



BARGE "CTC 29146"

ULLAGE (HERMETIC)
FORMERLY "E2MS 316"

	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 INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE 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 29146"

1 PORT INNAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

GAUGE HEIGHT 15'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	8.60	0	256.41	0	538.19	0	842.68	0	1,168.74	0	1,499.88	0	1,831.02	0	2,162.14	0	2,493.15	0	2,824.17
1/4	11.61	1/4	262.07	1/4	544.31	1/4	849.28	1/4	1,175.64	1/4	1,506.78	1/4	1,837.91	1/4	2,169.04	1/4	2,500.05	1/4	2,831.06
1/2	14.63	1/2	267.73	1/2	550.42	1/2	855.88	1/2	1,182.54	1/2	1,513.68	1/2	1,844.81	1/2	2,175.93	1/2	2,506.95	1/2	2,837.96
3/4	17.64	3/4	273.39	3/4	556.54	3/4	862.49	3/4	1,189.44	3/4	1,520.57	3/4	1,851.71	3/4	2,182.83	3/4	2,513.84	3/4	2,844.86
1	20.65	1	279.05	1	562.66	1	869.09	1	1,196.34	1	1,527.47	1	1,858.61	1	2,189.73	1	2,520.74	1	2,851.75
1/4	25.16	1/4	284.74	1/4	568.81	1/4	875.73	1/4	1,203.23	1/4	1,534.37	1/4	1,865.51	1/4	2,196.62	1/4	2,527.64	1/4	2,858.65
1/2	29.66	1/2	290.44	1/2	574.97	1/2	882.38	1/2	1,210.13	1/2	1,541.27	1/2	1,872.41	1/2	2,203.52	1/2	2,534.53	1/2	2,865.54
3/4	34.17	3/4	296.14	3/4	581.12	3/4	889.02	3/4	1,217.03	3/4	1,548.17	3/4	1,879.31	3/4	2,210.41	3/4	2,541.43	3/4	2,872.44
2	38.68	2	301.84	2	587.28	2	895.66	2	1,223.93	2	1,555.07	2	1,886.21	2	2,217.31	2	2,548.32	2	2,879.34
1/4	43.95	1/4	307.58	1/4	593.48	1/4	902.35	1/4	1,230.83	1/4	1,561.97	1/4	1,893.10	1/4	2,224.21	1/4	2,555.22	1/4	2,886.23
1/2	49.21	1/2	313.32	1/2	599.67	1/2	909.03	1/2	1,237.73	1/2	1,568.87	1/2	1,900.00	1/2	2,231.10	1/2	2,562.12	1/2	2,893.13
3/4	54.48	3/4	319.06	3/4	605.87	3/4	915.71	3/4	1,244.63	3/4	1,575.76	3/4	1,906.90	3/4	2,238.00	3/4	2,569.01	3/4	2,900.02
3	59.74	3	324.79	3	612.06	3	922.39	3	1,251.53	3	1,582.66	3	1,913.80	3	2,244.90	3	2,575.91	3	2,906.92
1/4	65.05	1/4	330.57	1/4	618.30	1/4	929.11	1/4	1,258.42	1/4	1,589.56	1/4	1,920.70	1/4	2,251.79	1/4	2,582.80	1/4	2,913.82
1/2	70.36	1/2	336.35	1/2	624.54	1/2	935.84	1/2	1,265.32	1/2	1,596.46	1/2	1,927.60	1/2	2,258.69	1/2	2,589.70	1/2	2,920.71
3/4	75.66	3/4	342.13	3/4	630.78	3/4	942.56	3/4	1,272.22	3/4	1,603.36	3/4	1,934.50	3/4	2,265.58	3/4	2,596.60	3/4	2,927.61
4	80.97	4	347.90	4	637.02	4	949.28	4	1,279.12	4	1,610.26	4	1,941.40	4	2,272.48	4	2,603.49	4	2,934.51
1/4	86.31	1/4	353.72	1/4	643.31	1/4	956.04	1/4	1,286.02	1/4	1,617.16	1/4	1,948.29	1/4	2,279.38	1/4	2,610.39	1/4	2,941.40
1/2	91.66	1/2	359.54	1/2	649.60	1/2	962.80	1/2	1,292.92	1/2	1,624.06	1/2	1,955.19	1/2	2,286.27	1/2	2,617.28	1/2	2,948.30
3/4	97.00	3/4	365.35	3/4	655.89	3/4	969.56	3/4	1,299.82	3/4	1,630.95	3/4	1,962.09	3/4	2,293.17	3/4	2,624.18	3/4	2,955.19
5	102.35	5	371.17	5	662.18	5	976.32	5	1,306.71	5	1,637.85	5	1,968.99	5	2,300.06	5	2,631.08	5	2,962.09
1/4	107.73	1/4	377.03	1/4	668.51	1/4	983.12	1/4	1,313.61	1/4	1,644.75	1/4	1,975.89	1/4	2,306.96	1/4	2,637.97	1/4	2,968.99
1/2	113.11	1/2	382.88	1/2	674.84	1/2	989.92	1/2	1,320.51	1/2	1,651.65	1/2	1,982.79	1/2	2,313.86	1/2	2,644.87	1/2	2,975.88
3/4	118.50	3/4	388.74	3/4	681.16	3/4	996.72	3/4	1,327.41	3/4	1,658.55	3/4	1,989.69	3/4	2,320.75	3/4	2,651.77	3/4	2,982.78
6	123.88	6	394.60	6	687.49	6	1,003.52	6	1,334.31	6	1,665.45	6	1,996.58	6	2,327.65	6	2,658.66	6	2,989.67
1/4	129.31	1/4	400.49	1/4	693.86	1/4	1,010.36	1/4	1,341.21	1/4	1,672.35	1/4	2,003.48	1/4	2,334.54	1/4	2,665.56	1/4	2,996.57
1/2	134.73	1/2	406.39	1/2	700.23	1/2	1,017.20	1/2	1,348.11	1/2	1,679.24	1/2	2,010.38	1/2	2,341.44	1/2	2,672.45	1/2	3,003.47
3/4	140.15	3/4	412.28	3/4	706.60	3/4	1,024.04	3/4	1,355.01	3/4	1,686.14	3/4	2,017.28	3/4	2,348.34	3/4	2,679.35	3/4	3,010.36
7	145.58	7	418.18	7	712.96	7	1,030.88	7	1,361.90	7	1,693.04	7	2,024.18	7	2,355.23	7	2,686.25	7	3,017.26
1/4	151.04	1/4	424.11	1/4	719.37	1/4	1,037.76	1/4	1,368.80	1/4	1,699.94	1/4	2,031.08	1/4	2,362.13	1/4	2,693.14	1/4	3,024.15
1/2	156.50	1/2	430.04	1/2	725.78	1/2	1,044.63	1/2	1,375.70	1/2	1,706.84	1/2	2,037.98	1/2	2,369.03	1/2	2,700.04	1/2	3,031.05
3/4	161.97	3/4	435.97	3/4	732.18	3/4	1,051.51	3/4	1,382.60	3/4	1,713.74	3/4	2,044.88	3/4	2,375.92	3/4	2,706.93	3/4	3,037.95
8	167.43	8	441.89	8	738.59	8	1,058.38	8	1,389.50	8	1,720.64	8	2,051.77	8	2,382.82	8	2,713.83	8	3,044.84
1/4	172.93	1/4	447.85	1/4	745.04	1/4	1,065.27	1/4	1,396.40	1/4	1,727.54	1/4	2,058.67	1/4	2,389.71	1/4	2,720.73	1/4	3,051.74
1/2	178.43	1/2	453.81	1/2	751.48	1/2	1,072.17	1/2	1,403.30	1/2	1,734.43	1/2	2,065.57	1/2	2,396.61	1/2	2,727.62	1/2	3,058.64
3/4	183.94	3/4	459.77	3/4	757.93	3/4	1,079.06	3/4	1,410.20	3/4	1,741.33	3/4	2,072.47	3/4	2,403.51	3/4	2,734.52	3/4	3,065.53
9	189.44	9	465.73	9	764.38	9	1,085.96	9	1,417.09	9	1,748.23	9	2,079.37	9	2,410.40	9	2,741.41	9	3,072.43
1/4	194.98	1/4	471.73	1/4	770.86	1/4	1,092.86	1/4	1,423.99	1/4	1,755.13	1/4	2,086.27	1/4	2,417.30	1/4	2,748.31	1/4	3,079.32
1/2	200.52	1/2	477.73	1/2	777.35	1/2	1,099.75	1/2	1,430.89	1/2	1,762.03	1/2	2,093.17	1/2	2,424.19	1/2	2,755.21	1/2	3,086.22
3/4	206.06	3/4	483.73	3/4	783.83	3/4	1,106.65	3/4	1,437.79	3/4	1,768.93	3/4	2,100.07	3/4	2,431.09	3/4	2,762.10	3/4	3,093.12
10	211.60	10	489.73	10	790.32	10	1,113.55	10	1,444.69	10	1,775.83	10	2,106.96	10	2,437.99	10	2,769.00	10	3,100.01
1/4	217.18	1/4	495.77	1/4	796.84	1/4	1,120.45	1/4	1,451.59	1/4	1,782.73	1/4	2,113.86	1/4	2,444.88	1/4	2,775.89	1/4	3,106.91
1/2	222.77	1/2	501.80	1/2	803.37	1/2	1,127.35	1/2	1,458.49	1/2	1,789.62	1/2	2,120.76	1/2	2,451.78	1/2	2,782.79	1/2	3,113.80
3/4	228.35	3/4	507.84	3/4	809.89	3/4	1,134.25	3/4	1,465.39	3/4	1,796.52	3/4	2,127.66	3/4	2,458.67	3/4	2,789.69	3/4	3,120.70
11	233.93	11	513.88	11	816.42	11	1,141.15	11	1,472.28	11	1,803.42	11	2,134.56	11	2,465.57	11	2,796.58	11	3,127.60
1/4	239.55	1/4	519.96	1/4	822.98	1/4	1,148.04	1/4	1,479.18	1/4	1,810.32	1/4	2,141.45	1/4	2,472.47	1/4	2,803.48	1/4	3,134.49
1/2	245.17	1/2	526.03	1/2	829.55	1/2	1,154.94	1/2	1,486.08	1/2	1,817.22	1/2	2,148.35	1/2	2,479.36	1/2	2,810.38	1/2	3,141.39
3/4	250.79	3/4	532.11	3/4	836.11	3/4	1,161.84	3/4	1,492.98	3/4	1,824.12	3/4	2,155.25	3/4	2,486.26	3/4	2,817.27	3/4	3,148.28

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'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "CTC 29146"

1 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

GAUGE HEIGHT 15'-06 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	3,155.18	0	3,486.19	0	3,815.60	0	4,131.15	0	4,429.25	0		0		0		0		0	
1/4	3,162.08	1/4	3,493.09	1/4	3,822.33	1/4	4,137.51	1/4	4,435.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,168.97	1/2	3,499.99	1/2	3,829.06	1/2	4,143.87	1/2	4,441.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,175.87	3/4	3,506.88	3/4	3,835.80	3/4	4,150.23	3/4	4,447.34	3/4		3/4		3/4		3/4		3/4	
1	3,182.76	1	3,513.78	1	3,842.53	1	4,156.60	1	4,453.38	1		1		1		1		1	
1/4	3,189.66	1/4	3,520.67	1/4	3,849.24	1/4	4,162.93	1/4	4,459.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,196.56	1/2	3,527.57	1/2	3,855.94	1/2	4,169.27	1/2	4,465.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,203.45	3/4	3,534.47	3/4	3,862.65	3/4	4,175.60	3/4	4,471.39	3/4		3/4		3/4		3/4		3/4	
2	3,210.35	2	3,541.36	2	3,869.36	2	4,181.94	2	4,477.39	2		2		2		2		2	
1/4	3,217.25	1/4	3,548.26	1/4	3,876.04	1/4	4,188.24	1/4	4,483.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,224.14	1/2	3,555.15	1/2	3,882.71	1/2	4,194.55	1/2	4,490.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,231.04	3/4	3,562.05	3/4	3,889.39	3/4	4,200.86	3/4	4,496.33	3/4		3/4		3/4		3/4		3/4	
3	3,237.93	3	3,568.95	3	3,896.07	3	4,207.17	3	4,502.64	3		3		3		3		3	
1/4	3,244.83	1/4	3,575.84	1/4	3,902.72	1/4	4,213.44	1/4	4,509.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,251.73	1/2	3,582.74	1/2	3,909.37	1/2	4,219.72	1/2	4,515.85	1/2		1/2		1/2		1/2		1/2	
3/4	3,258.62	3/4	3,589.63	3/4	3,916.02	3/4	4,226.00	3/4	4,522.45	3/4		3/4		3/4		3/4		3/4	
4	3,265.52	4	3,596.53	4	3,922.67	4	4,232.28	4	4,529.06	4		4		4		4		4	
1/4	3,272.41	1/4	3,603.43	1/4	3,929.30	1/4	4,238.54	1/4	4,534.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,279.31	1/2	3,610.32	1/2	3,935.92	1/2	4,244.79	1/2	4,540.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,286.21	3/4	3,617.22	3/4	3,942.54	3/4	4,251.04	3/4	4,546.33	3/4		3/4		3/4		3/4		3/4	
5	3,293.10	5	3,624.12	5	3,949.17	5	4,257.29	5	4,552.08	5		5		5		5		5	
1/4	3,300.00	1/4	3,631.01	1/4	3,955.76	1/4	4,263.52	1/4	4,556.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,306.89	1/2	3,637.91	1/2	3,962.36	1/2	4,269.74	1/2	4,561.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,313.79	3/4	3,644.80	3/4	3,968.95	3/4	4,275.96	3/4	4,565.90	3/4		3/4		3/4		3/4		3/4	
6	3,320.69	6	3,651.70	6	3,975.55	6	4,282.19	6	4,570.50	6		6		6		6		6	
1/4	3,327.58	1/4	3,658.59	1/4	3,982.12	1/4	4,288.39	1/4	4,573.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,334.48	1/2	3,665.48	1/2	3,988.69	1/2	4,294.58	1/2	4,577.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,341.38	3/4	3,672.37	3/4	3,995.25	3/4	4,300.78	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,348.27	7	3,679.26	7	4,001.82	7	4,306.98	7		7		7		7		7		7	
1/4	3,355.17	1/4	3,686.14	1/4	4,008.36	1/4	4,313.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,362.06	1/2	3,693.01	1/2	4,014.90	1/2	4,319.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,368.96	3/4	3,699.88	3/4	4,021.44	3/4	4,325.48	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,375.86	8	3,706.75	8	4,027.98	8	4,331.65	8		8		8		8		8		8	
1/4	3,382.75	1/4	3,713.60	1/4	4,034.50	1/4	4,337.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,389.65	1/2	3,720.44	1/2	4,041.01	1/2	4,343.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,396.54	3/4	3,727.28	3/4	4,047.52	3/4	4,350.08	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,403.44	9	3,734.13	9	4,054.04	9	4,356.22	9		9		9		9		9		9	
1/4	3,410.34	1/4	3,740.95	1/4	4,060.51	1/4	4,362.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,417.23	1/2	3,747.76	1/2	4,066.98	1/2	4,368.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,424.13	3/4	3,754.58	3/4	4,073.45	3/4	4,374.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,431.02	10	3,761.39	10	4,079.92	10	4,380.67	10		10		10		10		10		10	
1/4	3,437.92	1/4	3,768.18	1/4	4,086.33	1/4	4,386.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,444.82	1/2	3,774.97	1/2	4,092.75	1/2	4,392.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,451.71	3/4	3,781.76	3/4	4,099.17	3/4	4,398.93	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,458.61	11	3,788.55	11	4,105.59	11	4,405.02	11		11		11		11		11		11	
1/4	3,465.50	1/4	3,795.31	1/4	4,111.98	1/4	4,411.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,472.40	1/2	3,802.07	1/2	4,118.37	1/2	4,417.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,479.30	3/4	3,808.84	3/4	4,124.76	3/4	4,423.19	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023

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 29146"

1 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	8.63	0	257.16	0	539.71	0	844.29	0	1,170.30	0	1,502.19	0	1,834.09	0	2,165.99	0	2,497.76	0	2,829.54
1/4	11.65	1/4	262.84	1/4	545.84	1/4	850.88	1/4	1,177.21	1/4	1,509.11	1/4	1,841.00	1/4	2,172.90	1/4	2,504.68	1/4	2,836.45
1/2	14.67	1/2	268.51	1/2	551.97	1/2	857.47	1/2	1,184.13	1/2	1,516.02	1/2	1,847.92	1/2	2,179.81	1/2	2,511.59	1/2	2,843.36
3/4	17.69	3/4	274.19	3/4	558.11	3/4	864.06	3/4	1,191.04	3/4	1,522.94	3/4	1,854.83	3/4	2,186.72	3/4	2,518.50	3/4	2,850.28
1	20.71	1	279.86	1	564.24	1	870.64	1	1,197.95	1	1,529.85	1	1,861.75	1	2,193.64	1	2,525.41	1	2,857.19
1/4	25.23	1/4	285.58	1/4	570.41	1/4	877.27	1/4	1,204.87	1/4	1,536.76	1/4	1,868.66	1/4	2,200.55	1/4	2,532.32	1/4	2,864.10
1/2	29.75	1/2	291.29	1/2	576.58	1/2	883.90	1/2	1,211.78	1/2	1,543.68	1/2	1,875.58	1/2	2,207.46	1/2	2,539.24	1/2	2,871.01
3/4	34.28	3/4	297.01	3/4	582.75	3/4	890.52	3/4	1,218.70	3/4	1,550.59	3/4	1,882.49	3/4	2,214.37	3/4	2,546.15	3/4	2,877.92
2	38.80	2	302.72	2	588.93	2	897.15	2	1,225.61	2	1,557.51	2	1,889.40	2	2,221.28	2	2,553.06	2	2,884.84
1/4	44.08	1/4	308.48	1/4	595.14	1/4	903.82	1/4	1,232.53	1/4	1,564.42	1/4	1,896.32	1/4	2,228.20	1/4	2,559.97	1/4	2,891.75
1/2	49.36	1/2	314.23	1/2	601.35	1/2	910.48	1/2	1,239.44	1/2	1,571.34	1/2	1,903.23	1/2	2,235.11	1/2	2,566.88	1/2	2,898.66
3/4	54.65	3/4	319.99	3/4	607.56	3/4	917.15	3/4	1,246.36	3/4	1,578.25	3/4	1,910.15	3/4	2,242.02	3/4	2,573.80	3/4	2,905.57
3	59.93	3	325.74	3	613.77	3	923.81	3	1,253.27	3	1,585.17	3	1,917.06	3	2,248.93	3	2,580.71	3	2,912.48
1/4	65.25	1/4	331.53	1/4	620.03	1/4	930.52	1/4	1,260.18	1/4	1,592.08	1/4	1,923.98	1/4	2,255.84	1/4	2,587.62	1/4	2,919.40
1/2	70.57	1/2	337.33	1/2	626.28	1/2	937.23	1/2	1,267.10	1/2	1,599.00	1/2	1,930.89	1/2	2,262.76	1/2	2,594.53	1/2	2,926.31
3/4	75.89	3/4	343.12	3/4	632.54	3/4	943.93	3/4	1,274.01	3/4	1,605.91	3/4	1,937.81	3/4	2,269.67	3/4	2,601.44	3/4	2,933.22
4	81.21	4	348.91	4	638.80	4	950.64	4	1,280.93	4	1,612.82	4	1,944.72	4	2,276.58	4	2,608.36	4	2,940.13
1/4	86.57	1/4	354.75	1/4	645.10	1/4	957.38	1/4	1,287.84	1/4	1,619.74	1/4	1,951.63	1/4	2,283.49	1/4	2,615.27	1/4	2,947.04
1/2	91.93	1/2	360.58	1/2	651.41	1/2	964.13	1/2	1,294.76	1/2	1,626.65	1/2	1,958.55	1/2	2,290.40	1/2	2,622.18	1/2	2,953.96
3/4	97.30	3/4	366.41	3/4	657.71	3/4	970.87	3/4	1,301.67	3/4	1,633.57	3/4	1,965.46	3/4	2,297.32	3/4	2,629.09	3/4	2,960.87
5	102.66	5	372.24	5	664.02	5	977.61	5	1,308.59	5	1,640.48	5	1,972.38	5	2,304.23	5	2,636.00	5	2,967.78
1/4	108.06	1/4	378.12	1/4	670.36	1/4	984.40	1/4	1,315.50	1/4	1,647.40	1/4	1,979.29	1/4	2,311.14	1/4	2,642.92	1/4	2,974.69
1/2	113.46	1/2	383.99	1/2	676.70	1/2	991.19	1/2	1,322.42	1/2	1,654.31	1/2	1,986.21	1/2	2,318.05	1/2	2,649.83	1/2	2,981.60
3/4	118.86	3/4	389.86	3/4	683.05	3/4	997.97	3/4	1,329.33	3/4	1,661.23	3/4	1,993.12	3/4	2,324.96	3/4	2,656.74	3/4	2,988.52
6	124.26	6	395.73	6	689.39	6	1,004.76	6	1,336.24	6	1,668.14	6	2,000.04	6	2,331.88	6	2,663.65	6	2,995.43
1/4	129.70	1/4	401.64	1/4	695.77	1/4	1,011.60	1/4	1,343.16	1/4	1,675.05	1/4	2,006.95	1/4	2,338.79	1/4	2,670.56	1/4	3,002.34
1/2	135.14	1/2	407.56	1/2	702.14	1/2	1,018.44	1/2	1,350.07	1/2	1,681.97	1/2	2,013.87	1/2	2,345.70	1/2	2,677.48	1/2	3,009.25
3/4	140.57	3/4	413.47	3/4	708.51	3/4	1,025.28	3/4	1,356.99	3/4	1,688.88	3/4	2,020.78	3/4	2,352.61	3/4	2,684.39	3/4	3,016.16
7	146.01	7	419.38	7	714.89	7	1,032.12	7	1,363.90	7	1,695.80	7	2,027.69	7	2,359.52	7	2,691.30	7	3,023.08
1/4	151.49	1/4	425.32	1/4	721.28	1/4	1,039.01	1/4	1,370.82	1/4	1,702.71	1/4	2,034.61	1/4	2,366.44	1/4	2,698.21	1/4	3,029.99
1/2	156.97	1/2	431.27	1/2	727.68	1/2	1,045.90	1/2	1,377.73	1/2	1,709.63	1/2	2,041.52	1/2	2,373.35	1/2	2,705.12	1/2	3,036.90
3/4	162.45	3/4	437.21	3/4	734.07	3/4	1,052.79	3/4	1,384.65	3/4	1,716.54	3/4	2,048.44	3/4	2,380.26	3/4	2,712.04	3/4	3,043.81
8	167.93	8	443.16	8	740.47	8	1,059.68	8	1,391.56	8	1,723.46	8	2,055.35	8	2,387.17	8	2,718.95	8	3,050.72
1/4	173.45	1/4	449.13	1/4	746.90	1/4	1,066.59	1/4	1,398.47	1/4	1,730.37	1/4	2,062.27	1/4	2,394.08	1/4	2,725.86	1/4	3,057.64
1/2	178.97	1/2	455.11	1/2	753.33	1/2	1,073.50	1/2	1,405.39	1/2	1,737.29	1/2	2,069.18	1/2	2,401.00	1/2	2,732.77	1/2	3,064.55
3/4	184.48	3/4	461.08	3/4	759.76	3/4	1,080.41	3/4	1,412.30	3/4	1,744.20	3/4	2,076.10	3/4	2,407.91	3/4	2,739.68	3/4	3,071.46
9	190.00	9	467.06	9	766.19	9	1,087.32	9	1,419.22	9	1,751.11	9	2,083.01	9	2,414.82	9	2,746.60	9	3,078.37
1/4	195.56	1/4	473.07	1/4	772.66	1/4	1,094.24	1/4	1,426.13	1/4	1,758.03	1/4	2,089.92	1/4	2,421.73	1/4	2,753.51	1/4	3,085.28
1/2	201.12	1/2	479.09	1/2	779.13	1/2	1,101.15	1/2	1,433.05	1/2	1,764.94	1/2	2,096.84	1/2	2,428.64	1/2	2,760.42	1/2	3,092.20
3/4	206.67	3/4	485.10	3/4	785.60	3/4	1,108.07	3/4	1,439.96	3/4	1,771.86	3/4	2,103.75	3/4	2,435.56	3/4	2,767.33	3/4	3,099.11
10	212.23	10	491.12	10	792.07	10	1,114.98	10	1,446.88	10	1,778.77	10	2,110.67	10	2,442.47	10	2,774.24	10	3,106.02
1/4	217.83	1/4	497.17	1/4	798.58	1/4	1,121.89	1/4	1,453.79	1/4	1,785.69	1/4	2,117.58	1/4	2,449.38	1/4	2,781.16	1/4	3,112.93
1/2	223.43	1/2	503.23	1/2	805.08	1/2	1,128.81	1/2	1,460.71	1/2	1,792.60	1/2	2,124.50	1/2	2,456.29	1/2	2,788.07	1/2	3,119.84
3/4	229.02	3/4	509.28	3/4	811.59	3/4	1,135.72	3/4	1,467.62	3/4	1,799.52	3/4	2,131.41	3/4	2,463.20	3/4	2,794.98	3/4	3,126.76
11	234.62	11	515.33	11	818.10	11	1,142.64	11	1,474.53	11	1,806.43	11	2,138.33	11	2,470.12	11	2,801.89	11	3,133.67
1/4	240.25	1/4	521.43	1/4	824.65	1/4	1,149.55	1/4	1,481.45	1/4	1,813.34	1/4	2,145.24	1/4	2,477.03	1/4	2,808.80	1/4	3,140.58
1/2	245.89	1/2	527.52	1/2	831.20	1/2	1,156.47	1/2	1,488.36	1/2	1,820.26	1/2	2,152.16	1/2	2,483.94	1/2	2,815.72	1/2	3,147.49
3/4	251.53	3/4	533.61	3/4	837.75	3/4	1,163.38	3/4	1,495.28	3/4	1,827.17	3/4	2,159.07	3/4	2,490.85	3/4	2,822.63	3/4	3,154.40

