18	3/4	621.16	3/4	979.39	3/4	1,329.17	3/4	1,690.08	3/4	2,048.77	3/4	2,408.73	3/4	2,769.20	3/4	3,129.74	3/4	3,490.14
9	267.70	9	628.67	9	986.62	9	1,336.69	9	1,697.60	9	2,056.22	9	2,416.25	9	2,776.71	9	3,137.26	9	3,497.64
1/4	275.22	1/4	636.18	1/4	993.85	1/4	1,344.21	1/4	1,705.12	1/4	2,063.67	1/4	2,423.76	1/4	2,784.22	1/4	3,144.77	1/4	3,505.14
1/2	282.74	1/2	643.69	1/2	1,001.08	1/2	1,351.73	1/2	1,712.64	1/2	2,071.12	1/2	2,431.28	1/2	2,791.74	1/2	3,152.28	1/2	3,512.64
3/4	290.27	3/4	651.19	3/4	1,008.32	3/4	1,359.25	3/4	1,720.16	3/4	2,078.57	3/4	2,438.80	3/4	2,799.25	3/4	3,159.79	3/4	3,520.14
10	297.79	10	658.70	10	1,015.55	10	1,366.77	10	1,727.68	10	2,086.02	10	2,446.32	10	2,806.76	10	3,167.30	10	3,527.64
1/4	305.31	1/4	666.21	1/4	1,022.78	1/4	1,374.29	1/4	1,735.19	1/4	2,093.47	1/4	2,453.83	1/4	2,814.27	1/4	3,174.81	1/4	3,535.14
1/2	312.83	1/2	673.71	1/2	1,030.02	1/2	1,381.81	1/2	1,742.71	1/2	2,100.92	1/2	2,461.34	1/2	2,821.78	1/2	3,182.32	1/2	3,542.64
3/4	320.35	3/4	681.22	3/4	1,037.25	3/4	1,389.33	3/4	1,750.23	3/4	2,108.37	3/4	2,468.85	3/4	2,829.29	3/4	3,189.83	3/4	3,550.14
11	327.87	11	688.73	11	1,044.48	11	1,396.84	11	1,757.75	11	2,115.83	11	2,476.35	11	2,836.80	11	3,197.35	11	3,557.64
1/4	335.40	1/4	696.24	1/4	1,051.71	1/4	1,404.36	1/4	1,765.27	1/4	2,123.28	1/4	2,483.86	1/4	2,844.31	1/4	3,204.86	1/4	3,565.15
1/2	342.92	1/2	703.74	1/2	1,058.95	1/2	1,411.88	1/2	1,772.79	1/2	2,130.73	1/2	2,491.37	1/2	2,851.83	1/2	3,212.37	1/2	3,572.66
3/4	350.44	3/4	711.25	3/4	1,066.18	3/4	1,419.40	3/4	1,780.31	3/4	2,138.18	3/4	2,498.88	3/4	2,859.34	3/4	3,219.88	3/4	3,580.17

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 10'-09" OFF CENTERLINE AND 45'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

3 STBD INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	3,587.68	0	3,859.38	0	4,124.38	0	4,374.38	0	4,605.79	0		0		0		0		0	
1/4	3,594.48	1/4	3,864.93	1/4	4,129.76	1/4	4,379.37	1/4	4,610.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.27	1/2	3,870.49	1/2	4,135.14	1/2	4,384.36	1/2	4,615.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,608.06	3/4	3,876.05	3/4	4,140.52	3/4	4,389.34	3/4	4,619.67	3/4		3/4		3/4		3/4		3/4	
1	3,614.85	1	3,881.60	1	4,145.90	1	4,394.33	1	4,624.30	1		1		1		1		1	
1/4	3,620.41	1/4	3,887.16	1/4	4,151.25	1/4	4,399.29	1/4	4,628.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,625.96	1/2	3,892.72	1/2	4,156.60	1/2	4,404.24	1/2	4,633.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,631.52	3/4	3,898.28	3/4	4,161.95	3/4	4,409.20	3/4	4,638.09	3/4		3/4		3/4		3/4		3/4	
2	3,637.08	2	3,903.83	2	4,167.30	2	4,414.16	2	4,642.68	2		2		2		2		2	
1/4	3,642.64	1/4	3,909.39	1/4	4,172.62	1/4	4,419.08	1/4	4,647.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,648.19	1/2	3,914.95	1/2	4,177.94	1/2	4,424.01	1/2	4,652.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,653.75	3/4	3,920.51	3/4	4,183.26	3/4	4,428.94	3/4	4,657.49	3/4		3/4		3/4		3/4		3/4	
3	3,659.31	3	3,926.06	3	4,188.58	3	4,433.86	3	4,662.42	3		3		3		3		3	
1/4	3,664.87	1/4	3,931.62	1/4	4,193.87	1/4	4,438.76	1/4	4,667.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,670.42	1/2	3,937.18	1/2	4,199.16	1/2	4,443.66	1/2	4,672.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.98	3/4	3,942.74	3/4	4,204.46	3/4	4,448.55	3/4	4,678.21	3/4		3/4		3/4		3/4		3/4	
4	3,681.54	4	3,948.29	4	4,209.75	4	4,453.45	4	4,683.47	4		4		4		4		4	
1/4	3,687.10	1/4	3,953.85	1/4	4,215.01	1/4	4,458.31	1/4	4,688.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,692.65	1/2	3,959.41	1/2	4,220.27	1/2	4,463.18	1/2	4,692.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.21	3/4	3,964.97	3/4	4,225.53	3/4	4,468.05	3/4	4,696.53	3/4		3/4		3/4		3/4		3/4	
5	3,703.77	5	3,970.52	5	4,230.79	5	4,472.91	5	4,700.88	5		5		5		5		5	
1/4	3,709.33	1/4	3,976.08	1/4	4,236.02	1/4	4,477.75	1/4	4,703.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,714.88	1/2	3,981.64	1/2	4,241.25	1/2	4,482.58	1/2	4,707.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,720.44	3/4	3,987.20	3/4	4,246.48	3/4	4,487.42	3/4	4,710.17	3/4		3/4		3/4		3/4		3/4	
6	3,726.00	6	3,992.75	6	4,251.71	6	4,492.26	6	4,713.26	6		6		6		6		6	
1/4	3,731.56	1/4	3,998.31	1/4	4,256.91	1/4	4,497.06	1/4	4,715.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,737.11	1/2	4,003.86	1/2	4,262.11	1/2	4,501.87	1/2	4,716.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,742.67	3/4	4,009.41	3/4	4,267.30	3/4	4,506.67	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,748.23	7	4,014.96	7	4,272.50	7	4,511.48	7		7		7		7		7		7	
1/4	3,753.78	1/4	4,020.49	1/4	4,277.67	1/4	4,516.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,759.34	1/2	4,026.02	1/2	4,282.84	1/2	4,521.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,764.90	3/4	4,031.56	3/4	4,288.01	3/4	4,525.81	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,770.46	8	4,037.09	8	4,293.18	8	4,530.58	8		8		8		8		8		8	
1/4	3,776.01	1/4	4,042.59	1/4	4,298.32	1/4	4,535.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,781.57	1/2	4,048.09	1/2	4,303.46	1/2	4,540.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.13	3/4	4,053.59	3/4	4,308.60	3/4	4,544.82	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,792.69	9	4,059.09	9	4,313.74	9	4,549.57	9		9		9		9		9		9	
1/4	3,798.24	1/4	4,064.56	1/4	4,318.84	1/4	4,554.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,803.80	1/2	4,070.03	1/2	4,323.94	1/2	4,559.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,809.36	3/4	4,075.50	3/4	4,329.03	3/4	4,563.71	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,814.92	10	4,080.97	10	4,334.13	10	4,568.43	10		10		10		10		10		10	
1/4	3,820.47	1/4	4,086.41	1/4	4,339.18	1/4	4,573.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,826.03	1/2	4,091.86	1/2	4,344.22	1/2	4,577.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,831.59	3/4	4,097.30	3/4	4,349.27	3/4	4,582.49	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,837.15	11	4,102.74	11	4,354.32	11	4,587.17	11		11		11		11		11		11	
1/4	3,842.70	1/4	4,108.15	1/4	4,359.33	1/4	4,591.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,848.26	1/2	4,113.56	1/2	4,364.35	1/2	4,596.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,853.82	3/4	4,118.97	3/4	4,369.37	3/4	4,601.14	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 5'- 08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,055	0	2,109	0	3,139	0	4,114	0		0		0		0		0	
1/4	22	1/4	1,077	1/4	2,131	1/4	3,160	1/4	4,134	1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,099	1/2	2,153	1/2	3,181	1/2	4,154	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,120	3/4	2,175	3/4	3,202	3/4	4,173	3/4		3/4		3/4		3/4		3/4	
1	88	1	1,142	1	2,197	1	3,223	1	4,193	1		1		1		1		1	
1/4	110	1/4	1,164	1/4	2,219	1/4	3,243	1/4	4,213	1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	1,186	1/2	2,241	1/2	3,264	1/2	4,232	1/2		1/2		1/2		1/2		1/2	
3/4	154	3/4	1,208	3/4	2,263	3/4	3,285	3/4	4,252	3/4		3/4		3/4		3/4		3/4	
2	176	2	1,230	2	2,285	2	3,306	2	4,271	2		2		2		2		2	
1/4	198	1/4	1,252	1/4	2,306	1/4	3,326	1/4	4,291	1/4		1/4		1/4		1/4		1/4	
1/2	220	1/2	1,274	1/2	2,328	1/2	3,347	1/2	4,310	1/2		1/2		1/2		1/2		1/2	
3/4	242	3/4	1,296	3/4	2,350	3/4	3,368	3/4	4,330	3/4		3/4		3/4		3/4		3/4	
3	264	3	1,318	3	2,372	3	3,388	3	4,349	3		3		3		3		3	
1/4	286	1/4	1,340	1/4	2,393	1/4	3,409	1/4	4,369	1/4		1/4		1/4		1/4		1/4	
1/2	308	1/2	1,362	1/2	2,415	1/2	3,429	1/2	4,388	1/2		1/2		1/2		1/2		1/2	
3/4	330	3/4	1,384	3/4	2,437	3/4	3,450	3/4	4,408	3/4		3/4		3/4		3/4		3/4	
4	352	4	1,406	4	2,459	4	3,470	4	4,427	4		4		4		4		4	
1/4	373	1/4	1,428	1/4	2,480	1/4	3,491	1/4	4,446	1/4		1/4		1/4		1/4		1/4	
1/2	395	1/2	1,450	1/2	2,502	1/2	3,511	1/2	4,465	1/2		1/2		1/2		1/2		1/2	
3/4	417	3/4	1,472	3/4	2,523	3/4	3,532	3/4	4,485	3/4		3/4		3/4		3/4		3/4	
5	439	5	1,494	5	2,545	5	3,552	5	4,504	5		5		5		5		5	
1/4	461	1/4	1,516	1/4	2,567	1/4	3,573	1/4	4,523	1/4		1/4		1/4		1/4		1/4	
1/2	483	1/2	1,538	1/2	2,588	1/2	3,593	1/2	4,542	1/2		1/2		1/2		1/2		1/2	
3/4	505	3/4	1,560	3/4	2,610	3/4	3,613	3/4	4,562	3/4		3/4		3/4		3/4		3/4	
6	527	6	1,582	6	2,631	6	3,634	6	4,581	6		6		6		6		6	
1/4	549	1/4	1,604	1/4	2,653	1/4	3,654	1/4	4,600	1/4		1/4		1/4		1/4		1/4	
1/2	571	1/2	1,626	1/2	2,674	1/2	3,674	1/2	4,619	1/2		1/2		1/2		1/2		1/2	
3/4	593	3/4	1,648	3/4	2,695	3/4	3,695	3/4	4,638	3/4		3/4		3/4		3/4		3/4	
7	615	7	1,670	7	2,717	7	3,715	7	4,657	7		7		7		7		7	
1/4	637	1/4	1,692	1/4	2,738	1/4	3,735	1/4	4,676	1/4		1/4		1/4		1/4		1/4	
1/2	659	1/2	1,714	1/2	2,759	1/2	3,755	1/2	4,695	1/2		1/2		1/2		1/2		1/2	
3/4	681	3/4	1,736	3/4	2,781	3/4	3,775	3/4	4,714	3/4		3/4		3/4		3/4		3/4	
8	703	8	1,758	8	2,802	8	3,795	8	4,733	8		8		8		8		8	
1/4	725	1/4	1,780	1/4	2,823	1/4	3,816	1/4	4,759	1/4		1/4		1/4		1/4		1/4	
1/2	747	1/2	1,802	1/2	2,844	1/2	3,836	1/2	4,785	1/2		1/2		1/2		1/2		1/2	
3/4	769	3/4	1,824	3/4	2,866	3/4	3,856	3/4	4,812	3/4		3/4		3/4		3/4		3/4	
9	791	9	1,845	9	2,887	9	3,876	9		9		9		9		9		9	
1/4	813	1/4	1,867	1/4	2,908	1/4	3,896	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	835	1/2	1,889	1/2	2,929	1/2	3,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	857	3/4	1,911	3/4	2,950	3/4	3,936	3/4		3/4		3/4		3/4		3/4		3/4	
10	879	10	1,933	10	2,971	10	3,956	10		10		10		10		10		10	
1/4	901	1/4	1,955	1/4	2,992	1/4	3,975	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	923	1/2	1,977	1/2	3,014	1/2	3,995	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	945	3/4	1,999	3/4	3,035	3/4	4,015	3/4		3/4		3/4		3/4		3/4		3/4	
11	967	11	2,021	11	3,056	11	4,035	11		11		11		11		11		11	
1/4	989	1/4	2,043	1/4	3,077	1/4	4,055	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,011	1/2	2,065	1/2	3,097	1/2	4,075	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,033	3/4	2,087	3/4	3,118	3/4	4,094	3/4		3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 5'- 08 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	1,055	0	2,109	0	3,139	0	4,114	0		0	6 FT.	0	7 FT.	0	8 FT.	0	9 FT.
1/4	22	1/4	1,077	1/4	2,131	1/4	3,160	1/4	4,134	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	44	1/2	1,099	1/2	2,153	1/2	3,181	1/2	4,154	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	66	3/4	1,120	3/4	2,175	3/4	3,202	3/4	4,173	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
1	88	1	1,142	1	2,197	1	3,223	1	4,193	1		1	6 FT.	1	7 FT.	1	8 FT.	1	9 FT.
1/4	110	1/4	1,164	1/4	2,219	1/4	3,243	1/4	4,213	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	132	1/2	1,186	1/2	2,241	1/2	3,264	1/2	4,232	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	154	3/4	1,208	3/4	2,263	3/4	3,285	3/4	4,252	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
2	176	2	1,230	2	2,285	2	3,306	2	4,271	2		2	6 FT.	2	7 FT.	2	8 FT.	2	9 FT.
1/4	198	1/4	1,252	1/4	2,306	1/4	3,326	1/4	4,291	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	220	1/2	1,274	1/2	2,328	1/2	3,347	1/2	4,310	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	242	3/4	1,296	3/4	2,350	3/4	3,368	3/4	4,330	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
3	264	3	1,318	3	2,372	3	3,388	3	4,349	3		3	6 FT.	3	7 FT.	3	8 FT.	3	9 FT.
1/4	286	1/4	1,340	1/4	2,393	1/4	3,409	1/4	4,369	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	308	1/2	1,362	1/2	2,415	1/2	3,429	1/2	4,388	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	330	3/4	1,384	3/4	2,437	3/4	3,450	3/4	4,408	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
4	352	4	1,406	4	2,459	4	3,470	4	4,427	4		4	6 FT.	4	7 FT.	4	8 FT.	4	9 FT.
1/4	373	1/4	1,428	1/4	2,480	1/4	3,491	1/4	4,446	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	395	1/2	1,450	1/2	2,502	1/2	3,511	1/2	4,465	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	417	3/4	1,472	3/4	2,523	3/4	3,532	3/4	4,485	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
5	439	5	1,494	5	2,545	5	3,552	5	4,504	5		5	6 FT.	5	7 FT.	5	8 FT.	5	9 FT.
1/4	461	1/4	1,516	1/4	2,567	1/4	3,573	1/4	4,523	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	483	1/2	1,538	1/2	2,588	1/2	3,593	1/2	4,542	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	505	3/4	1,560	3/4	2,610	3/4	3,613	3/4	4,562	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
6	527	6	1,582	6	2,631	6	3,634	6	4,581	6		6	6 FT.	6	7 FT.	6	8 FT.	6	9 FT.
1/4	549	1/4	1,604	1/4	2,653	1/4	3,654	1/4	4,600	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	571	1/2	1,626	1/2	2,674	1/2	3,674	1/2	4,619	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	593	3/4	1,648	3/4	2,695	3/4	3,695	3/4	4,638	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
7	615	7	1,670	7	2,717	7	3,715	7	4,657	7		7	6 FT.	7	7 FT.	7	8 FT.	7	9 FT.
1/4	637	1/4	1,692	1/4	2,738	1/4	3,735	1/4	4,676	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	659	1/2	1,714	1/2	2,759	1/2	3,755	1/2	4,695	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	681	3/4	1,736	3/4	2,781	3/4	3,775	3/4	4,714	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
8	703	8	1,758	8	2,802	8	3,795	8	4,733	8		8	6 FT.	8	7 FT.	8	8 FT.	8	9 FT.
1/4	725	1/4	1,780	1/4	2,823	1/4	3,816	1/4	4,759	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	747	1/2	1,802	1/2	2,844	1/2	3,836	1/2	4,785	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	769	3/4	1,824	3/4	2,866	3/4	3,856	3/4	4,812	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
9	791	9	1,845	9	2,887	9	3,876	9		9		9	6 FT.	9	7 FT.	9	8 FT.	9	9 FT.
1/4	813	1/4	1,867	1/4	2,908	1/4	3,896	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	835	1/2	1,889	1/2	2,929	1/2	3,916	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	857	3/4	1,911	3/4	2,950	3/4	3,936	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
10	879	10	1,933	10	2,971	10	3,956	10		10		10	6 FT.	10	7 FT.	10	8 FT.	10	9 FT.
1/4	901	1/4	1,955	1/4	2,992	1/4	3,975	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	923	1/2	1,977	1/2	3,014	1/2	3,995	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	945	3/4	1,999	3/4	3,035	3/4	4,015	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
11	967	11	2,021	11	3,056	11	4,035	11		11		11	6 FT.	11	7 FT.	11	8 FT.	11	9 FT.
1/4	989	1/4	2,043	1/4	3,077	1/4	4,055	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	1,011	1/2	2,065	1/2	3,097	1/2	4,075	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	1,033	3/4	2,087	3/4	3,118	3/4	4,094	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.

