



BARGE "HORIZON 3009"

INNAGE TRIM TABLE

FORMERLY "CTCO 3009"

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 267'-00"

May 3, 2007

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HORIZON 3009"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 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	*16.35	0	368.30	0	736.56	0	1,104.81	0	1,473.07	0	1,841.32	0	2,209.58	0	2,577.84	0	2,946.09	0	3,314.35
1/4	21.23	1/4	375.97	1/4	744.23	1/4	1,112.48	1/4	1,480.74	1/4	1,848.99	1/4	2,217.25	1/4	2,585.51	1/4	2,953.76	1/4	3,322.02
1/2	26.11	1/2	383.65	1/2	751.90	1/2	1,120.16	1/2	1,488.42	1/2	1,856.66	1/2	2,224.93	1/2	2,593.18	1/2	2,961.44	1/2	3,329.70
3/4	30.98	3/4	391.32	3/4	759.57	3/4	1,127.83	3/4	1,496.09	3/4	1,864.34	3/4	2,232.60	3/4	2,600.85	3/4	2,969.11	3/4	3,337.37
1	35.86	1	398.99	1	767.24	1	1,135.50	1	1,503.76	1	1,872.01	1	2,240.27	1	2,608.52	1	2,976.78	1	3,345.04
1/4	42.72	1/4	406.66	1/4	774.91	1/4	1,143.17	1/4	1,511.43	1/4	1,879.68	1/4	2,247.94	1/4	2,616.19	1/4	2,984.45	1/4	3,352.71
1/2	49.59	1/2	414.34	1/2	782.59	1/2	1,150.85	1/2	1,519.10	1/2	1,887.35	1/2	2,255.62	1/2	2,623.87	1/2	2,992.13	1/2	3,360.38
3/4	56.45	3/4	422.01	3/4	790.26	3/4	1,158.52	3/4	1,526.77	3/4	1,895.03	3/4	2,263.29	3/4	2,631.54	3/4	2,999.80	3/4	3,368.05
2	63.31	2	429.68	2	797.93	2	1,166.19	2	1,534.44	2	1,902.70	2	2,270.96	2	2,639.21	2	3,007.47	2	3,375.72
1/4	70.75	1/4	437.35	1/4	805.60	1/4	1,173.86	1/4	1,542.11	1/4	1,910.37	1/4	2,278.63	1/4	2,646.88	1/4	3,015.14	1/4	3,383.39
1/2	78.18	1/2	445.02	1/2	813.28	1/2	1,181.54	1/2	1,549.79	1/2	1,918.04	1/2	2,286.30	1/2	2,654.56	1/2	3,022.82	1/2	3,391.07
3/4	85.62	3/4	452.69	3/4	820.95	3/4	1,189.21	3/4	1,557.46	3/4	1,925.72	3/4	2,293.97	3/4	2,662.23	3/4	3,030.49	3/4	3,398.74
3	93.05	3	460.36	3	828.62	3	1,196.88	3	1,565.13	3	1,933.39	3	2,301.64	3	2,669.90	3	3,038.16	3	3,406.41
1/4	100.49	1/4	468.03	1/4	836.29	1/4	1,204.55	1/4	1,572.80	1/4	1,941.06	1/4	2,309.31	1/4	2,677.57	1/4	3,045.83	1/4	3,414.08
1/2	107.93	1/2	475.71	1/2	843.97	1/2	1,212.22	1/2	1,580.48	1/2	1,948.73	1/2	2,316.99	1/2	2,685.25	1/2	3,053.50	1/2	3,421.76
3/4	115.36	3/4	483.38	3/4	851.64	3/4	1,219.89	3/4	1,588.15	3/4	1,956.41	3/4	2,324.66	3/4	2,692.92	3/4	3,061.17	3/4	3,429.43
4	122.80	4	491.05	4	859.31	4	1,227.56	4	1,595.82	4	1,964.08	4	2,332.33	4	2,700.59	4	3,068.84	4	3,437.10
1/4	130.47	1/4	498.72	1/4	866.98	1/4	1,235.23	1/4	1,603.49	1/4	1,971.75	1/4	2,340.00	1/4	2,708.26	1/4	3,076.51	1/4	3,444.77
1/2	138.14	1/2	506.40	1/2	874.66	1/2	1,242.91	1/2	1,611.17	1/2	1,979.42	1/2	2,347.68	1/2	2,715.94	1/2	3,084.19	1/2	3,452.45
3/4	145.81	3/4	514.07	3/4	882.33	3/4	1,250.58	3/4	1,618.84	3/4	1,987.09	3/4	2,355.35	3/4	2,723.61	3/4	3,091.86	3/4	3,460.12
5	153.48	5	521.74	5	890.00	5	1,258.25	5	1,626.51	5	1,994.76	5	2,363.02	5	2,731.28	5	3,099.53	5	3,467.79
1/4	161.15	1/4	529.41	1/4	897.67	1/4	1,265.92	1/4	1,634.18	1/4	2,002.43	1/4	2,370.69	1/4	2,738.95	1/4	3,107.20	1/4	3,475.46
1/2	168.83	1/2	537.09	1/2	905.34	1/2	1,273.60	1/2	1,641.86	1/2	2,010.10	1/2	2,378.37	1/2	2,746.62	1/2	3,114.88	1/2	3,483.14