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 29146"

1 STBD INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	3,161.32	0	3,493.09	0	3,823.26	0	4,139.57	0	4,438.44	0		0		0		0		0	
1/4	3,168.23	1/4	3,500.00	1/4	3,830.01	1/4	4,145.95	1/4	4,444.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,175.14	1/2	3,506.92	1/2	3,836.76	1/2	4,152.33	1/2	4,450.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,182.05	3/4	3,513.83	3/4	3,843.51	3/4	4,158.71	3/4	4,456.58	3/4		3/4		3/4		3/4		3/4	
1	3,188.96	1	3,520.74	1	3,850.26	1	4,165.09	1	4,462.63	1		1		1		1		1	
1/4	3,195.88	1/4	3,527.65	1/4	3,856.98	1/4	4,171.44	1/4	4,468.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,202.79	1/2	3,534.56	1/2	3,863.70	1/2	4,177.79	1/2	4,474.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,209.70	3/4	3,541.48	3/4	3,870.42	3/4	4,184.14	3/4	4,480.68	3/4		3/4		3/4		3/4		3/4	
2	3,216.61	2	3,548.39	2	3,877.15	2	4,190.49	2	4,486.70	2		2		2		2		2	
1/4	3,223.52	1/4	3,555.30	1/4	3,883.84	1/4	4,196.81	1/4	4,493.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,230.44	1/2	3,562.21	1/2	3,890.53	1/2	4,203.13	1/2	4,499.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,237.35	3/4	3,569.12	3/4	3,897.23	3/4	4,209.46	3/4	4,505.69	3/4		3/4		3/4		3/4		3/4	
3	3,244.26	3	3,576.04	3	3,903.92	3	4,215.78	3	4,512.02	3		3		3		3		3	
1/4	3,251.17	1/4	3,582.95	1/4	3,910.59	1/4	4,222.08	1/4	4,518.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,258.08	1/2	3,589.86	1/2	3,917.26	1/2	4,228.37	1/2	4,525.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,265.00	3/4	3,596.77	3/4	3,923.92	3/4	4,234.67	3/4	4,531.88	3/4		3/4		3/4		3/4		3/4	
4	3,271.91	4	3,603.68	4	3,930.59	4	4,240.96	4	4,538.50	4		4		4		4		4	
1/4	3,278.82	1/4	3,610.60	1/4	3,937.23	1/4	4,247.23	1/4	4,544.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,285.73	1/2	3,617.51	1/2	3,943.87	1/2	4,253.50	1/2	4,550.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,292.64	3/4	3,624.42	3/4	3,950.51	3/4	4,259.77	3/4	4,555.81	3/4		3/4		3/4		3/4		3/4	
5	3,299.56	5	3,631.33	5	3,957.15	5	4,266.03	5	4,561.58	5		5		5		5		5	
1/4	3,306.47	1/4	3,638.24	1/4	3,963.76	1/4	4,272.27	1/4	4,566.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,313.38	1/2	3,645.16	1/2	3,970.37	1/2	4,278.51	1/2	4,570.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,320.29	3/4	3,652.07	3/4	3,976.98	3/4	4,284.76	3/4	4,575.43	3/4		3/4		3/4		3/4		3/4	
6	3,327.20	6	3,658.98	6	3,983.59	6	4,291.00	6	4,580.04	6		6		6		6		6	
1/4	3,334.12	1/4	3,665.89	1/4	3,990.18	1/4	4,297.21	1/4	4,583.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,341.03	1/2	3,672.79	1/2	3,996.76	1/2	4,303.42	1/2	4,586.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,347.94	3/4	3,679.70	3/4	4,003.35	3/4	4,309.63	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,354.85	7	3,686.61	7	4,009.93	7	4,315.85	7		7		7		7		7		7	
1/4	3,361.76	1/4	3,693.50	1/4	4,016.49	1/4	4,322.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,368.68	1/2	3,700.38	1/2	4,023.04	1/2	4,328.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,375.59	3/4	3,707.27	3/4	4,029.60	3/4	4,334.40	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,382.50	8	3,714.16	8	4,036.15	8	4,340.59	8		8		8		8		8		8	
1/4	3,389.41	1/4	3,721.02	1/4	4,042.68	1/4	4,346.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,396.32	1/2	3,727.88	1/2	4,049.21	1/2	4,352.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,403.24	3/4	3,734.74	3/4	4,055.74	3/4	4,359.06	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,410.15	9	3,741.60	9	4,062.27	9	4,365.21	9		9		9		9		9		9	
1/4	3,417.06	1/4	3,748.43	1/4	4,068.76	1/4	4,371.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,423.97	1/2	3,755.26	1/2	4,075.24	1/2	4,377.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,430.88	3/4	3,762.10	3/4	4,081.73	3/4	4,383.60	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,437.80	10	3,768.93	10	4,088.21	10	4,389.73	10		10		10		10		10		10	
1/4	3,444.71	1/4	3,775.73	1/4	4,094.65	1/4	4,395.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,451.62	1/2	3,782.54	1/2	4,101.08	1/2	4,401.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,458.53	3/4	3,789.34	3/4	4,107.51	3/4	4,408.04	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,465.44	11	3,796.15	11	4,113.95	11	4,414.14	11		11		11		11		11		11	
1/4	3,472.36	1/4	3,802.93	1/4	4,120.35	1/4	4,420.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,479.27	1/2	3,809.70	1/2	4,126.76	1/2	4,426.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,486.18	3/4	3,816.48	3/4	4,133.17	3/4	4,432.37	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023

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 29146"

2 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	11.91	0	385.20	0	773.75	0	1,162.36	0	1,551.19	0	1,940.01	0	2,328.83	0	2,717.66	0	3,106.34	0	3,495.02
1/4	16.97	1/4	393.30	1/4	781.84	1/4	1,170.46	1/4	1,559.29	1/4	1,948.11	1/4	2,336.93	1/4	2,725.76	1/4	3,114.44	1/4	3,503.12
1/2	22.04	1/2	401.40	1/2	789.92	1/2	1,178.56	1/2	1,567.39	1/2	1,956.21	1/2	2,345.03	1/2	2,733.85	1/2	3,122.53	1/2	3,511.21
3/4	27.10	3/4	409.50	3/4	798.01	3/4	1,186.66	3/4	1,575.49	3/4	1,964.31	3/4	2,353.14	3/4	2,741.95	3/4	3,130.63	3/4	3,519.31
1	32.16	1	417.60	1	806.10	1	1,194.76	1	1,583.59	1	1,972.41	1	2,361.24	1	2,750.05	1	3,138.73	1	3,527.41
1/4	39.42	1/4	425.70	1/4	814.18	1/4	1,202.86	1/4	1,591.69	1/4	1,980.51	1/4	2,369.34	1/4	2,758.15	1/4	3,146.83	1/4	3,535.51
1/2	46.67	1/2	433.80	1/2	822.27	1/2	1,210.96	1/2	1,599.79	1/2	1,988.61	1/2	2,377.44	1/2	2,766.24	1/2	3,154.92	1/2	3,543.60
3/4	53.93	3/4	441.90	3/4	830.35	3/4	1,219.07	3/4	1,607.89	3/4	1,996.71	3/4	2,385.54	3/4	2,774.34	3/4	3,163.02	3/4	3,551.70
2	61.19	2	450.00	2	838.44	2	1,227.17	2	1,615.99	2	2,004.81	2	2,393.64	2	2,782.44	2	3,171.12	2	3,559.80
1/4	69.29	1/4	458.10	1/4	846.52	1/4	1,235.27	1/4	1,624.09	1/4	2,012.91	1/4	2,401.74	1/4	2,790.54	1/4	3,179.22	1/4	3,567.90
1/2	77.39	1/2	466.20	1/2	854.61	1/2	1,243.37	1/2	1,632.19	1/2	2,021.01	1/2	2,409.84	1/2	2,798.63	1/2	3,187.31	1/2	3,575.99
3/4	85.49	3/4	474.30	3/4	862.69	3/4	1,251.47	3/4	1,640.29	3/4	2,029.12	3/4	2,417.94	3/4	2,806.73	3/4	3,195.41	3/4	3,584.09
3	93.59	3	482.40	3	870.78	3	1,259.57	3	1,648.39	3	2,037.22	3	2,426.04	3	2,814.83	3	3,203.51	3	3,592.19
1/4	101.69	1/4	490.50	1/4	878.87	1/4	1,267.67	1/4	1,656.49	1/4	2,045.32	1/4	2,434.14	1/4	2,822.93	1/4	3,211.61	1/4	3,600.29
1/2	109.79	1/2	498.60	1/2	886.96	1/2	1,275.77	1/2	1,664.59	1/2	2,053.42	1/2	2,442.24	1/2	2,831.02	1/2	3,219.70	1/2	3,608.38
3/4	117.89	3/4	506.70	3/4	895.05	3/4	1,283.87	3/4	1,672.69	3/4	2,061.52	3/4	2,450.34	3/4	2,839.12	3/4	3,227.80	3/4	3,616.48
4	125.99	4	514.80	4	903.15	4	1,291.97	4	1,680.79	4	2,069.62	4	2,458.44	4	2,847.22	4	3,235.90	4	3,624.58
1/4	134.09	1/4	522.90	1/4	911.25	1/4	1,300.07	1/4	1,688.89	1/4	2,077.72	1/4	2,466.54	1/4	2,855.32	1/4	3,244.00	1/4	3,632.68
1/2	142.19	1/2	531.00	1/2	919.35	1/2	1,308.17	1/2	1,696.99	1/2	2,085.82	1/2	2,474.64	1/2	2,863.41	1/2	3,252.09	1/2	3,640.77
3/4	150.29	3/4	539.10	3/4	927.45	3/4	1,316.27	3/4	1,705.10	3/4	2,093.92	3/4	2,482.74	3/4	2,871.51	3/4	3,260.19	3/4	3,648.87
5	158.39	5	547.20	5	935.55	5	1,324.37	5	1,713.20	5	2,102.02	5	2,490.84	5	2,879.61	5	3,268.29	5	3,656.97
1/4	166.49	1/4	555.31	1/4	943.65	1/4	1,332.47	1/4	1,721.30	1/4	2,110.12	1/4	2,498.94	1/4	2,887.71	1/4	3,276.39	1/4	3,665.07
1/2	174.59	1/2	563.41	1/2	951.75	1/2	1,340.57	1/2	1,729.40	1/2	2,118.22	1/2	2,507.04	1/2	2,895.80	1/2	3,284.48	1/2	3,673.16
3/4	182.69	3/4	571.51	3/4	959.85	3/4	1,348.67	3/4	1,737.50	3/4	2,126.32	3/4	2,515.15	3/4	2,903.90	3/4	3,292.58	3/4	3,681.26
6	190.79	6	579.61	6	967.95	6	1,356.77	6	1,745.60	6	2,134.42	6	2,523.25	6	2,912.00	6	3,300.68	6	3,689.36
1/4	198.89	1/4	587.71	1/4	976.05	1/4	1,364.87	1/4	1,753.70	1/4	2,142.52	1/4	2,531.35	1/4	2,920.10	1/4	3,308.78	1/4	3,697.46
1/2	206.99	1/2	595.81	1/2	984.15	1/2	1,372.97	1/2	1,761.80	1/2	2,150.62	1/2	2,539.45	1/2	2,928.19	1/2	3,316.87	1/2	3,705.55
3/4	215.09	3/4	603.91	3/4	992.25	3/4	1,381.08	3/4	1,769.90	3/4	2,158.72	3/4	2,547.55	3/4	2,936.29	3/4	3,324.97	3/4	3,713.65
7	223.19	7	612.01	7	1,000.35	7	1,389.18	7	1,778.00	7	2,166.82	7	2,555.65	7	2,944.39	7	3,333.07	7	3,721.75
1/4	231.29	1/4	620.10	1/4	1,008.45	1/4	1,397.28	1/4	1,786.10	1/4	2,174.92	1/4	2,563.75	1/4	2,952.49	1/4	3,341.17	1/4	3,729.85
1/2	239.39	1/2	628.20	1/2	1,016.55	1/2	1,405.38	1/2	1,794.20	1/2	2,183.02	1/2	2,571.85	1/2	2,960.58	1/2	3,349.26	1/2	3,737.94
3/4	247.49	3/4	636.29	3/4	1,024.65	3/4	1,413.48	3/4	1,802.30	3/4	2,191.13	3/4	2,579.95	3/4	2,968.68	3/4	3,357.36	3/4	3,746.04
8	255.59	8	644.39	8	1,032.75	8	1,421.58	8	1,810.40	8	2,199.23	8	2,588.05	8	2,976.78	8	3,365.46	8	3,754.14
1/4	263.69	1/4	652.47	1/4	1,040.85	1/4	1,429.68	1/4	1,818.50	1/4	2,207.33	1/4	2,596.15	1/4	2,984.88	1/4	3,373.56	1/4	3,762.24
1/2	271.79	1/2	660.56	1/2	1,048.95	1/2	1,437.78	1/2	1,826.60	1/2	2,215.43	1/2	2,604.25	1/2	2,992.97	1/2	3,381.65	1/2	3,770.33
3/4	279.89	3/4	668.64	3/4	1,057.06	3/4	1,445.88	3/4	1,834.70	3/4	2,223.53	3/4	2,612.35	3/4	3,001.07	3/4	3,389.75	3/4	3,778.43
9	288.00	9	676.73	9	1,065.16	9	1,453.98	9	1,842.80	9	2,231.63	9	2,620.45	9	3,009.17	9	3,397.85	9	3,786.53
1/4	296.10	1/4	684.81	1/4	1,073.26	1/4	1,462.08	1/4	1,850.90	1/4	2,239.73	1/4	2,628.55	1/4	3,017.27	1/4	3,405.95	1/4	3,794.63
1/2	304.20	1/2	692.90	1/2	1,081.36	1/2	1,470.18	1/2	1,859.00	1/2	2,247.83	1/2	2,636.65	1/2	3,025.36	1/2	3,414.04	1/2	3,802.72
3/4	312.30	3/4	700.98	3/4	1,089.46	3/4	1,478.28	3/4	1,867.11	3/4	2,255.93	3/4	2,644.75	3/4	3,033.46	3/4	3,422.14	3/4	3,810.82
10	320.40	10	709.07	10	1,097.56	10	1,486.38	10	1,875.21	10	2,264.03	10	2,652.85	10	3,041.56	10	3,430.24	10	3,818.92
1/4	328.50	1/4	717.16	1/4	1,105.66	1/4	1,494.48	1/4	1,883.31	1/4	2,272.13	1/4	2,660.95	1/4	3,049.66	1/4	3,438.34	1/4	3,827.02
1/2	336.60	1/2	725.24	1/2	1,113.76	1/2	1,502.58	1/2	1,891.41	1/2	2,280.23	1/2	2,669.05	1/2	3,057.75	1/2	3,446.43	1/2	3,835.11
3/4	344.70	3/4	733.33	3/4	1,121.86	3/4	1,510.68	3/4	1,899.51	3/4	2,288.33	3/4	2,677.16	3/4	3,065.85	3/4	3,454.53	3/4	3,843.21
11	352.80	11	741.41	11	1,129.96	11	1,518.78	11	1,907.61	11	2,296.43	11	2,685.26	11	3,073.95	11	3,462.63	11	3,851.31
1/4	360.90	1/4	749.50	1/4	1,138.06	1/4	1,526.88	1/4	1,915.71	1/4	2,304.53	1/4	2,693.36	1/4	3,082.05	1/4	3,470.73	1/4	3,859.41
1/2	369.00	1/2	757.58	1/2	1,146.16	1/2	1,534.98	1/2	1,923.81	1/2	2,312.63	1/2	2,701.46	1/2	3,090.14	1/2	3,478.82	1/2	3,867.50
3/4	377.10	3/4	765.67	3/4	1,154.26	3/4	1,543.09	3/4	1,931.91	3/4	2,320.73	3/4	2,709.56	3/4	3,098.24	3/4	3,486.92	3/4	3,875.60

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 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 29146"

2 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	3,883.70	0	4,272.38	0	4,659.17	0	5,029.74	0	5,379.86	0		0		0		0		0	
1/4	3,891.80	1/4	4,280.48	1/4	4,667.08	1/4	5,037.21	1/4	5,386.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,899.89	1/2	4,288.57	1/2	4,674.99	1/2	5,044.69	1/2	5,394.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,907.99	3/4	4,296.67	3/4	4,682.90	3/4	5,052.16	3/4	5,401.12	3/4		3/4		3/4		3/4		3/4	
1	3,916.09	1	4,304.77	1	4,690.80	1	5,059.63	1	5,408.20	1		1		1		1		1	
1/4	3,924.19	1/4	4,312.87	1/4	4,698.68	1/4	5,067.07	1/4	5,415.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,932.28	1/2	4,320.96	1/2	4,706.55	1/2	5,074.51	1/2	5,422.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,940.38	3/4	4,329.06	3/4	4,714.43	3/4	5,081.95	3/4	5,429.36	3/4		3/4		3/4		3/4		3/4	
2	3,948.48	2	4,337.16	2	4,722.30	2	5,089.39	2	5,436.41	2		2		2		2		2	
1/4	3,956.58	1/4	4,345.26	1/4	4,730.15	1/4	5,096.80	1/4	5,443.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,964.67	1/2	4,353.35	1/2	4,737.99	1/2	5,104.21	1/2	5,451.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,972.77	3/4	4,361.45	3/4	4,745.83	3/4	5,111.61	3/4	5,458.65	3/4		3/4		3/4		3/4		3/4	
3	3,980.87	3	4,369.55	3	4,753.68	3	5,119.02	3	5,466.06	3		3		3		3		3	
1/4	3,988.97	1/4	4,377.65	1/4	4,761.49	1/4	5,126.40	1/4	5,473.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,997.06	1/2	4,385.74	1/2	4,769.30	1/2	5,133.77	1/2	5,481.57	1/2		1/2		1/2		1/2		1/2	
3/4	4,005.16	3/4	4,393.84	3/4	4,777.11	3/4	5,141.15	3/4	5,489.33	3/4		3/4		3/4		3/4		3/4	
4	4,013.26	4	4,401.94	4	4,784.92	4	5,148.52	4	5,497.08	4		4		4		4		4	
1/4	4,021.36	1/4	4,410.04	1/4	4,792.69	1/4	5,155.86	1/4	5,503.84	1/4		1/4		1/4		1/4		1/4	
1/2	4,029.45	1/2	4,418.13	1/2	4,800.47	1/2	5,163.21	1/2	5,510.60	1/2		1/2		1/2		1/2		1/2	
3/4	4,037.55	3/4	4,426.23	3/4	4,808.25	3/4	5,170.55	3/4	5,517.36	3/4		3/4		3/4		3/4		3/4	
5	4,045.65	5	4,434.33	5	4,816.03	5	5,177.89	5	5,524.12	5		5		5		5		5	
1/4	4,053.75	1/4	4,442.43	1/4	4,823.77	1/4	5,185.20	1/4	5,529.52	1/4		1/4		1/4		1/4		1/4	
1/2	4,061.84	1/2	4,450.52	1/2	4,831.52	1/2	5,192.51	1/2	5,534.93	1/2		1/2		1/2		1/2		1/2	
3/4	4,069.94	3/4	4,458.62	3/4	4,839.27	3/4	5,199.82	3/4	5,540.34	3/4		3/4		3/4		3/4		3/4	
6	4,078.04	6	4,466.72	6	4,847.01	6	5,207.13	6	5,545.75	6		6		6		6		6	
1/4	4,086.14	1/4	4,474.81	1/4	4,854.72	1/4	5,214.41	1/4	5,549.81	1/4		1/4		1/4		1/4		1/4	
1/2	4,094.23	1/2	4,482.90	1/2	4,862.44	1/2	5,221.69	1/2	5,553.87	1/2		1/2		1/2		1/2		1/2	
3/4	4,102.33	3/4	4,490.99	3/4	4,870.15	3/4	5,228.97	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,110.43	7	4,499.08	7	4,877.86	7	5,236.25	7		7		7		7		7		7	
1/4	4,118.53	1/4	4,507.15	1/4	4,885.55	1/4	5,243.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,126.62	1/2	4,515.22	1/2	4,893.23	1/2	5,250.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,134.72	3/4	4,523.29	3/4	4,900.91	3/4	5,257.98	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,142.82	8	4,531.36	8	4,908.59	8	5,265.23	8		8		8		8		8		8	
1/4	4,150.92	1/4	4,539.40	1/4	4,916.24	1/4	5,272.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,159.01	1/2	4,547.43	1/2	4,923.89	1/2	5,279.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,167.11	3/4	4,555.47	3/4	4,931.53	3/4	5,286.87	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,175.21	9	4,563.51	9	4,939.18	9	5,294.08	9		9		9		9		9		9	
1/4	4,183.31	1/4	4,571.51	1/4	4,946.78	1/4	5,301.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,191.40	1/2	4,579.52	1/2	4,954.38	1/2	5,308.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,199.50	3/4	4,587.52	3/4	4,961.98	3/4	5,315.62	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,207.60	10	4,595.53	10	4,969.58	10	5,322.81	10		10		10		10		10		10	
1/4	4,215.70	1/4	4,603.50	1/4	4,977.11	1/4	5,329.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,223.79	1/2	4,611.47	1/2	4,984.65	1/2	5,337.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,231.89	3/4	4,619.44	3/4	4,992.19	3/4	5,344.25	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,239.99	11	4,627.41	11	4,999.72	11	5,351.40	11		11		11		11		11		11	
1/4	4,248.09	1/4	4,635.35	1/4	5,007.23	1/4	5,358.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,256.18	1/2	4,643.29	1/2	5,014.73	1/2	5,365.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,264.28	3/4	4,651.23	3/4	5,022.24	3/4	5,372.75	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

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





BARGE "CTC 29146"