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.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



BARGE "CTC 29147"

ULLAGE (HERMETIC)
FORMERLY "E2MS 317"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
3 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/2"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 15, 2023

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

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BARGE "CTC 29147"

1 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	4,569.68	0	4,281.42	0	3,974.83	0	3,651.05	0	3,320.10	0	2,989.14	0	2,658.19	0	2,327.23	0	1,996.22
1/4		1/4	4,565.07	1/4	4,275.19	1/4	3,968.24	1/4	3,644.16	1/4	3,313.20	1/4	2,982.25	1/4	2,651.29	1/4	2,320.34	1/4	1,989.32
1/2		1/2	4,560.47	1/2	4,268.97	1/2	3,961.64	1/2	3,637.26	1/2	3,306.31	1/2	2,975.35	1/2	2,644.40	1/2	2,313.44	1/2	1,982.42
3/4		3/4	4,555.86	3/4	4,262.75	3/4	3,955.05	3/4	3,630.37	3/4	3,299.41	3/4	2,968.46	3/4	2,637.50	3/4	2,306.55	3/4	1,975.53
1		1	4,551.26	1	4,256.52	1	3,948.46	1	3,623.47	1	3,292.52	1	2,961.56	1	2,630.61	1	2,299.65	1	1,968.63
1/4		1/4	4,545.50	1/4	4,250.27	1/4	3,941.83	1/4	3,616.58	1/4	3,285.62	1/4	2,954.67	1/4	2,623.71	1/4	2,292.76	1/4	1,961.73
1/2		1/2	4,539.75	1/2	4,244.02	1/2	3,935.21	1/2	3,609.68	1/2	3,278.73	1/2	2,947.77	1/2	2,616.82	1/2	2,285.86	1/2	1,954.84
3/4		3/4	4,534.00	3/4	4,237.77	3/4	3,928.59	3/4	3,602.79	3/4	3,271.83	3/4	2,940.88	3/4	2,609.92	3/4	2,278.97	3/4	1,947.94
2		2	4,528.24	2	4,231.52	2	3,921.97	2	3,595.89	2	3,264.94	2	2,933.98	2	2,603.03	2	2,272.07	2	1,941.04
1/4		1/4	4,521.64	1/4	4,225.24	1/4	3,915.32	1/4	3,589.00	1/4	3,258.04	1/4	2,927.09	1/4	2,596.13	1/4	2,265.18	1/4	1,934.14
1/2		1/2	4,515.03	1/2	4,218.96	1/2	3,908.67	1/2	3,582.10	1/2	3,251.15	1/2	2,920.19	1/2	2,589.24	1/2	2,258.28	1/2	1,927.25
3/4		3/4	4,508.43	3/4	4,212.68	3/4	3,902.02	3/4	3,575.21	3/4	3,244.25	3/4	2,913.30	3/4	2,582.34	3/4	2,251.39	3/4	1,920.35
3		3	4,501.83	3	4,206.41	3	3,895.37	3	3,568.31	3	3,237.36	3	2,906.40	3	2,575.45	3	2,244.49	3	1,913.45
1/4		1/4	4,495.51	1/4	4,200.10	1/4	3,888.69	1/4	3,561.42	1/4	3,230.46	1/4	2,899.51	1/4	2,568.55	1/4	2,237.60	1/4	1,906.55
1/2		1/2	4,489.20	1/2	4,193.79	1/2	3,882.01	1/2	3,554.52	1/2	3,223.57	1/2	2,892.61	1/2	2,561.66	1/2	2,230.70	1/2	1,899.66
3/4		3/4	4,482.89	3/4	4,187.49	3/4	3,875.34	3/4	3,547.63	3/4	3,216.67	3/4	2,885.72	3/4	2,554.76	3/4	2,223.81	3/4	1,892.76
4		4	4,476.58	4	4,181.18	4	3,868.66	4	3,540.73	4	3,209.78	4	2,878.82	4	2,547.87	4	2,216.91	4	1,885.86
1/4		1/4	4,470.58	1/4	4,174.85	1/4	3,861.95	1/4	3,533.84	1/4	3,202.88	1/4	2,871.93	1/4	2,540.97	1/4	2,210.02	1/4	1,878.96
1/2		1/2	4,464.58	1/2	4,168.51	1/2	3,855.25	1/2	3,526.94	1/2	3,195.99	1/2	2,865.03	1/2	2,534.08	1/2	2,203.12	1/2	1,872.07
3/4		3/4	4,458.57	3/4	4,162.18	3/4	3,848.54	3/4	3,520.05	3/4	3,189.09	3/4	2,858.14	3/4	2,527.18	3/4	2,196.23	3/4	1,865.17
5		5	4,452.57	5	4,155.85	5	3,841.84	5	3,513.15	5	3,182.20	5	2,851.24	5	2,520.29	5	2,189.33	5	1,858.27
1/4		1/4	4,446.54	1/4	4,149.49	1/4	3,835.11	1/4	3,506.26	1/4	3,175.30	1/4	2,844.35	1/4	2,513.39	1/4	2,182.44	1/4	1,851.37
1/2		1/2	4,440.51	1/2	4,143.12	1/2	3,828.37	1/2	3,499.36	1/2	3,168.41	1/2	2,837.45	1/2	2,506.50	1/2	2,175.54	1/2	1,844.48
3/4		3/4	4,434.48	3/4	4,136.76	3/4	3,821.64	3/4	3,492.47	3/4	3,161.51	3/4	2,830.56	3/4	2,499.60	3/4	2,168.65	3/4	1,837.58
6		6	4,428.45	6	4,130.40	6	3,814.91	6	3,485.57	6	3,154.62	6	2,823.66	6	2,492.71	6	2,161.75	6	1,830.68
1/4		1/4	4,422.39	1/4	4,124.01	1/4	3,808.15	1/4	3,478.68	1/4	3,147.72	1/4	2,816.77	1/4	2,485.81	1/4	2,154.86	1/4	1,823.78
1/2		1/2	4,416.34	1/2	4,117.62	1/2	3,801.39	1/2	3,471.78	1/2	3,140.83	1/2	2,809.87	1/2	2,478.92	1/2	2,147.96	1/2	1,816.89
3/4		3/4	4,410.28	3/4	4,111.23	3/4	3,794.63	3/4	3,464.89	3/4	3,133.93	3/4	2,802.98	3/4	2,472.02	3/4	2,141.06	3/4	1,809.99
7		7	4,404.22	7	4,104.85	7	3,787.87	7	3,457.99	7	3,127.04	7	2,796.08	7	2,465.13	7	2,134.17	7	1,803.09
1/4		1/4	4,398.14	1/4	4,098.43	1/4	3,781.08	1/4	3,451.10	1/4	3,120.14	1/4	2,789.19	1/4	2,458.23	1/4	2,127.27	1/4	1,796.19
1/2		1/2	4,392.05	1/2	4,092.01	1/2	3,774.29	1/2	3,444.20	1/2	3,113.25	1/2	2,782.29	1/2	2,451.34	1/2	2,120.37	1/2	1,789.30
3/4		3/4	4,385.97	3/4	4,085.60	3/4	3,767.50	3/4	3,437.31	3/4	3,106.35	3/4	2,775.40	3/4	2,444.44	3/4	2,113.48	3/4	1,782.40
8		8	4,379.88	8	4,079.18	8	3,760.72	8	3,430.41	8	3,099.46	8	2,768.50	8	2,437.55	8	2,106.58	8	1,775.50
1/4		1/4	4,373.77	1/4	4,072.71	1/4	3,753.90	1/4	3,423.52	1/4	3,092.56	1/4	2,761.61	1/4	2,430.65	1/4	2,099.68	1/4	1,768.61
1/2		1/2	4,367.66	1/2	4,066.24	1/2	3,747.09	1/2	3,416.62	1/2	3,085.67	1/2	2,754.71	1/2	2,423.76	1/2	2,092.78	1/2	1,761.71
3/4		3/4	4,361.54	3/4	4,059.77	3/4	3,740.27	3/4	3,409.73	3/4	3,078.77	3/4	2,747.82	3/4	2,416.86	3/4	2,085.89	3/4	1,754.81
9		9	4,355.43	9	4,053.30	9	3,733.45	9	3,402.84	9	3,071.88	9	2,740.92	9	2,409.97	9	2,078.99	9	1,747.91
1/4		1/4	4,349.29	1/4	4,046.79	1/4	3,726.61	1/4	3,395.94	1/4	3,064.98	1/4	2,734.03	1/4	2,403.07	1/4	2,072.09	1/4	1,741.02
1/2		1/2	4,343.15	1/2	4,040.28	1/2	3,719.77	1/2	3,389.05	1/2	3,058.09	1/2	2,727.13	1/2	2,396.18	1/2	2,065.19	1/2	1,734.12
3/4		3/4	4,337.01	3/4	4,033.77	3/4	3,712.93	3/4	3,382.15	3/4	3,051.20	3/4	2,720.24	3/4	2,389.28	3/4	2,058.30	3/4	1,727.22
10		10	4,330.87	10	4,027.26	10	3,706.08	10	3,375.26	10	3,044.30	10	2,713.35	10	2,382.39	10	2,051.40	10	1,720.32
1/4		1/4	4,324.70	1/4	4,020.72	1/4	3,699.21	1/4	3,368.36	1/4	3,037.41	1/4	2,706.45	1/4	2,375.49	1/4	2,044.50	1/4	1,713.43
1/2		1/2	4,318.53	1/2	4,014.18	1/2	3,692.34	1/2	3,361.47	1/2	3,030.51	1/2	2,699.56	1/2	2,368.60	1/2	2,037.60	1/2	1,706.53
3/4		3/4	4,312.37	3/4	4,007.64	3/4	3,685.47	3/4	3,354.57	3/4	3,023.62	3/4	2,692.66	3/4	2,361.71	3/4	2,030.71	3/4	1,699.63
11		11	4,306.20	11	4,001.10	11	3,678.60	11	3,347.68	11	3,016.72	11	2,685.77	11	2,354.81	11	2,023.81	11	1,692.73
1/4		1/4	4,300.00	1/4	3,994.53	1/4	3,671.71	1/4	3,340.78	1/4	3,009.83	1/4	2,678.87	1/4	2,347.92	1/4	2,016.91	1/4	1,685.84
1/2		1/2	4,576.59	1/2	4,293.81	1/2	3,987.97	1/2	3,664.83	1/2	3,333.89	1/2	3,002.93	1/2	2,671.98	1/2	2,341.02	1/2	2,010.01
3/4		3/4	4,573.13	3/4	4,287.61	3/4	3,981.40	3/4	3,657.94	3/4	3,326.99	3/4	2,996.04	3/4	2,665.08	3/4	2,334.13	3/4	2,003.12

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 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