3/4	176.50	3/4	544.76	3/4	913.01	3/4	1,281.27	3/4	1,649.53	3/4	2,017.78	3/4	2,386.04	3/4	2,754.29	3/4	3,122.55	3/4	3,490.81
6	184.17	6	552.43	6	920.68	6	1,288.94	6	1,657.20	6	2,025.45	6	2,393.71	6	2,761.96	6	3,130.22	6	3,498.48
1/4	191.84	1/4	560.10	1/4	928.35	1/4	1,296.61	1/4	1,664.87	1/4	2,033.12	1/4	2,401.38	1/4	2,769.63	1/4	3,137.89	1/4	3,506.15
1/2	199.52	1/2	567.78	1/2	936.03	1/2	1,304.29	1/2	1,672.54	1/2	2,040.79	1/2	2,409.06	1/2	2,777.31	1/2	3,145.57	1/2	3,513.82
3/4	207.19	3/4	575.45	3/4	943.70	3/4	1,311.96	3/4	1,680.21	3/4	2,048.47	3/4	2,416.73	3/4	2,784.98	3/4	3,153.24	3/4	3,521.49
7	214.86	7	583.12	7	951.37	7	1,319.63	7	1,687.88	7	2,056.14	7	2,424.40	7	2,792.65	7	3,160.91	7	3,529.16
1/4	222.53	1/4	590.79	1/4	959.04	1/4	1,327.30	1/4	1,695.55	1/4	2,063.81	1/4	2,432.07	1/4	2,800.32	1/4	3,168.58	1/4	3,536.83
1/2	230.21	1/2	598.46	1/2	966.72	1/2	1,334.98	1/2	1,703.23	1/2	2,071.48	1/2	2,439.74	1/2	2,808.00	1/2	3,176.26	1/2	3,544.51
3/4	237.88	3/4	606.13	3/4	974.39	3/4	1,342.65	3/4	1,710.90	3/4	2,079.16	3/4	2,447.41	3/4	2,815.67	3/4	3,183.93	3/4	3,552.18
8	245.55	8	613.80	8	982.06	8	1,350.32	8	1,718.57	8	2,086.83	8	2,455.08	8	2,823.34	8	3,191.60	8	3,559.85
1/4	253.22	1/4	621.47	1/4	989.73	1/4	1,357.99	1/4	1,726.24	1/4	2,094.50	1/4	2,462.75	1/4	2,831.01	1/4	3,199.27	1/4	3,567.52
1/2	260.90	1/2	629.15	1/2	997.41	1/2	1,365.66	1/2	1,733.92	1/2	2,102.17	1/2	2,470.43	1/2	2,838.69	1/2	3,206.94	1/2	3,575.20
3/4	268.57	3/4	636.82	3/4	1,005.08	3/4	1,373.33	3/4	1,741.59	3/4	2,109.85	3/4	2,478.10	3/4	2,846.36	3/4	3,214.61	3/4	3,582.87
9	276.24	9	644.49	9	1,012.75	9	1,381.00	9	1,749.26	9	2,117.52	9	2,485.77	9	2,854.03	9	3,222.28	9	3,590.54
1/4	283.91	1/4	652.16	1/4	1,020.42	1/4	1,388.67	1/4	1,756.93	1/4	2,125.19	1/4	2,493.44	1/4	2,861.70	1/4	3,229.95	1/4	3,598.21
1/2	291.58	1/2	659.84	1/2	1,028.10	1/2	1,396.35	1/2	1,764.60	1/2	2,132.86	1/2	2,501.12	1/2	2,869.38	1/2	3,237.63	1/2	3,605.89
3/4	299.25	3/4	667.51	3/4	1,035.77	3/4	1,404.02	3/4	1,772.28	3/4	2,140.53	3/4	2,508.79	3/4	2,877.05	3/4	3,245.30	3/4	3,613.56
10	306.92	10	675.18	10	1,043.44	10	1,411.69	10	1,779.95	10	2,148.20	10	2,516.46	10	2,884.72	10	3,252.97	10	3,621.23
1/4	314.59	1/4	682.85	1/4	1,051.11	1/4	1,419.36	1/4	1,787.62	1/4	2,155.87	1/4	2,524.13	1/4	2,892.39	1/4	3,260.64	1/4	3,628.90
1/2	322.27	1/2	690.53	1/2	1,058.78	1/2	1,427.04	1/2	1,795.29	1/2	2,163.54	1/2	2,531.81	1/2	2,900.06	1/2	3,268.32	1/2	3,636.58
3/4	329.94	3/4	698.20	3/4	1,066.45	3/4	1,434.71	3/4	1,802.97	3/4	2,171.22	3/4	2,539.48	3/4	2,907.73	3/4	3,275.99	3/4	3,644.25
11	337.61	11	705.87	11	1,074.12	11	1,442.38	11	1,810.64	11	2,178.89	11	2,547.15	11	2,915.40	11	3,283.66	11	3,651.92
1/4	345.28	1/4	713.54	1/4	1,081.79	1/4	1,450.05	1/4	1,818.31	1/4	2,186.56	1/4	2,554.82	1/4	2,923.07	1/4	3,291.33	1/4	3,659.59
1/2	352.96	1/2	721.22	1/2	1,089.47	1/2	1,457.73	1/2	1,825.98	1/2	2,194.23	1/2	2,562.50	1/2	2,930.75	1/2	3,299.01	1/2	3,667.26
3/4	360.63	3/4	728.89	3/4	1,097.14	3/4	1,465.40	3/4	1,833.65	3/4	2,201.91	3/4	2,570.17	3/4	2,938.42	3/4	3,306.68	3/4	3,674.93