2 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	11.89	0	384.39	0	772.12	0	1,153.20	0	1,532.93	0	1,920.94	0	2,308.94	0	2,696.94	0	3,084.80	0	3,472.66
1/4	16.94	1/4	392.47	1/4	780.19	1/4	1,160.97	1/4	1,541.02	1/4	1,929.02	1/4	2,317.02	1/4	2,705.02	1/4	3,092.88	1/4	3,480.74
1/2	21.99	1/2	400.55	1/2	788.26	1/2	1,168.74	1/2	1,549.10	1/2	1,937.10	1/2	2,325.11	1/2	2,713.10	1/2	3,100.96	1/2	3,488.82
3/4	27.04	3/4	408.64	3/4	796.33	3/4	1,176.51	3/4	1,557.18	3/4	1,945.19	3/4	2,333.19	3/4	2,721.18	3/4	3,109.04	3/4	3,496.90
1	32.09	1	416.72	1	804.39	1	1,184.28	1	1,565.27	1	1,953.27	1	2,341.27	1	2,729.27	1	3,117.12	1	3,504.98
1/4	39.33	1/4	424.80	1/4	812.46	1/4	1,192.05	1/4	1,573.35	1/4	1,961.35	1/4	2,349.36	1/4	2,737.35	1/4	3,125.20	1/4	3,513.06
1/2	46.58	1/2	432.89	1/2	820.53	1/2	1,199.82	1/2	1,581.43	1/2	1,969.44	1/2	2,357.44	1/2	2,745.43	1/2	3,133.29	1/2	3,521.14
3/4	53.82	3/4	440.97	3/4	828.60	3/4	1,207.59	3/4	1,589.52	3/4	1,977.52	3/4	2,365.52	3/4	2,753.51	3/4	3,141.37	3/4	3,529.22
2	61.06	2	449.05	2	836.67	2	1,215.36	2	1,597.60	2	1,985.60	2	2,373.61	2	2,761.59	2	3,149.45	2	3,537.31
1/4	69.14	1/4	457.14	1/4	844.74	1/4	1,223.13	1/4	1,605.69	1/4	1,993.69	1/4	2,381.69	1/4	2,769.67	1/4	3,157.53	1/4	3,545.39
1/2	77.22	1/2	465.22	1/2	852.81	1/2	1,230.90	1/2	1,613.77	1/2	2,001.77	1/2	2,389.77	1/2	2,777.75	1/2	3,165.61	1/2	3,553.47
3/4	85.31	3/4	473.30	3/4	860.87	3/4	1,238.68	3/4	1,621.85	3/4	2,009.86	3/4	2,397.86	3/4	2,785.83	3/4	3,173.69	3/4	3,561.55
3	93.39	3	481.38	3	868.94	3	1,246.45	3	1,629.94	3	2,017.94	3	2,405.94	3	2,793.91	3	3,181.77	3	3,569.63
1/4	101.47	1/4	489.47	1/4	877.02	1/4	1,254.22	1/4	1,638.02	1/4	2,026.02	1/4	2,414.03	1/4	2,801.99	1/4	3,189.85	1/4	3,577.71
1/2	109.56	1/2	497.55	1/2	885.09	1/2	1,261.99	1/2	1,646.10	1/2	2,034.11	1/2	2,422.11	1/2	2,810.07	1/2	3,197.93	1/2	3,585.79
3/4	117.64	3/4	505.63	3/4	893.16	3/4	1,269.76	3/4	1,654.19	3/4	2,042.19	3/4	2,430.19	3/4	2,818.15	3/4	3,206.01	3/4	3,593.87
4	125.72	4	513.72	4	901.24	4	1,277.53	4	1,662.27	4	2,050.27	4	2,438.28	4	2,826.23	4	3,214.09	4	3,601.95
1/4	133.81	1/4	521.80	1/4	909.32	1/4	1,285.30	1/4	1,670.35	1/4	2,058.36	1/4	2,446.36	1/4	2,834.31	1/4	3,222.17	1/4	3,610.03
1/2	141.89	1/2	529.88	1/2	917.41	1/2	1,293.07	1/2	1,678.44	1/2	2,066.44	1/2	2,454.44	1/2	2,842.39	1/2	3,230.25	1/2	3,618.11
3/4	149.97	3/4	537.97	3/4	925.49	3/4	1,300.84	3/4	1,686.52	3/4	2,074.52	3/4	2,462.53	3/4	2,850.47	3/4	3,238.33	3/4	3,626.19
5	158.06	5	546.05	5	933.57	5	1,308.61	5	1,694.60	5	2,082.61	5	2,470.61	5	2,858.55	5	3,246.41	5	3,634.27
1/4	166.14	1/4	554.13	1/4	941.66	1/4	1,316.38	1/4	1,702.69	1/4	2,090.69	1/4	2,478.69	1/4	2,866.63	1/4	3,254.49	1/4	3,642.35
1/2	174.22	1/2	562.22	1/2	949.74	1/2	1,324.15	1/2	1,710.77	1/2	2,098.77	1/2	2,486.78	1/2	2,874.71	1/2	3,262.57	1/2	3,650.43
3/4	182.31	3/4	570.30	3/4	957.82	3/4	1,331.92	3/4	1,718.85	3/4	2,106.86	3/4	2,494.86	3/4	2,882.79	3/4	3,270.65	3/4	3,658.51
6	190.39	6	578.38	6	965.91	6	1,339.70	6	1,726.94	6	2,114.94	6	2,502.94	6	2,890.87	6	3,278.73	6	3,666.59
1/4	198.47	1/4	586.47	1/4	973.87	1/4	1,347.59	1/4	1,735.02	1/4	2,123.02	1/4	2,511.03	1/4	2,898.95	1/4	3,286.81	1/4	3,674.67
1/2	206.56	1/2	594.55	1/2	981.84	1/2	1,355.48	1/2	1,743.10	1/2	2,131.11	1/2	2,519.11	1/2	2,907.03	1/2	3,294.89	1/2	3,682.75
3/4	214.64	3/4	602.63	3/4	989.81	3/4	1,363.37	3/4	1,751.19	3/4	2,139.19	3/4	2,527.19	3/4	2,915.11	3/4	3,302.97	3/4	3,690.83
7	222.72	7	610.72	7	997.78	7	1,371.27	7	1,759.27	7	2,147.27	7	2,535.28	7	2,923.19	7	3,311.05	7	3,698.91
1/4	230.81	1/4	618.79	1/4	1,005.56	1/4	1,379.35	1/4	1,767.35	1/4	2,155.36	1/4	2,543.36	1/4	2,931.28	1/4	3,319.13	1/4	3,706.99
1/2	238.89	1/2	626.87	1/2	1,013.33	1/2	1,387.43	1/2	1,775.44	1/2	2,163.44	1/2	2,551.44	1/2	2,939.36	1/2	3,327.21	1/2	3,715.07
3/4	246.97	3/4	634.95	3/4	1,021.10	3/4	1,395.52	3/4	1,783.52	3/4	2,171.52	3/4	2,559.53	3/4	2,947.44	3/4	3,335.30	3/4	3,723.15
8	255.06	8	643.03	8	1,028.88	8	1,403.60	8	1,791.60	8	2,179.61	8	2,567.61	8	2,955.52	8	3,343.38	8	3,731.23
1/4	263.14	1/4	651.10	1/4	1,036.65	1/4	1,411.68	1/4	1,799.69	1/4	2,187.69	1/4	2,575.69	1/4	2,963.60	1/4	3,351.46	1/4	3,739.32
1/2	271.22	1/2	659.16	1/2	1,044.42	1/2	1,419.77	1/2	1,807.77	1/2	2,195.77	1/2	2,583.78	1/2	2,971.68	1/2	3,359.54	1/2	3,747.40
3/4	279.30	3/4	667.23	3/4	1,052.19	3/4	1,427.85	3/4	1,815.85	3/4	2,203.86	3/4	2,591.86	3/4	2,979.76	3/4	3,367.62	3/4	3,755.48
9	287.39	9	675.30	9	1,059.96	9	1,435.93	9	1,823.94	9	2,211.94	9	2,599.94	9	2,987.84	9	3,375.70	9	3,763.56
1/4	295.47	1/4	683.37	1/4	1,067.73	1/4	1,444.02	1/4	1,832.02	1/4	2,220.02	1/4	2,608.03	1/4	2,995.92	1/4	3,383.78	1/4	3,771.64
1/2	303.55	1/2	691.44	1/2	1,075.50	1/2	1,452.10	1/2	1,840.10	1/2	2,228.11	1/2	2,616.11	1/2	3,004.00	1/2	3,391.86	1/2	3,779.72
3/4	311.64	3/4	699.51	3/4	1,083.27	3/4	1,460.18	3/4	1,848.19	3/4	2,236.19	3/4	2,624.19	3/4	3,012.08	3/4	3,399.94	3/4	3,787.80
10	319.72	10	707.57	10	1,091.04	10	1,468.27	10	1,856.27	10	2,244.27	10	2,632.28	10	3,020.16	10	3,408.02	10	3,795.88
1/4	327.80	1/4	715.64	1/4	1,098.81	1/4	1,476.35	1/4	1,864.35	1/4	2,252.36	1/4	2,640.36	1/4	3,028.24	1/4	3,416.10	1/4	3,803.96
1/2	335.89	1/2	723.71	1/2	1,106.58	1/2	1,484.43	1/2	1,872.44	1/2	2,260.44	1/2	2,648.44	1/2	3,036.32	1/2	3,424.18	1/2	3,812.04
3/4	343.97	3/4	731.78	3/4	1,114.35	3/4	1,492.52	3/4	1,880.52	3/4	2,268.52	3/4	2,656.53	3/4	3,044.40	3/4	3,432.26	3/4	3,820.12
11	352.05	11	739.85	11	1,122.12	11	1,500.60	11	1,888.60	11	2,276.61	11	2,664.61	11	3,052.48	11	3,440.34	11	3,828.20
1/4	360.14	1/4	747.92	1/4	1,129.89	1/4	1,508.68	1/4	1,896.69	1/4	2,284.69	1/4	2,672.69	1/4	3,060.56	1/4	3,448.42	1/4	3,836.28
1/2	368.22	1/2	755.98	1/2	1,137.66	1/2	1,516.77	1/2	1,904.77	1/2	2,292.77	1/2	2,680.78	1/2	3,068.64	1/2	3,456.50	1/2	3,844.36
3/4	376.30	3/4	764.05	3/4	1,145.43	3/4	1,524.85	3/4	1,912.85	3/4	2,300.86	3/4	2,688.86	3/4	3,076.72	3/4	3,464.58	3/4	3,852.44

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 29146"

**2 STBD
INNAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-06"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	3,860.52	0	4,248.38	0	4,634.36	0	5,004.10	0	5,353.40	0		0		0		0		0	
1/4	3,868.60	1/4	4,256.46	1/4	4,642.25	1/4	5,011.56	1/4	5,360.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,876.68	1/2	4,264.54	1/2	4,650.14	1/2	5,019.01	1/2	5,367.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,884.76	3/4	4,272.62	3/4	4,658.03	3/4	5,026.47	3/4	5,374.60	3/4		3/4		3/4		3/4		3/4	
1	3,892.84	1	4,280.70	1	4,665.92	1	5,033.92	1	5,381.67	1		1		1		1		1	
1/4	3,900.92	1/4	4,288.78	1/4	4,673.77	1/4	5,041.35	1/4	5,388.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,909.00	1/2	4,296.86	1/2	4,681.63	1/2	5,048.77	1/2	5,395.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,917.08	3/4	4,304.94	3/4	4,689.49	3/4	5,056.19	3/4	5,402.78	3/4		3/4		3/4		3/4		3/4	
2	3,925.16	2	4,313.02	2	4,697.35	2	5,063.61	2	5,409.81	2		2		2		2		2	
1/4	3,933.24	1/4	4,321.10	1/4	4,705.17	1/4	5,071.00	1/4	5,417.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,941.33	1/2	4,329.18	1/2	4,713.00	1/2	5,078.39	1/2	5,424.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,949.41	3/4	4,337.26	3/4	4,720.83	3/4	5,085.78	3/4	5,432.00	3/4		3/4		3/4		3/4		3/4	
3	3,957.49	3	4,345.35	3	4,728.65	3	5,093.18	3	5,439.40	3		3		3		3		3	
1/4	3,965.57	1/4	4,353.43	1/4	4,736.44	1/4	5,100.53	1/4	5,447.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,973.65	1/2	4,361.51	1/2	4,744.24	1/2	5,107.89	1/2	5,454.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,981.73	3/4	4,369.59	3/4	4,752.03	3/4	5,115.25	3/4	5,462.61	3/4		3/4		3/4		3/4		3/4	
4	3,989.81	4	4,377.67	4	4,759.82	4	5,122.61	4	5,470.35	4		4		4		4		4	
1/4	3,997.89	1/4	4,385.75	1/4	4,767.58	1/4	5,129.93	1/4	5,477.09	1/4		1/4		1/4		1/4		1/4	
1/2	4,005.97	1/2	4,393.83	1/2	4,775.35	1/2	5,137.26	1/2	5,483.84	1/2		1/2		1/2		1/2		1/2	
3/4	4,014.05	3/4	4,401.91	3/4	4,783.11	3/4	5,144.58	3/4	5,490.58	3/4		3/4		3/4		3/4		3/4	
5	4,022.13	5	4,409.99	5	4,790.87	5	5,151.91	5	5,497.32	5		5		5		5		5	
1/4	4,030.21	1/4	4,418.07	1/4	4,798.60	1/4	5,159.20	1/4	5,502.72	1/4		1/4		1/4		1/4		1/4	
1/2	4,038.29	1/2	4,426.15	1/2	4,806.32	1/2	5,166.50	1/2	5,508.12	1/2		1/2		1/2		1/2		1/2	
3/4	4,046.37	3/4	4,434.23	3/4	4,814.05	3/4	5,173.79	3/4	5,513.51	3/4		3/4		3/4		3/4		3/4	
6	4,054.45	6	4,442.31	6	4,821.78	6	5,181.08	6	5,518.91	6		6		6		6		6	
1/4	4,062.53	1/4	4,450.38	1/4	4,829.48	1/4	5,188.34	1/4	5,522.96	1/4		1/4		1/4		1/4		1/4	
1/2	4,070.61	1/2	4,458.46	1/2	4,837.17	1/2	5,195.60	1/2	5,527.01	1/2		1/2		1/2		1/2		1/2	
3/4	4,078.69	3/4	4,466.53	3/4	4,844.87	3/4	5,202.87	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,086.77	7	4,474.61	7	4,852.57	7	5,210.13	7		7		7		7		7		7	
1/4	4,094.85	1/4	4,482.66	1/4	4,860.23	1/4	5,217.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,102.93	1/2	4,490.71	1/2	4,867.89	1/2	5,224.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,111.01	3/4	4,498.76	3/4	4,875.56	3/4	5,231.81	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,119.09	8	4,506.82	8	4,883.22	8	5,239.04	8		8		8		8		8		8	
1/4	4,127.17	1/4	4,514.84	1/4	4,890.85	1/4	5,246.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,135.25	1/2	4,522.86	1/2	4,898.49	1/2	5,253.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,143.34	3/4	4,530.87	3/4	4,906.12	3/4	5,260.63	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,151.42	9	4,538.89	9	4,913.75	9	5,267.83	9		9		9		9		9		9	
1/4	4,159.50	1/4	4,546.88	1/4	4,921.33	1/4	5,274.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,167.58	1/2	4,554.87	1/2	4,928.91	1/2	5,282.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,175.66	3/4	4,562.86	3/4	4,936.49	3/4	5,289.32	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,183.74	10	4,570.84	10	4,944.07	10	5,296.48	10		10		10		10		10		10	
1/4	4,191.82	1/4	4,578.80	1/4	4,951.59	1/4	5,303.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,199.90	1/2	4,586.75	1/2	4,959.11	1/2	5,310.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,207.98	3/4	4,594.71	3/4	4,966.63	3/4	5,317.88	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,216.06	11	4,602.66	11	4,974.15	11	5,325.01	11		11		11		11		11		11	
1/4	4,224.14	1/4	4,610.59	1/4	4,981.64	1/4	5,332.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,232.22	1/2	4,618.51	1/2	4,989.13	1/2	5,339.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,240.30	3/4	4,626.43	3/4	4,996.62	3/4	5,346.31	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

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





BARGE "CTC 29146"

3 PORT INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	11.12	0	358.61	0	720.29	0	1,080.99	0	1,442.87	0	1,804.75	0	2,166.63	0	2,528.45	0	2,889.88	0	3,251.32
1/4	15.83	1/4	366.15	1/4	727.82	1/4	1,088.53	1/4	1,450.41	1/4	1,812.29	1/4	2,174.17	1/4	2,535.98	1/4	2,897.41	1/4	3,258.85
1/2	20.54	1/2	373.69	1/2	735.34	1/2	1,096.07	1/2	1,457.95	1/2	1,819.83	1/2	2,181.71	1/2	2,543.51	1/2	2,904.94	1/2	3,266.38
3/4	25.26	3/4	381.23	3/4	742.87	3/4	1,103.60	3/4	1,465.49	3/4	1,827.37	3/4	2,189.25	3/4	2,551.04	3/4	2,912.47	3/4	3,273.91
1	29.97	1	388.77	1	750.40	1	1,111.14	1	1,473.03	1	1,834.91	1	2,196.79	1	2,558.57	1	2,920.00	1	3,281.44
1/4	36.72	1/4	396.31	1/4	757.91	1/4	1,118.68	1/4	1,480.56	1/4	1,842.45	1/4	2,204.33	1/4	2,566.10	1/4	2,927.53	1/4	3,288.97
1/2	43.48	1/2	403.85	1/2	765.42	1/2	1,126.22	1/2	1,488.10	1/2	1,849.99	1/2	2,211.87	1/2	2,573.63	1/2	2,935.06	1/2	3,296.50
3/4	50.23	3/4	411.39	3/4	772.94	3/4	1,133.76	3/4	1,495.64	3/4	1,857.52	3/4	2,219.41	3/4	2,581.16	3/4	2,942.59	3/4	3,304.03
2	56.99	2	418.93	2	780.45	2	1,141.30	2	1,503.18	2	1,865.06	2	2,226.95	2	2,588.69	2	2,950.12	2	3,311.56
1/4	64.53	1/4	426.47	1/4	787.94	1/4	1,148.84	1/4	1,510.72	1/4	1,872.60	1/4	2,234.48	1/4	2,596.22	1/4	2,957.65	1/4	3,319.09
1/2	72.07	1/2	434.01	1/2	795.44	1/2	1,156.38	1/2	1,518.26	1/2	1,880.14	1/2	2,242.02	1/2	2,603.75	1/2	2,965.18	1/2	3,326.62
3/4	79.61	3/4	441.55	3/4	802.93	3/4	1,163.92	3/4	1,525.80	3/4	1,887.68	3/4	2,249.56	3/4	2,611.28	3/4	2,972.71	3/4	3,334.15
3	87.15	3	449.09	3	810.43	3	1,171.46	3	1,533.34	3	1,895.22	3	2,257.10	3	2,618.81	3	2,980.24	3	3,341.68
1/4	94.69	1/4	456.63	1/4	817.92	1/4	1,179.00	1/4	1,540.88	1/4	1,902.76	1/4	2,264.64	1/4	2,626.34	1/4	2,987.77	1/4	3,349.21
1/2	102.23	1/2	464.18	1/2	825.42	1/2	1,186.54	1/2	1,548.42	1/2	1,910.30	1/2	2,272.18	1/2	2,633.87	1/2	2,995.30	1/2	3,356.74
3/4	109.77	3/4	471.72	3/4	832.92	3/4	1,194.07	3/4	1,555.96	3/4	1,917.84	3/4	2,279.72	3/4	2,641.40	3/4	3,002.83	3/4	3,364.27
4	117.31	4	479.26	4	840.42	4	1,201.61	4	1,563.50	4	1,925.38	4	2,287.26	4	2,648.92	4	3,010.36	4	3,371.80
1/4	124.85	1/4	486.80	1/4	847.93	1/4	1,209.15	1/4	1,571.03	1/4	1,932.92	1/4	2,294.80	1/4	2,656.45	1/4	3,017.89	1/4	3,379.33
1/2	132.39	1/2	494.34	1/2	855.44	1/2	1,216.69	1/2	1,578.57	1/2	1,940.46	1/2	2,302.34	1/2	2,663.98	1/2	3,025.42	1/2	3,386.86
3/4	139.93	3/4	501.88	3/4	862.95	3/4	1,224.23	3/4	1,586.11	3/4	1,947.99	3/4	2,309.88	3/4	2,671.51	3/4	3,032.95	3/4	3,394.39
5	147.47	5	509.42	5	870.46	5	1,231.77	5	1,593.65	5	1,955.53	5	2,317.42	5	2,679.04	5	3,040.48	5	3,401.91
1/4	155.01	1/4	516.96	1/4	877.97	1/4	1,239.31	1/4	1,601.19	1/4	1,963.07	1/4	2,324.95	1/4	2,686.57	1/4	3,048.01	1/4	3,409.43
1/2	162.56	1/2	524.50	1/2	885.47	1/2	1,246.85	1/2	1,608.73	1/2	1,970.61	1/2	2,332.49	1/2	2,694.10	1/2	3,055.54	1/2	3,416.95
3/4	170.10	3/4	532.04	3/4	892.98	3/4	1,254.39	3/4	1,616.27	3/4	1,978.15	3/4	2,340.03	3/4	2,701.63	3/4	3,063.07	3/4	3,424.47
6	177.64	6	539.58	6	900.49	6	1,261.93	6	1,623.81	6	1,985.69	6	2,347.57	6	2,709.16	6	3,070.60	6	3,431.99
1/4	185.18	1/4	547.12	1/4	908.00	1/4	1,269.47	1/4	1,631.35	1/4	1,993.23	1/4	2,355.11	1/4	2,716.69	1/4	3,078.13	1/4	3,439.49
1/2	192.72	1/2	554.66	1/2	915.51	1/2	1,277.01	1/2	1,638.89	1/2	2,000.77	1/2	2,362.65	1/2	2,724.22	1/2	3,085.66	1/2	3,447.00
3/4	200.26	3/4	562.20	3/4	923.02	3/4	1,284.55	3/4	1,646.43	3/4	2,008.31	3/4	2,370.19	3/4	2,731.75	3/4	3,093.19	3/4	3,454.50
7	207.80	7	569.74	7	930.53	7	1,292.08	7	1,653.97	7	2,015.85	7	2,377.73	7	2,739.28	7	3,100.72	7	3,462.00
1/4	215.34	1/4	577.28	1/4	938.03	1/4	1,299.62	1/4	1,661.51	1/4	2,023.39	1/4	2,385.27	1/4	2,746.81	1/4	3,108.25	1/4	3,469.51
1/2	222.88	1/2	584.81	1/2	945.54	1/2	1,307.16	1/2	1,669.04	1/2	2,030.93	1/2	2,392.81	1/2	2,754.34	1/2	3,115.78	1/2	3,477.01
3/4	230.42	3/4	592.35	3/4	953.05	3/4	1,314.70	3/4	1,676.58	3/4	2,038.47	3/4	2,400.35	3/4	2,761.87	3/4	3,123.31	3/4	3,484.51
8	237.96	8	599.88	8	960.56	8	1,322.24	8	1,684.12	8	2,046.00	8	2,407.89	8	2,769.40	8	3,130.84	8	3,492.02
1/4	245.50	1/4	607.41	1/4	968.07	1/4	1,329.78	1/4	1,691.66	1/4	2,053.54	1/4	2,415.43	1/4	2,776.93	1/4	3,138.37	1/4	3,499.52
1/2	253.04	1/2	614.93	1/2	975.58	1/2	1,337.32	1/2	1,699.20	1/2	2,061.08	1/2	2,422.96	1/2	2,784.46	1/2	3,145.90	1/2	3,507.02
3/4	260.58	3/4	622.46	3/4	983.09	3/4	1,344.86	3/4	1,706.74	3/4	2,068.62	3/4	2,430.50	3/4	2,791.99	3/4	3,153.43	3/4	3,514.53
9	268.12	9	629.98	9	990.59	9	1,352.40	9	1,714.28	9	2,076.16	9	2,438.04	9	2,799.52	9	3,160.96	9	3,522.03
1/4	275.66	1/4	637.51	1/4	998.11	1/4	1,359.94	1/4	1,721.82	1/4	2,083.70	1/4	2,445.58	1/4	2,807.05	1/4	3,168.49	1/4	3,529.54
1/2	283.20	1/2	645.04	1/2	1,005.63	1/2	1,367.48	1/2	1,729.36	1/2	2,091.24	1/2	2,453.12	1/2	2,814.58	1/2	3,176.02	1/2	3,537.04
3/4	290.74	3/4	652.56	3/4	1,013.15	3/4	1,375.02	3/4	1,736.90	3/4	2,098.78	3/4	2,460.66	3/4	2,822.11	3/4	3,183.55	3/4	3,544.55
10	298.28	10	660.09	10	1,020.67	10	1,382.55	10	1,744.44	10	2,106.32	10	2,468.19	10	2,829.64	10	3,191.08	10	3,552.05
1/4	305.82	1/4	667.61	1/4	1,028.21	1/4	1,390.09	1/4	1,751.98	1/4	2,113.86	1/4	2,475.73	1/4	2,837.17	1/4	3,198.61	1/4	3,559.55
1/2	313.37	1/2	675.14	1/2	1,035.75	1/2	1,397.63	1/2	1,759.51	1/2	2,121.40	1/2	2,483.26	1/2	2,844.70	1/2	3,206.14	1/2	3,567.06
3/4	320.91	3/4	682.66	3/4	1,043.29	3/4	1,405.17	3/4	1,767.05	3/4	2,128.94	3/4	2,490.79	3/4	2,852.23	3/4	3,213.67	3/4	3,574.56
11	328.45	11	690.19	11	1,050.83	11	1,412.71	11	1,774.59	11	2,136.47	11	2,498.32	11	2,859.76	11	3,221.20	11	3,582.07
1/4	335.99	1/4	697.72	1/4	1,058.37	1/4	1,420.25	1/4	1,782.13	1/4	2,144.01	1/4	2,505.85	1/4	2,867.29	1/4	3,228.73	1/4	3,589.58
1/2	343.53	1/2	705.24	1/2	1,065.91	1/2	1,427.79	1/2	1,789.67	1/2	2,151.55	1/2	2,513.38	1/2	2,874.82	1/2	3,236.26	1/2	3,597.10
3/4	351.07	3/4	712.77	3/4	1,073.45	3/4	1,435.33	3/4	1,797.21	3/4	2,159.09	3/4	2,520.92	3/4	2,882.35	3/4	3,243.79	3/4	3,604.62

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO 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 29146"

3 PORT INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	3,612.14	0	3,884.05	0	4,149.26	0	4,399.46	0	4,631.05	0		0		0		0		0	
1/4	3,618.93	1/4	3,889.61	1/4	4,154.65	1/4	4,404.45	1/4	4,635.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,625.73	1/2	3,895.17	1/2	4,160.03	1/2	4,409.45	1/2	4,640.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,632.53	3/4	3,900.73	3/4	4,165.42	3/4	4,414.44	3/4	4,644.93	3/4		3/4		3/4		3/4		3/4	
1	3,639.32	1	3,906.30	1	4,170.80	1	4,419.43	1	4,649.56	1		1		1		1		1	
1/4	3,644.89	1/4	3,911.86	1/4	4,176.16	1/4	4,424.39	1/4	4,654.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,650.45	1/2	3,917.42	1/2	4,181.51	1/2	4,429.35	1/2	4,658.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.01	3/4	3,922.98	3/4	4,186.87	3/4	4,434.31	3/4	4,663.37	3/4		3/4		3/4		3/4		3/4	
2	3,661.57	2	3,928.54	2	4,192.22	2	4,439.27	2	4,667.97	2		2		2		2		2	
1/4	3,667.13	1/4	3,934.11	1/4	4,197.55	1/4	4,444.20	1/4	4,672.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,672.70	1/2	3,939.67	1/2	4,202.87	1/2	4,449.13	1/2	4,677.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,678.26	3/4	3,945.23	3/4	4,208.19	3/4	4,454.06	3/4	4,682.78	3/4		3/4		3/4		3/4		3/4	
3	3,683.82	3	3,950.79	3	4,213.52	3	4,458.99	3	4,687.72	3		3		3		3		3	
1/4	3,689.38	1/4	3,956.35	1/4	4,218.81	1/4	4,463.89	1/4	4,692.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,694.94	1/2	3,961.92	1/2	4,224.11	1/2	4,468.79	1/2	4,698.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,700.51	3/4	3,967.48	3/4	4,229.40	3/4	4,473.69	3/4	4,703.52	3/4		3/4		3/4		3/4		3/4	
4	3,706.07	4	3,973.04	4	4,234.70	4	4,478.59	4	4,708.79	4		4		4		4		4	
1/4	3,711.63	1/4	3,978.60	1/4	4,239.96	1/4	4,483.46	1/4	4,713.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,717.19	1/2	3,984.16	1/2	4,245.22	1/2	4,488.33	1/2	4,717.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,722.75	3/4	3,989.72	3/4	4,250.49	3/4	4,493.20	3/4	4,721.86	3/4		3/4		3/4		3/4		3/4	
5	3,728.32	5	3,995.29	5	4,255.75	5	4,498.07	5	4,726.21	5		5		5		5		5	
1/4	3,733.88	1/4	4,000.85	1/4	4,260.99	1/4	4,502.91	1/4	4,729.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,739.44	1/2	4,006.41	1/2	4,266.22	1/2	4,507.75	1/2	4,732.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,745.00	3/4	4,011.97	3/4	4,271.46	3/4	4,512.59	3/4	4,735.51	3/4		3/4		3/4		3/4		3/4	
6	3,750.56	6	4,017.53	6	4,276.69	6	4,517.43	6	4,738.61	6		6		6		6		6	
1/4	3,756.12	1/4	4,023.09	1/4	4,281.89	1/4	4,522.24	1/4	4,740.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,761.69	1/2	4,028.65	1/2	4,287.10	1/2	4,527.04	1/2	4,742.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.25	3/4	4,034.20	3/4	4,292.30	3/4	4,531.85	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,772.81	7	4,039.76	7	4,297.50	7	4,536.66	7		7		7		7		7		7	
1/4	3,778.37	1/4	4,045.29	1/4	4,302.68	1/4	4,541.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,783.93	1/2	4,050.83	1/2	4,307.85	1/2	4,546.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,789.50	3/4	4,056.37	3/4	4,313.03	3/4	4,551.00	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,795.06	8	4,061.90	8	4,318.20	8	4,555.78	8		8		8		8		8		8	
1/4	3,800.62	1/4	4,067.41	1/4	4,323.34	1/4	4,560.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,806.18	1/2	4,072.91	1/2	4,328.49	1/2	4,565.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,811.74	3/4	4,078.42	3/4	4,333.63	3/4	4,570.03	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,817.31	9	4,083.92	9	4,338.77	9	4,574.78	9		9		9		9		9		9	
1/4	3,822.87	1/4	4,089.40	1/4	4,343.88	1/4	4,579.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,828.43	1/2	4,094.87	1/2	4,348.98	1/2	4,584.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,833.99	3/4	4,100.35	3/4	4,354.08	3/4	4,588.94	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,839.55	10	4,105.82	10	4,359.18	10	4,593.65	10		10		10		10		10		10	
1/4	3,845.12	1/4	4,111.27	1/4	4,364.23	1/4	4,598.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,850.68	1/2	4,116.71	1/2	4,369.28	1/2	4,603.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,856.24	3/4	4,122.16	3/4	4,374.33	3/4	4,607.72	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,861.80	11	4,127.60	11	4,379.38	11	4,612.41	11		11		11		11		11		11	
1/4	3,867.36	1/4	4,133.02	1/4	4,384.40	1/4	4,617.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,872.92	1/2	4,138.43	1/2	4,389.42	1/2	4,621.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,878.49	3/4	4,143.85	3/4	4,394.44	3/4	4,626.39	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023