1 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-06"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

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	1,665.14	0	1,334.07	0	1,003.35	0	687.37	0	394.53	0	123.86	0		0		0		0	
1/4	1,658.25	1/4	1,327.17	1/4	996.55	1/4	681.04	1/4	388.67	1/4	118.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,651.35	1/2	1,320.27	1/2	989.75	1/2	674.72	1/2	382.82	1/2	113.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,644.45	3/4	1,313.38	3/4	982.95	3/4	668.39	3/4	376.96	3/4	107.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,637.55	1	1,306.48	1	976.15	1	662.06	1	371.11	1	102.33	1	1	1	1	1	1	1	1
1/4	1,630.66	1/4	1,299.58	1/4	969.39	1/4	655.77	1/4	365.29	1/4	96.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,623.76	1/2	1,292.68	1/2	962.63	1/2	649.49	1/2	359.48	1/2	91.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,616.86	3/4	1,285.79	3/4	955.87	3/4	643.20	3/4	353.66	3/4	86.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,609.97	2	1,278.89	2	949.11	2	636.91	2	347.84	2	80.96	2	2	2	2	2	2	2	2
1/4	1,603.07	1/4	1,271.99	1/4	942.39	1/4	630.67	1/4	342.07	1/4	75.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,596.17	1/2	1,265.10	1/2	935.67	1/2	624.43	1/2	336.29	1/2	70.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,589.27	3/4	1,258.20	3/4	928.95	3/4	618.19	3/4	330.51	3/4	65.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,582.38	3	1,251.30	3	922.23	3	611.95	3	324.74	3	59.74	3	3	3	3	3	3	3	3
1/4	1,575.48	1/4	1,244.40	1/4	915.55	1/4	605.76	1/4	319.00	1/4	54.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,568.58	1/2	1,237.51	1/2	908.87	1/2	599.56	1/2	313.26	1/2	49.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,561.68	3/4	1,230.61	3/4	902.18	3/4	593.37	3/4	307.53	3/4	43.94	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,554.79	4	1,223.71	4	895.50	4	587.18	4	301.79	4	38.68	4	4	4	4	4	4	4	4
1/4	1,547.89	1/4	1,216.81	1/4	888.86	1/4	581.02	1/4	296.09	1/4	34.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,540.99	1/2	1,209.92	1/2	882.22	1/2	574.87	1/2	290.39	1/2	29.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,534.09	3/4	1,203.02	3/4	875.58	3/4	568.71	3/4	284.70	3/4	25.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,527.20	5	1,196.12	5	868.94	5	562.56	5	279.00	5	20.65	5	5	5	5	5	5	5	5
1/4	1,520.30	1/4	1,189.22	1/4	862.33	1/4	556.44	1/4	273.34	1/4	17.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,513.40	1/2	1,182.33	1/2	855.73	1/2	550.33	1/2	267.68	1/2	14.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,506.50	3/4	1,175.43	3/4	849.13	3/4	544.21	3/4	262.02	3/4	11.62	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,499.61	6	1,168.53	6	842.53	6	538.09	6	256.36	6	8.60	6	6	6	6	6	6	6	6
1/4	1,492.71	1/4	1,161.63	1/4	835.96	1/4	532.02	1/4	250.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,485.81	1/2	1,154.74	1/2	829.40	1/2	525.94	1/2	245.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,478.91	3/4	1,147.84	3/4	822.84	3/4	519.87	3/4	239.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,472.02	7	1,140.94	7	816.27	7	513.79	7	233.89	7		7	7	7	7	7	7	7	7
1/4	1,465.12	1/4	1,134.04	1/4	809.75	1/4	507.75	1/4	228.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,458.22	1/2	1,127.15	1/2	803.23	1/2	501.72	1/2	222.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,451.32	3/4	1,120.25	3/4	796.70	3/4	495.68	3/4	217.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,444.43	8	1,113.35	8	790.18	8	489.64	8	211.57	8		8	8	8	8	8	8	8	8
1/4	1,437.53	1/4	1,106.45	1/4	783.69	1/4	483.64	1/4	206.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,430.63	1/2	1,099.56	1/2	777.21	1/2	477.65	1/2	200.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,423.74	3/4	1,092.66	3/4	770.73	3/4	471.65	3/4	194.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,416.84	9	1,085.76	9	764.24	9	465.65	9	189.41	9		9	9	9	9	9	9	9	9
1/4	1,409.94	1/4	1,078.87	1/4	757.80	1/4	459.69	1/4	183.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,403.04	1/2	1,071.98	1/2	751.35	1/2	453.73	1/2	178.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,396.15	3/4	1,065.08	3/4	744.91	3/4	447.78	3/4	172.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,389.25	10	1,058.19	10	738.46	10	441.82	10	167.40	10		10	10	10	10	10	10	10	10
1/4	1,382.35	1/4	1,051.32	1/4	732.05	1/4	435.89	1/4	161.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,375.45	1/2	1,044.45	1/2	725.65	1/2	429.96	1/2	156.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,368.56	3/4	1,037.57	3/4	719.24	3/4	424.03	3/4	151.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,361.66	11	1,030.70	11	712.84	11	418.11	11	145.55	11		11	11	11	11	11	11	11	11
1/4	1,354.76	1/4	1,023.86	1/4	706.47	1/4	412.21	1/4	140.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,347.86	1/2	1,017.02	1/2	700.10	1/2	406.32	1/2	134.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,340.97	3/4	1,010.18	3/4	693.74	3/4	400.42	3/4	129.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

1 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	4,581.70	0	4,298.47	0	3,992.17	0	3,668.58	0	3,337.19	0	3,005.80	0	2,674.40	0	2,343.00	0	2,011.56
1/4		1/4	4,578.24	1/4	4,292.27	1/4	3,985.59	1/4	3,661.68	1/4	3,330.29	1/4	2,998.89	1/4	2,667.50	1/4	2,336.10	1/4	2,004.65
1/2		1/2	4,574.78	1/2	4,286.06	1/2	3,979.01	1/2	3,654.78	1/2	3,323.39	1/2	2,991.99	1/2	2,660.59	1/2	2,329.20	1/2	1,997.74
3/4		3/4	4,570.17	3/4	4,279.83	3/4	3,972.41	3/4	3,647.88	3/4	3,316.48	3/4	2,985.09	3/4	2,653.69	3/4	2,322.29	3/4	1,990.84
1		1	4,565.56	1	4,273.60	1	3,965.81	1	3,640.98	1	3,309.58	1	2,978.18	1	2,646.78	1	2,315.39	1	1,983.93
1/4		1/4	4,560.94	1/4	4,267.36	1/4	3,959.20	1/4	3,634.07	1/4	3,302.67	1/4	2,971.28	1/4	2,639.88	1/4	2,308.48	1/4	1,977.02
1/2		1/2	4,556.33	1/2	4,261.13	1/2	3,952.60	1/2	3,627.17	1/2	3,295.77	1/2	2,964.37	1/2	2,632.98	1/2	2,301.58	1/2	1,970.12
3/4		3/4	4,550.57	3/4	4,254.87	3/4	3,945.97	3/4	3,620.26	3/4	3,288.87	3/4	2,957.47	3/4	2,626.07	3/4	2,294.68	3/4	1,963.21
2		2	4,544.81	2	4,248.61	2	3,939.34	2	3,613.36	2	3,281.96	2	2,950.57	2	2,619.17	2	2,287.77	2	1,956.30
1/4		1/4	4,539.05	1/4	4,242.35	1/4	3,932.70	1/4	3,606.45	1/4	3,275.06	1/4	2,943.66	1/4	2,612.26	1/4	2,280.87	1/4	1,949.40
1/2		1/2	4,533.28	1/2	4,236.09	1/2	3,926.07	1/2	3,599.55	1/2	3,268.15	1/2	2,936.76	1/2	2,605.36	1/2	2,273.96	1/2	1,942.49
3/4		3/4	4,526.67	3/4	4,229.80	3/4	3,919.41	3/4	3,592.65	3/4	3,261.25	3/4	2,929.85	3/4	2,598.46	3/4	2,267.06	3/4	1,935.58
3		3	4,520.06	3	4,223.51	3	3,912.75	3	3,585.74	3	3,254.35	3	2,922.95	3	2,591.55	3	2,260.16	3	1,928.68
1/4		1/4	4,513.44	1/4	4,217.22	1/4	3,906.09	1/4	3,578.84	1/4	3,247.44	1/4	2,916.04	1/4	2,584.65	1/4	2,253.25	1/4	1,921.77
1/2		1/2	4,506.83	1/2	4,210.93	1/2	3,899.44	1/2	3,571.93	1/2	3,240.54	1/2	2,909.14	1/2	2,577.74	1/2	2,246.35	1/2	1,914.86
3/4		3/4	4,500.51	3/4	4,204.62	3/4	3,892.75	3/4	3,565.03	3/4	3,233.63	3/4	2,902.24	3/4	2,570.84	3/4	2,239.44	3/4	1,907.96
4		4	4,494.19	4	4,198.30	4	3,886.06	4	3,558.13	4	3,226.73	4	2,895.33	4	2,563.94	4	2,232.54	4	1,901.05
1/4		1/4	4,487.87	1/4	4,191.99	1/4	3,879.38	1/4	3,551.22	1/4	3,219.83	1/4	2,888.43	1/4	2,557.03	1/4	2,225.63	1/4	1,894.14
1/2		1/2	4,481.55	1/2	4,185.67	1/2	3,872.69	1/2	3,544.32	1/2	3,212.92	1/2	2,881.52	1/2	2,550.13	1/2	2,218.73	1/2	1,887.24
3/4		3/4	4,475.53	3/4	4,179.33	3/4	3,865.97	3/4	3,537.41	3/4	3,206.02	3/4	2,874.62	3/4	2,543.22	3/4	2,211.83	3/4	1,880.33
5		5	4,469.52	5	4,172.98	5	3,859.26	5	3,530.51	5	3,199.11	5	2,867.72	5	2,536.32	5	2,204.92	5	1,873.42
1/4		1/4	4,463.51	1/4	4,166.64	1/4	3,852.55	1/4	3,523.61	1/4	3,192.21	1/4	2,860.81	1/4	2,529.42	1/4	2,198.02	1/4	1,866.52
1/2		1/2	4,457.50	1/2	4,160.30	1/2	3,845.83	1/2	3,516.70	1/2	3,185.30	1/2	2,853.91	1/2	2,522.51	1/2	2,191.11	1/2	1,859.61
3/4		3/4	4,451.46	3/4	4,153.93	3/4	3,839.09	3/4	3,509.80	3/4	3,178.40	3/4	2,847.00	3/4	2,515.61	3/4	2,184.21	3/4	1,852.70
6		6	4,445.42	6	4,147.56	6	3,832.35	6	3,502.89	6	3,171.50	6	2,840.10	6	2,508.70	6	2,177.31	6	1,845.80
1/4		1/4	4,439.38	1/4	4,141.18	1/4	3,825.61	1/4	3,495.99	1/4	3,164.59	1/4	2,833.20	1/4	2,501.80	1/4	2,170.40	1/4	1,838.89
1/2		1/2	4,433.34	1/2	4,134.81	1/2	3,818.86	1/2	3,489.09	1/2	3,157.69	1/2	2,826.29	1/2	2,494.89	1/2	2,163.50	1/2	1,831.99
3/4		3/4	4,427.27	3/4	4,128.41	3/4	3,812.09	3/4	3,482.18	3/4	3,150.78	3/4	2,819.39	3/4	2,487.99	3/4	2,156.59	3/4	1,825.08
7		7	4,421.20	7	4,122.02	7	3,805.32	7	3,475.28	7	3,143.88	7	2,812.48	7	2,481.09	7	2,149.69	7	1,818.17
1/4		1/4	4,415.14	1/4	4,115.62	1/4	3,798.55	1/4	3,468.37	1/4	3,136.98	1/4	2,805.58	1/4	2,474.18	1/4	2,142.78	1/4	1,811.27
1/2		1/2	4,409.07	1/2	4,109.22	1/2	3,791.79	1/2	3,461.47	1/2	3,130.07	1/2	2,798.68	1/2	2,467.28	1/2	2,135.88	1/2	1,804.36
3/4		3/4	4,402.97	3/4	4,102.79	3/4	3,784.99	3/4	3,454.56	3/4	3,123.17	3/4	2,791.77	3/4	2,460.37	3/4	2,128.97	3/4	1,797.45
8		8	4,396.88	8	4,096.37	8	3,778.19	8	3,447.66	8	3,116.26	8	2,784.87	8	2,453.47	8	2,122.06	8	1,790.55
1/4		1/4	4,390.78	1/4	4,089.94	1/4	3,771.39	1/4	3,440.76	1/4	3,109.36	1/4	2,777.96	1/4	2,446.57	1/4	2,115.16	1/4	1,783.64
1/2		1/2	4,384.69	1/2	4,083.51	1/2	3,764.60	1/2	3,433.85	1/2	3,102.46	1/2	2,771.06	1/2	2,439.66	1/2	2,108.25	1/2	1,776.73
3/4		3/4	4,378.56	3/4	4,077.04	3/4	3,757.77	3/4	3,426.95	3/4	3,095.55	3/4	2,764.15	3/4	2,432.76	3/4	2,101.34	3/4	1,769.83
9		9	4,372.44	9	4,070.56	9	3,750.95	9	3,420.04	9	3,088.65	9	2,757.25	9	2,425.85	9	2,094.44	9	1,762.92
1/4		1/4	4,366.32	1/4	4,064.08	1/4	3,744.12	1/4	3,413.14	1/4	3,081.74	1/4	2,750.35	1/4	2,418.95	1/4	2,087.53	1/4	1,756.01
1/2		1/2	4,360.20	1/2	4,057.60	1/2	3,737.30	1/2	3,406.24	1/2	3,074.84	1/2	2,743.44	1/2	2,412.05	1/2	2,080.62	1/2	1,749.11
3/4		3/4	4,354.05	3/4	4,051.08	3/4	3,730.45	3/4	3,399.33	3/4	3,067.94	3/4	2,736.54	3/4	2,405.14	3/4	2,073.72	3/4	1,742.20
10		10	4,347.90	10	4,044.56	10	3,723.59	10	3,392.43	10	3,061.03	10	2,729.63	10	2,398.24	10	2,066.81	10	1,735.29
1/4		1/4	4,341.75	1/4	4,038.04	1/4	3,716.74	1/4	3,385.52	1/4	3,054.13	1/4	2,722.73	1/4	2,391.33	1/4	2,059.90	1/4	1,728.39
1/2		1/2	4,335.60	1/2	4,031.51	1/2	3,709.89	1/2	3,378.62	1/2	3,047.22	1/2	2,715.83	1/2	2,384.43	1/2	2,053.00	1/2	1,721.48
3/4		3/4	4,329.42	3/4	4,024.97	3/4	3,703.01	3/4	3,371.72	3/4	3,040.32	3/4	2,708.92	3/4	2,377.53	3/4	2,046.09	3/4	1,714.57
11		11	4,323.24	11	4,018.42	11	3,696.13	11	3,364.81	11	3,033.41	11	2,702.02	11	2,370.62	11	2,039.18	11	1,707.67
1/4		1/4	4,317.06	1/4	4,011.87	1/4	3,689.25	1/4	3,357.91	1/4	3,026.51	1/4	2,695.11	1/4	2,363.72	1/4	2,032.28	1/4	1,700.76
1/2		1/2	4,310.88	1/2	4,005.32	1/2	3,682.37	1/2	3,351.00	1/2	3,019.61	1/2	2,688.21	1/2	2,356.81	1/2	2,025.37	1/2	1,693.85
3/4		3/4	4,304.68	3/4	3,998.74	3/4	3,675.47	3/4	3,344.10	3/4	3,012.70	3/4	2,681.31	3/4	2,349.91	3/4	2,018.46	3/4	1,686.95