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

* CAPACITY BELOW STRIKE POINT

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

GAUGE POINT: (8" HATCH) LOCATED 12'-03" OFF CENTERLINE AND 47'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HORIZON 3009"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 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	3,682.60	0	4,050.86	0	4,378.17	0		0		0		0		0		0		0	
1/4	3,690.27	1/4	4,058.53	1/4	4,380.09	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,697.95	1/2	4,066.21	1/2	4,382.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,705.62	3/4	4,073.88	3/4	4,383.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,713.29	1	4,081.55	1	4,385.84	1		1		1		1		1		1		1	
1/4	3,720.96	1/4	4,089.22	1/4	4,386.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,728.64	1/2	4,096.90	1/2	4,387.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,736.31	3/4	4,104.57	3/4	4,387.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,743.98	2	4,112.24	2	4,388.38	2		2		2		2		2		2		2	
1/4	3,751.65	1/4	4,119.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,759.33	1/2	4,127.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,767.00	3/4	4,135.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,774.67	3	4,142.92	3		3		3		3		3		3		3		3	
1/4	3,782.34	1/4	4,150.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,790.02	1/2	4,158.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,797.69	3/4	4,165.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,805.36	4	4,173.61	4		4		4		4		4		4		4		4	
1/4	3,813.03	1/4	4,181.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,820.70	1/2	4,188.96	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,828.37	3/4	4,196.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,836.04	5	4,204.30	5		5		5		5		5		5		5		5	
1/4	3,843.71	1/4	4,211.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,851.39	1/2	4,219.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,859.06	3/4	4,227.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,866.73	6	4,234.99	6		6		6		6		6		6		6		6	
1/4	3,874.40	1/4	4,242.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,882.08	1/2	4,250.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,889.75	3/4	4,258.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,897.42	7	4,265.68	7		7		7		7		7		7		7		7	
1/4	3,905.09	1/4	4,273.35	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,912.77	1/2	4,281.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,920.44	3/4	4,288.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,928.11	8	4,296.36	8		8		8		8		8		8		8		8	
1/4	3,935.78	1/4	4,303.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,943.46	1/2	4,310.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,951.13	3/4	4,317.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,958.80	9	4,324.49	9		9		9		9		9		9		9		9	
1/4	3,966.47	1/4	4,330.24	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,974.14	1/2	4,336.00	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,981.81	3/4	4,341.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,989.48	10	4,347.50	10		10		10		10		10		10		10		10	
1/4	3,997.15	1/4	4,351.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,004.83	1/2	4,356.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,012.50	3/4	4,360.92	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	4,020.17	11	4,365.39	11		11		11		11		11		11		11		11	
1/4	4,027.84	1/4	4,368.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,035.52	1/2	4,371.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,043.19	3/4	4,374.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/1997 INSP.
DECK MEASUREMENTS: 05/03/2007 CL
REPRINTED: 05/03/2007 SW