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 29146"

3 STBD INNAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	11.12	0	358.37	0	719.57	0	1,074.63	0	1,428.53	0	1,789.85	0	2,148.06	0	2,509.23	0	2,870.09	0	3,231.04
1/4	15.83	1/4	365.90	1/4	727.09	1/4	1,081.87	1/4	1,436.06	1/4	1,797.35	1/4	2,155.54	1/4	2,516.74	1/4	2,877.61	1/4	3,238.56
1/2	20.55	1/2	373.43	1/2	734.60	1/2	1,089.11	1/2	1,443.59	1/2	1,804.85	1/2	2,163.03	1/2	2,524.26	1/2	2,885.13	1/2	3,246.08
3/4	25.26	3/4	380.96	3/4	742.12	3/4	1,096.35	3/4	1,451.12	3/4	1,812.35	3/4	2,170.51	3/4	2,531.77	3/4	2,892.65	3/4	3,253.60
1	29.98	1	388.49	1	749.63	1	1,103.59	1	1,458.64	1	1,819.85	1	2,178.00	1	2,539.29	1	2,900.17	1	3,261.12
1/4	36.73	1/4	396.02	1/4	757.15	1/4	1,110.83	1/4	1,466.17	1/4	1,827.31	1/4	2,185.53	1/4	2,546.81	1/4	2,907.69	1/4	3,268.64
1/2	43.49	1/2	403.55	1/2	764.66	1/2	1,118.07	1/2	1,473.70	1/2	1,834.77	1/2	2,193.06	1/2	2,554.32	1/2	2,915.21	1/2	3,276.16
3/4	50.25	3/4	411.08	3/4	772.18	3/4	1,125.32	3/4	1,481.23	3/4	1,842.23	3/4	2,200.59	3/4	2,561.84	3/4	2,922.73	3/4	3,283.68
2	57.00	2	418.61	2	779.70	2	1,132.56	2	1,488.75	2	1,849.69	2	2,208.12	2	2,569.35	2	2,930.25	2	3,291.20
1/4	64.54	1/4	426.14	1/4	787.21	1/4	1,139.80	1/4	1,496.28	1/4	1,857.15	1/4	2,215.65	1/4	2,576.87	1/4	2,937.77	1/4	3,298.72
1/2	72.09	1/2	433.67	1/2	794.73	1/2	1,147.05	1/2	1,503.81	1/2	1,864.61	1/2	2,223.18	1/2	2,584.39	1/2	2,945.29	1/2	3,306.24
3/4	79.63	3/4	441.20	3/4	802.24	3/4	1,154.29	3/4	1,511.34	3/4	1,872.07	3/4	2,230.71	3/4	2,591.90	3/4	2,952.81	3/4	3,313.76
3	87.17	3	448.73	3	809.76	3	1,161.54	3	1,518.86	3	1,879.53	3	2,238.24	3	2,599.42	3	2,960.33	3	3,321.28
1/4	94.71	1/4	456.26	1/4	817.28	1/4	1,168.79	1/4	1,526.39	1/4	1,886.99	1/4	2,245.78	1/4	2,606.94	1/4	2,967.85	1/4	3,328.80
1/2	102.26	1/2	463.79	1/2	824.80	1/2	1,176.04	1/2	1,533.92	1/2	1,894.45	1/2	2,253.31	1/2	2,614.45	1/2	2,975.37	1/2	3,336.32
3/4	109.80	3/4	471.32	3/4	832.32	3/4	1,183.29	3/4	1,541.45	3/4	1,901.90	3/4	2,260.84	3/4	2,621.97	3/4	2,982.89	3/4	3,343.84
4	117.34	4	478.85	4	839.84	4	1,190.54	4	1,548.97	4	1,909.36	4	2,268.37	4	2,629.48	4	2,990.41	4	3,351.36
1/4	124.88	1/4	486.38	1/4	847.37	1/4	1,197.79	1/4	1,556.50	1/4	1,916.82	1/4	2,275.90	1/4	2,637.00	1/4	2,997.93	1/4	3,358.88
1/2	132.42	1/2	493.91	1/2	854.90	1/2	1,205.04	1/2	1,564.03	1/2	1,924.28	1/2	2,283.43	1/2	2,644.52	1/2	3,005.45	1/2	3,366.40
3/4	139.97	3/4	501.44	3/4	862.44	3/4	1,212.29	3/4	1,571.55	3/4	1,931.74	3/4	2,290.96	3/4	2,652.03	3/4	3,012.97	3/4	3,373.92
5	147.51	5	508.97	5	869.97	5	1,219.54	5	1,579.08	5	1,939.20	5	2,298.49	5	2,659.55	5	3,020.49	5	3,381.44
1/4	155.05	1/4	516.51	1/4	877.50	1/4	1,226.79	1/4	1,586.61	1/4	1,946.66	1/4	2,306.02	1/4	2,667.07	1/4	3,028.01	1/4	3,388.95
1/2	162.59	1/2	524.04	1/2	885.03	1/2	1,234.05	1/2	1,594.14	1/2	1,954.12	1/2	2,313.55	1/2	2,674.58	1/2	3,035.53	1/2	3,396.47
3/4	170.12	3/4	531.57	3/4	892.56	3/4	1,241.30	3/4	1,601.66	3/4	1,961.58	3/4	2,321.08	3/4	2,682.10	3/4	3,043.05	3/4	3,403.99
6	177.66	6	539.10	6	900.09	6	1,248.55	6	1,609.19	6	1,969.04	6	2,328.61	6	2,689.62	6	3,050.57	6	3,411.50
1/4	185.19	1/4	546.63	1/4	907.51	1/4	1,255.91	1/4	1,616.72	1/4	1,976.50	1/4	2,336.14	1/4	2,697.14	1/4	3,058.09	1/4	3,419.01
1/2	192.72	1/2	554.16	1/2	914.94	1/2	1,263.27	1/2	1,624.25	1/2	1,983.95	1/2	2,343.67	1/2	2,704.66	1/2	3,065.61	1/2	3,426.52
3/4	200.25	3/4	561.69	3/4	922.36	3/4	1,270.63	3/4	1,631.77	3/4	1,991.41	3/4	2,351.21	3/4	2,712.18	3/4	3,073.13	3/4	3,434.03
7	207.78	7	569.22	7	929.79	7	1,277.99	7	1,639.30	7	1,998.87	7	2,358.74	7	2,719.70	7	3,080.65	7	3,441.53
1/4	215.31	1/4	576.74	1/4	937.03	1/4	1,285.51	1/4	1,646.83	1/4	2,006.33	1/4	2,366.27	1/4	2,727.22	1/4	3,088.17	1/4	3,449.04
1/2	222.84	1/2	584.27	1/2	944.28	1/2	1,293.04	1/2	1,654.36	1/2	2,013.79	1/2	2,373.80	1/2	2,734.74	1/2	3,095.69	1/2	3,456.55
3/4	230.37	3/4	591.79	3/4	951.52	3/4	1,300.57	3/4	1,661.88	3/4	2,021.25	3/4	2,381.33	3/4	2,742.26	3/4	3,103.21	3/4	3,464.06
8	237.89	8	599.32	8	958.77	8	1,308.10	8	1,669.41	8	2,028.71	8	2,388.86	8	2,749.78	8	3,110.73	8	3,471.57
1/4	245.42	1/4	606.84	1/4	966.01	1/4	1,315.62	1/4	1,676.94	1/4	2,036.17	1/4	2,396.39	1/4	2,757.30	1/4	3,118.25	1/4	3,479.07
1/2	252.95	1/2	614.35	1/2	973.25	1/2	1,323.15	1/2	1,684.47	1/2	2,043.63	1/2	2,403.92	1/2	2,764.82	1/2	3,125.77	1/2	3,486.58
3/4	260.48	3/4	621.87	3/4	980.49	3/4	1,330.68	3/4	1,691.99	3/4	2,051.09	3/4	2,411.45	3/4	2,772.34	3/4	3,133.29	3/4	3,494.09
9	268.01	9	629.38	9	987.74	9	1,338.21	9	1,699.52	9	2,058.55	9	2,418.98	9	2,779.85	9	3,140.81	9	3,501.60
1/4	275.54	1/4	636.90	1/4	994.98	1/4	1,345.73	1/4	1,707.05	1/4	2,066.00	1/4	2,426.51	1/4	2,787.37	1/4	3,148.33	1/4	3,509.11
1/2	283.06	1/2	644.41	1/2	1,002.22	1/2	1,353.26	1/2	1,714.58	1/2	2,073.46	1/2	2,434.03	1/2	2,794.89	1/2	3,155.84	1/2	3,516.61
3/4	290.59	3/4	651.93	3/4	1,009.46	3/4	1,360.79	3/4	1,722.10	3/4	2,080.92	3/4	2,441.56	3/4	2,802.41	3/4	3,163.36	3/4	3,524.12
10	298.12	10	659.45	10	1,016.70	10	1,368.32	10	1,729.63	10	2,088.38	10	2,449.08	10	2,809.93	10	3,170.88	10	3,531.63
1/4	305.65	1/4	666.96	1/4	1,023.94	1/4	1,375.84	1/4	1,737.16	1/4	2,095.84	1/4	2,456.60	1/4	2,817.45	1/4	3,178.40	1/4	3,539.14
1/2	313.18	1/2	674.48	1/2	1,031.18	1/2	1,383.37	1/2	1,744.69	1/2	2,103.30	1/2	2,464.12	1/2	2,824.97	1/2	3,185.92	1/2	3,546.65
3/4	320.71	3/4	681.99	3/4	1,038.42	3/4	1,390.90	3/4	1,752.21	3/4	2,110.76	3/4	2,471.64	3/4	2,832.49	3/4	3,193.44	3/4	3,554.15
11	328.25	11	689.51	11	1,045.66	11	1,398.42	11	1,759.74	11	2,118.22	11	2,479.16	11	2,840.01	11	3,200.96	11	3,561.66
1/4	335.78	1/4	697.02	1/4	1,052.90	1/4	1,405.95	1/4	1,767.27	1/4	2,125.68	1/4	2,486.67	1/4	2,847.53	1/4	3,208.48	1/4	3,569.18
1/2	343.31	1/2	704.54	1/2	1,060.15	1/2	1,413.48	1/2	1,774.79	1/2	2,133.14	1/2	2,494.19	1/2	2,855.05	1/2	3,216.00	1/2	3,576.70
3/4	350.84	3/4	712.05	3/4	1,067.39	3/4	1,421.01	3/4	1,782.32	3/4	2,140.60	3/4	2,501.71	3/4	2,862.57	3/4	3,223.52	3/4	3,584.22

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 29146"

3 STBD INNAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	3,591.74	0	3,863.74	0	4,129.05	0	4,379.33	0	4,611.00	0		0		0		0		0	
1/4	3,598.54	1/4	3,869.31	1/4	4,134.43	1/4	4,384.33	1/4	4,615.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,605.34	1/2	3,874.87	1/2	4,139.82	1/2	4,389.32	1/2	4,620.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,612.14	3/4	3,880.43	3/4	4,145.21	3/4	4,394.31	3/4	4,624.90	3/4		3/4		3/4		3/4		3/4	
1	3,618.94	1	3,886.00	1	4,150.59	1	4,399.30	1	4,629.53	1		1		1		1		1	
1/4	3,624.50	1/4	3,891.56	1/4	4,155.95	1/4	4,404.27	1/4	4,634.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.07	1/2	3,897.12	1/2	4,161.31	1/2	4,409.23	1/2	4,638.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,635.63	3/4	3,902.69	3/4	4,166.66	3/4	4,414.19	3/4	4,643.34	3/4		3/4		3/4		3/4		3/4	
2	3,641.19	2	3,908.25	2	4,172.02	2	4,419.15	2	4,647.94	2		2		2		2		2	
1/4	3,646.76	1/4	3,913.82	1/4	4,177.34	1/4	4,424.08	1/4	4,652.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.32	1/2	3,919.38	1/2	4,182.67	1/2	4,429.02	1/2	4,657.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,657.89	3/4	3,924.94	3/4	4,188.00	3/4	4,433.95	3/4	4,662.76	3/4		3/4		3/4		3/4		3/4	
3	3,663.45	3	3,930.51	3	4,193.32	3	4,438.88	3	4,667.70	3		3		3		3		3	
1/4	3,669.01	1/4	3,936.07	1/4	4,198.62	1/4	4,443.78	1/4	4,672.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,674.58	1/2	3,941.63	1/2	4,203.92	1/2	4,448.68	1/2	4,678.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,680.14	3/4	3,947.20	3/4	4,209.21	3/4	4,453.59	3/4	4,683.50	3/4		3/4		3/4		3/4		3/4	
4	3,685.70	4	3,952.76	4	4,214.51	4	4,458.49	4	4,688.77	4		4		4		4		4	
1/4	3,691.27	1/4	3,958.33	1/4	4,219.77	1/4	4,463.36	1/4	4,693.13	1/4		1/4		1/4		1/4		1/4	
1/2	3,696.83	1/2	3,963.89	1/2	4,225.04	1/2	4,468.23	1/2	4,697.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,702.40	3/4	3,969.45	3/4	4,230.31	3/4	4,473.10	3/4	4,701.84	3/4		3/4		3/4		3/4		3/4	
5	3,707.96	5	3,975.02	5	4,235.57	5	4,477.97	5	4,706.20	5		5		5		5		5	
1/4	3,713.52	1/4	3,980.58	1/4	4,240.81	1/4	4,482.82	1/4	4,709.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.09	1/2	3,986.14	1/2	4,246.04	1/2	4,487.66	1/2	4,712.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,724.65	3/4	3,991.71	3/4	4,251.28	3/4	4,492.50	3/4	4,715.50	3/4		3/4		3/4		3/4		3/4	
6	3,730.21	6	3,997.27	6	4,256.52	6	4,497.34	6	4,718.60	6		6		6		6		6	
1/4	3,735.78	1/4	4,002.83	1/4	4,261.72	1/4	4,502.15	1/4	4,720.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,741.34	1/2	4,008.39	1/2	4,266.93	1/2	4,506.96	1/2	4,722.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,746.90	3/4	4,013.95	3/4	4,272.13	3/4	4,511.77	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,752.47	7	4,019.51	7	4,277.34	7	4,516.58	7		7		7		7		7		7	
1/4	3,758.03	1/4	4,025.04	1/4	4,282.51	1/4	4,521.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,763.60	1/2	4,030.58	1/2	4,287.69	1/2	4,526.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,769.16	3/4	4,036.12	3/4	4,292.87	3/4	4,530.93	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,774.72	8	4,041.66	8	4,298.04	8	4,535.71	8		8		8		8		8		8	
1/4	3,780.29	1/4	4,047.16	1/4	4,303.19	1/4	4,540.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,785.85	1/2	4,052.67	1/2	4,308.33	1/2	4,545.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,791.41	3/4	4,058.18	3/4	4,313.48	3/4	4,549.96	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,796.98	9	4,063.68	9	4,318.62	9	4,554.71	9		9		9		9		9		9	
1/4	3,802.54	1/4	4,069.16	1/4	4,323.73	1/4	4,559.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,808.11	1/2	4,074.64	1/2	4,328.83	1/2	4,564.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,813.67	3/4	4,080.11	3/4	4,333.93	3/4	4,568.88	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,819.23	10	4,085.59	10	4,339.03	10	4,573.60	10		10		10		10		10		10	
1/4	3,824.80	1/4	4,091.04	1/4	4,344.09	1/4	4,578.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,830.36	1/2	4,096.49	1/2	4,349.14	1/2	4,582.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,835.92	3/4	4,101.93	3/4	4,354.19	3/4	4,587.67	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,841.49	11	4,107.38	11	4,359.24	11	4,592.36	11		11		11		11		11		11	
1/4	3,847.05	1/4	4,112.80	1/4	4,364.27	1/4	4,597.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,852.62	1/2	4,118.21	1/2	4,369.29	1/2	4,601.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,858.18	3/4	4,123.63	3/4	4,374.31	3/4	4,606.34	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

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





BARGE "CTC 29146"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "E2MS 316"

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	2,110	0	3,141	0	4,117	0		0		0		0		0	
1/4	22	1/4	1,077	1/4	2,132	1/4	3,162	1/4	4,137	1/4		1/4		1/4		1/4		1/4	
1/2	44	1/2	1,099	1/2	2,154	1/2	3,183	1/2	4,156	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	1,121	3/4	2,176	3/4	3,204	3/4	4,176	3/4		3/4		3/4		3/4		3/4	
1	88	1	1,143	1	2,198	1	3,225	1	4,196	1		1		1		1		1	
1/4	110	1/4	1,165	1/4	2,220	1/4	3,245	1/4	4,215	1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	1,187	1/2	2,242	1/2	3,266	1/2	4,235	1/2		1/2		1/2		1/2		1/2	
3/4	154	3/4	1,209	3/4	2,264	3/4	3,287	3/4	4,254	3/4		3/4		3/4		3/4		3/4	
2	176	2	1,231	2	2,286	2	3,308	2	4,274	2		2		2		2		2	
1/4	198	1/4	1,253	1/4	2,308	1/4	3,328	1/4	4,294	1/4		1/4		1/4		1/4		1/4	
1/2	220	1/2	1,275	1/2	2,330	1/2	3,349	1/2	4,313	1/2		1/2		1/2		1/2		1/2	
3/4	242	3/4	1,297	3/4	2,351	3/4	3,370	3/4	4,333	3/4		3/4		3/4		3/4		3/4	
3	264	3	1,319	3	2,373	3	3,390	3	4,352	3		3		3		3		3	
1/4	286	1/4	1,341	1/4	2,395	1/4	3,411	1/4	4,371	1/4		1/4		1/4		1/4		1/4	
1/2	308	1/2	1,363	1/2	2,417	1/2	3,431	1/2	4,391	1/2		1/2		1/2		1/2		1/2	
3/4	330	3/4	1,385	3/4	2,438	3/4	3,452	3/4	4,410	3/4		3/4		3/4		3/4		3/4	
4	352	4	1,407	4	2,460	4	3,473	4	4,430	4		4		4		4		4	
1/4	374	1/4	1,429	1/4	2,482	1/4	3,493	1/4	4,449	1/4		1/4		1/4		1/4		1/4	
1/2	396	1/2	1,451	1/2	2,503	1/2	3,514	1/2	4,468	1/2		1/2		1/2		1/2		1/2	
3/4	418	3/4	1,473	3/4	2,525	3/4	3,534	3/4	4,488	3/4		3/4		3/4		3/4		3/4	
5	440	5	1,495	5	2,547	5	3,554	5	4,507	5		5		5		5		5	
1/4	462	1/4	1,517	1/4	2,568	1/4	3,575	1/4	4,526	1/4		1/4		1/4		1/4		1/4	
1/2	484	1/2	1,539	1/2	2,590	1/2	3,595	1/2	4,545	1/2		1/2		1/2		1/2		1/2	
3/4	506	3/4	1,561	3/4	2,611	3/4	3,616	3/4	4,564	3/4		3/4		3/4		3/4		3/4	
6	528	6	1,583	6	2,633	6	3,636	6	4,584	6		6		6		6		6	
1/4	550	1/4	1,605	1/4	2,654	1/4	3,656	1/4	4,603	1/4		1/4		1/4		1/4		1/4	
1/2	572	1/2	1,627	1/2	2,676	1/2	3,677	1/2	4,622	1/2		1/2		1/2		1/2		1/2	
3/4	594	3/4	1,649	3/4	2,697	3/4	3,697	3/4	4,641	3/4		3/4		3/4		3/4		3/4	
7	616	7	1,671	7	2,718	7	3,717	7	4,660	7		7		7		7		7	
1/4	638	1/4	1,693	1/4	2,740	1/4	3,737	1/4	4,679	1/4		1/4		1/4		1/4		1/4	
1/2	660	1/2	1,715	1/2	2,761	1/2	3,757	1/2	4,698	1/2		1/2		1/2		1/2		1/2	
3/4	681	3/4	1,737	3/4	2,782	3/4	3,778	3/4	4,717	3/4		3/4		3/4		3/4		3/4	
8	703	8	1,759	8	2,804	8	3,798	8	4,736	8		8		8		8		8	
1/4	725	1/4	1,781	1/4	2,825	1/4	3,818	1/4	4,762	1/4		1/4		1/4		1/4		1/4	
1/2	747	1/2	1,803	1/2	2,846	1/2	3,838	1/2	4,788	1/2		1/2		1/2		1/2		1/2	
3/4	769	3/4	1,825	3/4	2,867	3/4	3,858	3/4	4,815	3/4		3/4		3/4		3/4		3/4	
9	791	9	1,847	9	2,889	9	3,878	9		9		9		9		9		9	
1/4	813	1/4	1,869	1/4	2,910	1/4	3,898	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	835	1/2	1,891	1/2	2,931	1/2	3,918	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	857	3/4	1,913	3/4	2,952	3/4	3,938	3/4		3/4		3/4		3/4		3/4		3/4	
10	879	10	1,935	10	2,973	10	3,958	10		10		10		10		10		10	
1/4	901	1/4	1,957	1/4	2,994	1/4	3,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	923	1/2	1,979	1/2	3,015	1/2	3,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	945	3/4	2,001	3/4	3,036	3/4	4,018	3/4		3/4		3/4		3/4		3/4		3/4	
11	967	11	2,023	11	3,057	11	4,038	11		11		11		11		11		11	
1/4	989	1/4	2,044	1/4	3,078	1/4	4,057	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,011	1/2	2,066	1/2	3,099	1/2	4,077	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,033	3/4	2,088	3/4	3,120	3/4	4,097	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: 03/27/2020 JS
CALCULATED: 03/29/2020 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
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BARGE "CTC 29146"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "E2MS 316"

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	1,056	0	2,113	0	3,145	0	4,121	0		0	6 FT.	0	7 FT.	0	8 FT.	0	9 FT.
1/4	22	1/4	1,078	1/4	2,135	1/4	3,166	1/4	4,141	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	44	1/2	1,100	1/2	2,157	1/2	3,186	1/2	4,161	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	66	3/4	1,122	3/4	2,179	3/4	3,207	3/4	4,180	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
1	88	1	1,144	1	2,201	1	3,228	1	4,200	1		1	6 FT.	1	7 FT.	1	8 FT.	1	9 FT.
1/4	110	1/4	1,166	1/4	2,223	1/4	3,249	1/4	4,220	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	132	1/2	1,188	1/2	2,245	1/2	3,270	1/2	4,239	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	154	3/4	1,210	3/4	2,267	3/4	3,291	3/4	4,259	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
2	176	2	1,232	2	2,288	2	3,311	2	4,279	2		2	6 FT.	2	7 FT.	2	8 FT.	2	9 FT.
1/4	198	1/4	1,254	1/4	2,310	1/4	3,332	1/4	4,298	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	220	1/2	1,276	1/2	2,332	1/2	3,353	1/2	4,318	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	242	3/4	1,298	3/4	2,354	3/4	3,373	3/4	4,337	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
3	264	3	1,320	3	2,376	3	3,394	3	4,357	3		3	6 FT.	3	7 FT.	3	8 FT.	3	9 FT.
1/4	286	1/4	1,342	1/4	2,398	1/4	3,415	1/4	4,376	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	308	1/2	1,364	1/2	2,419	1/2	3,435	1/2	4,396	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	330	3/4	1,387	3/4	2,441	3/4	3,456	3/4	4,415	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
4	352	4	1,409	4	2,463	4	3,476	4	4,435	4		4	6 FT.	4	7 FT.	4	8 FT.	4	9 FT.
1/4	374	1/4	1,431	1/4	2,484	1/4	3,497	1/4	4,454	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	396	1/2	1,453	1/2	2,506	1/2	3,517	1/2	4,473	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	418	3/4	1,475	3/4	2,528	3/4	3,538	3/4	4,492	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
5	440	5	1,497	5	2,549	5	3,558	5	4,512	5		5	6 FT.	5	7 FT.	5	8 FT.	5	9 FT.
1/4	462	1/4	1,519	1/4	2,571	1/4	3,579	1/4	4,531	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	484	1/2	1,541	1/2	2,593	1/2	3,599	1/2	4,550	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	506	3/4	1,563	3/4	2,614	3/4	3,620	3/4	4,569	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
6	528	6	1,585	6	2,636	6	3,640	6	4,589	6		6	6 FT.	6	7 FT.	6	8 FT.	6	9 FT.
1/4	550	1/4	1,607	1/4	2,657	1/4	3,660	1/4	4,608	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	572	1/2	1,629	1/2	2,679	1/2	3,681	1/2	4,627	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	594	3/4	1,651	3/4	2,700	3/4	3,701	3/4	4,646	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
7	616	7	1,673	7	2,721	7	3,721	7	4,665	7		7	6 FT.	7	7 FT.	7	8 FT.	7	9 FT.
1/4	638	1/4	1,695	1/4	2,743	1/4	3,741	1/4	4,684	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	660	1/2	1,717	1/2	2,764	1/2	3,762	1/2	4,703	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	682	3/4	1,739	3/4	2,785	3/4	3,782	3/4	4,722	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
8	704	8	1,761	8	2,807	8	3,802	8	4,741	8		8	6 FT.	8	7 FT.	8	8 FT.	8	9 FT.
1/4	726	1/4	1,783	1/4	2,828	1/4	3,822	1/4	4,767	1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	748	1/2	1,805	1/2	2,849	1/2	3,842	1/2	4,794	1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	770	3/4	1,827	3/4	2,871	3/4	3,862	3/4	4,820	3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
9	792	9	1,849	9	2,892	9	3,882	9		9		9	6 FT.	9	7 FT.	9	8 FT.	9	9 FT.
1/4	814	1/4	1,871	1/4	2,913	1/4	3,902	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	836	1/2	1,893	1/2	2,934	1/2	3,922	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	858	3/4	1,915	3/4	2,955	3/4	3,942	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
10	880	10	1,937	10	2,977	10	3,962	10		10		10	6 FT.	10	7 FT.	10	8 FT.	10	9 FT.
1/4	902	1/4	1,959	1/4	2,998	1/4	3,982	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	924	1/2	1,981	1/2	3,019	1/2	4,002	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	946	3/4	2,003	3/4	3,040	3/4	4,022	3/4		3/4		3/4	6 FT.	3/4	7 FT.	3/4	8 FT.	3/4	9 FT.
11	968	11	2,025	11	3,061	11	4,042	11		11		11	6 FT.	11	7 FT.	11	8 FT.	11	9 FT.
1/4	990	1/4	2,047	1/4	3,082	1/4	4,062	1/4		1/4		1/4	6 FT.	1/4	7 FT.	1/4	8 FT.	1/4	9 FT.
1/2	1,012	1/2	2,069	1/2	3,103	1/2	4,082	1/2		1/2		1/2	6 FT.	1/2	7 FT.	1/2	8 FT.	1/2	9 FT.
3/4	1,034	3/4	2,091	3/4	3,124	3/4	4,102	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: 03/27/2020 JS
CALCULATED: 03/29/2020 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 29146"