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 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	1,680.04	0	1,348.52	0	1,017.27	0	701.33	0	407.09	0	134.98	0		0		0		0	
1/4	1,673.13	1/4	1,341.62	1/4	1,010.44	1/4	694.97	1/4	401.18	1/4	129.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,666.23	1/2	1,334.71	1/2	1,003.61	1/2	688.60	1/2	395.28	1/2	124.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,659.32	3/4	1,327.80	3/4	996.83	3/4	682.26	3/4	389.41	3/4	118.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,652.41	1	1,320.90	1	990.05	1	675.93	1	383.55	1	113.33	1	1	1	1	1	1	1	1
1/4	1,645.51	1/4	1,313.99	1/4	983.27	1/4	669.59	1/4	377.68	1/4	107.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,638.60	1/2	1,307.08	1/2	976.49	1/2	663.25	1/2	371.82	1/2	102.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,631.69	3/4	1,300.18	3/4	969.75	3/4	656.95	3/4	365.99	3/4	97.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,624.79	2	1,293.27	2	963.02	2	650.66	2	360.16	2	91.83	2	2	2	2	2	2	2	2
1/4	1,617.88	1/4	1,286.36	1/4	956.28	1/4	644.36	1/4	354.34	1/4	86.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,610.97	1/2	1,279.46	1/2	949.54	1/2	638.06	1/2	348.51	1/2	81.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,604.07	3/4	1,272.55	3/4	942.85	3/4	631.81	3/4	342.73	3/4	75.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,597.16	3	1,265.64	3	936.15	3	625.56	3	336.94	3	70.49	3	3	3	3	3	3	3	3
1/4	1,590.25	1/4	1,258.74	1/4	929.45	1/4	619.31	1/4	331.15	1/4	65.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,583.35	1/2	1,251.83	1/2	922.75	1/2	613.07	1/2	325.37	1/2	59.86	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,576.44	3/4	1,244.92	3/4	916.09	3/4	606.86	3/4	319.62	3/4	54.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,569.53	4	1,238.02	4	909.44	4	600.66	4	313.87	4	49.31	4	4	4	4	4	4	4	4
1/4	1,562.63	1/4	1,231.11	1/4	902.78	1/4	594.45	1/4	308.12	1/4	44.03	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,555.72	1/2	1,224.20	1/2	896.12	1/2	588.25	1/2	302.38	1/2	38.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,548.81	3/4	1,217.30	3/4	889.50	3/4	582.08	3/4	296.67	3/4	34.24	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,541.91	5	1,210.39	5	882.88	5	575.92	5	290.96	5	29.72	5	5	5	5	5	5	5	5
1/4	1,535.00	1/4	1,203.48	1/4	876.26	1/4	569.75	1/4	285.25	1/4	25.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,528.09	1/2	1,196.58	1/2	869.64	1/2	563.59	1/2	279.54	1/2	20.69	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,521.19	3/4	1,189.67	3/4	863.06	3/4	557.46	3/4	273.87	3/4	17.67	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,514.28	6	1,182.76	6	856.48	6	551.34	6	268.21	6	14.65	6	6	6	6	6	6	6	6
1/4	1,507.37	1/4	1,175.86	1/4	849.90	1/4	545.21	1/4	262.54	1/4	11.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,500.47	1/2	1,168.95	1/2	843.32	1/2	539.09	1/2	256.87	1/2	8.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,493.56	3/4	1,162.04	3/4	836.78	3/4	533.00	3/4	251.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,486.66	7	1,155.14	7	830.24	7	526.91	7	245.61	7		7	7	7	7	7	7	7	7
1/4	1,479.75	1/4	1,148.23	1/4	823.70	1/4	520.83	1/4	239.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,472.84	1/2	1,141.33	1/2	817.16	1/2	514.74	1/2	234.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,465.94	3/4	1,134.42	3/4	810.66	3/4	508.69	3/4	228.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,459.03	8	1,127.51	8	804.16	8	502.65	8	223.17	8		8	8	8	8	8	8	8	8
1/4	1,452.12	1/4	1,120.61	1/4	797.66	1/4	496.60	1/4	217.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,445.22	1/2	1,113.70	1/2	791.16	1/2	490.55	1/2	211.99	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,438.31	3/4	1,106.79	3/4	784.70	3/4	484.55	3/4	206.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,431.40	9	1,099.89	9	778.23	9	478.54	9	200.89	9		9	9	9	9	9	9	9	9
1/4	1,424.50	1/4	1,092.98	1/4	771.77	1/4	472.53	1/4	195.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,417.59	1/2	1,086.07	1/2	765.31	1/2	466.52	1/2	189.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,410.68	3/4	1,079.17	3/4	758.89	3/4	460.55	3/4	184.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,403.78	10	1,072.27	10	752.46	10	454.59	10	178.76	10		10	10	10	10	10	10	10	10
1/4	1,396.87	1/4	1,065.37	1/4	746.04	1/4	448.62	1/4	173.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,389.96	1/2	1,058.46	1/2	739.62	1/2	442.65	1/2	167.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,383.06	3/4	1,051.58	3/4	733.23	3/4	436.71	3/4	162.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,376.15	11	1,044.70	11	726.84	11	430.77	11	156.79	11		11	11	11	11	11	11	11	11
1/4	1,369.24	1/4	1,037.82	1/4	720.46	1/4	424.83	1/4	151.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,362.34	1/2	1,030.93	1/2	714.07	1/2	418.90	1/2	145.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,355.43	3/4	1,024.10	3/4	707.70	3/4	412.99	3/4	140.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

2 PORT ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	5,537.24	0	5,196.91	0	4,836.56	0	4,456.13	0	4,067.67	0	3,679.20	0	3,290.74	0	2,902.28	0	2,513.74
1/4		1/4	5,531.84	1/4	5,189.61	1/4	4,828.82	1/4	4,448.04	1/4	4,059.57	1/4	3,671.11	1/4	3,282.65	1/4	2,894.18	1/4	2,505.65
1/2		1/2	5,526.43	1/2	5,182.30	1/2	4,821.08	1/2	4,439.95	1/2	4,051.48	1/2	3,663.02	1/2	3,274.55	1/2	2,886.09	1/2	2,497.55
3/4		3/4	5,521.03	3/4	5,175.00	3/4	4,813.33	3/4	4,431.85	3/4	4,043.39	3/4	3,654.92	3/4	3,266.46	3/4	2,878.00	3/4	2,489.45
1		1	5,514.27	1	5,167.66	1	4,805.56	1	4,423.76	1	4,035.30	1	3,646.83	1	3,258.37	1	2,869.90	1	2,481.36
1/4		1/4	5,507.52	1/4	5,160.32	1/4	4,797.79	1/4	4,415.67	1/4	4,027.20	1/4	3,638.74	1/4	3,250.27	1/4	2,861.81	1/4	2,473.26
1/2		1/2	5,500.76	1/2	5,152.98	1/2	4,790.01	1/2	4,407.57	1/2	4,019.11	1/2	3,630.65	1/2	3,242.18	1/2	2,853.72	1/2	2,465.17
3/4		3/4	5,494.01	3/4	5,145.64	3/4	4,782.24	3/4	4,399.48	3/4	4,011.02	3/4	3,622.55	3/4	3,234.09	3/4	2,845.62	3/4	2,457.07
2		2	5,486.26	2	5,138.27	2	4,774.43	2	4,391.39	2	4,002.92	2	3,614.46	2	3,226.00	2	2,837.53	2	2,448.97
1/4		1/4	5,478.51	1/4	5,130.90	1/4	4,766.63	1/4	4,383.29	1/4	3,994.83	1/4	3,606.37	1/4	3,217.90	1/4	2,829.44	1/4	2,440.88
1/2		1/2	5,470.76	1/2	5,123.53	1/2	4,758.82	1/2	4,375.20	1/2	3,986.74	1/2	3,598.27	1/2	3,209.81	1/2	2,821.35	1/2	2,432.78
3/4		3/4	5,463.00	3/4	5,116.16	3/4	4,751.02	3/4	4,367.11	3/4	3,978.64	3/4	3,590.18	3/4	3,201.72	3/4	2,813.25	3/4	2,424.69
3		3	5,455.59	3	5,108.75	3	4,743.18	3	4,359.02	3	3,970.55	3	3,582.09	3	3,193.62	3	2,805.16	3	2,416.59
1/4		1/4	5,448.19	1/4	5,101.35	1/4	4,735.34	1/4	4,350.92	1/4	3,962.46	1/4	3,573.99	1/4	3,185.53	1/4	2,797.07	1/4	2,408.49
1/2		1/2	5,440.78	1/2	5,093.95	1/2	4,727.50	1/2	4,342.83	1/2	3,954.37	1/2	3,565.90	1/2	3,177.44	1/2	2,788.97	1/2	2,400.40
3/4		3/4	5,433.37	3/4	5,086.54	3/4	4,719.66	3/4	4,334.74	3/4	3,946.27	3/4	3,557.81	3/4	3,169.34	3/4	2,780.88	3/4	2,392.30
4		4	5,426.32	4	5,079.11	4	4,711.79	4	4,326.64	4	3,938.18	4	3,549.72	4	3,161.25	4	2,772.79	4	2,384.21
1/4		1/4	5,419.27	1/4	5,071.67	1/4	4,703.92	1/4	4,318.55	1/4	3,930.09	1/4	3,541.62	1/4	3,153.16	1/4	2,764.69	1/4	2,376.11
1/2		1/2	5,412.22	1/2	5,064.24	1/2	4,696.05	1/2	4,310.46	1/2	3,921.99	1/2	3,533.53	1/2	3,145.07	1/2	2,756.60	1/2	2,368.01
3/4		3/4	5,405.18	3/4	5,056.80	3/4	4,688.18	3/4	4,302.36	3/4	3,913.90	3/4	3,525.44	3/4	3,136.97	3/4	2,748.51	3/4	2,359.92
5		5	5,398.10	5	5,049.33	5	4,680.28	5	4,294.27	5	3,905.81	5	3,517.34	5	3,128.88	5	2,740.42	5	2,351.82
1/4		1/4	5,391.02	1/4	5,041.87	1/4	4,672.37	1/4	4,286.18	1/4	3,897.71	1/4	3,509.25	1/4	3,120.79	1/4	2,732.32	1/4	2,343.73
1/2		1/2	5,383.94	1/2	5,034.40	1/2	4,664.47	1/2	4,278.09	1/2	3,889.62	1/2	3,501.16	1/2	3,112.69	1/2	2,724.23	1/2	2,335.63
3/4		3/4	5,376.86	3/4	5,026.93	3/4	4,656.57	3/4	4,269.99	3/4	3,881.53	3/4	3,493.06	3/4	3,104.60	3/4	2,716.14	3/4	2,327.53
6		6	5,369.74	6	5,019.43	6	4,648.63	6	4,261.90	6	3,873.44	6	3,484.97	6	3,096.51	6	2,708.04	6	2,319.44
1/4		1/4	5,362.63	1/4	5,011.93	1/4	4,640.70	1/4	4,253.81	1/4	3,865.34	1/4	3,476.88	1/4	3,088.41	1/4	2,699.95	1/4	2,311.34
1/2		1/2	5,355.52	1/2	5,004.43	1/2	4,632.76	1/2	4,245.71	1/2	3,857.25	1/2	3,468.79	1/2	3,080.32	1/2	2,691.85	1/2	2,303.25
3/4		3/4	5,348.41	3/4	4,996.93	3/4	4,624.83	3/4	4,237.62	3/4	3,849.16	3/4	3,460.69	3/4	3,072.23	3/4	2,683.76	3/4	2,295.15
7		7	5,341.26	7	4,989.40	7	4,616.86	7	4,229.53	7	3,841.06	7	3,452.60	7	3,064.14	7	2,675.66	7	2,287.05
1/4		1/4	5,334.12	1/4	4,981.86	1/4	4,608.89	1/4	4,221.43	1/4	3,832.97	1/4	3,444.51	1/4	3,056.04	1/4	2,667.57	1/4	2,278.96
1/2		1/2	5,326.97	1/2	4,974.33	1/2	4,600.92	1/2	4,213.34	1/2	3,824.88	1/2	3,436.41	1/2	3,047.95	1/2	2,659.47	1/2	2,270.86
3/4		3/4	5,319.83	3/4	4,966.80	3/4	4,592.96	3/4	4,205.25	3/4	3,816.78	3/4	3,428.32	3/4	3,039.86	3/4	2,651.37	3/4	2,262.77
8		8	5,312.65	8	4,959.20	8	4,584.96	8	4,197.16	8	3,808.69	8	3,420.23	8	3,031.76	8	2,643.28	8	2,254.67
1/4		1/4	5,305.47	1/4	4,951.61	1/4	4,576.96	1/4	4,189.06	1/4	3,800.60	1/4	3,412.13	1/4	3,023.67	1/4	2,635.18	1/4	2,246.57
1/2		1/2	5,298.30	1/2	4,944.01	1/2	4,568.96	1/2	4,180.97	1/2	3,792.51	1/2	3,404.04	1/2	3,015.58	1/2	2,627.09	1/2	2,238.48
3/4		3/4	5,291.12	3/4	4,936.42	3/4	4,560.96	3/4	4,172.88	3/4	3,784.41	3/4	3,395.95	3/4	3,007.48	3/4	2,618.99	3/4	2,230.38
9		9	5,283.91	9	4,928.78	9	4,552.92	9	4,164.78	9	3,776.32	9	3,387.86	9	2,999.39	9	2,610.89	9	2,222.29
1/4		1/4	5,276.70	1/4	4,921.13	1/4	4,544.89	1/4	4,156.69	1/4	3,768.23	1/4	3,379.76	1/4	2,991.30	1/4	2,602.80	1/4	2,214.19
1/2		1/2	5,269.49	1/2	4,913.49	1/2	4,536.86	1/2	4,148.60	1/2	3,760.13	1/2	3,371.67	1/2	2,983.21	1/2	2,594.70	1/2	2,206.09
3/4		3/4	5,262.28	3/4	4,905.84	3/4	4,528.83	3/4	4,140.50	3/4	3,752.04	3/4	3,363.58	3/4	2,975.11	3/4	2,586.61	3/4	2,198.00
10		10	5,255.04	10	4,898.17	10	4,520.76	10	4,132.41	10	3,743.95	10	3,355.48	10	2,967.02	10	2,578.51	10	2,189.90
1/4		1/4	5,247.80	1/4	4,890.49	1/4	4,512.70	1/4	4,124.32	1/4	3,735.85	1/4	3,347.39	1/4	2,958.93	1/4	2,570.41	1/4	2,181.81
1/2		1/2	5,240.56	1/2	4,882.81	1/2	4,504.63	1/2	4,116.23	1/2	3,727.76	1/2	3,339.30	1/2	2,950.83	1/2	2,562.32	1/2	2,173.71
3/4		3/4	5,233.32	3/4	4,875.14	3/4	4,496.57	3/4	4,108.13	3/4	3,719.67	3/4	3,331.20	3/4	2,942.74	3/4	2,554.22	3/4	2,165.61
11		11	5,226.04	11	4,867.43	11	4,488.48	11	4,100.04	11	3,711.58	11	3,323.11	11	2,934.65	11	2,546.13	11	2,157.52
1/4	5,550.76	1/4	5,218.77	1/4	4,859.72	1/4	4,480.40	1/4	4,091.95	1/4	3,703.48	1/4	3,315.02	1/4	2,926.55	1/4	2,538.03	1/4	2,149.42
1/2	5,546.70	1/2	5,211.49	1/2	4,852.01	1/2	4,472.31	1/2	4,083.85	1/2	3,695.39	1/2	3,306.93	1/2	2,918.46	1/2	2,529.93	1/2	2,141.33
3/4	5,542.65	3/4	5,204.22	3/4	4,844.30	3/4	4,464.22	3/4	4,075.76	3/4	3,687.30	3/4	3,298.83	3/4	2,910.37	3/4	2,521.84	3/4	2,133.23