CANCELS AND SUPERCEDES
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BARGE "HORIZON 3009"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	*13.29		360.63		728.88		1,097.14		1,465.40		1,833.65		2,201.91		2,570.16		2,938.42		3,306.68		3,674.94
1/4	17.72	1/4	368.30	1/4	736.55	1/4	1,104.81	1/4	1,473.07	1/4	1,841.32	1/4	2,209.58	1/4	2,577.83	1/4	2,946.09	1/4	3,314.35	1/4	3,682.61
1/2	22.14	1/2	375.98	1/2	744.23	1/2	1,112.49	1/2	1,480.74	1/2	1,848.99	1/2	2,217.25	1/2	2,585.51	1/2	2,953.77	1/2	3,322.02	1/2	3,688.28
3/4	26.57	3/4	383.65	3/4	751.90	3/4	1,120.16	3/4	1,488.41	3/4	1,856.67	3/4	2,224.93	3/4	2,593.18	3/4	2,961.44	3/4	3,329.69	3/4	3,694.54
1	30.99	1	391.32	1	759.57	1	1,127.83	1	1,496.08	1	1,864.34	1	2,232.60	1	2,600.85	1	2,969.11	1	3,337.36	1	3,705.62
1/4	37.21	1/4	398.99	1/4	767.24	1/4	1,135.50	1/4	1,503.75	1/4	1,872.01	1/4	2,240.27	1/4	2,608.52	1/4	2,976.78	1/4	3,345.03	1/4	3,713.29
1/2	43.43	1/2	406.66	1/2	774.92	1/2	1,143.18	1/2	1,511.43	1/2	1,879.68	1/2	2,247.94	1/2	2,616.20	1/2	2,984.46	1/2	3,352.71	1/2	3,720.50
3/4	49.65	3/4	414.33	3/4	782.59	3/4	1,150.85	3/4	1,519.10	3/4	1,887.36	3/4	2,255.61	3/4	2,623.87	3/4	2,992.13	3/4	3,360.38	3/4	3,727.65
2	55.87	2	422.00	2	790.26	2	1,158.52	2	1,526.77	2	1,895.03	2	2,263.28	2	2,631.54	2	2,999.80	2	3,368.05	2	3,735.31
1/4	63.31	1/4	429.67	1/4	797.93	1/4	1,166.19	1/4	1,534.44	1/4	1,902.70	1/4	2,270.95	1/4	2,639.21	1/4	3,007.47	1/4	3,375.72	1/4	3,743.02
1/2	70.75	1/2	437.35	1/2	805.61	1/2	1,173.86	1/2	1,542.12	1/2	1,910.37	1/2	2,278.63	1/2	2,646.89	1/2	3,015.14	1/2	3,383.40	1/2	3,749.87
3/4	78.18	3/4	445.02	3/4	813.28	3/4	1,181.53	3/4	1,549.79	3/4	1,918.05	3/4	2,286.30	3/4	2,654.56	3/4	3,022.81	3/4	3,391.07	3/4	3,756.13
3	85.62	3	452.69	3	820.95	3	1,189.20	3	1,557.46	3	1,925.72	3	2,293.97	3	2,662.23	3	3,030.48	3	3,398.74	3	3,763.80
1/4	93.06	1/4	460.36	1/4	828.62	1/4	1,196.87	1/4	1,565.13	1/4	1,933.39	1/4	2,301.64	1/4	2,669.90	1/4	3,038.15	1/4	3,406.41	1/4	3,770.07
1/2	100.49	1/2	468.04	1/2	836.30	1/2	1,204.55	1/2	1,572.81	1/2	1,941.06	1/2	2,309.32	1/2	2,677.58	1/2	3,045.83	1/2	3,414.09	1/2	3,776.74
3/4	107.93	3/4	475.71	3/4	843.97	3/4	1,212.22	3/4	1,580.48	3/4	1,948.73	3/4	2,316.99	3/4	2,685.25	3/4	3,053.50	3/4	3,421.76	3/4	3,783.40
4	115.36	4	483.38	4	851.64	4	1,219.89	4	1,588.15	4	1,956.40	4	2,324.66	4	2,692.92	4	3,061.17	4	3,429.43	4	3,791.07
1/4	122.97	1/4	491.05	1/4	859.31	1/4	1,227.56	1/4	1,595.82	1/4	1,964.07	1/4	2,332.33	1/4	2,700.59	1/4	3,068.84	1/4	3,437.10	1/4	3,800.13
1/2	130.59	1/2	498.73	1/2	866.98	1/2	1,235.24	1/2	1,603.50	1/2	1,971.74	1/2	2,340.01	1/2	2,708.26	1/2	3,076.52	1/2	3,444.78	1/2	3,806.87
3/4	138.20	3/4	506.40	3/4	874.65	3/4	1,242.91	3/4	1,611.17	3/4	1,979.42	3/4	2,347.68	3/4	2,715.93	3/4	3,084.19	3/4	3,452.45	3/4	3,813.54
5	145.81	5	514.07	5	882.32	5	1,250.58	5	1,618.84	5	1,987.09	5	2,355.35	5	2,723.60	5	3,091.86	5	3,460.12	5	3,821.19
1/4	153.48	1/4	521.74	1/4	889.99	1/4	1,258.25	1/4	1,626.51	1/4	1,994.76	1/4	2,363.02	1/4	2,731.27	1/4	3,099.53	1/4	3,467.79	1/4	3,828.80
1/2	161.16	1/2	529.42	1/2	897.67	1/2	1,265.93	1/2	1,634.18	1/2	2,002.43	1/2	2,370.70	1/2	2,738.95	1/2	3,107.21	1/2	3,475.46	1/2	3,836.37
3/4	168.83	3/4	537.09	3/4	905.34	3/4	1,273.60	3/4	1,641.85	3/4	2,010.11	3/4	2,378.37	3/4	2,746.62	3/4	3,114.88	3/4	3,483.13	3/4	3,844.02