ULLAGE (HERMETIC)
FORMERLY "E2MS 316"

	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

<http://www.pmacorp.net>



BARGE "CTC 29146"

1 PORT ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

GAUGE HEIGHT 15'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,300.78	0	3,995.26	0	3,672.38	0	3,341.38	0	3,010.37	0	2,679.35	0	2,348.34	0	2,017.28
1/4		1/4	4,577.42	1/4	4,294.59	1/4	3,988.69	1/4	3,665.48	1/4	3,334.48	1/4	3,003.47	1/4	2,672.46	1/4	2,341.44	1/4	2,010.39
1/2		1/2	4,573.96	1/2	4,288.39	1/2	3,982.12	1/2	3,658.59	1/2	3,327.59	1/2	2,996.57	1/2	2,665.56	1/2	2,334.55	1/2	2,003.49
3/4		3/4	4,570.51	3/4	4,282.19	3/4	3,975.55	3/4	3,651.70	3/4	3,320.69	3/4	2,989.68	3/4	2,658.66	3/4	2,327.65	3/4	1,996.59
1		1	4,565.90	1	4,275.97	1	3,968.96	1	3,644.81	1	3,313.79	1	2,982.78	1	2,651.77	1	2,320.76	1	1,989.69
1/4		1/4	4,561.30	1/4	4,269.74	1/4	3,962.36	1/4	3,637.91	1/4	3,306.90	1/4	2,975.89	1/4	2,644.87	1/4	2,313.86	1/4	1,982.79
1/2		1/2	4,556.69	1/2	4,263.52	1/2	3,955.77	1/2	3,631.01	1/2	3,300.00	1/2	2,968.99	1/2	2,637.98	1/2	2,306.96	1/2	1,975.89
3/4		3/4	4,552.08	3/4	4,257.29	3/4	3,949.17	3/4	3,624.12	3/4	3,293.11	3/4	2,962.09	3/4	2,631.08	3/4	2,300.07	3/4	1,968.99
2		2	4,546.33	2	4,251.04	2	3,942.55	2	3,617.22	2	3,286.21	2	2,955.20	2	2,624.18	2	2,293.17	2	1,962.09
1/4		1/4	4,540.57	1/4	4,244.79	1/4	3,935.92	1/4	3,610.33	1/4	3,279.31	1/4	2,948.30	1/4	2,617.29	1/4	2,286.28	1/4	1,955.20
1/2		1/2	4,534.82	1/2	4,238.54	1/2	3,929.30	1/2	3,603.43	1/2	3,272.42	1/2	2,941.40	1/2	2,610.39	1/2	2,279.38	1/2	1,948.30
3/4		3/4	4,529.06	3/4	4,232.29	3/4	3,922.68	3/4	3,596.53	3/4	3,265.52	3/4	2,934.51	3/4	2,603.50	3/4	2,272.48	3/4	1,941.40
3		3	4,522.46	3	4,226.01	3	3,916.03	3	3,589.64	3	3,258.63	3	2,927.61	3	2,596.60	3	2,265.59	3	1,934.50
1/4		1/4	4,515.85	1/4	4,219.73	1/4	3,909.38	1/4	3,582.74	1/4	3,251.73	1/4	2,920.72	1/4	2,589.70	1/4	2,258.69	1/4	1,927.60
1/2		1/2	4,509.25	1/2	4,213.45	1/2	3,902.73	1/2	3,575.85	1/2	3,244.83	1/2	2,913.82	1/2	2,582.81	1/2	2,251.79	1/2	1,920.70
3/4		3/4	4,502.64	3/4	4,207.17	3/4	3,896.07	3/4	3,568.95	3/4	3,237.94	3/4	2,906.92	3/4	2,575.91	3/4	2,244.90	3/4	1,913.80
4		4	4,496.33	4	4,200.86	4	3,889.40	4	3,562.05	4	3,231.04	4	2,900.03	4	2,569.02	4	2,238.00	4	1,906.91
1/4		1/4	4,490.02	1/4	4,194.55	1/4	3,882.72	1/4	3,555.16	1/4	3,224.14	1/4	2,893.13	1/4	2,562.12	1/4	2,231.11	1/4	1,900.01
1/2		1/2	4,483.70	1/2	4,188.25	1/2	3,876.04	1/2	3,548.26	1/2	3,217.25	1/2	2,886.24	1/2	2,555.22	1/2	2,224.21	1/2	1,893.11
3/4		3/4	4,477.39	3/4	4,181.94	3/4	3,869.36	3/4	3,541.37	3/4	3,210.35	3/4	2,879.34	3/4	2,548.33	3/4	2,217.31	3/4	1,886.21
5		5	4,471.39	5	4,175.60	5	3,862.65	5	3,534.47	5	3,203.46	5	2,872.44	5	2,541.43	5	2,210.42	5	1,879.31
1/4		1/4	4,465.39	1/4	4,169.27	1/4	3,855.95	1/4	3,527.57	1/4	3,196.56	1/4	2,865.55	1/4	2,534.53	1/4	2,203.52	1/4	1,872.41
1/2		1/2	4,459.38	1/2	4,162.94	1/2	3,849.24	1/2	3,520.68	1/2	3,189.66	1/2	2,858.65	1/2	2,527.64	1/2	2,196.63	1/2	1,865.51
3/4		3/4	4,453.38	3/4	4,156.60	3/4	3,842.54	3/4	3,513.78	3/4	3,182.77	3/4	2,851.76	3/4	2,520.74	3/4	2,189.73	3/4	1,858.61
6		6	4,447.35	6	4,150.24	6	3,835.80	6	3,506.88	6	3,175.87	6	2,844.86	6	2,513.85	6	2,182.83	6	1,851.72
1/4		1/4	4,441.32	1/4	4,143.88	1/4	3,829.07	1/4	3,499.99	1/4	3,168.98	1/4	2,837.96	1/4	2,506.95	1/4	2,175.94	1/4	1,844.82
1/2		1/2	4,435.29	1/2	4,137.51	1/2	3,822.33	1/2	3,493.09	1/2	3,162.08	1/2	2,831.07	1/2	2,500.05	1/2	2,169.04	1/2	1,837.92
3/4		3/4	4,429.26	3/4	4,131.15	3/4	3,815.60	3/4	3,486.20	3/4	3,155.18	3/4	2,824.17	3/4	2,493.16	3/4	2,162.15	3/4	1,831.02
7		7	4,423.20	7	4,124.76	7	3,808.84	7	3,479.30	7	3,148.29	7	2,817.27	7	2,486.26	7	2,155.25	7	1,824.12
1/4		1/4	4,417.14	1/4	4,118.37	1/4	3,802.08	1/4	3,472.40	1/4	3,141.39	1/4	2,810.38	1/4	2,479.37	1/4	2,148.35	1/4	1,817.22
1/2		1/2	4,411.08	1/2	4,111.98	1/2	3,795.32	1/2	3,465.51	1/2	3,134.50	1/2	2,803.48	1/2	2,472.47	1/2	2,141.46	1/2	1,810.32
3/4		3/4	4,405.02	3/4	4,105.59	3/4	3,788.55	3/4	3,458.61	3/4	3,127.60	3/4	2,796.59	3/4	2,465.57	3/4	2,134.56	3/4	1,803.42
8		8	4,398.93	8	4,099.17	8	3,781.77	8	3,451.72	8	3,120.70	8	2,789.69	8	2,458.68	8	2,127.66	8	1,796.53
1/4		1/4	4,392.85	1/4	4,092.75	1/4	3,774.98	1/4	3,444.82	1/4	3,113.81	1/4	2,782.79	1/4	2,451.78	1/4	2,120.76	1/4	1,789.63
1/2		1/2	4,386.76	1/2	4,086.34	1/2	3,768.19	1/2	3,437.92	1/2	3,106.91	1/2	2,775.90	1/2	2,444.89	1/2	2,113.87	1/2	1,782.73
3/4		3/4	4,380.68	3/4	4,079.92	3/4	3,761.40	3/4	3,431.03	3/4	3,100.02	3/4	2,769.00	3/4	2,437.99	3/4	2,106.97	3/4	1,775.83
9		9	4,374.56	9	4,073.45	9	3,754.58	9	3,424.13	9	3,093.12	9	2,762.11	9	2,431.09	9	2,100.07	9	1,768.93
1/4		1/4	4,368.45	1/4	4,066.98	1/4	3,747.76	1/4	3,417.24	1/4	3,086.22	1/4	2,755.21	1/4	2,424.20	1/4	2,093.17	1/4	1,762.03
1/2		1/2	4,362.33	1/2	4,060.51	1/2	3,740.95	1/2	3,410.34	1/2	3,079.33	1/2	2,748.31	1/2	2,417.30	1/2	2,086.27	1/2	1,755.13
3/4		3/4	4,356.22	3/4	4,054.04	3/4	3,734.13	3/4	3,403.44	3/4	3,072.43	3/4	2,741.42	3/4	2,410.41	3/4	2,079.37	3/4	1,748.24
10		10	4,350.08	10	4,047.53	10	3,727.29	10	3,396.55	10	3,065.53	10	2,734.52	10	2,403.51	10	2,072.47	10	1,741.34
1/4		1/4	4,343.94	1/4	4,041.01	1/4	3,720.44	1/4	3,389.65	1/4	3,058.64	1/4	2,727.63	1/4	2,396.61	1/4	2,065.58	1/4	1,734.44
1/2		1/2	4,337.80	1/2	4,034.50	1/2	3,713.60	1/2	3,382.76	1/2	3,051.74	1/2	2,720.73	1/2	2,389.72	1/2	2,058.68	1/2	1,727.54
3/4		3/4	4,331.66	3/4	4,027.99	3/4	3,706.75	3/4	3,375.86	3/4	3,044.85	3/4	2,713.83	3/4	2,382.82	3/4	2,051.78	3/4	1,720.64
11		11	4,325.49	11	4,021.45	11	3,699.88	11	3,368.96	11	3,037.95	11	2,706.94	11	2,375.92	11	2,044.88	11	1,713.74
1/4		1/4	4,319.32	1/4	4,014.91	1/4	3,693.01	1/4	3,362.07	1/4	3,031.05	1/4	2,700.04	1/4	2,369.03	1/4	2,037.98	1/4	1,706.84
1/2		1/2	4,313.15	1/2	4,008.37	1/2	3,686.14	1/2	3,355.17	1/2	3,024.16	1/2	2,693.15	1/2	2,362.13	1/2	2,031.08	1/2	1,699.94
3/4		3/4	4,306.98	3/4	4,001.83	3/4	3,679.27	3/4	3,348.27	3/4	3,017.26	3/4	2,686.25	3/4	2,355.24	3/4	2,024.18	3/4	1,693.05

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
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BARGE "CTC 29146"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

GAUGE HEIGHT 15'-06 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	1,686.15	0	1,355.01	0	1,024.05	0	706.60	0	412.29	0	140.16	0		0		0		0	
1/4	1,679.25	1/4	1,348.11	1/4	1,017.21	1/4	700.23	1/4	406.39	1/4	134.73	1/4		1/4		1/4		1/4	
1/2	1,672.35	1/2	1,341.21	1/2	1,010.37	1/2	693.86	1/2	400.49	1/2	129.31	1/2		1/2		1/2		1/2	
3/4	1,665.45	3/4	1,334.31	3/4	1,003.53	3/4	687.50	3/4	394.60	3/4	123.89	3/4		3/4		3/4		3/4	
1	1,658.55	1	1,327.41	1	996.73	1	681.17	1	388.74	1	118.50	1		1		1		1	
1/4	1,651.65	1/4	1,320.52	1/4	989.93	1/4	674.84	1/4	382.89	1/4	113.12	1/4		1/4		1/4		1/4	
1/2	1,644.75	1/2	1,313.62	1/2	983.13	1/2	668.51	1/2	377.03	1/2	107.73	1/2		1/2		1/2		1/2	
3/4	1,637.86	3/4	1,306.72	3/4	976.33	3/4	662.18	3/4	371.17	3/4	102.35	3/4		3/4		3/4		3/4	
2	1,630.96	2	1,299.82	2	969.57	2	655.89	2	365.36	2	97.00	2		2		2		2	
1/4	1,624.06	1/4	1,292.92	1/4	962.80	1/4	649.60	1/4	359.54	1/4	91.66	1/4		1/4		1/4		1/4	
1/2	1,617.16	1/2	1,286.02	1/2	956.04	1/2	643.31	1/2	353.72	1/2	86.32	1/2		1/2		1/2		1/2	
3/4	1,610.26	3/4	1,279.12	3/4	949.28	3/4	637.03	3/4	347.91	3/4	80.97	3/4		3/4		3/4		3/4	
3	1,603.36	3	1,272.22	3	942.56	3	630.79	3	342.13	3	75.66	3		3		3		3	
1/4	1,596.46	1/4	1,265.33	1/4	935.84	1/4	624.55	1/4	336.35	1/4	70.36	1/4		1/4		1/4		1/4	
1/2	1,589.56	1/2	1,258.43	1/2	929.12	1/2	618.30	1/2	330.57	1/2	65.05	1/2		1/2		1/2		1/2	
3/4	1,582.67	3/4	1,251.53	3/4	922.40	3/4	612.06	3/4	324.80	3/4	59.75	3/4		3/4		3/4		3/4	
4	1,575.77	4	1,244.63	4	915.71	4	605.87	4	319.06	4	54.48	4		4		4		4	
1/4	1,568.87	1/4	1,237.73	1/4	909.03	1/4	599.67	1/4	313.32	1/4	49.22	1/4		1/4		1/4		1/4	
1/2	1,561.97	1/2	1,230.83	1/2	902.35	1/2	593.48	1/2	307.58	1/2	43.95	1/2		1/2		1/2		1/2	
3/4	1,555.07	3/4	1,223.93	3/4	895.67	3/4	587.28	3/4	301.84	3/4	38.68	3/4		3/4		3/4		3/4	
5	1,548.17	5	1,217.04	5	889.02	5	581.13	5	296.15	5	34.17	5		5		5		5	
1/4	1,541.27	1/4	1,210.14	1/4	882.38	1/4	574.97	1/4	290.45	1/4	29.67	1/4		1/4		1/4		1/4	
1/2	1,534.38	1/2	1,203.24	1/2	875.74	1/2	568.82	1/2	284.75	1/2	25.16	1/2		1/2		1/2		1/2	
3/4	1,527.48	3/4	1,196.34	3/4	869.09	3/4	562.66	3/4	279.05	3/4	20.65	3/4		3/4		3/4		3/4	
6	1,520.58	6	1,189.44	6	862.49	6	556.54	6	273.39	6	17.64	6		6		6		6	
1/4	1,513.68	1/4	1,182.54	1/4	855.89	1/4	550.43	1/4	267.73	1/4	14.63	1/4		1/4		1/4		1/4	
1/2	1,506.78	1/2	1,175.64	1/2	849.28	1/2	544.31	1/2	262.07	1/2	11.62	1/2		1/2		1/2		1/2	
3/4	1,499.88	3/4	1,168.74	3/4	842.68	3/4	538.19	3/4	256.41	3/4	8.60	3/4		3/4		3/4		3/4	
7	1,492.98	7	1,161.85	7	836.12	7	532.11	7	250.79	7		7		7		7		7	
1/4	1,486.08	1/4	1,154.95	1/4	829.55	1/4	526.04	1/4	245.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,479.19	1/2	1,148.05	1/2	822.99	1/2	519.96	1/2	239.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,472.29	3/4	1,141.15	3/4	816.42	3/4	513.88	3/4	233.93	3/4		3/4		3/4		3/4		3/4	
8	1,465.39	8	1,134.25	8	809.90	8	507.84	8	228.35	8		8		8		8		8	
1/4	1,458.49	1/4	1,127.35	1/4	803.37	1/4	501.81	1/4	222.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,451.59	1/2	1,120.45	1/2	796.85	1/2	495.77	1/2	217.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,444.69	3/4	1,113.55	3/4	790.32	3/4	489.73	3/4	211.61	3/4		3/4		3/4		3/4		3/4	
9	1,437.79	9	1,106.66	9	783.84	9	483.73	9	206.07	9		9		9		9		9	
1/4	1,430.89	1/4	1,099.76	1/4	777.35	1/4	477.73	1/4	200.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,424.00	1/2	1,092.86	1/2	770.87	1/2	471.73	1/2	194.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,417.10	3/4	1,085.96	3/4	764.38	3/4	465.74	3/4	189.44	3/4		3/4		3/4		3/4		3/4	
10	1,410.20	10	1,079.07	10	757.93	10	459.78	10	183.94	10		10		10		10		10	
1/4	1,403.30	1/4	1,072.17	1/4	751.49	1/4	453.82	1/4	178.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,396.40	1/2	1,065.28	1/2	745.04	1/2	447.86	1/2	172.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,389.50	3/4	1,058.38	3/4	738.59	3/4	441.90	3/4	167.43	3/4		3/4		3/4		3/4		3/4	
11	1,382.60	11	1,051.51	11	732.19	11	435.97	11	161.97	11		11		11		11		11	
1/4	1,375.71	1/4	1,044.64	1/4	725.78	1/4	430.04	1/4	156.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,368.81	1/2	1,037.76	1/2	719.37	1/2	424.11	1/2	151.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,361.91	3/4	1,030.89	3/4	712.97	3/4	418.18	3/4	145.58	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 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 29146"

1 STBD ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

GAUGE HEIGHT 15'-06 1/4"

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	4,583.47	0	4,297.16	0	3,990.13	0	3,665.84	0	3,334.07	0	3,002.30	0	2,670.52	0	2,338.74	0	2,006.91
1/4		1/4	4,580.00	1/4	4,290.95	1/4	3,983.55	1/4	3,658.94	1/4	3,327.16	1/4	2,995.38	1/4	2,663.61	1/4	2,331.83	1/4	1,999.99
1/2		1/2	4,575.38	1/2	4,284.71	1/2	3,976.94	1/2	3,652.02	1/2	3,320.25	1/2	2,988.47	1/2	2,656.70	1/2	2,324.92	1/2	1,993.08
3/4		3/4	4,570.77	3/4	4,278.47	3/4	3,970.33	3/4	3,645.11	3/4	3,313.34	3/4	2,981.56	3/4	2,649.78	3/4	2,318.01	3/4	1,986.16
1		1	4,566.15	1	4,272.23	1	3,963.72	1	3,638.20	1	3,306.42	1	2,974.65	1	2,642.87	1	2,311.10	1	1,979.25
1/4		1/4	4,561.53	1/4	4,265.99	1/4	3,957.10	1/4	3,631.29	1/4	3,299.51	1/4	2,967.74	1/4	2,635.96	1/4	2,304.18	1/4	1,972.33
1/2		1/2	4,555.76	1/2	4,259.72	1/2	3,950.46	1/2	3,624.38	1/2	3,292.60	1/2	2,960.82	1/2	2,629.05	1/2	2,297.27	1/2	1,965.42
3/4		3/4	4,550.00	3/4	4,253.46	3/4	3,943.83	3/4	3,617.46	3/4	3,285.69	3/4	2,953.91	3/4	2,622.14	3/4	2,290.36	3/4	1,958.51
2		2	4,544.23	2	4,247.19	2	3,937.19	2	3,610.55	2	3,278.78	2	2,947.00	2	2,615.22	2	2,283.45	2	1,951.59
1/4		1/4	4,538.46	1/4	4,240.92	1/4	3,930.55	1/4	3,603.64	1/4	3,271.86	1/4	2,940.09	1/4	2,608.31	1/4	2,276.54	1/4	1,944.68
1/2		1/2	4,531.84	1/2	4,234.62	1/2	3,923.88	1/2	3,596.73	1/2	3,264.95	1/2	2,933.18	1/2	2,601.40	1/2	2,269.62	1/2	1,937.76
3/4		3/4	4,525.22	3/4	4,228.33	3/4	3,917.21	3/4	3,589.82	3/4	3,258.04	3/4	2,926.26	3/4	2,594.49	3/4	2,262.71	3/4	1,930.85
3		3	4,518.59	3	4,222.03	3	3,910.55	3	3,582.90	3	3,251.13	3	2,919.35	3	2,587.58	3	2,255.80	3	1,923.93
1/4		1/4	4,511.97	1/4	4,215.74	1/4	3,903.88	1/4	3,575.99	1/4	3,244.22	1/4	2,912.44	1/4	2,580.66	1/4	2,248.89	1/4	1,917.02
1/2		1/2	4,505.65	1/2	4,209.41	1/2	3,897.19	1/2	3,569.08	1/2	3,237.30	1/2	2,905.53	1/2	2,573.75	1/2	2,241.98	1/2	1,910.10
3/4		3/4	4,499.32	3/4	4,203.09	3/4	3,890.49	3/4	3,562.17	3/4	3,230.39	3/4	2,898.62	3/4	2,566.84	3/4	2,235.06	3/4	1,903.19
4		4	4,492.99	4	4,196.77	4	3,883.80	4	3,555.26	4	3,223.48	4	2,891.70	4	2,559.93	4	2,228.15	4	1,896.28
1/4		1/4	4,486.66	1/4	4,190.45	1/4	3,877.10	1/4	3,548.34	1/4	3,216.57	1/4	2,884.79	1/4	2,553.02	1/4	2,221.24	1/4	1,889.36
1/2		1/2	4,480.64	1/2	4,184.09	1/2	3,870.38	1/2	3,541.43	1/2	3,209.66	1/2	2,877.88	1/2	2,546.10	1/2	2,214.33	1/2	1,882.45
3/4		3/4	4,474.62	3/4	4,177.74	3/4	3,863.66	3/4	3,534.52	3/4	3,202.74	3/4	2,870.97	3/4	2,539.19	3/4	2,207.42	3/4	1,875.53
5		5	4,468.60	5	4,171.39	5	3,856.94	5	3,527.61	5	3,195.83	5	2,864.06	5	2,532.28	5	2,200.50	5	1,868.62
1/4		1/4	4,462.58	1/4	4,165.04	1/4	3,850.21	1/4	3,520.70	1/4	3,188.92	1/4	2,857.14	1/4	2,525.37	1/4	2,193.59	1/4	1,861.70
1/2		1/2	4,456.54	1/2	4,158.66	1/2	3,843.46	1/2	3,513.78	1/2	3,182.01	1/2	2,850.23	1/2	2,518.46	1/2	2,186.68	1/2	1,854.79
3/4		3/4	4,450.49	3/4	4,152.29	3/4	3,836.71	3/4	3,506.87	3/4	3,175.10	3/4	2,843.32	3/4	2,511.54	3/4	2,179.77	3/4	1,847.87
6		6	4,444.44	6	4,145.91	6	3,829.96	6	3,499.96	6	3,168.18	6	2,836.41	6	2,504.63	6	2,172.86	6	1,840.96
1/4		1/4	4,438.40	1/4	4,139.53	1/4	3,823.22	1/4	3,493.05	1/4	3,161.27	1/4	2,829.50	1/4	2,497.72	1/4	2,165.94	1/4	1,834.04
1/2		1/2	4,432.32	1/2	4,133.12	1/2	3,816.44	1/2	3,486.14	1/2	3,154.36	1/2	2,822.58	1/2	2,490.81	1/2	2,159.03	1/2	1,827.13
3/4		3/4	4,426.25	3/4	4,126.72	3/4	3,809.66	3/4	3,479.22	3/4	3,147.45	3/4	2,815.67	3/4	2,483.90	3/4	2,152.11	3/4	1,820.22
7		7	4,420.17	7	4,120.31	7	3,802.88	7	3,472.31	7	3,140.54	7	2,808.76	7	2,476.98	7	2,145.20	7	1,813.30
1/4		1/4	4,414.10	1/4	4,113.91	1/4	3,796.11	1/4	3,465.40	1/4	3,133.62	1/4	2,801.85	1/4	2,470.07	1/4	2,138.28	1/4	1,806.39
1/2		1/2	4,408.00	1/2	4,107.47	1/2	3,789.30	1/2	3,458.49	1/2	3,126.71	1/2	2,794.94	1/2	2,463.16	1/2	2,131.37	1/2	1,799.47
3/4		3/4	4,401.89	3/4	4,101.04	3/4	3,782.50	3/4	3,451.58	3/4	3,119.80	3/4	2,788.02	3/4	2,456.25	3/4	2,124.45	3/4	1,792.56
8		8	4,395.79	8	4,094.60	8	3,775.69	8	3,444.66	8	3,112.89	8	2,781.11	8	2,449.34	8	2,117.54	8	1,785.64
1/4		1/4	4,389.69	1/4	4,088.17	1/4	3,768.89	1/4	3,437.75	1/4	3,105.98	1/4	2,774.20	1/4	2,442.42	1/4	2,110.62	1/4	1,778.73
1/2		1/2	4,383.56	1/2	4,081.68	1/2	3,762.05	1/2	3,430.84	1/2	3,099.06	1/2	2,767.29	1/2	2,435.51	1/2	2,103.71	1/2	1,771.81
3/4		3/4	4,377.43	3/4	4,075.20	3/4	3,755.22	3/4	3,423.93	3/4	3,092.15	3/4	2,760.38	3/4	2,428.60	3/4	2,096.80	3/4	1,764.90
9		9	4,371.30	9	4,068.71	9	3,748.39	9	3,417.02	9	3,085.24	9	2,753.46	9	2,421.69	9	2,089.88	9	1,757.99
1/4		1/4	4,365.17	1/4	4,062.23	1/4	3,741.56	1/4	3,410.10	1/4	3,078.33	1/4	2,746.55	1/4	2,414.78	1/4	2,082.97	1/4	1,751.07
1/2		1/2	4,359.01	1/2	4,055.70	1/2	3,734.70	1/2	3,403.19	1/2	3,071.42	1/2	2,739.64	1/2	2,407.86	1/2	2,076.05	1/2	1,744.16
3/4		3/4	4,352.86	3/4	4,049.17	3/4	3,727.84	3/4	3,396.28	3/4	3,064.50	3/4	2,732.73	3/4	2,400.95	3/4	2,069.14	3/4	1,737.24
10		10	4,346.70	10	4,042.64	10	3,720.98	10	3,389.37	10	3,057.59	10	2,725.82	10	2,394.04	10	2,062.22	10	1,730.33
1/4		1/4	4,340.54	1/4	4,036.11	1/4	3,714.12	1/4	3,382.46	1/4	3,050.68	1/4	2,718.90	1/4	2,387.13	1/4	2,055.31	1/4	1,723.41
1/2		1/2	4,334.36	1/2	4,029.56	1/2	3,707.23	1/2	3,375.54	1/2	3,043.77	1/2	2,711.99	1/2	2,380.22	1/2	2,048.39	1/2	1,716.50
3/4		3/4	4,328.17	3/4	4,023.00	3/4	3,700.34	3/4	3,368.63	3/4	3,036.86	3/4	2,705.08	3/4	2,373.30	3/4	2,041.48	3/4	1,709.58
11		11	4,321.99	11	4,016.44	11	3,693.45	11	3,361.72	11	3,029.94	11	2,698.17	11	2,366.39	11	2,034.57	11	1,702.67
1/4		1/4	4,315.80	1/4	4,009.89	1/4	3,686.56	1/4	3,354.81	1/4	3,023.03	1/4	2,691.26	1/4	2,359.48	1/4	2,027.65	1/4	1,695.75
1/2		1/2	4,309.59	1/2	4,003.30	1/2	3,679.66	1/2	3,347.90	1/2	3,016.12	1/2	2,684.34	1/2	2,352.57	1/2	2,020.74	1/2	1,688.84
3/4		3/4	4,586.97	3/4	4,303.38	3/4	3,996.72	3/4	3,672.75	3/4	3,340.98	3/4	3,009.21	3/4	2,677.43	3/4	2,013.82	3/4	1,681.93