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 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,125.13	0	1,736.53	0	1,347.92	0	959.31	0	571.18	0	182.59	0		0		0		0	
1/4	2,117.04	1/4	1,728.43	1/4	1,339.82	1/4	951.21	1/4	563.09	1/4	174.49	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,108.94	1/2	1,720.33	1/2	1,331.73	1/2	943.12	1/2	554.99	1/2	166.39	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,100.85	3/4	1,712.24	3/4	1,323.63	3/4	935.02	3/4	546.90	3/4	158.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,092.75	1	1,704.14	1	1,315.53	1	926.93	1	538.80	1	150.20	1	1	1	1	1	1	1	1
1/4	2,084.65	1/4	1,696.05	1/4	1,307.44	1/4	918.83	1/4	530.71	1/4	142.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,076.56	1/2	1,687.95	1/2	1,299.34	1/2	910.73	1/2	522.61	1/2	134.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,068.46	3/4	1,679.85	3/4	1,291.25	3/4	902.64	3/4	514.51	3/4	125.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,060.37	2	1,671.76	2	1,283.15	2	894.55	2	506.42	2	117.82	2	2	2	2	2	2	2	2
1/4	2,052.27	1/4	1,663.66	1/4	1,275.05	1/4	886.46	1/4	498.32	1/4	109.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,044.17	1/2	1,655.57	1/2	1,266.96	1/2	878.38	1/2	490.23	1/2	101.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,036.08	3/4	1,647.47	3/4	1,258.86	3/4	870.29	3/4	482.13	3/4	93.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,027.98	3	1,639.37	3	1,250.77	3	862.21	3	474.03	3	85.44	3	3	3	3	3	3	3	3
1/4	2,019.89	1/4	1,631.28	1/4	1,242.67	1/4	854.13	1/4	465.94	1/4	77.34	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,011.79	1/2	1,623.18	1/2	1,234.57	1/2	846.05	1/2	457.84	1/2	69.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,003.69	3/4	1,615.09	3/4	1,226.48	3/4	837.97	3/4	449.75	3/4	61.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,995.60	4	1,606.99	4	1,218.38	4	829.89	4	441.65	4	53.90	4	4	4	4	4	4	4	4
1/4	1,987.50	1/4	1,598.89	1/4	1,210.29	1/4	821.80	1/4	433.56	1/4	46.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,979.41	1/2	1,590.80	1/2	1,202.19	1/2	813.72	1/2	425.46	1/2	39.39	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,971.31	3/4	1,582.70	3/4	1,194.09	3/4	805.64	3/4	417.36	3/4	32.14	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,963.21	5	1,574.61	5	1,186.00	5	797.56	5	409.27	5	27.08	5	5	5	5	5	5	5	5
1/4	1,955.12	1/4	1,566.51	1/4	1,177.90	1/4	789.48	1/4	401.17	1/4	22.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,947.02	1/2	1,558.41	1/2	1,169.81	1/2	781.40	1/2	393.08	1/2	16.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,938.93	3/4	1,550.32	3/4	1,161.71	3/4	773.32	3/4	384.98	3/4	11.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,930.83	6	1,542.22	6	1,153.61	6	765.24	6	376.89	6		6	6	6	6	6	6	6	6
1/4	1,922.73	1/4	1,534.13	1/4	1,145.52	1/4	757.16	1/4	368.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,914.64	1/2	1,526.03	1/2	1,137.42	1/2	749.08	1/2	360.69	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,906.54	3/4	1,517.93	3/4	1,129.33	3/4	740.99	3/4	352.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,898.45	7	1,509.84	7	1,121.23	7	732.91	7	344.50	7		7	7	7	7	7	7	7	7
1/4	1,890.35	1/4	1,501.74	1/4	1,113.13	1/4	724.83	1/4	336.41	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,882.25	1/2	1,493.65	1/2	1,105.04	1/2	716.75	1/2	328.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,874.16	3/4	1,485.55	3/4	1,096.94	3/4	708.67	3/4	320.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,866.06	8	1,477.45	8	1,088.85	8	700.59	8	312.12	8		8	8	8	8	8	8	8	8
1/4	1,857.97	1/4	1,469.36	1/4	1,080.75	1/4	692.51	1/4	304.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,849.87	1/2	1,461.26	1/2	1,072.65	1/2	684.43	1/2	295.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,841.77	3/4	1,453.17	3/4	1,064.56	3/4	676.35	3/4	287.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,833.68	9	1,445.07	9	1,056.46	9	668.27	9	279.74	9		9	9	9	9	9	9	9	9
1/4	1,825.58	1/4	1,436.97	1/4	1,048.37	1/4	660.18	1/4	271.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,817.49	1/2	1,428.88	1/2	1,040.27	1/2	652.10	1/2	263.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,809.39	3/4	1,420.78	3/4	1,032.17	3/4	644.02	3/4	255.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,801.29	10	1,412.69	10	1,024.08	10	635.93	10	247.35	10		10	10	10	10	10	10	10	10
1/4	1,793.20	1/4	1,404.59	1/4	1,015.98	1/4	627.84	1/4	239.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,785.10	1/2	1,396.49	1/2	1,007.89	1/2	619.75	1/2	231.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,777.01	3/4	1,388.40	3/4	999.79	3/4	611.66	3/4	223.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,768.91	11	1,380.30	11	991.69	11	603.57	11	214.97	11		11	11	11	11	11	11	11	11
1/4	1,760.81	1/4	1,372.21	1/4	983.60	1/4	595.47	1/4	206.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,752.72	1/2	1,364.11	1/2	975.50	1/2	587.38	1/2	198.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,744.62	3/4	1,356.01	3/4	967.41	3/4	579.28	3/4	190.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

2 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0	5,521.71	0	5,187.17	0	4,828.39	0	4,449.38	0	4,061.62	0	3,673.84	0	3,286.07	0	2,898.30	0	2,510.46		
1/4		1/4	5,517.66	1/4	5,179.91	1/4	4,820.69	1/4	4,441.31	1/4	4,053.54	1/4	3,665.77	1/4	3,277.99	1/4	2,890.22	1/4	2,502.38		
1/2		1/2	5,512.27	1/2	5,172.62	1/2	4,812.97	1/2	4,433.23	1/2	4,045.46	1/2	3,657.69	1/2	3,269.91	1/2	2,882.14	1/2	2,494.30		
3/4		3/4	5,506.87	3/4	5,165.33	3/4	4,805.24	3/4	4,425.15	3/4	4,037.38	3/4	3,649.61	3/4	3,261.84	3/4	2,874.06	3/4	2,486.22		
1		1	5,501.48	1	5,158.04	1	4,797.51	1	4,417.08	1	4,029.30	1	3,641.53	1	3,253.76	1	2,865.98	1	2,478.14		
1/4		1/4	5,496.08	1/4	5,150.75	1/4	4,789.79	1/4	4,409.00	1/4	4,021.22	1/4	3,633.45	1/4	3,245.68	1/4	2,857.91	1/4	2,470.05		
1/2		1/2	5,489.34	1/2	5,143.42	1/2	4,782.03	1/2	4,400.92	1/2	4,013.15	1/2	3,625.37	1/2	3,237.60	1/2	2,849.83	1/2	2,461.97		
3/4		3/4	5,482.60	3/4	5,136.10	3/4	4,774.27	3/4	4,392.84	3/4	4,005.07	3/4	3,617.29	3/4	3,229.52	3/4	2,841.75	3/4	2,453.89		
2		2	5,475.86	2	5,128.77	2	4,766.51	2	4,384.76	2	3,996.99	2	3,609.22	2	3,221.44	2	2,833.67	2	2,445.81		
1/4		1/4	5,469.12	1/4	5,121.45	1/4	4,758.75	1/4	4,376.68	1/4	3,988.91	1/4	3,601.14	1/4	3,213.36	1/4	2,825.59	1/4	2,437.73		
1/2		1/2	5,461.38	1/2	5,114.09	1/2	4,750.96	1/2	4,368.60	1/2	3,980.83	1/2	3,593.06	1/2	3,205.29	1/2	2,817.51	1/2	2,429.65		
3/4		3/4	5,453.64	3/4	5,106.74	3/4	4,743.17	3/4	4,360.53	3/4	3,972.75	3/4	3,584.98	3/4	3,197.21	3/4	2,809.43	3/4	2,421.56		
3		3	5,445.90	3	5,099.38	3	4,735.37	3	4,352.45	3	3,964.67	3	3,576.90	3	3,189.13	3	2,801.36	3	2,413.48		
1/4		1/4	5,438.17	1/4	5,092.02	1/4	4,727.58	1/4	4,344.37	1/4	3,956.60	1/4	3,568.82	1/4	3,181.05	1/4	2,793.28	1/4	2,405.40		
1/2		1/2	5,430.77	1/2	5,084.64	1/2	4,719.76	1/2	4,336.29	1/2	3,948.52	1/2	3,560.74	1/2	3,172.97	1/2	2,785.20	1/2	2,397.32		
3/4		3/4	5,423.38	3/4	5,077.25	3/4	4,711.94	3/4	4,328.21	3/4	3,940.44	3/4	3,552.67	3/4	3,164.89	3/4	2,777.12	3/4	2,389.24		
4		4	5,415.98	4	5,069.86	4	4,704.11	4	4,320.13	4	3,932.36	4	3,544.59	4	3,156.81	4	2,769.04	4	2,381.16		
1/4		1/4	5,408.59	1/4	5,062.47	1/4	4,696.29	1/4	4,312.05	1/4	3,924.28	1/4	3,536.51	1/4	3,148.74	1/4	2,760.96	1/4	2,373.07		
1/2		1/2	5,401.55	1/2	5,055.05	1/2	4,688.43	1/2	4,303.98	1/2	3,916.20	1/2	3,528.43	1/2	3,140.66	1/2	2,752.88	1/2	2,364.99		
3/4		3/4	5,394.52	3/4	5,047.63	3/4	4,680.57	3/4	4,295.90	3/4	3,908.12	3/4	3,520.35	3/4	3,132.58	3/4	2,744.81	3/4	2,356.91		
5		5	5,387.49	5	5,040.21	5	4,672.72	5	4,287.82	5	3,900.05	5	3,512.27	5	3,124.50	5	2,736.73	5	2,348.83		
1/4		1/4	5,380.46	1/4	5,032.79	1/4	4,664.86	1/4	4,279.74	1/4	3,891.97	1/4	3,504.19	1/4	3,116.42	1/4	2,728.65	1/4	2,340.75		
1/2		1/2	5,373.39	1/2	5,025.33	1/2	4,656.97	1/2	4,271.66	1/2	3,883.89	1/2	3,496.12	1/2	3,108.34	1/2	2,720.57	1/2	2,332.67		
3/4		3/4	5,366.33	3/4	5,017.88	3/4	4,649.09	3/4	4,263.58	3/4	3,875.81	3/4	3,488.04	3/4	3,100.26	3/4	2,712.49	3/4	2,324.59		
6		6	5,359.26	6	5,010.43	6	4,641.20	6	4,255.50	6	3,867.73	6	3,479.96	6	3,092.19	6	2,704.41	6	2,316.50		
1/4		1/4	5,352.20	1/4	5,002.97	1/4	4,633.31	1/4	4,247.43	1/4	3,859.65	1/4	3,471.88	1/4	3,084.11	1/4	2,696.33	1/4	2,308.42		
1/2		1/2	5,345.10	1/2	4,995.49	1/2	4,625.39	1/2	4,239.35	1/2	3,851.57	1/2	3,463.80	1/2	3,076.03	1/2	2,688.25	1/2	2,300.34		
3/4		3/4	5,338.00	3/4	4,988.00	3/4	4,617.47	3/4	4,231.27	3/4	3,843.50	3/4	3,455.72	3/4	3,067.95	3/4	2,680.17	3/4	2,292.26		
7		7	5,330.90	7	4,980.52	7	4,609.55	7	4,223.19	7	3,835.42	7	3,447.64	7	3,059.87	7	2,672.09	7	2,284.18		
1/4		1/4	5,323.81	1/4	4,973.03	1/4	4,601.62	1/4	4,215.11	1/4	3,827.34	1/4	3,439.57	1/4	3,051.79	1/4	2,664.01	1/4	2,276.10		
1/2		1/2	5,316.68	1/2	4,965.51	1/2	4,593.67	1/2	4,207.03	1/2	3,819.26	1/2	3,431.49	1/2	3,043.71	1/2	2,655.93	1/2	2,268.01		
3/4		3/4	5,309.55	3/4	4,957.99	3/4	4,585.72	3/4	4,198.95	3/4	3,811.18	3/4	3,423.41	3/4	3,035.64	3/4	2,647.85	3/4	2,259.93		
8		8	5,302.42	8	4,950.48	8	4,577.77	8	4,190.88	8	3,803.10	8	3,415.33	8	3,027.56	8	2,639.77	8	2,251.85		
1/4		1/4	5,295.29	1/4	4,942.96	1/4	4,569.81	1/4	4,182.80	1/4	3,795.02	1/4	3,407.25	1/4	3,019.48	1/4	2,631.69	1/4	2,243.77		
1/2		1/2	5,288.12	1/2	4,935.38	1/2	4,561.83	1/2	4,174.72	1/2	3,786.95	1/2	3,399.17	1/2	3,011.40	1/2	2,623.60	1/2	2,235.69		
3/4		3/4	5,280.96	3/4	4,927.80	3/4	4,553.84	3/4	4,166.64	3/4	3,778.87	3/4	3,391.09	3/4	3,003.32	3/4	2,615.52	3/4	2,227.61		
9		9	5,273.80	9	4,920.22	9	4,545.86	9	4,158.56	9	3,770.79	9	3,383.02	9	2,995.24	9	2,607.44	9	2,219.52		
1/4		1/4	5,266.64	1/4	4,912.64	1/4	4,537.87	1/4	4,150.48	1/4	3,762.71	1/4	3,374.94	1/4	2,987.16	1/4	2,599.36	1/4	2,211.44		
1/2		1/2	5,259.44	1/2	4,905.01	1/2	4,529.85	1/2	4,142.40	1/2	3,754.63	1/2	3,366.86	1/2	2,979.09	1/2	2,591.28	1/2	2,203.36		
3/4		3/4	5,252.25	3/4	4,897.38	3/4	4,521.83	3/4	4,134.33	3/4	3,746.55	3/4	3,358.78	3/4	2,971.01	3/4	2,583.20	3/4	2,195.28		
10		10	5,245.05	10	4,889.75	10	4,513.82	10	4,126.25	10	3,738.47	10	3,350.70	10	2,962.93	10	2,575.11	10	2,187.20		
1/4		1/4	5,237.86	1/4	4,882.12	1/4	4,505.80	1/4	4,118.17	1/4	3,730.40	1/4	3,342.62	1/4	2,954.85	1/4	2,567.03	1/4	2,179.12		
1/2		1/2	5,230.63	1/2	4,874.46	1/2	4,497.75	1/2	4,110.09	1/2	3,722.32	1/2	3,334.54	1/2	2,946.77	1/2	2,558.95	1/2	2,171.03		
3/4		3/4	5,223.40	3/4	4,866.80	3/4	4,489.70	3/4	4,102.01	3/4	3,714.24	3/4	3,326.47	3/4	2,938.69	3/4	2,550.87	3/4	2,162.95		
11		11	5,216.18	11	4,859.13	11	4,481.65	11	4,093.93	11	3,706.16	11	3,318.39	11	2,930.61	11	2,542.79	11	2,154.87		
1/4		1/4	5,208.95	1/4	4,851.47	1/4	4,473.60	1/4	4,085.85	1/4	3,698.08	1/4	3,310.31	1/4	2,922.54	1/4	2,534.71	1/4	2,146.79		
1/2		1/2	5,201.69	1/2	4,843.78	1/2	4,465.53	1/2	4,077.77	1/2	3,690.00	1/2	3,302.23	1/2	2,914.46	1/2	2,526.63	1/2	2,138.71		
3/4		3/4	5,225.76	3/4	5,194.43	3/4	4,836.08	3/4	4,457.45	3/4	4,069.70	3/4	3,681.92	3/4	3,294.15	3/4	2,906.38	3/4	2,518.54	3/4	2,130.63