6	176.50	6	544.76	6	913.01	6	1,281.27	6	1,649.52	6	2,017.78	6	2,386.04	6	2,754.29	6	3,122.55	6	3,490.80	6	3,851.70
1/4	184.17	1/4	552.43	1/4	920.68	1/4	1,288.94	1/4	1,657.19	1/4	2,025.45	1/4	2,393.71	1/4	2,761.96	1/4	3,130.22	1/4	3,498.47	1/4	3,859.41
1/2	191.85	1/2	560.10	1/2	928.36	1/2	1,296.62	1/2	1,664.87	1/2	2,033.12	1/2	2,401.38	1/2	2,769.64	1/2	3,137.90	1/2	3,506.15	1/2	3,867.12
3/4	199.52	3/4	567.77	3/4	936.03	3/4	1,304.29	3/4	1,672.54	3/4	2,040.80	3/4	2,409.05	3/4	2,777.31	3/4	3,145.57	3/4	3,513.82	3/4	3,875.83
7	207.19	7	575.44	7	943.70	7	1,311.96	7	1,680.21	7	2,048.47	7	2,416.72	7	2,784.98	7	3,153.24	7	3,521.49	7	3,883.54
1/4	214.86	1/4	583.11	1/4	951.37	1/4	1,319.63	1/4	1,687.88	1/4	2,056.14	1/4	2,424.39	1/4	2,792.65	1/4	3,160.91	1/4	3,529.16	1/4	3,891.29
1/2	222.54	1/2	590.79	1/2	959.05	1/2	1,327.30	1/2	1,695.56	1/2	2,063.81	1/2	2,432.07	1/2	2,800.33	1/2	3,168.58	1/2	3,536.84	1/2	3,900.00
3/4	230.21	3/4	598.46	3/4	966.72	3/4	1,334.97	3/4	1,703.23	3/4	2,071.49	3/4	2,439.74	3/4	2,808.00	3/4	3,176.25	3/4	3,544.51	3/4	3,908.11
8	237.88	8	606.13	8	974.39	8	1,342.64	8	1,710.90	8	2,079.16	8	2,447.41	8	2,815.67	8	3,183.92	8	3,552.18	8	3,915.82
1/4	245.55	1/4	613.80	1/4	982.06	1/4	1,350.31	1/4	1,718.57	1/4	2,086.83	1/4	2,455.08	1/4	2,823.34	1/4	3,191.59	1/4	3,559.85	1/4	3,923.53
1/2	253.22	1/2	621.48	1/2	989.74	1/2	1,357.99	1/2	1,726.24	1/2	2,094.50	1/2	2,462.76	1/2	2,831.02	1/2	3,199.27	1/2	3,567.53	1/2	3,931.24
3/4	260.89	3/4	629.15	3/4	997.41	3/4	1,365.66	3/4	1,733.92	3/4	2,102.17	3/4	2,470.43	3/4	2,838.69	3/4	3,206.94	3/4	3,575.20	3/4	3,938.95
9	268.56	9	636.82	9	1,005.08	9	1,373.33	9	1,741.59	9	2,109.84	9	2,478.10	9	2,846.36	9	3,214.61	9	3,582.87	9	3,946.66
1/4	276.23	1/4	644.49	1/4	1,012.75	1/4	1,381.00	1/4	1,749.26	1/4	2,117.51	1/4	2,485.77	1/4	2,854.03	1/4	3,222.28	1/4	3,590.54	1/4	3,954.41
1/2	283.91	1/2	652.17	1/2	1,020.42	1/2	1,388.68	1/2	1,756.93	1/2	2,125.18	1/2	2,493.45	1/2	2,861.70	1/2	3,229.96	1/2	3,598.22	1/2	3,962.17
3/4	291.58	3/4	659.84	3/4	1,028.09	3/4	1,396.35	3/4	1,764.61	3/4	2,132.86	3/4	2,501.12	3/4	2,869.37	3/4	3,237.63	3/4	3,605.89	3/4	3,969.88
10	299.25	10	667.51	10	1,035.76	10	1,404.02	10	1,772.28	10	2,140.53	10	2,508.79	10	2,877.04	10	3,245.30	10	3,613.56	10	3,977.54
1/4	306.92	1/4	675.18	1/4	1,043.43	1/4	1,411.69	1/4	1,779.95	1/4	2,148.20	1/4	2,516.46	1/4	2,884.71	1/4	3,252.97	1/4	3,621.23	1/4	3,985.21
1/2	314.60	1/2	682.86	1/2	1,051.11	1/2	1,419.37	1/2	1,787.62	1/2	2,155.87	1/2	2,524.14	1/2	2,892.39	1/2	3,260.65	1/2	3,628.90	1/2	3,992.90
3/4	322.27	3/4	690.53	3/4	1,058.78	3/4	1,427.04	3/4	1,795.29	3/4	2,163.55	3/4	2,531.81	3/4	2,900.06	3/4	3,268.32	3/4	3,636.57	3/4	4,000.00
11	329.94	11	698.20	11	1,066.45	11	1,434.71	11	1,802.96	11	2,171.22	11	2,539.48	11	2,907.73	11	3,275.99	11	3,644.24	11	4,007.00
1/4	337.61	1/4	705.87	1/4	1,074.12	1/4	1,442.38	1/4	1,810.63	1/4	2,178.89	1/4	2,547.15	1/4	2,915.40	1/4	3,283.66	1/4	3,651.91	1/4	4,013.75
1/2	345.29	1/2	713.54	1/2	1,081.80	1/2	1,450.06	1/2	1,818.30	1/2	2,186.56	1/2	2,554.82	1/2	2,923.08	1/2	3,291.34	1/2	3,659.59	1/2	4,020.50
3/4	352.96	3/4	721.21	3/4	1,089.47	3/4	1,457.73	3/4	1,825.98	3/4	2,194.24	3/4	2,562.49	3/4	2,930.75	3/4	3,299.01	3/4	3,667.26	3/4	4,027.25