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 29146"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	1,675.01	0	1,343.12	0	1,011.56	0	695.72	0	401.60	0	129.65	0		0		0		0	
1/4	1,668.10	1/4	1,336.20	1/4	1,004.72	1/4	689.35	1/4	395.69	1/4	124.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,661.18	1/2	1,329.29	1/2	997.93	1/2	683.00	1/2	389.82	1/2	118.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,654.27	3/4	1,322.37	3/4	991.14	3/4	676.66	3/4	383.95	3/4	113.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,647.35	1	1,315.46	1	984.36	1	670.32	1	378.07	1	108.01	1	1	1	1	1	1	1	1
1/4	1,640.44	1/4	1,308.54	1/4	977.57	1/4	663.97	1/4	372.20	1/4	102.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,633.52	1/2	1,301.63	1/2	970.83	1/2	657.67	1/2	366.37	1/2	97.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,626.61	3/4	1,294.71	3/4	964.08	3/4	651.36	3/4	360.54	3/4	91.89	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,619.70	2	1,287.80	2	957.34	2	645.06	2	354.70	2	86.53	2	2	2	2	2	2	2	2
1/4	1,612.78	1/4	1,280.88	1/4	950.59	1/4	638.75	1/4	348.87	1/4	81.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,605.87	1/2	1,273.97	1/2	943.89	1/2	632.50	1/2	343.08	1/2	75.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,598.95	3/4	1,267.06	3/4	937.18	3/4	626.24	3/4	337.28	3/4	70.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,592.04	3	1,260.14	3	930.48	3	619.98	3	331.49	3	65.21	3	3	3	3	3	3	3	3
1/4	1,585.12	1/4	1,253.23	1/4	923.77	1/4	613.73	1/4	325.70	1/4	59.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,578.21	1/2	1,246.31	1/2	917.10	1/2	607.52	1/2	319.94	1/2	54.60	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,571.29	3/4	1,239.40	3/4	910.44	3/4	601.30	3/4	314.19	3/4	49.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,564.38	4	1,232.48	4	903.77	4	595.09	4	308.43	4	44.04	4	4	4	4	4	4	4	4
1/4	1,557.46	1/4	1,225.57	1/4	897.11	1/4	588.88	1/4	302.68	1/4	38.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,550.55	1/2	1,218.65	1/2	890.48	1/2	582.71	1/2	296.97	1/2	34.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,543.64	3/4	1,211.74	3/4	883.85	3/4	576.54	3/4	291.25	3/4	29.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,536.72	5	1,204.83	5	877.23	5	570.37	5	285.54	5	25.19	5	5	5	5	5	5	5	5
1/4	1,529.81	1/4	1,197.91	1/4	870.60	1/4	564.19	1/4	279.82	1/4	20.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,522.89	1/2	1,191.00	1/2	864.01	1/2	558.06	1/2	274.15	1/2	17.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,515.98	3/4	1,184.08	3/4	857.43	3/4	551.93	3/4	268.47	3/4	14.62	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,509.06	6	1,177.17	6	850.84	6	545.80	6	262.80	6	11.60	6	6	6	6	6	6	6	6
1/4	1,502.15	1/4	1,170.25	1/4	844.25	1/4	539.66	1/4	257.12	1/4	8.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,495.23	1/2	1,163.34	1/2	837.70	1/2	533.57	1/2	251.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,488.32	3/4	1,156.42	3/4	831.15	3/4	527.48	3/4	245.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,481.41	7	1,149.51	7	824.61	7	521.38	7	240.21	7		7	7	7	7	7	7	7	7
1/4	1,474.49	1/4	1,142.59	1/4	818.06	1/4	515.29	1/4	234.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,467.58	1/2	1,135.68	1/2	811.55	1/2	509.24	1/2	228.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,460.66	3/4	1,128.77	3/4	805.04	3/4	503.18	3/4	223.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,453.75	8	1,121.85	8	798.53	8	497.13	8	217.78	8		8	8	8	8	8	8	8	8
1/4	1,446.83	1/4	1,114.94	1/4	792.02	1/4	491.07	1/4	212.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,439.92	1/2	1,108.02	1/2	785.55	1/2	485.06	1/2	206.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,433.00	3/4	1,101.11	3/4	779.09	3/4	479.05	3/4	201.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,426.09	9	1,094.19	9	772.62	9	473.03	9	195.52	9		9	9	9	9	9	9	9	9
1/4	1,419.17	1/4	1,087.28	1/4	766.15	1/4	467.02	1/4	189.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,412.26	1/2	1,080.37	1/2	759.72	1/2	461.04	1/2	184.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,405.35	3/4	1,073.46	3/4	753.29	3/4	455.07	3/4	178.92	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,398.43	10	1,066.55	10	746.86	10	449.09	10	173.40	10		10	10	10	10	10	10	10	10
1/4	1,391.52	1/4	1,059.64	1/4	740.43	1/4	443.12	1/4	167.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,384.60	1/2	1,052.75	1/2	734.03	1/2	437.17	1/2	162.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,377.69	3/4	1,045.86	3/4	727.64	3/4	431.23	3/4	156.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,370.77	11	1,038.97	11	721.24	11	425.28	11	151.45	11		11	11	11	11	11	11	11	11
1/4	1,363.86	1/4	1,032.08	1/4	714.85	1/4	419.33	1/4	145.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,356.94	1/2	1,025.24	1/2	708.47	1/2	413.42	1/2	140.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,350.03	3/4	1,018.40	3/4	702.10	3/4	407.51	3/4	135.09	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: 01/30/2020 CL
CALCULATED: 01/30/2020 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 29146"

2 PORT ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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		0	5,549.81	0	5,214.42	0	4,854.73	0	4,474.81	0	4,086.14	0	3,697.46	0	3,308.78	0	2,920.10	0	2,531.35
1/4		1/4	5,545.75	1/4	5,207.14	1/4	4,847.02	1/4	4,466.72	1/4	4,078.04	1/4	3,689.36	1/4	3,300.68	1/4	2,912.00	1/4	2,523.25
1/2		1/2	5,540.35	1/2	5,199.83	1/2	4,839.27	1/2	4,458.62	1/2	4,069.94	1/2	3,681.26	1/2	3,292.58	1/2	2,903.90	1/2	2,515.15
3/4		3/4	5,534.94	3/4	5,192.52	3/4	4,831.52	3/4	4,450.53	3/4	4,061.85	3/4	3,673.17	3/4	3,284.49	3/4	2,895.81	3/4	2,507.05
1		1	5,529.53	1	5,185.21	1	4,823.78	1	4,442.43	1	4,053.75	1	3,665.07	1	3,276.39	1	2,887.71	1	2,498.95
1/4		1/4	5,524.12	1/4	5,177.90	1/4	4,816.03	1/4	4,434.33	1/4	4,045.65	1/4	3,656.97	1/4	3,268.29	1/4	2,879.61	1/4	2,490.85
1/2		1/2	5,517.36	1/2	5,170.55	1/2	4,808.25	1/2	4,426.23	1/2	4,037.55	1/2	3,648.87	1/2	3,260.19	1/2	2,871.51	1/2	2,482.75
3/4		3/4	5,510.60	3/4	5,163.21	3/4	4,800.48	3/4	4,418.14	3/4	4,029.46	3/4	3,640.78	3/4	3,252.10	3/4	2,863.42	3/4	2,474.65
2		2	5,503.85	2	5,155.87	2	4,792.70	2	4,410.04	2	4,021.36	2	3,632.68	2	3,244.00	2	2,855.32	2	2,466.55
1/4		1/4	5,497.09	1/4	5,148.52	1/4	4,784.92	1/4	4,401.94	1/4	4,013.26	1/4	3,624.58	1/4	3,235.90	1/4	2,847.22	1/4	2,458.45
1/2		1/2	5,489.33	1/2	5,141.15	1/2	4,777.11	1/2	4,393.84	1/2	4,005.16	1/2	3,616.48	1/2	3,227.80	1/2	2,839.12	1/2	2,450.34
3/4		3/4	5,481.58	3/4	5,133.77	3/4	4,769.30	3/4	4,385.75	3/4	3,997.07	3/4	3,608.39	3/4	3,219.71	3/4	2,831.03	3/4	2,442.24
3		3	5,473.82	3	5,126.40	3	4,761.49	3	4,377.65	3	3,988.97	3	3,600.29	3	3,211.61	3	2,822.93	3	2,434.14
1/4		1/4	5,466.06	1/4	5,119.02	1/4	4,753.68	1/4	4,369.55	1/4	3,980.87	1/4	3,592.19	1/4	3,203.51	1/4	2,814.83	1/4	2,426.04
1/2		1/2	5,458.65	1/2	5,111.62	1/2	4,745.84	1/2	4,361.45	1/2	3,972.77	1/2	3,584.09	1/2	3,195.41	1/2	2,806.73	1/2	2,417.94
3/4		3/4	5,451.24	3/4	5,104.21	3/4	4,737.99	3/4	4,353.36	3/4	3,964.68	3/4	3,576.00	3/4	3,187.32	3/4	2,798.64	3/4	2,409.84
4		4	5,443.82	4	5,096.80	4	4,730.15	4	4,345.26	4	3,956.58	4	3,567.90	4	3,179.22	4	2,790.54	4	2,401.74
1/4		1/4	5,436.41	1/4	5,089.39	1/4	4,722.31	1/4	4,337.16	1/4	3,948.48	1/4	3,559.80	1/4	3,171.12	1/4	2,782.44	1/4	2,393.64
1/2		1/2	5,429.36	1/2	5,081.95	1/2	4,714.43	1/2	4,329.06	1/2	3,940.38	1/2	3,551.70	1/2	3,163.02	1/2	2,774.34	1/2	2,385.54
3/4		3/4	5,422.31	3/4	5,074.52	3/4	4,706.56	3/4	4,320.97	3/4	3,932.29	3/4	3,543.61	3/4	3,154.93	3/4	2,766.25	3/4	2,377.44
5		5	5,415.26	5	5,067.08	5	4,698.68	5	4,312.87	5	3,924.19	5	3,535.51	5	3,146.83	5	2,758.15	5	2,369.34
1/4		1/4	5,408.20	1/4	5,059.64	1/4	4,690.81	1/4	4,304.77	1/4	3,916.09	1/4	3,527.41	1/4	3,138.73	1/4	2,750.05	1/4	2,361.24
1/2		1/2	5,401.12	1/2	5,052.16	1/2	4,682.90	1/2	4,296.67	1/2	3,907.99	1/2	3,519.31	1/2	3,130.63	1/2	2,741.95	1/2	2,353.14
3/4		3/4	5,394.04	3/4	5,044.69	3/4	4,674.99	3/4	4,288.58	3/4	3,899.90	3/4	3,511.22	3/4	3,122.54	3/4	2,733.86	3/4	2,345.04
6		6	5,386.95	6	5,037.22	6	4,667.09	6	4,280.48	6	3,891.80	6	3,503.12	6	3,114.44	6	2,725.76	6	2,336.94
1/4		1/4	5,379.87	1/4	5,029.75	1/4	4,659.18	1/4	4,272.38	1/4	3,883.70	1/4	3,495.02	1/4	3,106.34	1/4	2,717.66	1/4	2,328.84
1/2		1/2	5,372.75	1/2	5,022.24	1/2	4,651.24	1/2	4,264.28	1/2	3,875.60	1/2	3,486.92	1/2	3,098.24	1/2	2,709.56	1/2	2,320.74
3/4		3/4	5,365.64	3/4	5,014.74	3/4	4,643.30	3/4	4,256.19	3/4	3,867.51	3/4	3,478.83	3/4	3,090.15	3/4	2,701.46	3/4	2,312.64
7		7	5,358.52	7	5,007.23	7	4,635.36	7	4,248.09	7	3,859.41	7	3,470.73	7	3,082.05	7	2,693.36	7	2,304.54
1/4		1/4	5,351.40	1/4	4,999.73	1/4	4,627.42	1/4	4,239.99	1/4	3,851.31	1/4	3,462.63	1/4	3,073.95	1/4	2,685.26	1/4	2,296.44
1/2		1/2	5,344.25	1/2	4,992.19	1/2	4,619.45	1/2	4,231.89	1/2	3,843.21	1/2	3,454.53	1/2	3,065.85	1/2	2,677.16	1/2	2,288.33
3/4		3/4	5,337.11	3/4	4,984.66	3/4	4,611.47	3/4	4,223.80	3/4	3,835.12	3/4	3,446.44	3/4	3,057.76	3/4	2,669.06	3/4	2,280.23
8		8	5,329.96	8	4,977.12	8	4,603.50	8	4,215.70	8	3,827.02	8	3,438.34	8	3,049.66	8	2,660.96	8	2,272.13
1/4		1/4	5,322.81	1/4	4,969.58	1/4	4,595.53	1/4	4,207.60	1/4	3,818.92	1/4	3,430.24	1/4	3,041.56	1/4	2,652.86	1/4	2,264.03
1/2		1/2	5,315.63	1/2	4,961.98	1/2	4,587.53	1/2	4,199.50	1/2	3,810.82	1/2	3,422.14	1/2	3,033.46	1/2	2,644.76	1/2	2,255.93
3/4		3/4	5,308.45	3/4	4,954.38	3/4	4,579.52	3/4	4,191.41	3/4	3,802.73	3/4	3,414.05	3/4	3,025.37	3/4	2,636.66	3/4	2,247.83
9		9	5,301.27	9	4,946.79	9	4,571.52	9	4,183.31	9	3,794.63	9	3,405.95	9	3,017.27	9	2,628.56	9	2,239.73
1/4		1/4	5,294.09	1/4	4,939.19	1/4	4,563.51	1/4	4,175.21	1/4	3,786.53	1/4	3,397.85	1/4	3,009.17	1/4	2,620.46	1/4	2,231.63
1/2		1/2	5,286.87	1/2	4,931.54	1/2	4,555.48	1/2	4,167.11	1/2	3,778.43	1/2	3,389.75	1/2	3,001.07	1/2	2,612.35	1/2	2,223.53
3/4		3/4	5,279.66	3/4	4,923.89	3/4	4,547.44	3/4	4,159.02	3/4	3,770.34	3/4	3,381.66	3/4	2,992.98	3/4	2,604.25	3/4	2,215.43
10		10	5,272.45	10	4,916.24	10	4,539.40	10	4,150.92	10	3,762.24	10	3,373.56	10	2,984.88	10	2,596.15	10	2,207.33
1/4		1/4	5,265.23	1/4	4,908.59	1/4	4,531.36	1/4	4,142.82	1/4	3,754.14	1/4	3,365.46	1/4	2,976.78	1/4	2,588.05	1/4	2,199.23
1/2		1/2	5,257.99	1/2	4,900.91	1/2	4,523.30	1/2	4,134.72	1/2	3,746.04	1/2	3,357.36	1/2	2,968.68	1/2	2,579.95	1/2	2,191.13
3/4		3/4	5,250.74	3/4	4,893.23	3/4	4,515.23	3/4	4,126.63	3/4	3,737.95	3/4	3,349.27	3/4	2,960.59	3/4	2,571.85	3/4	2,183.03
11		11	5,243.49	11	4,885.55	11	4,507.16	11	4,118.53	11	3,729.85	11	3,341.17	11	2,952.49	11	2,563.75	11	2,174.93
1/4		1/4	5,236.25	1/4	4,877.87	1/4	4,499.09	1/4	4,110.43	1/4	3,721.75	1/4	3,333.07	1/4	2,944.39	1/4	2,555.65	1/4	2,166.83
1/2		1/2	5,228.97	1/2	4,870.16	1/2	4,491.00	1/2	4,102.33	1/2	3,713.65	1/2	3,324.97	1/2	2,936.29	1/2	2,547.55	1/2	2,158.73
3/4		3/4	5,553.87	3/4	5,221.69	3/4	4,862.44	3/4	4,482.91	3/4	4,094.24	3/4	3,705.56	3/4	3,316.88	3/4	2,928.20	3/4	2,150.63

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 29146"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	2,142.53	0	1,753.70	0	1,364.88	0	976.05	0	587.71	0	198.90	0		0		0		0	
1/4	2,134.43	1/4	1,745.60	1/4	1,356.78	1/4	967.95	1/4	579.61	1/4	190.80	1/4		1/4		1/4		1/4	
1/2	2,126.32	1/2	1,737.50	1/2	1,348.68	1/2	959.85	1/2	571.51	1/2	182.70	1/2		1/2		1/2		1/2	
3/4	2,118.22	3/4	1,729.40	3/4	1,340.58	3/4	951.75	3/4	563.41	3/4	174.59	3/4		3/4		3/4		3/4	
1	2,110.12	1	1,721.30	1	1,332.48	1	943.65	1	555.31	1	166.49	1		1		1		1	
1/4	2,102.02	1/4	1,713.20	1/4	1,324.38	1/4	935.55	1/4	547.21	1/4	158.39	1/4		1/4		1/4		1/4	
1/2	2,093.92	1/2	1,705.10	1/2	1,316.27	1/2	927.45	1/2	539.11	1/2	150.29	1/2		1/2		1/2		1/2	
3/4	2,085.82	3/4	1,697.00	3/4	1,308.17	3/4	919.35	3/4	531.01	3/4	142.19	3/4		3/4		3/4		3/4	
2	2,077.72	2	1,688.90	2	1,300.07	2	911.25	2	522.91	2	134.09	2		2		2		2	
1/4	2,069.62	1/4	1,680.80	1/4	1,291.97	1/4	903.15	1/4	514.81	1/4	125.99	1/4		1/4		1/4		1/4	
1/2	2,061.52	1/2	1,672.70	1/2	1,283.87	1/2	895.06	1/2	506.71	1/2	117.89	1/2		1/2		1/2		1/2	
3/4	2,053.42	3/4	1,664.60	3/4	1,275.77	3/4	886.97	3/4	498.61	3/4	109.79	3/4		3/4		3/4		3/4	
3	2,045.32	3	1,656.50	3	1,267.67	3	878.88	3	490.51	3	101.69	3		3		3		3	
1/4	2,037.22	1/4	1,648.40	1/4	1,259.57	1/4	870.78	1/4	482.41	1/4	93.59	1/4		1/4		1/4		1/4	
1/2	2,029.12	1/2	1,640.29	1/2	1,251.47	1/2	862.70	1/2	474.31	1/2	85.49	1/2		1/2		1/2		1/2	
3/4	2,021.02	3/4	1,632.19	3/4	1,243.37	3/4	854.61	3/4	466.21	3/4	77.39	3/4		3/4		3/4		3/4	
4	2,012.92	4	1,624.09	4	1,235.27	4	846.53	4	458.11	4	69.29	4		4		4		4	
1/4	2,004.82	1/4	1,615.99	1/4	1,227.17	1/4	838.44	1/4	450.01	1/4	61.19	1/4		1/4		1/4		1/4	
1/2	1,996.72	1/2	1,607.89	1/2	1,219.07	1/2	830.36	1/2	441.90	1/2	53.09	1/2		1/2		1/2		1/2	
3/4	1,988.62	3/4	1,599.79	3/4	1,210.97	3/4	822.27	3/4	433.80	3/4	44.98	3/4		3/4		3/4		3/4	
5	1,980.52	5	1,591.69	5	1,202.87	5	814.19	5	425.70	5	36.88	5		5		5		5	
1/4	1,972.42	1/4	1,583.59	1/4	1,194.77	1/4	806.10	1/4	417.60	1/4	28.78	1/4		1/4		1/4		1/4	
1/2	1,964.31	1/2	1,575.49	1/2	1,186.67	1/2	798.01	1/2	409.50	1/2	20.68	1/2		1/2		1/2		1/2	
3/4	1,956.21	3/4	1,567.39	3/4	1,178.57	3/4	789.93	3/4	401.40	3/4	12.58	3/4		3/4		3/4		3/4	
6	1,948.11	6	1,559.29	6	1,170.47	6	781.84	6	393.30	6	4.48	6		6		6		6	
1/4	1,940.01	1/4	1,551.19	1/4	1,162.37	1/4	773.76	1/4	385.20	1/4	-3.62	1/4		1/4		1/4		1/4	
1/2	1,931.91	1/2	1,543.09	1/2	1,154.26	1/2	765.67	1/2	377.10	1/2	-11.72	1/2		1/2		1/2		1/2	
3/4	1,923.81	3/4	1,534.99	3/4	1,146.16	3/4	757.59	3/4	369.00	3/4	-19.82	3/4		3/4		3/4		3/4	
7	1,915.71	7	1,526.89	7	1,138.06	7	749.50	7	360.90	7	-27.92	7		7		7		7	
1/4	1,907.61	1/4	1,518.79	1/4	1,129.96	1/4	741.42	1/4	352.80	1/4	-36.02	1/4		1/4		1/4		1/4	
1/2	1,899.51	1/2	1,510.69	1/2	1,121.86	1/2	733.33	1/2	344.70	1/2	-44.12	1/2		1/2		1/2		1/2	
3/4	1,891.41	3/4	1,502.59	3/4	1,113.76	3/4	725.24	3/4	336.60	3/4	-52.22	3/4		3/4		3/4		3/4	
8	1,883.31	8	1,494.49	8	1,105.66	8	717.16	8	328.50	8	-60.32	8		8		8		8	
1/4	1,875.21	1/4	1,486.39	1/4	1,097.56	1/4	709.07	1/4	320.40	1/4	-68.42	1/4		1/4		1/4		1/4	
1/2	1,867.11	1/2	1,478.28	1/2	1,089.46	1/2	700.99	1/2	312.30	1/2	-76.52	1/2		1/2		1/2		1/2	
3/4	1,859.01	3/4	1,470.18	3/4	1,081.36	3/4	692.90	3/4	304.20	3/4	-84.62	3/4		3/4		3/4		3/4	
9	1,850.91	9	1,462.08	9	1,073.26	9	684.82	9	296.10	9	-92.72	9		9		9		9	
1/4	1,842.81	1/4	1,453.98	1/4	1,065.16	1/4	676.73	1/4	288.00	1/4	-100.82	1/4		1/4		1/4		1/4	
1/2	1,834.71	1/2	1,445.88	1/2	1,057.06	1/2	668.65	1/2	279.90	1/2	-108.92	1/2		1/2		1/2		1/2	
3/4	1,826.61	3/4	1,437.78	3/4	1,048.96	3/4	660.56	3/4	271.80	3/4	-117.02	3/4		3/4		3/4		3/4	
10	1,818.51	10	1,429.68	10	1,040.86	10	652.48	10	263.70	10	-125.12	10		10		10		10	
1/4	1,810.41	1/4	1,421.58	1/4	1,032.76	1/4	644.39	1/4	255.60	1/4	-133.22	1/4		1/4		1/4		1/4	
1/2	1,802.30	1/2	1,413.48	1/2	1,024.66	1/2	636.30	1/2	247.50	1/2	-141.32	1/2		1/2		1/2		1/2	
3/4	1,794.20	3/4	1,405.38	3/4	1,016.56	3/4	628.20	3/4	239.40	3/4	-149.42	3/4		3/4		3/4		3/4	
11	1,786.10	11	1,397.28	11	1,008.46	11	620.11	11	231.30	11	-157.52	11		11		11		11	
1/4	1,778.00	1/4	1,389.18	1/4	1,000.36	1/4	612.01	1/4	223.20	1/4	-165.62	1/4		1/4		1/4		1/4	
1/2	1,769.90	1/2	1,381.08	1/2	992.25	1/2	603.91	1/2	215.10	1/2	-173.72	1/2		1/2		1/2		1/2	
3/4	1,761.80	3/4	1,372.98	3/4	984.15	3/4	595.81	3/4	207.00	3/4	-181.82	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 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 29146"