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 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	2,122.55	0	1,734.63	0	1,347.29	0	973.65	0	586.33	0	198.43	0		0		0		0	
1/4	2,114.46	1/4	1,726.55	1/4	1,339.39	1/4	965.69	1/4	578.25	1/4	190.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,106.38	1/2	1,718.47	1/2	1,331.62	1/2	957.61	1/2	570.17	1/2	182.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,098.30	3/4	1,710.38	3/4	1,323.85	3/4	949.52	3/4	562.09	3/4	174.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,090.22	1	1,702.30	1	1,316.08	1	941.44	1	554.01	1	166.10	1	1	1	1	1	1	1	1
1/4	2,082.14	1/4	1,694.22	1/4	1,308.31	1/4	933.36	1/4	545.93	1/4	158.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,074.06	1/2	1,686.14	1/2	1,300.54	1/2	925.28	1/2	537.85	1/2	149.94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,065.97	3/4	1,678.06	3/4	1,292.77	3/4	917.20	3/4	529.77	3/4	141.86	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,057.89	2	1,669.98	2	1,285.00	2	909.12	2	521.68	2	133.78	2	2	2	2	2	2	2	2
1/4	2,049.81	1/4	1,661.89	1/4	1,277.24	1/4	901.03	1/4	513.60	1/4	125.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,041.73	1/2	1,653.81	1/2	1,269.47	1/2	892.96	1/2	505.52	1/2	117.61	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,033.65	3/4	1,645.73	3/4	1,261.70	3/4	884.89	3/4	497.44	3/4	109.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,025.57	3	1,637.65	3	1,253.93	3	876.82	3	489.36	3	101.45	3	3	3	3	3	3	3	3
1/4	2,017.48	1/4	1,629.57	1/4	1,246.16	1/4	868.75	1/4	481.28	1/4	93.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,009.40	1/2	1,621.49	1/2	1,238.39	1/2	860.68	1/2	473.20	1/2	85.29	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,001.32	3/4	1,613.40	3/4	1,230.63	3/4	852.61	3/4	465.11	3/4	77.21	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,993.24	4	1,605.32	4	1,222.86	4	844.55	4	457.03	4	69.13	4	4	4	4	4	4	4	4
1/4	1,985.16	1/4	1,597.24	1/4	1,215.09	1/4	836.48	1/4	448.95	1/4	61.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,977.08	1/2	1,589.16	1/2	1,207.32	1/2	828.41	1/2	440.87	1/2	53.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,968.99	3/4	1,581.08	3/4	1,199.55	3/4	820.35	3/4	432.79	3/4	46.56	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,960.91	5	1,573.00	5	1,191.78	5	812.28	5	424.71	5	39.33	5	5	5	5	5	5	5	5
1/4	1,952.83	1/4	1,564.91	1/4	1,184.01	1/4	804.21	1/4	416.63	1/4	32.09	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,944.75	1/2	1,556.83	1/2	1,176.25	1/2	796.15	1/2	408.54	1/2	27.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,936.67	3/4	1,548.75	3/4	1,168.48	3/4	788.08	3/4	400.46	3/4	21.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,928.59	6	1,540.67	6	1,160.71	6	780.01	6	392.38	6	16.93	6	6	6	6	6	6	6	6
1/4	1,920.51	1/4	1,532.59	1/4	1,152.94	1/4	771.95	1/4	384.30	1/4	11.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,912.42	1/2	1,524.51	1/2	1,145.17	1/2	763.88	1/2	376.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,904.34	3/4	1,516.43	3/4	1,137.40	3/4	755.81	3/4	368.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,896.26	7	1,508.34	7	1,129.64	7	747.75	7	360.06	7		7	7	7	7	7	7	7	7
1/4	1,888.18	1/4	1,500.26	1/4	1,121.87	1/4	739.68	1/4	351.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,880.10	1/2	1,492.18	1/2	1,114.10	1/2	731.61	1/2	343.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,872.02	3/4	1,484.10	3/4	1,106.33	3/4	723.55	3/4	335.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,863.93	8	1,476.02	8	1,098.56	8	715.48	8	327.73	8		8	8	8	8	8	8	8	8
1/4	1,855.85	1/4	1,467.94	1/4	1,090.79	1/4	707.41	1/4	319.65	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,847.77	1/2	1,459.85	1/2	1,083.03	1/2	699.35	1/2	311.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,839.69	3/4	1,451.77	3/4	1,075.26	3/4	691.28	3/4	303.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,831.61	9	1,443.69	9	1,067.49	9	683.21	9	295.40	9		9	9	9	9	9	9	9	9
1/4	1,823.53	1/4	1,435.61	1/4	1,059.72	1/4	675.15	1/4	287.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,815.44	1/2	1,427.53	1/2	1,051.95	1/2	667.08	1/2	279.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,807.36	3/4	1,419.45	3/4	1,044.18	3/4	659.01	3/4	271.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,799.28	10	1,411.36	10	1,036.42	10	650.95	10	263.08	10		10	10	10	10	10	10	10	10
1/4	1,791.20	1/4	1,403.28	1/4	1,028.65	1/4	642.88	1/4	255.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,783.12	1/2	1,395.20	1/2	1,020.87	1/2	634.81	1/2	246.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,775.04	3/4	1,387.12	3/4	1,013.10	3/4	626.73	3/4	238.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,766.95	11	1,379.04	11	1,005.33	11	618.65	11	230.75	11		11	11	11	11	11	11	11	11
1/4	1,758.87	1/4	1,370.96	1/4	997.56	1/4	610.58	1/4	222.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,750.79	1/2	1,363.07	1/2	989.59	1/2	602.50	1/2	214.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,742.71	3/4	1,355.18	3/4	981.62	3/4	594.42	3/4	206.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

3 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

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	4,737.37	0	4,519.30	0	4,279.11	0	4,020.48	0	3,753.68	0	3,437.26	0	3,076.13	0	2,714.93	0	2,353.58		
1/4		1/4	4,735.53	1/4	4,514.49	1/4	4,273.91	1/4	4,014.93	1/4	3,748.13	1/4	3,429.76	1/4	3,068.60	1/4	2,707.40	1/4	2,346.05		
1/2		1/2	4,732.43	1/2	4,509.65	1/2	4,268.68	1/2	4,009.37	1/2	3,742.57	1/2	3,422.25	1/2	3,061.08	1/2	2,699.88	1/2	2,338.51		
3/4		3/4	4,729.33	3/4	4,504.82	3/4	4,263.45	3/4	4,003.81	3/4	3,737.01	3/4	3,414.73	3/4	3,053.55	3/4	2,692.35	3/4	2,330.98		
1		1	4,726.24	1	4,499.98	1	4,258.22	1	3,998.25	1	3,731.45	1	3,407.22	1	3,046.03	1	2,684.83	1	2,323.44		
1/4		1/4	4,723.14	1/4	4,495.14	1/4	4,252.99	1/4	3,992.69	1/4	3,725.89	1/4	3,399.70	1/4	3,038.50	1/4	2,677.30	1/4	2,315.91		
1/2		1/2	4,718.79	1/2	4,490.28	1/2	4,247.73	1/2	3,987.13	1/2	3,720.34	1/2	3,392.18	1/2	3,030.98	1/2	2,669.78	1/2	2,308.38		
3/4		3/4	4,714.43	3/4	4,485.41	3/4	4,242.47	3/4	3,981.58	3/4	3,714.78	3/4	3,384.65	3/4	3,023.45	3/4	2,662.25	3/4	2,300.84		
2		2	4,710.08	2	4,480.54	2	4,237.21	2	3,976.02	2	3,709.22	2	3,377.13	2	3,015.93	2	2,654.73	2	2,293.31		
1/4		1/4	4,705.73	1/4	4,475.68	1/4	4,231.95	1/4	3,970.46	1/4	3,703.66	1/4	3,369.60	1/4	3,008.40	1/4	2,647.20	1/4	2,285.77		
1/2		1/2	4,700.46	1/2	4,470.78	1/2	4,226.65	1/2	3,964.90	1/2	3,698.10	1/2	3,362.08	1/2	3,000.88	1/2	2,639.68	1/2	2,278.24		
3/4		3/4	4,695.20	3/4	4,465.88	3/4	4,221.36	3/4	3,959.34	3/4	3,692.54	3/4	3,354.55	3/4	2,993.35	3/4	2,632.15	3/4	2,270.70		
3		3	4,689.94	3	4,460.99	3	4,216.07	3	3,953.78	3	3,686.99	3	3,347.03	3	2,985.83	3	2,624.63	3	2,263.17		
1/4		1/4	4,684.67	1/4	4,456.09	1/4	4,210.78	1/4	3,948.23	1/4	3,681.43	1/4	3,339.50	1/4	2,978.30	1/4	2,617.10	1/4	2,255.64		
1/2		1/2	4,679.74	1/2	4,451.16	1/2	4,205.46	1/2	3,942.67	1/2	3,675.87	1/2	3,331.98	1/2	2,970.78	1/2	2,609.58	1/2	2,248.10		
3/4		3/4	4,674.80	3/4	4,446.24	3/4	4,200.14	3/4	3,937.11	3/4	3,670.31	3/4	3,324.45	3/4	2,963.25	3/4	2,602.05	3/4	2,240.57		
4		4	4,669.87	4	4,441.31	4	4,194.82	4	3,931.55	4	3,664.75	4	3,316.93	4	2,955.73	4	2,594.53	4	2,233.03		
1/4		1/4	4,664.93	1/4	4,436.38	1/4	4,189.50	1/4	3,925.99	1/4	3,659.19	1/4	3,309.40	1/4	2,948.20	1/4	2,587.00	1/4	2,225.50		
1/2		1/2	4,660.34	1/2	4,431.43	1/2	4,184.15	1/2	3,920.43	1/2	3,653.64	1/2	3,301.88	1/2	2,940.68	1/2	2,579.48	1/2	2,217.96		
3/4		3/4	4,655.74	3/4	4,426.47	3/4	4,178.80	3/4	3,914.88	3/4	3,648.08	3/4	3,294.35	3/4	2,933.15	3/4	2,571.95	3/4	2,210.43		
5		5	4,651.14	5	4,421.51	5	4,173.44	5	3,909.32	5	3,642.52	5	3,286.83	5	2,925.63	5	2,564.43	5	2,202.90		
1/4		1/4	4,646.54	1/4	4,416.55	1/4	4,168.09	1/4	3,903.76	1/4	3,636.96	1/4	3,279.30	1/4	2,918.10	1/4	2,556.90	1/4	2,195.36		
1/2		1/2	4,641.92	1/2	4,411.57	1/2	4,162.71	1/2	3,898.20	1/2	3,630.17	1/2	3,271.78	1/2	2,910.58	1/2	2,549.38	1/2	2,187.83		
3/4		3/4	4,637.29	3/4	4,406.58	3/4	4,157.33	3/4	3,892.64	3/4	3,623.37	3/4	3,264.25	3/4	2,903.05	3/4	2,541.85	3/4	2,180.29		
6		6	4,632.66	6	4,401.59	6	4,151.95	6	3,887.08	6	3,616.58	6	3,256.73	6	2,895.53	6	2,534.33	6	2,172.76		
1/4		1/4	4,628.04	1/4	4,396.61	1/4	4,146.57	1/4	3,881.53	1/4	3,609.79	1/4	3,249.20	1/4	2,888.00	1/4	2,526.80	1/4	2,165.22		
1/2		1/2	4,623.38	1/2	4,391.59	1/2	4,141.16	1/2	3,875.97	1/2	3,602.28	1/2	3,241.68	1/2	2,880.48	1/2	2,519.28	1/2	2,157.69		
3/4		3/4	4,618.73	3/4	4,386.57	3/4	4,135.75	3/4	3,870.41	3/4	3,594.76	3/4	3,234.15	3/4	2,872.95	3/4	2,511.75	3/4	2,150.16		
7		7	4,614.07	7	4,381.55	7	4,130.33	7	3,864.85	7	3,587.25	7	3,226.63	7	2,865.43	7	2,504.22	7	2,142.62		
1/4		1/4	4,609.41	1/4	4,376.54	1/4	4,124.92	1/4	3,859.29	1/4	3,579.74	1/4	3,219.10	1/4	2,857.90	1/4	2,496.70	1/4	2,135.09		
1/2		1/2	4,604.73	1/2	4,371.49	1/2	4,119.48	1/2	3,853.73	1/2	3,572.24	1/2	3,211.58	1/2	2,850.38	1/2	2,489.17	1/2	2,127.55		
3/4		3/4	4,600.04	3/4	4,366.44	3/4	4,114.04	3/4	3,848.18	3/4	3,564.74	3/4	3,204.05	3/4	2,842.85	3/4	2,481.64	3/4	2,120.02		
8		8	4,595.36	8	4,361.39	8	4,108.60	8	3,842.62	8	3,557.24	8	3,196.53	8	2,835.33	8	2,474.12	8	2,112.48		
1/4		1/4	4,590.67	1/4	4,356.35	1/4	4,103.16	1/4	3,837.06	1/4	3,549.74	1/4	3,189.00	1/4	2,827.80	1/4	2,466.59	1/4	2,104.95		
1/2		1/2	4,585.95	1/2	4,351.25	1/2	4,097.68	1/2	3,831.50	1/2	3,542.24	1/2	3,181.48	1/2	2,820.28	1/2	2,459.06	1/2	2,097.42		
3/4		3/4	4,581.24	3/4	4,346.15	3/4	4,092.21	3/4	3,825.94	3/4	3,534.74	3/4	3,173.95	3/4	2,812.75	3/4	2,451.52	3/4	2,089.88		
9		9	4,576.52	9	4,341.05	9	4,086.74	9	3,820.38	9	3,527.24	9	3,166.43	9	2,805.23	9	2,443.99	9	2,082.35		
1/4		1/4	4,571.81	1/4	4,335.96	1/4	4,081.27	1/4	3,814.83	1/4	3,519.74	1/4	3,158.90	1/4	2,797.70	1/4	2,436.46	1/4	2,074.81		
1/2		1/2	4,567.06	1/2	4,330.82	1/2	4,075.77	1/2	3,809.27	1/2	3,512.24	1/2	3,151.38	1/2	2,790.18	1/2	2,428.92	1/2	2,067.28		
3/4		3/4	4,562.31	3/4	4,325.68	3/4	4,070.27	3/4	3,803.71	3/4	3,504.75	3/4	3,143.85	3/4	2,782.65	3/4	2,421.39	3/4	2,059.74		
10		10	4,557.57	10	4,320.53	10	4,064.76	10	3,798.15	10	3,497.25	10	3,136.33	10	2,775.13	10	2,413.86	10	2,052.21		
1/4		1/4	4,552.82	1/4	4,315.39	1/4	4,059.26	1/4	3,792.59	1/4	3,489.75	1/4	3,128.80	1/4	2,767.60	1/4	2,406.32	1/4	2,044.68		
1/2		1/2	4,548.05	1/2	4,310.22	1/2	4,053.73	1/2	3,787.03	1/2	3,482.25	1/2	3,121.28	1/2	2,760.08	1/2	2,398.79	1/2	2,037.14		
3/4		3/4	4,543.27	3/4	4,305.05	3/4	4,048.20	3/4	3,781.48	3/4	3,474.75	3/4	3,113.75	3/4	2,752.55	3/4	2,391.25	3/4	2,029.61		
11		11	4,538.49	11	4,299.88	11	4,042.67	11	3,775.92	11	3,467.25	11	3,106.23	11	2,745.03	11	2,383.72	11	2,022.07		
1/4		1/4	4,533.72	1/4	4,294.71	1/4	4,037.13	1/4	3,770.36	1/4	3,459.75	1/4	3,098.70	1/4	2,737.50	1/4	2,376.18	1/4	2,014.54		
1/2		1/2	4,528.91	1/2	4,289.51	1/2	4,031.58	1/2	3,764.80	1/2	3,452.25	1/2	3,091.18	1/2	2,729.98	1/2	2,368.65	1/2	2,007.00		
3/4		3/4	4,739.21	3/4	4,524.10	3/4	4,284.31	3/4	4,026.03	3/4	3,759.24	3/4	3,444.76	3/4	3,083.65	3/4	2,722.45	3/4	2,361.12	3/4	1,999.47