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

* CAPACITY BELOW STRIKE POINT

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

GAUGE POINT: (8" HATCH) LOCATED 12'-03" OFF CENTERLINE AND 47'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HORIZON 3009"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,674.93	0	4,043.19	0	4,374.98	0		0		0		0		0		0		0	
1/4	3,682.60	1/4	4,050.86	1/4	4,377.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,690.28	1/2	4,058.54	1/2	4,379.45	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,697.95	3/4	4,066.21	3/4	4,381.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,705.62	1	4,073.88	1	4,383.92	1		1		1		1		1		1		1	
1/4	3,713.29	1/4	4,081.55	1/4	4,384.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,720.97	1/2	4,089.22	1/2	4,385.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,728.64	3/4	4,096.89	3/4	4,386.79	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,736.31	2	4,104.56	2	4,387.75	2		2		2		2		2		2		2	
1/4	3,743.98	1/4	4,112.23	1/4	4,388.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,751.66	1/2	4,119.91	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,759.33	3/4	4,127.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,767.00	3	4,135.25	3		3		3		3		3		3		3		3	
1/4	3,774.67	1/4	4,142.92	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,782.34	1/2	4,150.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,790.01	3/4	4,158.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,797.68	4	4,165.94	4		4		4		4		4		4		4		4	
1/4	3,805.35	1/4	4,173.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,813.03	1/2	4,181.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,820.70	3/4	4,188.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,828.37	5	4,196.63	5		5		5		5		5		5		5		5	
1/4	3,836.04	1/4	4,204.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,843.72	1/2	4,211.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,851.39	3/4	4,219.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,859.06	6	4,227.32	6		6		6		6		6		6		6		6	
1/4	3,866.73	1/4	4,234.99	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,874.41	1/2	4,242.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,882.08	3/4	4,250.33	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,889.75	7	4,258.00	7		7		7		7		7		7		7		7	
1/4	3,897.42	1/4	4,265.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,905.10	1/2	4,273.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,912.77	3/4	4,281.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,920.44	8	4,288.69	8		8		8		8		8		8		8		8	
1/4	3,928.11	1/4	4,295.88	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,935.78	1/2	4,303.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,943.45	3/4	4,310.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,951.12	9	4,317.46	9		9		9		9		9		9		9		9	
1/4	3,958.80	1/4	4,323.53	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,966.48	1/2	4,329.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,974.15	3/4	4,335.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,981.83	10	4,341.74	10		10		10		10		10		10		10		10	
1/4	3,989.50	1/4	4,346.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,997.17	1/2	4,351.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,004.83	3/4	4,356.13	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	4,012.50	11	4,360.92	11		11		11		11		11		11		11		11	
1/4	4,020.17	1/4	4,364.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,027.85	1/2	4,367.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,035.52	3/4	4,371.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/1997 INSP.
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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2007