2 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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		IN	
0		0	5,518.91	0	5,181.08	0	4,821.78	0	4,442.31	0	4,054.45	0	3,666.59	0	3,278.73	0	2,890.87	0	2,502.94		
1/4		1/4	5,513.52	1/4	5,173.79	1/4	4,814.05	1/4	4,434.23	1/4	4,046.37	1/4	3,658.51	1/4	3,270.65	1/4	2,882.79	1/4	2,494.86		
1/2		1/2	5,508.12	1/2	5,166.50	1/2	4,806.33	1/2	4,426.15	1/2	4,038.29	1/2	3,650.43	1/2	3,262.57	1/2	2,874.71	1/2	2,486.78		
3/4		3/4	5,502.72	3/4	5,159.20	3/4	4,798.60	3/4	4,418.07	3/4	4,030.21	3/4	3,642.35	3/4	3,254.49	3/4	2,866.63	3/4	2,478.69		
1		1	5,497.33	1	5,151.91	1	4,790.87	1	4,409.99	1	4,022.13	1	3,634.27	1	3,246.41	1	2,858.55	1	2,470.61		
1/4		1/4	5,490.58	1/4	5,144.59	1/4	4,783.11	1/4	4,401.91	1/4	4,014.05	1/4	3,626.19	1/4	3,238.33	1/4	2,850.47	1/4	2,462.53		
1/2		1/2	5,483.84	1/2	5,137.26	1/2	4,775.35	1/2	4,393.83	1/2	4,005.97	1/2	3,618.11	1/2	3,230.25	1/2	2,842.39	1/2	2,454.44		
3/4		3/4	5,477.10	3/4	5,129.93	3/4	4,767.59	3/4	4,385.75	3/4	3,997.89	3/4	3,610.03	3/4	3,222.17	3/4	2,834.31	3/4	2,446.36		
2		2	5,470.35	2	5,122.61	2	4,759.83	2	4,377.67	2	3,989.81	2	3,601.95	2	3,214.09	2	2,826.23	2	2,438.28		
1/4		1/4	5,462.61	1/4	5,115.25	1/4	4,752.03	1/4	4,369.59	1/4	3,981.73	1/4	3,593.87	1/4	3,206.01	1/4	2,818.15	1/4	2,430.19		
1/2		1/2	5,454.87	1/2	5,107.89	1/2	4,744.24	1/2	4,361.51	1/2	3,973.65	1/2	3,585.79	1/2	3,197.93	1/2	2,810.07	1/2	2,422.11		
3/4		3/4	5,447.14	3/4	5,100.53	3/4	4,736.45	3/4	4,353.43	3/4	3,965.57	3/4	3,577.71	3/4	3,189.85	3/4	2,801.99	3/4	2,414.03		
3		3	5,439.40	3	5,093.18	3	4,728.65	3	4,345.35	3	3,957.49	3	3,569.63	3	3,181.77	3	2,793.91	3	2,405.94		
1/4		1/4	5,432.00	1/4	5,085.79	1/4	4,720.83	1/4	4,337.27	1/4	3,949.41	1/4	3,561.55	1/4	3,173.69	1/4	2,785.83	1/4	2,397.86		
1/2		1/2	5,424.60	1/2	5,078.40	1/2	4,713.00	1/2	4,329.19	1/2	3,941.33	1/2	3,553.47	1/2	3,165.61	1/2	2,777.75	1/2	2,389.78		
3/4		3/4	5,417.21	3/4	5,071.01	3/4	4,705.18	3/4	4,321.11	3/4	3,933.25	3/4	3,545.39	3/4	3,157.53	3/4	2,769.67	3/4	2,381.69		
4		4	5,409.81	4	5,063.62	4	4,697.35	4	4,313.03	4	3,925.17	4	3,537.31	4	3,149.45	4	2,761.59	4	2,373.61		
1/4		1/4	5,402.78	1/4	5,056.19	1/4	4,689.49	1/4	4,304.94	1/4	3,917.09	1/4	3,529.23	1/4	3,141.37	1/4	2,753.51	1/4	2,365.53		
1/2		1/2	5,395.74	1/2	5,048.77	1/2	4,681.63	1/2	4,296.86	1/2	3,909.01	1/2	3,521.15	1/2	3,133.29	1/2	2,745.43	1/2	2,357.44		
3/4		3/4	5,388.71	3/4	5,041.35	3/4	4,673.78	3/4	4,288.78	3/4	3,900.92	3/4	3,513.07	3/4	3,125.21	3/4	2,737.35	3/4	2,349.36		
5		5	5,381.67	5	5,033.92	5	4,665.92	5	4,280.70	5	3,892.84	5	3,504.99	5	3,117.13	5	2,729.27	5	2,341.28		
1/4		1/4	5,374.61	1/4	5,026.47	1/4	4,658.03	1/4	4,272.62	1/4	3,884.76	1/4	3,496.90	1/4	3,109.05	1/4	2,721.19	1/4	2,333.19		
1/2		1/2	5,367.54	1/2	5,019.01	1/2	4,650.14	1/2	4,264.54	1/2	3,876.68	1/2	3,488.82	1/2	3,100.97	1/2	2,713.11	1/2	2,325.11		
3/4		3/4	5,360.47	3/4	5,011.56	3/4	4,642.25	3/4	4,256.46	3/4	3,868.60	3/4	3,480.74	3/4	3,092.88	3/4	2,705.03	3/4	2,317.03		
6		6	5,353.41	6	5,004.10	6	4,634.36	6	4,248.38	6	3,860.52	6	3,472.66	6	3,084.80	6	2,696.95	6	2,308.94		
1/4		1/4	5,346.31	1/4	4,996.62	1/4	4,626.43	1/4	4,240.30	1/4	3,852.44	1/4	3,464.58	1/4	3,076.72	1/4	2,688.86	1/4	2,300.86		
1/2		1/2	5,339.21	1/2	4,989.13	1/2	4,618.51	1/2	4,232.22	1/2	3,844.36	1/2	3,456.50	1/2	3,068.64	1/2	2,680.78	1/2	2,292.78		
3/4		3/4	5,332.11	3/4	4,981.64	3/4	4,610.59	3/4	4,224.14	3/4	3,836.28	3/4	3,448.42	3/4	3,060.56	3/4	2,672.70	3/4	2,284.69		
7		7	5,325.01	7	4,974.16	7	4,602.67	7	4,216.06	7	3,828.20	7	3,440.34	7	3,052.48	7	2,664.61	7	2,276.61		
1/4		1/4	5,317.88	1/4	4,966.64	1/4	4,594.71	1/4	4,207.98	1/4	3,820.12	1/4	3,432.26	1/4	3,044.40	1/4	2,656.53	1/4	2,268.53		
1/2		1/2	5,310.75	1/2	4,959.12	1/2	4,586.76	1/2	4,199.90	1/2	3,812.04	1/2	3,424.18	1/2	3,036.32	1/2	2,648.45	1/2	2,260.44		
3/4		3/4	5,303.61	3/4	4,951.60	3/4	4,578.80	3/4	4,191.82	3/4	3,803.96	3/4	3,416.10	3/4	3,028.24	3/4	2,640.36	3/4	2,252.36		
8		8	5,296.48	8	4,944.08	8	4,570.85	8	4,183.74	8	3,795.88	8	3,408.02	8	3,020.16	8	2,632.28	8	2,244.28		
1/4		1/4	5,289.32	1/4	4,936.49	1/4	4,562.86	1/4	4,175.66	1/4	3,787.80	1/4	3,399.94	1/4	3,012.08	1/4	2,624.20	1/4	2,236.19		
1/2		1/2	5,282.16	1/2	4,928.91	1/2	4,554.87	1/2	4,167.58	1/2	3,779.72	1/2	3,391.86	1/2	3,004.00	1/2	2,616.11	1/2	2,228.11		
3/4		3/4	5,274.99	3/4	4,921.33	3/4	4,546.88	3/4	4,159.50	3/4	3,771.64	3/4	3,383.78	3/4	2,995.92	3/4	2,608.03	3/4	2,220.03		
9		9	5,267.83	9	4,913.75	9	4,538.90	9	4,151.42	9	3,763.56	9	3,375.70	9	2,987.84	9	2,599.94	9	2,211.94		
1/4		1/4	5,260.63	1/4	4,906.12	1/4	4,530.88	1/4	4,143.34	1/4	3,755.48	1/4	3,367.62	1/4	2,979.76	1/4	2,591.86	1/4	2,203.86		
1/2		1/2	5,253.44	1/2	4,898.49	1/2	4,522.86	1/2	4,135.26	1/2	3,747.40	1/2	3,359.54	1/2	2,971.68	1/2	2,583.78	1/2	2,195.77		
3/4		3/4	5,246.24	3/4	4,890.86	3/4	4,514.84	3/4	4,127.18	3/4	3,739.32	3/4	3,351.46	3/4	2,963.60	3/4	2,575.69	3/4	2,187.69		
10		10	5,239.04	10	4,883.22	10	4,506.82	10	4,119.10	10	3,731.24	10	3,343.38	10	2,955.52	10	2,567.61	10	2,179.61		
1/4		1/4	5,231.81	1/4	4,875.56	1/4	4,498.77	1/4	4,111.02	1/4	3,723.16	1/4	3,335.30	1/4	2,947.44	1/4	2,559.53	1/4	2,171.52		
1/2		1/2	5,224.59	1/2	4,867.90	1/2	4,490.71	1/2	4,102.93	1/2	3,715.08	1/2	3,327.22	1/2	2,939.36	1/2	2,551.44	1/2	2,163.44		
3/4		3/4	5,217.36	3/4	4,860.23	3/4	4,482.66	3/4	4,094.85	3/4	3,707.00	3/4	3,319.14	3/4	2,931.28	3/4	2,543.36	3/4	2,155.36		
11		11	5,210.13	11	4,852.57	11	4,474.61	11	4,086.77	11	3,698.91	11	3,311.06	11	2,923.20	11	2,535.28	11	2,147.27		
1/4		1/4	5,202.87	1/4	4,844.87	1/4	4,466.53	1/4	4,078.69	1/4	3,690.83	1/4	3,302.98	1/4	2,915.12	1/4	2,527.19	1/4	2,139.19		
1/2	5,527.01	1/2	5,195.61	1/2	4,837.18	1/2	4,458.46	1/2	4,070.61	1/2	3,682.75	1/2	3,294.89	1/2	2,907.04	1/2	2,519.11	1/2	2,131.11		
3/4	5,522.96	3/4	5,188.35	3/4	4,829.48	3/4	4,450.39	3/4	4,062.53	3/4	3,674.67	3/4	3,286.81	3/4	2,898.96	3/4	2,511.03	3/4	2,123.02		

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 29146"

2 STBD
ULLAGE TABLE
HERMETIC
GAUGE HEIGHT 15'-06"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	2,114.94	0	1,726.94	0	1,339.70	0	965.91	0	578.38	0	190.39	0		0		0		0	
1/4	2,106.86	1/4	1,718.85	1/4	1,331.93	1/4	957.82	1/4	570.30	1/4	182.31	1/4		1/4		1/4		1/4	
1/2	2,098.77	1/2	1,710.77	1/2	1,324.15	1/2	949.74	1/2	562.22	1/2	174.22	1/2		1/2		1/2		1/2	
3/4	2,090.69	3/4	1,702.69	3/4	1,316.38	3/4	941.66	3/4	554.14	3/4	166.14	3/4		3/4		3/4		3/4	
1	2,082.61	1	1,694.60	1	1,308.61	1	933.57	1	546.05	1	158.06	1		1		1		1	
1/4	2,074.52	1/4	1,686.52	1/4	1,300.84	1/4	925.49	1/4	537.97	1/4	149.98	1/4		1/4		1/4		1/4	
1/2	2,066.44	1/2	1,678.44	1/2	1,293.07	1/2	917.41	1/2	529.89	1/2	141.89	1/2		1/2		1/2		1/2	
3/4	2,058.36	3/4	1,670.35	3/4	1,285.30	3/4	909.32	3/4	521.80	3/4	133.81	3/4		3/4		3/4		3/4	
2	2,050.27	2	1,662.27	2	1,277.53	2	901.24	2	513.72	2	125.73	2		2		2		2	
1/4	2,042.19	1/4	1,654.19	1/4	1,269.76	1/4	893.17	1/4	505.64	1/4	117.64	1/4		1/4		1/4		1/4	
1/2	2,034.11	1/2	1,646.10	1/2	1,261.99	1/2	885.09	1/2	497.55	1/2	109.56	1/2		1/2		1/2		1/2	
3/4	2,026.02	3/4	1,638.02	3/4	1,254.22	3/4	877.02	3/4	489.47	3/4	101.48	3/4		3/4		3/4		3/4	
3	2,017.94	3	1,629.94	3	1,246.45	3	868.94	3	481.39	3	93.39	3		3		3		3	
1/4	2,009.86	1/4	1,621.85	1/4	1,238.68	1/4	860.88	1/4	473.30	1/4	85.31	1/4		1/4		1/4		1/4	
1/2	2,001.77	1/2	1,613.77	1/2	1,230.91	1/2	852.81	1/2	465.22	1/2	77.23	1/2		1/2		1/2		1/2	
3/4	1,993.69	3/4	1,605.69	3/4	1,223.14	3/4	844.74	3/4	457.14	3/4	69.14	3/4		3/4		3/4		3/4	
4	1,985.61	4	1,597.60	4	1,215.37	4	836.67	4	449.05	4	61.06	4		4		4		4	
1/4	1,977.52	1/4	1,589.52	1/4	1,207.60	1/4	828.60	1/4	440.97	1/4	53.82	1/4		1/4		1/4		1/4	
1/2	1,969.44	1/2	1,581.44	1/2	1,199.83	1/2	820.53	1/2	432.89	1/2	46.58	1/2		1/2		1/2		1/2	
3/4	1,961.36	3/4	1,573.35	3/4	1,192.06	3/4	812.46	3/4	424.80	3/4	39.34	3/4		3/4		3/4		3/4	
5	1,953.27	5	1,565.27	5	1,184.29	5	804.40	5	416.72	5	32.10	5		5		5		5	
1/4	1,945.19	1/4	1,557.19	1/4	1,176.52	1/4	796.33	1/4	408.64	1/4	27.04	1/4		1/4		1/4		1/4	
1/2	1,937.11	1/2	1,549.10	1/2	1,168.74	1/2	788.26	1/2	400.55	1/2	21.99	1/2		1/2		1/2		1/2	
3/4	1,929.02	3/4	1,541.02	3/4	1,160.97	3/4	780.19	3/4	392.47	3/4	16.94	3/4		3/4		3/4		3/4	
6	1,920.94	6	1,532.94	6	1,153.20	6	772.12	6	384.39	6	11.89	6		6		6		6	
1/4	1,912.86	1/4	1,524.85	1/4	1,145.43	1/4	764.05	1/4	376.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,904.77	1/2	1,516.77	1/2	1,137.66	1/2	755.99	1/2	368.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,896.69	3/4	1,508.69	3/4	1,129.89	3/4	747.92	3/4	360.14	3/4		3/4		3/4		3/4		3/4	
7	1,888.61	7	1,500.60	7	1,122.12	7	739.85	7	352.06	7		7		7		7		7	
1/4	1,880.52	1/4	1,492.52	1/4	1,114.35	1/4	731.78	1/4	343.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,872.44	1/2	1,484.44	1/2	1,106.58	1/2	723.71	1/2	335.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,864.36	3/4	1,476.35	3/4	1,098.81	3/4	715.64	3/4	327.81	3/4		3/4		3/4		3/4		3/4	
8	1,856.27	8	1,468.27	8	1,091.04	8	707.58	8	319.72	8		8		8		8		8	
1/4	1,848.19	1/4	1,460.19	1/4	1,083.27	1/4	699.51	1/4	311.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,840.11	1/2	1,452.10	1/2	1,075.50	1/2	691.44	1/2	303.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,832.02	3/4	1,444.02	3/4	1,067.73	3/4	683.37	3/4	295.47	3/4		3/4		3/4		3/4		3/4	
9	1,823.94	9	1,435.94	9	1,059.96	9	675.30	9	287.39	9		9		9		9		9	
1/4	1,815.86	1/4	1,427.85	1/4	1,052.19	1/4	667.23	1/4	279.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,807.77	1/2	1,419.77	1/2	1,044.42	1/2	659.17	1/2	271.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,799.69	3/4	1,411.69	3/4	1,036.65	3/4	651.10	3/4	263.14	3/4		3/4		3/4		3/4		3/4	
10	1,791.60	10	1,403.60	10	1,028.88	10	643.03	10	255.06	10		10		10		10		10	
1/4	1,783.52	1/4	1,395.52	1/4	1,021.11	1/4	634.95	1/4	246.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,775.44	1/2	1,387.43	1/2	1,013.33	1/2	626.87	1/2	238.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,767.35	3/4	1,379.35	3/4	1,005.56	3/4	618.80	3/4	230.81	3/4		3/4		3/4		3/4		3/4	
11	1,759.27	11	1,371.27	11	997.78	11	610.72	11	222.72	11		11		11		11		11	
1/4	1,751.19	1/4	1,363.38	1/4	989.81	1/4	602.63	1/4	214.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,743.10	1/2	1,355.48	1/2	981.85	1/2	594.55	1/2	206.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,735.02	3/4	1,347.59	3/4	973.88	3/4	586.47	3/4	198.47	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023



BARGE "CTC 29146"

3 PORT ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	4,740.45	0	4,522.23	0	4,281.89	0	4,023.09	0	3,756.12	0	3,439.49	0	3,078.13	0	2,716.69	0	2,355.11		
1/4		1/4	4,738.61	1/4	4,517.42	1/4	4,276.69	1/4	4,017.53	1/4	3,750.56	1/4	3,431.99	1/4	3,070.60	1/4	2,709.16	1/4	2,347.57		
1/2		1/2	4,735.51	1/2	4,512.58	1/2	4,271.45	1/2	4,011.97	1/2	3,745.00	1/2	3,424.47	1/2	3,063.07	1/2	2,701.63	1/2	2,340.03		
3/4		3/4	4,732.41	3/4	4,507.75	3/4	4,266.22	3/4	4,006.41	3/4	3,739.44	3/4	3,416.95	3/4	3,055.54	3/4	2,694.10	3/4	2,332.49		
1		1	4,729.31	1	4,502.91	1	4,260.99	1	4,000.85	1	3,733.88	1	3,409.43	1	3,048.01	1	2,686.57	1	2,324.95		
1/4		1/4	4,726.21	1/4	4,498.07	1/4	4,255.75	1/4	3,995.29	1/4	3,728.31	1/4	3,401.91	1/4	3,040.48	1/4	2,679.04	1/4	2,317.41		
1/2		1/2	4,721.85	1/2	4,493.20	1/2	4,250.49	1/2	3,989.72	1/2	3,722.75	1/2	3,394.38	1/2	3,032.95	1/2	2,671.51	1/2	2,309.88		
3/4		3/4	4,717.50	3/4	4,488.33	3/4	4,245.22	3/4	3,984.16	3/4	3,717.19	3/4	3,386.85	3/4	3,025.42	3/4	2,663.98	3/4	2,302.34		
2		2	4,713.14	2	4,483.46	2	4,239.96	2	3,978.60	2	3,711.63	2	3,379.32	2	3,017.89	2	2,656.45	2	2,294.80		
1/4		1/4	4,708.79	1/4	4,478.59	1/4	4,234.70	1/4	3,973.04	1/4	3,706.07	1/4	3,371.79	1/4	3,010.36	1/4	2,648.92	1/4	2,287.26		
1/2		1/2	4,703.52	1/2	4,473.69	1/2	4,229.40	1/2	3,967.48	1/2	3,700.50	1/2	3,364.26	1/2	3,002.83	1/2	2,641.39	1/2	2,279.72		
3/4		3/4	4,698.25	3/4	4,468.79	3/4	4,224.11	3/4	3,961.91	3/4	3,694.94	3/4	3,356.73	3/4	2,995.30	3/4	2,633.86	3/4	2,272.18		
3		3	4,692.98	3	4,463.89	3	4,218.81	3	3,956.35	3	3,689.38	3	3,349.20	3	2,987.77	3	2,626.33	3	2,264.64		
1/4		1/4	4,687.72	1/4	4,458.99	1/4	4,213.52	1/4	3,950.79	1/4	3,683.82	1/4	3,341.67	1/4	2,980.24	1/4	2,618.80	1/4	2,257.10		
1/2		1/2	4,682.78	1/2	4,454.06	1/2	4,208.19	1/2	3,945.23	1/2	3,678.26	1/2	3,334.14	1/2	2,972.71	1/2	2,611.27	1/2	2,249.56		
3/4		3/4	4,677.84	3/4	4,449.13	3/4	4,202.87	3/4	3,939.67	3/4	3,672.70	3/4	3,326.61	3/4	2,965.18	3/4	2,603.74	3/4	2,242.02		
4		4	4,672.90	4	4,444.20	4	4,197.54	4	3,934.10	4	3,667.13	4	3,319.08	4	2,957.65	4	2,596.21	4	2,234.48		
1/4		1/4	4,667.96	1/4	4,439.27	1/4	4,192.22	1/4	3,928.54	1/4	3,661.57	1/4	3,311.55	1/4	2,950.12	1/4	2,588.68	1/4	2,226.94		
1/2		1/2	4,663.36	1/2	4,434.31	1/2	4,186.87	1/2	3,922.98	1/2	3,656.01	1/2	3,304.03	1/2	2,942.59	1/2	2,581.15	1/2	2,219.40		
3/4		3/4	4,658.76	3/4	4,429.35	3/4	4,181.51	3/4	3,917.42	3/4	3,650.45	3/4	3,296.50	3/4	2,935.06	3/4	2,573.62	3/4	2,211.87		
5		5	4,654.16	5	4,424.39	5	4,176.16	5	3,911.86	5	3,644.89	5	3,288.97	5	2,927.53	5	2,566.09	5	2,204.33		
1/4		1/4	4,649.56	1/4	4,419.43	1/4	4,170.80	1/4	3,906.30	1/4	3,639.32	1/4	3,281.44	1/4	2,920.00	1/4	2,558.56	1/4	2,196.79		
1/2		1/2	4,644.93	1/2	4,414.43	1/2	4,165.42	1/2	3,900.73	1/2	3,632.53	1/2	3,273.91	1/2	2,912.47	1/2	2,551.04	1/2	2,189.25		
3/4		3/4	4,640.30	3/4	4,409.44	3/4	4,160.03	3/4	3,895.17	3/4	3,625.73	3/4	3,266.38	3/4	2,904.94	3/4	2,543.51	3/4	2,181.71		
6		6	4,635.67	6	4,404.45	6	4,154.65	6	3,889.61	6	3,618.93	6	3,258.85	6	2,897.41	6	2,535.98	6	2,174.17		
1/4		1/4	4,631.04	1/4	4,399.46	1/4	4,149.26	1/4	3,884.05	1/4	3,612.13	1/4	3,251.32	1/4	2,889.88	1/4	2,528.45	1/4	2,166.63		
1/2		1/2	4,626.39	1/2	4,394.44	1/2	4,143.85	1/2	3,878.49	1/2	3,604.62	1/2	3,243.79	1/2	2,882.35	1/2	2,520.91	1/2	2,159.09		
3/4		3/4	4,621.73	3/4	4,389.42	3/4	4,138.43	3/4	3,872.92	3/4	3,597.10	3/4	3,236.26	3/4	2,874.82	3/4	2,513.38	3/4	2,151.55		
7		7	4,617.07	7	4,384.40	7	4,133.02	7	3,867.36	7	3,589.58	7	3,228.73	7	2,867.29	7	2,505.85	7	2,144.01		
1/4		1/4	4,612.41	1/4	4,379.38	1/4	4,127.60	1/4	3,861.80	1/4	3,582.07	1/4	3,221.20	1/4	2,859.76	1/4	2,498.32	1/4	2,136.47		
1/2		1/2	4,607.72	1/2	4,374.33	1/2	4,122.16	1/2	3,856.24	1/2	3,574.56	1/2	3,213.67	1/2	2,852.23	1/2	2,490.79	1/2	2,128.93		
3/4		3/4	4,603.03	3/4	4,369.28	3/4	4,116.71	3/4	3,850.68	3/4	3,567.06	3/4	3,206.14	3/4	2,844.70	3/4	2,483.26	3/4	2,121.40		
8		8	4,598.34	8	4,364.23	8	4,111.27	8	3,845.11	8	3,559.55	8	3,198.61	8	2,837.17	8	2,475.72	8	2,113.86		
1/4		1/4	4,593.65	1/4	4,359.18	1/4	4,105.82	1/4	3,839.55	1/4	3,552.05	1/4	3,191.08	1/4	2,829.64	1/4	2,468.19	1/4	2,106.32		
1/2		1/2	4,588.93	1/2	4,354.08	1/2	4,100.35	1/2	3,833.99	1/2	3,544.54	1/2	3,183.55	1/2	2,822.11	1/2	2,460.65	1/2	2,098.78		
3/4		3/4	4,584.22	3/4	4,348.98	3/4	4,094.87	3/4	3,828.43	3/4	3,537.04	3/4	3,176.02	3/4	2,814.58	3/4	2,453.12	3/4	2,091.24		
9		9	4,579.50	9	4,343.87	9	4,089.40	9	3,822.87	9	3,529.54	9	3,168.49	9	2,807.05	9	2,445.58	9	2,083.70		
1/4		1/4	4,574.78	1/4	4,338.77	1/4	4,083.92	1/4	3,817.30	1/4	3,522.03	1/4	3,160.96	1/4	2,799.52	1/4	2,438.04	1/4	2,076.16		
1/2		1/2	4,570.03	1/2	4,333.63	1/2	4,078.42	1/2	3,811.74	1/2	3,514.53	1/2	3,153.43	1/2	2,791.99	1/2	2,430.50	1/2	2,068.62		
3/4		3/4	4,565.28	3/4	4,328.49	3/4	4,072.91	3/4	3,806.18	3/4	3,507.02	3/4	3,145.90	3/4	2,784.46	3/4	2,422.96	3/4	2,061.08		
10		10	4,560.53	10	4,323.34	10	4,067.41	10	3,800.62	10	3,499.52	10	3,138.37	10	2,776.93	10	2,415.42	10	2,053.54		
1/4		1/4	4,555.78	1/4	4,318.20	1/4	4,061.90	1/4	3,795.06	1/4	3,492.01	1/4	3,130.84	1/4	2,769.40	1/4	2,407.88	1/4	2,046.00		
1/2		1/2	4,551.00	1/2	4,313.03	1/2	4,056.36	1/2	3,789.50	1/2	3,484.51	1/2	3,123.31	1/2	2,761.87	1/2	2,400.35	1/2	2,038.46		
3/4		3/4	4,546.22	3/4	4,307.85	3/4	4,050.83	3/4	3,783.93	3/4	3,477.01	3/4	3,115.78	3/4	2,754.34	3/4	2,392.81	3/4	2,030.92		
11		11	4,541.44	11	4,302.68	11	4,045.29	11	3,778.37	11	3,469.50	11	3,108.25	11	2,746.81	11	2,385.27	11	2,023.39		
1/4		1/4	4,536.66	1/4	4,297.50	1/4	4,039.76	1/4	3,772.81	1/4	3,462.00	1/4	3,100.72	1/4	2,739.28	1/4	2,377.73	1/4	2,015.85		
1/2		1/2	4,531.85	1/2	4,292.30	1/2	4,034.20	1/2	3,767.25	1/2	3,454.50	1/2	3,093.19	1/2	2,731.75	1/2	2,370.19	1/2	2,008.31		
3/4		3/4	4,742.29	3/4	4,527.04	3/4	4,287.10	3/4	4,028.65	3/4	3,761.69	3/4	3,446.99	3/4	3,085.66	3/4	2,724.22	3/4	2,362.65	3/4	2,000.77