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 10'-09" OFF CENTERLINE AND 45'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	1,991.94	0	1,630.29	0	1,268.64	0	907.41	0	546.77	0	185.06	0		0		0		0	
1/4	1,984.40	1/4	1,622.75	1/4	1,261.11	1/4	899.91	1/4	539.23	1/4	177.52	1/4		1/4		1/4		1/4	
1/2	1,976.87	1/2	1,615.22	1/2	1,253.57	1/2	892.40	1/2	531.69	1/2	169.99	1/2		1/2		1/2		1/2	
3/4	1,969.33	3/4	1,607.69	3/4	1,246.04	3/4	884.90	3/4	524.16	3/4	162.45	3/4		3/4		3/4		3/4	
1	1,961.80	1	1,600.15	1	1,238.51	1	877.40	1	516.62	1	154.91	1		1		1		1	
1/4	1,954.26	1/4	1,592.62	1/4	1,230.97	1/4	869.89	1/4	509.09	1/4	147.38	1/4		1/4		1/4		1/4	
1/2	1,946.73	1/2	1,585.08	1/2	1,223.44	1/2	862.39	1/2	501.55	1/2	139.84	1/2		1/2		1/2		1/2	
3/4	1,939.20	3/4	1,577.55	3/4	1,215.90	3/4	854.88	3/4	493.02	3/4	132.31	3/4		3/4		3/4		3/4	
2	1,931.66	2	1,570.01	2	1,208.37	2	847.38	2	486.48	2	124.77	2		2		2		2	
1/4	1,924.13	1/4	1,562.48	1/4	1,200.83	1/4	839.88	1/4	478.94	1/4	117.24	1/4		1/4		1/4		1/4	
1/2	1,916.59	1/2	1,554.95	1/2	1,193.30	1/2	832.38	1/2	471.41	1/2	109.70	1/2		1/2		1/2		1/2	
3/4	1,909.06	3/4	1,547.41	3/4	1,185.77	3/4	824.89	3/4	463.87	3/4	102.16	3/4		3/4		3/4		3/4	
3	1,901.52	3	1,539.88	3	1,178.23	3	817.39	3	456.34	3	94.63	3		3		3		3	
1/4	1,893.99	1/4	1,532.34	1/4	1,170.70	1/4	809.90	1/4	448.80	1/4	87.09	1/4		1/4		1/4		1/4	
1/2	1,886.46	1/2	1,524.81	1/2	1,163.16	1/2	802.41	1/2	441.27	1/2	79.56	1/2		1/2		1/2		1/2	
3/4	1,878.92	3/4	1,517.27	3/4	1,155.63	3/4	794.92	3/4	433.73	3/4	72.02	3/4		3/4		3/4		3/4	
4	1,871.39	4	1,509.74	4	1,148.09	4	787.43	4	426.20	4	64.49	4		4		4		4	
1/4	1,863.85	1/4	1,502.21	1/4	1,140.56	1/4	779.94	1/4	418.66	1/4	56.95	1/4		1/4		1/4		1/4	
1/2	1,856.32	1/2	1,494.67	1/2	1,133.03	1/2	772.44	1/2	411.12	1/2	50.20	1/2		1/2		1/2		1/2	
3/4	1,848.78	3/4	1,487.14	3/4	1,125.49	3/4	764.93	3/4	403.59	3/4	43.45	3/4		3/4		3/4		3/4	
5	1,841.25	5	1,479.60	5	1,117.96	5	757.42	5	396.05	5	36.70	5		5		5		5	
1/4	1,833.71	1/4	1,472.07	1/4	1,110.42	1/4	749.91	1/4	388.52	1/4	29.95	1/4		1/4		1/4		1/4	
1/2	1,826.18	1/2	1,464.53	1/2	1,102.89	1/2	742.39	1/2	380.98	1/2	25.24	1/2		1/2		1/2		1/2	
3/4	1,818.65	3/4	1,457.00	3/4	1,095.35	3/4	734.87	3/4	373.45	3/4	20.53	3/4		3/4		3/4		3/4	
6	1,811.11	6	1,449.47	6	1,087.82	6	727.35	6	365.91	6	15.82	6		6		6		6	
1/4	1,803.58	1/4	1,441.93	1/4	1,080.28	1/4	719.83	1/4	358.38	1/4	11.11	1/4		1/4		1/4		1/4	
1/2	1,796.04	1/2	1,434.40	1/2	1,072.75	1/2	712.30	1/2	350.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,788.51	3/4	1,426.86	3/4	1,065.22	3/4	704.78	3/4	343.30	3/4		3/4		3/4		3/4		3/4	
7	1,780.97	7	1,419.33	7	1,057.68	7	697.26	7	335.77	7		7		7		7		7	
1/4	1,773.44	1/4	1,411.79	1/4	1,050.15	1/4	689.74	1/4	328.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,765.91	1/2	1,404.26	1/2	1,042.61	1/2	682.22	1/2	320.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,758.37	3/4	1,396.73	3/4	1,035.08	3/4	674.70	3/4	313.16	3/4		3/4		3/4		3/4		3/4	
8	1,750.84	8	1,389.19	8	1,027.54	8	667.18	8	305.63	8		8		8		8		8	
1/4	1,743.30	1/4	1,381.66	1/4	1,020.01	1/4	659.66	1/4	298.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,735.77	1/2	1,374.12	1/2	1,012.50	1/2	652.14	1/2	290.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,728.23	3/4	1,366.59	3/4	1,004.98	3/4	644.62	3/4	283.02	3/4		3/4		3/4		3/4		3/4	
9	1,720.70	9	1,359.05	9	997.47	9	637.10	9	275.48	9		9		9		9		9	
1/4	1,713.17	1/4	1,351.52	1/4	989.95	1/4	629.58	1/4	267.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.63	1/2	1,343.99	1/2	982.45	1/2	622.05	1/2	260.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,698.10	3/4	1,336.45	3/4	974.94	3/4	614.53	3/4	252.88	3/4		3/4		3/4		3/4		3/4	
10	1,690.56	10	1,328.92	10	967.44	10	607.01	10	245.34	10		10		10		10		10	
1/4	1,683.03	1/4	1,321.38	1/4	959.94	1/4	599.49	1/4	237.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,675.49	1/2	1,313.85	1/2	952.43	1/2	591.96	1/2	230.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,667.96	3/4	1,306.31	3/4	944.93	3/4	584.43	3/4	222.73	3/4		3/4		3/4		3/4		3/4	
11	1,660.43	11	1,298.78	11	937.42	11	576.90	11	215.20	11		11		11		11		11	
1/4	1,652.89	1/4	1,291.25	1/4	929.92	1/4	569.37	1/4	207.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,645.36	1/2	1,283.71	1/2	922.42	1/2	561.84	1/2	200.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,637.82	3/4	1,276.18	3/4	914.91	3/4	554.30	3/4	192.59	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29147"