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Pearland, Texas 77588
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BARGE "HORIZON 3009"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 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	*21.33	0	377.83	0	747.91	0	1,117.99	0	1,488.07	0	1,858.15	0	2,228.23	0	2,598.31	0	2,968.39	0	3,338.47
1/4	26.68	1/4	385.54	1/4	755.62	1/4	1,125.70	1/4	1,495.78	1/4	1,865.86	1/4	2,235.94	1/4	2,606.02	1/4	2,976.10	1/4	3,346.18
1/2	32.04	1/2	393.25	1/2	763.33	1/2	1,133.41	1/2	1,503.49	1/2	1,873.57	1/2	2,243.65	1/2	2,613.73	1/2	2,983.81	1/2	3,353.89
3/4	37.39	3/4	400.96	3/4	771.04	3/4	1,141.12	3/4	1,511.20	3/4	1,881.28	3/4	2,251.36	3/4	2,621.44	3/4	2,991.52	3/4	3,361.60
1	42.74	1	408.67	1	778.75	1	1,148.83	1	1,518.91	1	1,888.99	1	2,259.07	1	2,629.15	1	2,999.23	1	3,369.31
1/4	49.83	1/4	416.38	1/4	786.46	1/4	1,156.54	1/4	1,526.62	1/4	1,896.70	1/4	2,266.78	1/4	2,636.86	1/4	3,006.94	1/4	3,377.02
1/2	56.92	1/2	424.09	1/2	794.17	1/2	1,164.25	1/2	1,534.33	1/2	1,904.41	1/2	2,274.49	1/2	2,644.57	1/2	3,014.65	1/2	3,384.73
3/4	64.00	3/4	431.80	3/4	801.88	3/4	1,171.96	3/4	1,542.04	3/4	1,912.12	3/4	2,282.20	3/4	2,652.28	3/4	3,022.36	3/4	3,392.44
2	71.09	2	439.51	2	809.59	2	1,179.67	2	1,549.75	2	1,919.83	2	2,289.91	2	2,659.99	2	3,030.07	2	3,400.15
1/4	78.56	1/4	447.22	1/4	817.30	1/4	1,187.38	1/4	1,557.46	1/4	1,927.54	1/4	2,297.62	1/4	2,667.70	1/4	3,037.78	1/4	3,407.86
1/2	86.04	1/2	454.93	1/2	825.01	1/2	1,195.09	1/2	1,565.17	1/2	1,935.25	1/2	2,305.33	1/2	2,675.41	1/2	3,045.49	1/2	3,415.57
3/4	93.51	3/4	462.64	3/4	832.72	3/4	1,202.80	3/4	1,572.88	3/4	1,942.96	3/4	2,313.04	3/4	2,683.12	3/4	3,053.20	3/4	3,423.28
3	100.98	3	470.35	3	840.43	3	1,210.51	3	1,580.59	3	1,950.67	3	2,320.75	3	2,690.83	3	3,060.91	3	3,430.99
1/4	108.51	1/4	478.06	1/4	848.14	1/4	1,218.22	1/4	1,588.30	1/4	1,958.38	1/4	2,328.46	1/4	2,698.54	1/4	3,068.62	1/4	3,438.70
1/2	116.05	1/2	485.77	1/2	855.85	1/2	1,225.93	1/2	1,596.01	1/2	1,966.09	1/2	2,336.17	1/2	2,706.25	1/2	3,076.33	1/2	3,446.41
3/4	123.58	3/4	493.48	3/4	863.56	3/4	1,233.64	3/4	1,603.72	3/4	1,973.80	3/4	2,343.88	3/4	2,713.96	3/4	3,084.04	3/4	3,454.12
4	131.11	4	501.19	4	871.27	4	1,241.35	4	1,611.43	4	1,981.51	4	2,351.59	4	2,721.67	4	3,091.75	4	3,461.83
1/4	138.82	1/4	508.90	1/4	878.98	1/4	1,249.06	1/4	1,619.14	1/4	1,989.22	1/4	2,359.30	1/4	2,729.38	1/4	3,099.46	1/4	3,469.54
1/2	146.53	1/2	516.61	1/2	886.69	1/2	1,256.77	1/2	1,626.85	1/2	1,996.93	1/2	2,367.01	1/2	2,737.09	1/2	3,107.17	1/2	3,477.25
3/4	154.24	3/4	524.32	3/4	894.40	3/4	1,264.48	3/4	1,634.56	3/4	2,004.64	3/4	2,374.72	3/4	2,744.80	3/4	3,114.88	3/4	3,484.96
5	161.95	5	532.03	5	902.11	5	1,272.19	5	1,642.27	5	2,012.35	5	2,382.43	5	2,752.51	5	3,122.59	5	3,492.67
1/4	169.66	1/4	539.74	1/4	909.82	1/4	1,279.90	1/4	1,649.98	1/4	2,020.06	1/4	2,390.14	1/4	2,760.22	1/4	3,130.30	1/4	3,500.38
1/2	177.37	1/2	547.45	1/2	917.53	1/2	1,287.61	1/2	1,657.69	1/2	2,027.77	1/2	2,397.85	1/2	2,767.93	1/2	3,138.01	1/2	3,508.09
3/4	185.08	3/4	555.16	3/4	925.24	3/4	1,295.32	3/4	1,665.40	3/4	2,035.48	3/4	2,405.56	3/4	2,775.64	3/4	3,145.72	3/4	3,515.80
6	192.79	6	562.87	6	932.95	6	1,303.03	6	1,673.11	6	2,043.19	6	2,413.27	6	2,783.35	6	3,153.43	6	3,523.51
1/4	200.50	1/4	570.58	1/4	940.66	1/4	1,310.74	1/4	1,680.82	1/4	2,050.90	1/4	2,420.98	1/4	2,791.06	1/4	3,161.14	1/4	3,531.22
1/2	208.21	1/2	578.29	1/2	948.37	1/2	1,318.45	1/2	1,688.53	1/2	2,058.61	1/2	2,428.69	1/2	2,798.77	1/2	3,168.85	1/2	3,538.93
3/4	215.92	3/4	586.00	3/4	956.08	3/4	1,326.16	3/4	1,696.24	3/4	2,066.32	3/4	2,436.40	3/4	2,806.48	3/4	3,176.56	3/4	3,546.64
7	223.63	7	593.71	7	963.79	7	1,333.87	7	1,703.95	7	2,074.03	7	2,444.11	7	2,814.19	7	3,184.27	7	3,554.35
1/4	231.34	1/4	601.42	1/4	971.50	1/4	1,341.58	1/4	1,711.66	1/4	2,081.74	1/4	2,451.82	1/4	2,821.90	1/4	3,191.98	1/4	3,562.06
1/2	239.05	1/2	609.13	1/2	979.21	1/2	1,349.29	1/2	1,719.37	1/2	2,089.45	1/2	2,459.53	1/2	2,829.61	1/2	3,199.69	1/2	3,569.77
3/4	246.76	3/4	616.84	3/4	986.92	3/4	1,357.00	3/4	1,727.08	3/4	2,097.16	3/4	2,467.24	3/4	2,837.32	3/4	3,207.40	3/4	3,577.48
8	254.47	8	624.55	8	994.63	8	1,364.71	8	1,734.79	8	2,104.87	8	2,474.95	8	2,845.03	8	3,215.11	8	3,585.19
1/4	262.18	1/4	632.26	1/4	1,002.34	1/4	1,372.42	1/4	1,742.50	1/4	2,112.58	1/4	2,482.66	1/4	2,852.74	1/4	3,222.82	1/4	3,592.90
1/2	269.89	1/2	639.97	1/2	1,010.05	1/2	1,380.13	1/2	1,750.21	1/2	2,120.29	1/2	2,490.37	1/2	2,860.45	1/2	3,230.53	1/2	3,600.61
3/4	277.60	3/4	647.68	3/4	1,017.76	3/4	1,387.84	3/4	1,757.92	3/4	2,128.00	3/4	2,498.08	3/4	2,868.16	3/4	3,238.24	3/4	3,608.32
9	285.31	9	655.39	9	1,025.47	9	1,395.55	9	1,765.63	9	2,135.71	9	2,505.79	9	2,875.87	9	3,245.95	9	3,616.03
1/4	293.02	1/4	663.10	1/4	1,033.18	1/4	1,403.26	1/4	1,773.34	1/4	2,143.42	1/4	2,513.50	1/4	2,883.58	1/4	3,253.66	1/4	3,623.74
1/2	300.73	1/2	670.81	1/2	1,040.89	1/2	1,410.97	1/2	1,781.05	1/2	2,151.13	1/2	2,521.21	1/2	2,891.29	1/2	3,261.37	1/2	3,631.45
3/4	308.44	3/4	678.52	3/4	1,048.60	3/4	1,418.68	3/4	1,788.76	3/4	2,158.84	3/4	2,528.92	3/4	2,899.00	3/4	3,269.08	3/4	3,639.16
10	316.15	10	686.23	10	1,056.31	10	1,426.39	10	1,796.47	10	2,166.55	10	2,536.63	10	2,906.71	10	3,276.79	10	3,646.87
1/4	323.86	1/4	693.94	1/4	1,064.02	1/4	1,434.10	1/4	1,804.18	1/4	2,174.26	1/4	2,544.34	1/4	2,914.42	1/4	3,284.50	1/4	3,654.58
1/2	331.57	1/2	701.65	1/2	1,071.73	1/2	1,441.81	1/2	1,811.89	1/2	2,181.97	1/2	2,552.05	1/2	2,922.13	1/2	3,292.21	1/2	3,662.29
3/4	339.28	3/4	709.36	3/4	1,079.44	3/4	1,449.52	3/4	1,819.60	3/4	2,189.68	3/4	2,559.76	3/4	2,929.84	3/4	3,299.92	3/4	3,670.00
11	346.99	11	717.07	11	1,087.15	11	1,457.23	11	1,827.31	11	2,197.39	11	2,567.47	11	2,937.55	11	3,307.63	11	3,677.71
1/4	354.70	1/4	724.78	1/4	1,094.86	1/4	1,464.94	1/4	1,835.02	1/4	2,205.10	1/4	2,575.18	1/4	2,945.26	1/4	3,315.34	1/4	3,685.42
1/2	362.41	1/2	732.49	1/2	1,102.57	1/2	1,472.65	1/2	1,842.73	1/2	2,212.81	1/2	2,582.89	1/2	2,952.97	1/2	3,323.05	1/2	3,693.13
3/4	370.12	3/4	740.20	3/4	1,110.28	3/4	1,480.36	3/4	1,850.44	3/4	2,220.52	3/4	2,590.60	3/4	2,960.68	3/4	3,330.76	3/4	3,700.84