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 29146"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	1,993.23	0	1,631.35	0	1,269.47	0	908.00	0	547.12	0	185.18	0		0		0		0	
1/4	1,985.69	1/4	1,623.81	1/4	1,261.93	1/4	900.49	1/4	539.58	1/4	177.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,978.15	1/2	1,616.27	1/2	1,254.39	1/2	892.98	1/2	532.04	1/2	170.09	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,970.61	3/4	1,608.73	3/4	1,246.85	3/4	885.47	3/4	524.50	3/4	162.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,963.07	1	1,601.19	1	1,239.31	1	877.96	1	516.96	1	155.01	1	1	1	1	1	1	1	1
1/4	1,955.53	1/4	1,593.65	1/4	1,231.77	1/4	870.46	1/4	509.42	1/4	147.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,947.99	1/2	1,586.11	1/2	1,224.23	1/2	862.95	1/2	501.88	1/2	139.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,940.45	3/4	1,578.57	3/4	1,216.69	3/4	855.44	3/4	494.34	3/4	132.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,932.92	2	1,571.03	2	1,209.15	2	847.93	2	486.80	2	124.85	2	2	2	2	2	2	2	2
1/4	1,925.38	1/4	1,563.49	1/4	1,201.61	1/4	840.42	1/4	479.25	1/4	117.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,917.84	1/2	1,555.96	1/2	1,194.07	1/2	832.92	1/2	471.71	1/2	109.77	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,910.30	3/4	1,548.42	3/4	1,186.53	3/4	825.42	3/4	464.17	3/4	102.23	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,902.76	3	1,540.88	3	1,179.00	3	817.92	3	456.63	3	94.69	3	3	3	3	3	3	3	3
1/4	1,895.22	1/4	1,533.34	1/4	1,171.46	1/4	810.42	1/4	449.09	1/4	87.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,887.68	1/2	1,525.80	1/2	1,163.92	1/2	802.93	1/2	441.55	1/2	79.61	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,880.14	3/4	1,518.26	3/4	1,156.38	3/4	795.44	3/4	434.01	3/4	72.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,872.60	4	1,510.72	4	1,148.84	4	787.94	4	426.47	4	64.53	4	4	4	4	4	4	4	4
1/4	1,865.06	1/4	1,503.18	1/4	1,141.30	1/4	780.45	1/4	418.93	1/4	56.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,857.52	1/2	1,495.64	1/2	1,133.76	1/2	772.94	1/2	411.39	1/2	50.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,849.98	3/4	1,488.10	3/4	1,126.22	3/4	765.42	3/4	403.85	3/4	43.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,842.44	5	1,480.56	5	1,118.68	5	757.91	5	396.31	5	36.72	5	5	5	5	5	5	5	5
1/4	1,834.91	1/4	1,473.02	1/4	1,111.14	1/4	750.39	1/4	388.77	1/4	29.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,827.37	1/2	1,465.48	1/2	1,103.60	1/2	742.87	1/2	381.23	1/2	25.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,819.83	3/4	1,457.95	3/4	1,096.06	3/4	735.34	3/4	373.69	3/4	20.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,812.29	6	1,450.41	6	1,088.52	6	727.82	6	366.15	6	15.83	6	6	6	6	6	6	6	6
1/4	1,804.75	1/4	1,442.87	1/4	1,080.99	1/4	720.29	1/4	358.61	1/4	11.12	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,797.21	1/2	1,435.33	1/2	1,073.45	1/2	712.77	1/2	351.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,789.67	3/4	1,427.79	3/4	1,065.91	3/4	705.24	3/4	343.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,782.13	7	1,420.25	7	1,058.37	7	697.72	7	335.99	7		7	7	7	7	7	7	7	7
1/4	1,774.59	1/4	1,412.71	1/4	1,050.83	1/4	690.19	1/4	328.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,767.05	1/2	1,405.17	1/2	1,043.29	1/2	682.66	1/2	320.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,759.51	3/4	1,397.63	3/4	1,035.75	3/4	675.14	3/4	313.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,751.97	8	1,390.09	8	1,028.21	8	667.61	8	305.82	8		8	8	8	8	8	8	8	8
1/4	1,744.44	1/4	1,382.55	1/4	1,020.67	1/4	660.09	1/4	298.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,736.90	1/2	1,375.01	1/2	1,013.15	1/2	652.56	1/2	290.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,729.36	3/4	1,367.48	3/4	1,005.63	3/4	645.04	3/4	283.20	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,721.82	9	1,359.94	9	998.11	9	637.51	9	275.66	9		9	9	9	9	9	9	9	9
1/4	1,714.28	1/4	1,352.40	1/4	990.59	1/4	629.98	1/4	268.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,706.74	1/2	1,344.86	1/2	983.08	1/2	622.46	1/2	260.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,699.20	3/4	1,337.32	3/4	975.54	3/4	614.93	3/4	253.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,691.66	10	1,329.78	10	968.07	10	607.41	10	245.50	10		10	10	10	10	10	10	10	10
1/4	1,684.12	1/4	1,322.24	1/4	960.56	1/4	599.88	1/4	237.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,676.58	1/2	1,314.70	1/2	953.05	1/2	592.35	1/2	230.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,669.04	3/4	1,307.16	3/4	945.54	3/4	584.81	3/4	222.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,661.50	11	1,299.62	11	938.03	11	577.28	11	215.34	11		11	11	11	11	11	11	11	11
1/4	1,653.96	1/4	1,292.08	1/4	930.52	1/4	569.74	1/4	207.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,646.43	1/2	1,284.54	1/2	923.02	1/2	562.20	1/2	200.26	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,638.89	3/4	1,277.00	3/4	915.51	3/4	554.66	3/4	192.72	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: 01/30/2020 CL
CALCULATED: 01/30/2020 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 29146"

3 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 15'-06 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	4,722.28	0	4,506.96	0	4,266.93	0	4,008.39	0	3,741.34	0	3,426.52	0	3,065.61	0	2,704.66	0	2,343.67
1/4		1/4	4,720.44	1/4	4,502.15	1/4	4,261.72	1/4	4,002.83	1/4	3,735.78	1/4	3,419.01	1/4	3,058.09	1/4	2,697.14	1/4	2,336.14
1/2		1/2	4,718.59	1/2	4,497.34	1/2	4,256.51	1/2	3,997.27	1/2	3,730.21	1/2	3,411.50	1/2	3,050.57	1/2	2,689.62	1/2	2,328.61
3/4		3/4	4,715.49	3/4	4,492.50	3/4	4,251.28	3/4	3,991.71	3/4	3,724.65	3/4	3,403.98	3/4	3,043.05	3/4	2,682.10	3/4	2,321.08
1		1	4,712.39	1	4,487.65	1	4,246.04	1	3,986.14	1	3,719.08	1	3,396.47	1	3,035.53	1	2,674.58	1	2,313.55
1/4		1/4	4,709.29	1/4	4,482.81	1/4	4,240.81	1/4	3,980.58	1/4	3,713.52	1/4	3,388.95	1/4	3,028.01	1/4	2,667.06	1/4	2,306.02
1/2		1/2	4,706.19	1/2	4,477.97	1/2	4,235.57	1/2	3,975.01	1/2	3,707.96	1/2	3,381.44	1/2	3,020.49	1/2	2,659.55	1/2	2,298.49
3/4		3/4	4,701.84	3/4	4,473.10	3/4	4,230.30	3/4	3,969.45	3/4	3,702.39	3/4	3,373.92	3/4	3,012.97	3/4	2,652.03	3/4	2,290.96
2		2	4,697.48	2	4,468.23	2	4,225.04	2	3,963.89	2	3,696.83	2	3,366.40	2	3,005.45	2	2,644.51	2	2,283.43
1/4		1/4	4,693.12	1/4	4,463.36	1/4	4,219.77	1/4	3,958.32	1/4	3,691.27	1/4	3,358.88	1/4	2,997.93	1/4	2,637.00	1/4	2,275.90
1/2		1/2	4,688.77	1/2	4,458.49	1/2	4,214.51	1/2	3,952.76	1/2	3,685.70	1/2	3,351.36	1/2	2,990.41	1/2	2,629.48	1/2	2,268.37
3/4		3/4	4,683.50	3/4	4,453.58	3/4	4,209.21	3/4	3,947.20	3/4	3,680.14	3/4	3,343.84	3/4	2,982.89	3/4	2,621.97	3/4	2,260.83
3		3	4,678.23	3	4,448.68	3	4,203.91	3	3,941.63	3	3,674.57	3	3,336.32	3	2,975.37	3	2,614.45	3	2,253.30
1/4		1/4	4,672.96	1/4	4,443.78	1/4	4,198.62	1/4	3,936.07	1/4	3,669.01	1/4	3,328.80	1/4	2,967.85	1/4	2,606.93	1/4	2,245.77
1/2		1/2	4,667.70	1/2	4,438.88	1/2	4,193.32	1/2	3,930.51	1/2	3,663.45	1/2	3,321.28	1/2	2,960.33	1/2	2,599.42	1/2	2,238.24
3/4		3/4	4,662.76	3/4	4,433.95	3/4	4,188.00	3/4	3,924.94	3/4	3,657.88	3/4	3,313.76	3/4	2,952.81	3/4	2,591.90	3/4	2,230.71
4		4	4,657.82	4	4,429.01	4	4,182.67	4	3,919.38	4	3,652.32	4	3,306.24	4	2,945.29	4	2,584.39	4	2,223.18
1/4		1/4	4,652.88	1/4	4,424.08	1/4	4,177.34	1/4	3,913.81	1/4	3,646.76	1/4	3,298.72	1/4	2,937.77	1/4	2,576.87	1/4	2,215.65
1/2		1/2	4,647.94	1/2	4,419.15	1/2	4,172.02	1/2	3,908.25	1/2	3,641.19	1/2	3,291.20	1/2	2,930.25	1/2	2,569.35	1/2	2,208.12
3/4		3/4	4,643.33	3/4	4,414.19	3/4	4,166.66	3/4	3,902.69	3/4	3,635.63	3/4	3,283.68	3/4	2,922.73	3/4	2,561.84	3/4	2,200.59
5		5	4,638.73	5	4,409.23	5	4,161.30	5	3,897.12	5	3,630.07	5	3,276.16	5	2,915.21	5	2,554.32	5	2,193.06
1/4		1/4	4,634.13	1/4	4,404.26	1/4	4,155.95	1/4	3,891.56	1/4	3,624.50	1/4	3,268.64	1/4	2,907.69	1/4	2,546.80	1/4	2,185.53
1/2		1/2	4,629.53	1/2	4,399.30	1/2	4,150.59	1/2	3,886.00	1/2	3,618.94	1/2	3,261.12	1/2	2,900.17	1/2	2,539.29	1/2	2,178.00
3/4		3/4	4,624.90	3/4	4,394.31	3/4	4,145.20	3/4	3,880.43	3/4	3,612.14	3/4	3,253.60	3/4	2,892.65	3/4	2,531.77	3/4	2,170.51
6		6	4,620.26	6	4,389.32	6	4,139.82	6	3,874.87	6	3,605.34	6	3,246.08	6	2,885.13	6	2,524.26	6	2,163.03
1/4		1/4	4,615.63	1/4	4,384.32	1/4	4,134.43	1/4	3,869.30	1/4	3,598.54	1/4	3,238.56	1/4	2,877.61	1/4	2,516.74	1/4	2,155.54
1/2		1/2	4,611.00	1/2	4,379.33	1/2	4,129.04	1/2	3,863.74	1/2	3,591.74	1/2	3,231.04	1/2	2,870.09	1/2	2,509.22	1/2	2,148.05
3/4		3/4	4,606.34	3/4	4,374.31	3/4	4,123.63	3/4	3,858.18	3/4	3,584.22	3/4	3,223.52	3/4	2,862.57	3/4	2,501.71	3/4	2,140.59
7		7	4,601.68	7	4,369.29	7	4,118.21	7	3,852.61	7	3,576.70	7	3,216.00	7	2,855.05	7	2,494.19	7	2,133.13
1/4		1/4	4,597.02	1/4	4,364.27	1/4	4,112.79	1/4	3,847.05	1/4	3,569.18	1/4	3,208.48	1/4	2,847.53	1/4	2,486.67	1/4	2,125.68
1/2		1/2	4,592.36	1/2	4,359.24	1/2	4,107.38	1/2	3,841.49	1/2	3,561.66	1/2	3,200.96	1/2	2,840.01	1/2	2,479.16	1/2	2,118.22
3/4		3/4	4,587.67	3/4	4,354.19	3/4	4,101.93	3/4	3,835.92	3/4	3,554.15	3/4	3,193.44	3/4	2,832.49	3/4	2,471.64	3/4	2,110.76
8		8	4,582.98	8	4,349.14	8	4,096.48	8	3,830.36	8	3,546.64	8	3,185.92	8	2,824.97	8	2,464.12	8	2,103.30
1/4		1/4	4,578.29	1/4	4,344.09	1/4	4,091.04	1/4	3,824.79	1/4	3,539.14	1/4	3,178.40	1/4	2,817.45	1/4	2,456.60	1/4	2,095.84
1/2		1/2	4,573.60	1/2	4,339.03	1/2	4,085.59	1/2	3,819.23	1/2	3,531.63	1/2	3,170.88	1/2	2,809.93	1/2	2,449.08	1/2	2,088.38
3/4		3/4	4,568.87	3/4	4,333.93	3/4	4,080.11	3/4	3,813.67	3/4	3,524.12	3/4	3,163.36	3/4	2,802.41	3/4	2,441.56	3/4	2,080.92
9		9	4,564.15	9	4,328.83	9	4,074.64	9	3,808.10	9	3,516.61	9	3,155.84	9	2,794.89	9	2,434.03	9	2,073.46
1/4		1/4	4,559.43	1/4	4,323.72	1/4	4,069.16	1/4	3,802.54	1/4	3,509.10	1/4	3,148.32	1/4	2,787.37	1/4	2,426.51	1/4	2,066.00
1/2		1/2	4,554.71	1/2	4,318.62	1/2	4,063.68	1/2	3,796.98	1/2	3,501.60	1/2	3,140.80	1/2	2,779.85	1/2	2,418.98	1/2	2,058.54
3/4		3/4	4,549.96	3/4	4,313.48	3/4	4,058.17	3/4	3,791.41	3/4	3,494.09	3/4	3,133.28	3/4	2,772.33	3/4	2,411.45	3/4	2,051.08
10		10	4,545.21	10	4,308.33	10	4,052.67	10	3,785.85	10	3,486.58	10	3,125.76	10	2,764.81	10	2,403.92	10	2,043.63
1/4		1/4	4,540.46	1/4	4,303.18	1/4	4,047.16	1/4	3,780.29	1/4	3,479.07	1/4	3,118.24	1/4	2,757.29	1/4	2,396.39	1/4	2,036.17
1/2		1/2	4,535.71	1/2	4,298.04	1/2	4,041.65	1/2	3,774.72	1/2	3,471.56	1/2	3,110.72	1/2	2,749.77	1/2	2,388.86	1/2	2,028.71
3/4		3/4	4,530.93	3/4	4,292.86	3/4	4,036.12	3/4	3,769.16	3/4	3,464.06	3/4	3,103.20	3/4	2,742.25	3/4	2,381.33	3/4	2,021.25
11		11	4,526.15	11	4,287.69	11	4,030.58	11	3,763.59	11	3,456.55	11	3,095.68	11	2,734.73	11	2,373.80	11	2,013.79
1/4		1/4	4,521.36	1/4	4,282.51	1/4	4,025.04	1/4	3,758.03	1/4	3,449.04	1/4	3,088.16	1/4	2,727.21	1/4	2,366.26	1/4	2,006.33
1/2		1/2	4,516.58	1/2	4,277.34	1/2	4,019.50	1/2	3,752.47	1/2	3,441.53	1/2	3,080.65	1/2	2,719.69	1/2	2,358.73	1/2	1,998.87
3/4		3/4	4,511.77	3/4	4,272.13	3/4	4,013.94	3/4	3,746.90	3/4	3,434.02	3/4	3,073.13	3/4	2,712.17	3/4	2,351.20	3/4	1,991.41

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 29146"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "E2MS 316"

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	1,983.95	0	1,624.24	0	1,263.27	0	914.94	0	554.16	0	192.72	0		0		0		0	
1/4	1,976.49	1/4	1,616.72	1/4	1,255.91	1/4	907.51	1/4	546.62	1/4	185.19	1/4		1/4		1/4		1/4	
1/2	1,969.03	1/2	1,609.19	1/2	1,248.55	1/2	900.09	1/2	539.09	1/2	177.66	1/2		1/2		1/2		1/2	
3/4	1,961.58	3/4	1,601.66	3/4	1,241.30	3/4	892.56	3/4	531.56	3/4	170.12	3/4		3/4		3/4		3/4	
1	1,954.12	1	1,594.14	1	1,234.04	1	885.03	1	524.03	1	162.58	1		1		1		1	
1/4	1,946.66	1/4	1,586.61	1/4	1,226.79	1/4	877.49	1/4	516.50	1/4	155.05	1/4		1/4		1/4		1/4	
1/2	1,939.20	1/2	1,579.08	1/2	1,219.54	1/2	869.96	1/2	508.97	1/2	147.51	1/2		1/2		1/2		1/2	
3/4	1,931.74	3/4	1,571.55	3/4	1,212.29	3/4	862.43	3/4	501.44	3/4	139.97	3/4		3/4		3/4		3/4	
2	1,924.28	2	1,564.03	2	1,205.04	2	854.90	2	493.91	2	132.42	2		2		2		2	
1/4	1,916.82	1/4	1,556.50	1/4	1,197.79	1/4	847.37	1/4	486.38	1/4	124.88	1/4		1/4		1/4		1/4	
1/2	1,909.36	1/2	1,548.97	1/2	1,190.54	1/2	839.84	1/2	478.85	1/2	117.34	1/2		1/2		1/2		1/2	
3/4	1,901.90	3/4	1,541.44	3/4	1,183.29	3/4	832.32	3/4	471.32	3/4	109.80	3/4		3/4		3/4		3/4	
3	1,894.44	3	1,533.92	3	1,176.03	3	824.80	3	463.79	3	102.25	3		3		3		3	
1/4	1,886.98	1/4	1,526.39	1/4	1,168.78	1/4	817.28	1/4	456.26	1/4	94.71	1/4		1/4		1/4		1/4	
1/2	1,879.53	1/2	1,518.86	1/2	1,161.53	1/2	809.76	1/2	448.73	1/2	87.17	1/2		1/2		1/2		1/2	
3/4	1,872.07	3/4	1,511.33	3/4	1,154.29	3/4	802.24	3/4	441.20	3/4	79.63	3/4		3/4		3/4		3/4	
4	1,864.61	4	1,503.81	4	1,147.04	4	794.73	4	433.67	4	72.08	4		4		4		4	
1/4	1,857.15	1/4	1,496.28	1/4	1,139.80	1/4	787.21	1/4	426.14	1/4	64.54	1/4		1/4		1/4		1/4	
1/2	1,849.69	1/2	1,488.75	1/2	1,132.56	1/2	779.69	1/2	418.61	1/2	57.00	1/2		1/2		1/2		1/2	
3/4	1,842.23	3/4	1,481.22	3/4	1,125.31	3/4	772.18	3/4	411.08	3/4	50.24	3/4		3/4		3/4		3/4	
5	1,834.77	5	1,473.70	5	1,118.07	5	764.66	5	403.55	5	43.49	5		5		5		5	
1/4	1,827.31	1/4	1,466.17	1/4	1,110.83	1/4	757.15	1/4	396.02	1/4	36.73	1/4		1/4		1/4		1/4	
1/2	1,819.85	1/2	1,458.64	1/2	1,103.59	1/2	749.63	1/2	388.49	1/2	29.97	1/2		1/2		1/2		1/2	
3/4	1,812.35	3/4	1,451.11	3/4	1,096.35	3/4	742.12	3/4	380.96	3/4	25.26	3/4		3/4		3/4		3/4	
6	1,804.85	6	1,443.59	6	1,089.11	6	734.60	6	373.43	6	20.55	6		6		6		6	
1/4	1,797.35	1/4	1,436.06	1/4	1,081.87	1/4	727.08	1/4	365.90	1/4	15.83	1/4		1/4		1/4		1/4	
1/2	1,789.85	1/2	1,428.53	1/2	1,074.63	1/2	719.57	1/2	358.36	1/2	11.12	1/2		1/2		1/2		1/2	
3/4	1,782.32	3/4	1,421.00	3/4	1,067.39	3/4	712.05	3/4	350.83	3/4		3/4		3/4		3/4		3/4	
7	1,774.79	7	1,413.48	7	1,060.14	7	704.54	7	343.30	7		7		7		7		7	
1/4	1,767.27	1/4	1,405.95	1/4	1,052.90	1/4	697.02	1/4	335.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,759.74	1/2	1,398.42	1/2	1,045.66	1/2	689.51	1/2	328.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,752.21	3/4	1,390.90	3/4	1,038.42	3/4	681.99	3/4	320.71	3/4		3/4		3/4		3/4		3/4	
8	1,744.68	8	1,383.37	8	1,031.18	8	674.47	8	313.18	8		8		8		8		8	
1/4	1,737.16	1/4	1,375.84	1/4	1,023.94	1/4	666.96	1/4	305.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,729.63	1/2	1,368.31	1/2	1,016.70	1/2	659.44	1/2	298.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,722.10	3/4	1,360.79	3/4	1,009.46	3/4	651.93	3/4	290.59	3/4		3/4		3/4		3/4		3/4	
9	1,714.57	9	1,353.26	9	1,002.22	9	644.41	9	283.06	9		9		9		9		9	
1/4	1,707.05	1/4	1,345.73	1/4	994.97	1/4	636.90	1/4	275.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,699.52	1/2	1,338.20	1/2	987.73	1/2	629.38	1/2	268.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,691.99	3/4	1,330.68	3/4	980.49	3/4	621.86	3/4	260.48	3/4		3/4		3/4		3/4		3/4	
10	1,684.46	10	1,323.15	10	973.25	10	614.35	10	252.95	10		10		10		10		10	
1/4	1,676.94	1/4	1,315.62	1/4	966.01	1/4	606.83	1/4	245.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,669.41	1/2	1,308.09	1/2	958.77	1/2	599.32	1/2	237.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,661.88	3/4	1,300.57	3/4	951.52	3/4	591.79	3/4	230.36	3/4		3/4		3/4		3/4		3/4	
11	1,654.35	11	1,293.04	11	944.28	11	584.27	11	222.84	11		11		11		11		11	
1/4	1,646.83	1/4	1,285.51	1/4	937.03	1/4	576.74	1/4	215.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,639.30	1/2	1,277.98	1/2	929.79	1/2	569.22	1/2	207.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,631.77	3/4	1,270.63	3/4	922.36	3/4	561.69	3/4	200.25	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2020 CL
CALCULATED: 01/30/2020 CL
RENAMED: 06/15/2023 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2023