3 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	4,716.94	0	4,501.86	0	4,262.10	0	4,003.85	0	3,737.11	0	3,422.64	0	3,062.14	0	2,701.60	0	2,341.02
1/4		1/4	4,715.10	1/4	4,497.06	1/4	4,256.90	1/4	3,998.30	1/4	3,731.55	1/4	3,415.14	1/4	3,054.63	1/4	2,694.08	1/4	2,333.50
1/2		1/2	4,713.26	1/2	4,492.25	1/2	4,251.70	1/2	3,992.75	1/2	3,725.99	1/2	3,407.64	1/2	3,047.12	1/2	2,686.57	1/2	2,325.98
3/4		3/4	4,710.16	3/4	4,487.42	3/4	4,246.47	3/4	3,987.19	3/4	3,720.44	3/4	3,400.13	3/4	3,039.60	3/4	2,679.06	3/4	2,318.45
1		1	4,707.07	1	4,482.58	1	4,241.24	1	3,981.63	1	3,714.88	1	3,392.63	1	3,032.09	1	2,671.56	1	2,310.93
1/4		1/4	4,703.97	1/4	4,477.74	1/4	4,236.01	1/4	3,976.08	1/4	3,709.32	1/4	3,385.12	1/4	3,024.58	1/4	2,664.05	1/4	2,303.41
1/2		1/2	4,700.87	1/2	4,472.91	1/2	4,230.78	1/2	3,970.52	1/2	3,703.76	1/2	3,377.61	1/2	3,017.07	1/2	2,656.54	1/2	2,295.89
3/4		3/4	4,696.52	3/4	4,468.04	3/4	4,225.52	3/4	3,964.96	3/4	3,698.21	3/4	3,370.10	3/4	3,009.56	3/4	2,649.03	3/4	2,288.37
2		2	4,692.17	2	4,463.18	2	4,220.26	2	3,959.40	2	3,692.65	2	3,362.59	2	3,002.05	2	2,641.52	2	2,280.84
1/4		1/4	4,687.82	1/4	4,458.31	1/4	4,215.00	1/4	3,953.85	1/4	3,687.09	1/4	3,355.08	1/4	2,994.54	1/4	2,634.01	1/4	2,273.32
1/2		1/2	4,683.47	1/2	4,453.44	1/2	4,209.74	1/2	3,948.29	1/2	3,681.53	1/2	3,347.57	1/2	2,987.02	1/2	2,626.51	1/2	2,265.80
3/4		3/4	4,678.20	3/4	4,448.55	3/4	4,204.45	3/4	3,942.73	3/4	3,675.98	3/4	3,340.06	3/4	2,979.51	3/4	2,619.00	3/4	2,258.28
3		3	4,672.94	3	4,443.65	3	4,199.16	3	3,937.17	3	3,670.42	3	3,332.54	3	2,972.00	3	2,611.49	3	2,250.75
1/4		1/4	4,667.68	1/4	4,438.75	1/4	4,193.87	1/4	3,931.62	1/4	3,664.86	1/4	3,325.03	1/4	2,964.49	1/4	2,603.98	1/4	2,243.23
1/2		1/2	4,662.42	1/2	4,433.86	1/2	4,188.58	1/2	3,926.06	1/2	3,659.30	1/2	3,317.52	1/2	2,956.98	1/2	2,596.48	1/2	2,235.71
3/4		3/4	4,657.48	3/4	4,428.93	3/4	4,183.26	3/4	3,920.50	3/4	3,653.75	3/4	3,310.01	3/4	2,949.47	3/4	2,588.97	3/4	2,228.19
4		4	4,652.55	4	4,424.01	4	4,177.94	4	3,914.94	4	3,648.19	4	3,302.50	4	2,941.96	4	2,581.46	4	2,220.67
1/4		1/4	4,647.61	1/4	4,419.08	1/4	4,172.62	1/4	3,909.39	1/4	3,642.63	1/4	3,294.99	1/4	2,934.45	1/4	2,573.95	1/4	2,213.14
1/2		1/2	4,642.68	1/2	4,414.15	1/2	4,167.30	1/2	3,903.83	1/2	3,637.07	1/2	3,287.48	1/2	2,926.93	1/2	2,566.45	1/2	2,205.62
3/4		3/4	4,638.08	3/4	4,409.20	3/4	4,161.95	3/4	3,898.27	3/4	3,631.52	3/4	3,279.97	3/4	2,919.42	3/4	2,558.94	3/4	2,198.10
5		5	4,633.49	5	4,404.24	5	4,156.60	5	3,892.71	5	3,625.96	5	3,272.45	5	2,911.91	5	2,551.43	5	2,190.58
1/4		1/4	4,628.89	1/4	4,399.28	1/4	4,151.25	1/4	3,887.16	1/4	3,620.40	1/4	3,264.94	1/4	2,904.40	1/4	2,543.92	1/4	2,183.05
1/2		1/2	4,624.29	1/2	4,394.33	1/2	4,145.90	1/2	3,881.60	1/2	3,614.84	1/2	3,257.43	1/2	2,896.89	1/2	2,536.42	1/2	2,175.53
3/4		3/4	4,619.66	3/4	4,389.34	3/4	4,140.52	3/4	3,876.04	3/4	3,608.05	3/4	3,249.92	3/4	2,889.38	3/4	2,528.91	3/4	2,168.06
6		6	4,615.04	6	4,384.35	6	4,135.14	6	3,870.49	6	3,601.26	6	3,242.41	6	2,881.87	6	2,521.40	6	2,160.58
1/4		1/4	4,610.41	1/4	4,379.37	1/4	4,129.76	1/4	3,864.93	1/4	3,594.47	1/4	3,234.90	1/4	2,874.36	1/4	2,513.89	1/4	2,153.10
1/2		1/2	4,605.79	1/2	4,374.38	1/2	4,124.38	1/2	3,859.37	1/2	3,587.68	1/2	3,227.39	1/2	2,866.84	1/2	2,506.39	1/2	2,145.62
3/4		3/4	4,601.13	3/4	4,369.36	3/4	4,118.96	3/4	3,853.81	3/4	3,580.17	3/4	3,219.88	3/4	2,859.33	3/4	2,498.88	3/4	2,138.17
7		7	4,596.48	7	4,364.35	7	4,113.55	7	3,848.26	7	3,572.66	7	3,212.36	7	2,851.82	7	2,491.37	7	2,130.72
1/4		1/4	4,591.82	1/4	4,359.33	1/4	4,108.14	1/4	3,842.70	1/4	3,565.14	1/4	3,204.85	1/4	2,844.31	1/4	2,483.86	1/4	2,123.27
1/2		1/2	4,587.17	1/2	4,354.31	1/2	4,102.73	1/2	3,837.14	1/2	3,557.63	1/2	3,197.34	1/2	2,836.80	1/2	2,476.35	1/2	2,115.82
3/4		3/4	4,582.48	3/4	4,349.27	3/4	4,097.29	3/4	3,831.58	3/4	3,550.13	3/4	3,189.83	3/4	2,829.29	3/4	2,468.84	3/4	2,108.37
8		8	4,577.79	8	4,344.22	8	4,091.85	8	3,826.03	8	3,542.63	8	3,182.32	8	2,821.78	8	2,461.33	8	2,100.92
1/4		1/4	4,573.11	1/4	4,339.17	1/4	4,086.41	1/4	3,820.47	1/4	3,535.13	1/4	3,174.81	1/4	2,814.26	1/4	2,453.82	1/4	2,093.47
1/2		1/2	4,568.42	1/2	4,334.13	1/2	4,080.97	1/2	3,814.91	1/2	3,527.63	1/2	3,167.30	1/2	2,806.75	1/2	2,446.31	1/2	2,086.02
3/4		3/4	4,563.71	3/4	4,329.03	3/4	4,075.50	3/4	3,809.35	3/4	3,520.13	3/4	3,159.78	3/4	2,799.24	3/4	2,438.79	3/4	2,078.57
9		9	4,558.99	9	4,323.93	9	4,070.03	9	3,803.80	9	3,512.63	9	3,152.27	9	2,791.73	9	2,431.28	9	2,071.12
1/4		1/4	4,554.28	1/4	4,318.83	1/4	4,064.56	1/4	3,798.24	1/4	3,505.14	1/4	3,144.76	1/4	2,784.22	1/4	2,423.76	1/4	2,063.67
1/2		1/2	4,549.56	1/2	4,313.74	1/2	4,059.09	1/2	3,792.68	1/2	3,497.64	1/2	3,137.25	1/2	2,776.71	1/2	2,416.24	1/2	2,056.22
3/4		3/4	4,544.82	3/4	4,308.60	3/4	4,053.59	3/4	3,787.12	3/4	3,490.14	3/4	3,129.74	3/4	2,769.20	3/4	2,408.72	3/4	2,048.76
10		10	4,540.07	10	4,303.46	10	4,048.08	10	3,781.57	10	3,482.64	10	3,122.23	10	2,761.69	10	2,401.20	10	2,041.31
1/4		1/4	4,535.32	1/4	4,298.32	1/4	4,042.58	1/4	3,776.01	1/4	3,475.14	1/4	3,114.72	1/4	2,754.17	1/4	2,393.68	1/4	2,033.86
1/2		1/2	4,530.58	1/2	4,293.18	1/2	4,037.08	1/2	3,770.45	1/2	3,467.64	1/2	3,107.21	1/2	2,746.66	1/2	2,386.15	1/2	2,026.41
3/4		3/4	4,525.80	3/4	4,288.01	3/4	4,031.55	3/4	3,764.89	3/4	3,460.14	3/4	3,099.69	3/4	2,739.15	3/4	2,378.63	3/4	2,018.96
11		11	4,521.03	11	4,282.84	11	4,026.02	11	3,759.34	11	3,452.64	11	3,092.18	11	2,731.64	11	2,371.11	11	2,011.51
1/4		1/4	4,516.25	1/4	4,277.67	1/4	4,020.49	1/4	3,753.78	1/4	3,445.14	1/4	3,084.67	1/4	2,724.13	1/4	2,363.59	1/4	2,004.06
1/2		1/2	4,511.48	1/2	4,272.50	1/2	4,014.96	1/2	3,748.22	1/2	3,437.64	1/2	3,077.16	1/2	2,716.62	1/2	2,356.07	1/2	1,996.61
3/4		3/4	4,506.67	3/4	4,267.30	3/4	4,009.41	3/4	3,742.66	3/4	3,430.14	3/4	3,069.65	3/4	2,709.11	3/4	2,348.54	3/4	1,989.16

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 10'-09" OFF CENTERLINE AND 45'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "CTC 29147"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 317"

GAUGE HEIGHT 15'-06 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	1,981.71	0	1,622.41	0	1,261.84	0	913.90	0	553.53	0	192.50	0		0		0		0	
1/4	1,974.26	1/4	1,614.89	1/4	1,254.49	1/4	906.48	1/4	546.00	1/4	184.98	1/4		1/4		1/4		1/4	
1/2	1,966.81	1/2	1,607.37	1/2	1,247.14	1/2	899.07	1/2	538.48	1/2	177.46	1/2		1/2		1/2		1/2	
3/4	1,959.36	3/4	1,599.85	3/4	1,239.89	3/4	891.54	3/4	530.96	3/4	169.93	3/4		3/4		3/4		3/4	
1	1,951.91	1	1,592.33	1	1,232.65	1	884.02	1	523.44	1	162.40	1		1		1		1	
1/4	1,944.45	1/4	1,584.81	1/4	1,225.40	1/4	876.50	1/4	515.92	1/4	154.87	1/4		1/4		1/4		1/4	
1/2	1,937.00	1/2	1,577.29	1/2	1,218.16	1/2	868.98	1/2	508.39	1/2	147.34	1/2		1/2		1/2		1/2	
3/4	1,929.55	3/4	1,569.77	3/4	1,210.91	3/4	861.46	3/4	500.87	3/4	139.80	3/4		3/4		3/4		3/4	
2	1,922.10	2	1,562.25	2	1,203.67	2	853.93	2	493.35	2	132.27	2		2		2		2	
1/4	1,914.65	1/4	1,554.74	1/4	1,196.43	1/4	846.41	1/4	485.83	1/4	124.74	1/4		1/4		1/4		1/4	
1/2	1,907.20	1/2	1,547.22	1/2	1,189.19	1/2	838.89	1/2	478.31	1/2	117.20	1/2		1/2		1/2		1/2	
3/4	1,899.75	3/4	1,539.70	3/4	1,181.94	3/4	831.38	3/4	470.79	3/4	109.67	3/4		3/4		3/4		3/4	
3	1,892.30	3	1,532.18	3	1,174.70	3	823.86	3	463.26	3	102.14	3		3		3		3	
1/4	1,884.85	1/4	1,524.66	1/4	1,167.46	1/4	816.35	1/4	455.74	1/4	94.60	1/4		1/4		1/4		1/4	
1/2	1,877.40	1/2	1,517.14	1/2	1,160.22	1/2	808.84	1/2	448.22	1/2	87.07	1/2		1/2		1/2		1/2	
3/4	1,869.95	3/4	1,509.62	3/4	1,152.98	3/4	801.33	3/4	440.70	3/4	79.53	3/4		3/4		3/4		3/4	
4	1,862.50	4	1,502.10	4	1,145.74	4	793.82	4	433.18	4	72.00	4		4		4		4	
1/4	1,855.05	1/4	1,494.58	1/4	1,138.51	1/4	786.32	1/4	425.65	1/4	64.47	1/4		1/4		1/4		1/4	
1/2	1,847.60	1/2	1,487.07	1/2	1,131.27	1/2	778.81	1/2	418.13	1/2	56.93	1/2		1/2		1/2		1/2	
3/4	1,840.14	3/4	1,479.55	3/4	1,124.04	3/4	771.30	3/4	410.61	3/4	50.18	3/4		3/4		3/4		3/4	
5	1,832.69	5	1,472.03	5	1,116.81	5	763.80	5	403.09	5	43.43	5		5		5		5	
1/4	1,825.24	1/4	1,464.51	1/4	1,109.57	1/4	756.29	1/4	395.57	1/4	36.69	1/4		1/4		1/4		1/4	
1/2	1,817.79	1/2	1,456.99	1/2	1,102.34	1/2	748.78	1/2	388.04	1/2	29.94	1/2		1/2		1/2		1/2	
3/4	1,810.30	3/4	1,449.47	3/4	1,095.11	3/4	741.27	3/4	380.52	3/4	25.23	3/4		3/4		3/4		3/4	
6	1,802.81	6	1,441.95	6	1,087.87	6	733.77	6	373.00	6	20.52	6		6		6		6	
1/4	1,795.31	1/4	1,434.43	1/4	1,080.64	1/4	726.26	1/4	365.48	1/4	15.81	1/4		1/4		1/4		1/4	
1/2	1,787.82	1/2	1,426.91	1/2	1,073.41	1/2	718.75	1/2	357.96	1/2	11.11	1/2		1/2		1/2		1/2	
3/4	1,780.30	3/4	1,419.40	3/4	1,066.18	3/4	711.25	3/4	350.43	3/4		3/4		3/4		3/4		3/4	
7	1,772.78	7	1,411.88	7	1,058.94	7	703.74	7	342.91	7		7		7		7		7	
1/4	1,765.27	1/4	1,404.36	1/4	1,051.71	1/4	696.23	1/4	335.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,757.75	1/2	1,396.84	1/2	1,044.48	1/2	688.72	1/2	327.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,750.23	3/4	1,389.32	3/4	1,037.24	3/4	681.22	3/4	320.35	3/4		3/4		3/4		3/4		3/4	
8	1,742.71	8	1,381.80	8	1,030.01	8	673.71	8	312.83	8		8		8		8		8	
1/4	1,735.19	1/4	1,374.28	1/4	1,022.78	1/4	666.20	1/4	305.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,727.67	1/2	1,366.76	1/2	1,015.55	1/2	658.69	1/2	297.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,720.15	3/4	1,359.24	3/4	1,008.31	3/4	651.19	3/4	290.26	3/4		3/4		3/4		3/4		3/4	
9	1,712.63	9	1,351.73	9	1,001.08	9	643.68	9	282.74	9		9		9		9		9	
1/4	1,705.11	1/4	1,344.21	1/4	993.85	1/4	636.17	1/4	275.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,697.60	1/2	1,336.69	1/2	986.61	1/2	628.67	1/2	267.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,690.08	3/4	1,329.17	3/4	979.38	3/4	621.16	3/4	260.18	3/4		3/4		3/4		3/4		3/4	
10	1,682.56	10	1,321.65	10	972.15	10	613.65	10	252.66	10		10		10		10		10	
1/4	1,675.04	1/4	1,314.13	1/4	964.91	1/4	606.14	1/4	245.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,667.52	1/2	1,306.61	1/2	957.68	1/2	598.64	1/2	237.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,660.00	3/4	1,299.09	3/4	950.44	3/4	591.12	3/4	230.10	3/4		3/4		3/4		3/4		3/4	
11	1,652.48	11	1,291.57	11	943.21	11	583.60	11	222.58	11		11		11		11		11	
1/4	1,644.96	1/4	1,284.06	1/4	935.97	1/4	576.09	1/4	215.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,637.44	1/2	1,276.54	1/2	928.73	1/2	568.57	1/2	207.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,629.93	3/4	1,269.19	3/4	921.32	3/4	561.05	3/4	200.02	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/12/2020 JS
CALCULATED: 03/14/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023