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

* CAPACITY BELOW STRIKE POINT

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

GAUGE POINT: (8" HATCH) LOCATED 12'-03" OFF CENTERLINE AND 47'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HORIZON 3009"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 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	3,708.55	0	4,078.63	0	4,401.79	0		0		0		0		0		0		0	
1/4	3,716.26	1/4	4,086.34	1/4	4,403.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,723.97	1/2	4,094.05	1/2	4,405.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,731.68	3/4	4,101.76	3/4	4,406.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,739.39	1	4,109.47	1	4,408.20	1		1		1		1		1		1		1	
1/4	3,747.10	1/4	4,117.18	1/4	4,408.84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,754.81	1/2	4,124.89	1/2	4,409.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,762.52	3/4	4,132.60	3/4	4,410.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,770.23	2	4,140.31	2		2		2		2		2		2		2		2	
1/4	3,777.94	1/4	4,148.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,785.65	1/2	4,155.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,793.36	3/4	4,163.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,801.07	3	4,171.15	3		3		3		3		3		3		3		3	
1/4	3,808.78	1/4	4,178.86	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,816.49	1/2	4,186.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,824.20	3/4	4,194.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,831.91	4	4,201.99	4		4		4		4		4		4		4		4	
1/4	3,839.62	1/4	4,209.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,847.33	1/2	4,217.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,855.04	3/4	4,225.12	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,862.75	5	4,232.83	5		5		5		5		5		5		5		5	
1/4	3,870.46	1/4	4,240.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,878.17	1/2	4,248.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,885.88	3/4	4,255.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,893.59	6	4,263.67	6		6		6		6		6		6		6		6	
1/4	3,901.30	1/4	4,271.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,909.01	1/2	4,279.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,916.72	3/4	4,286.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,924.43	7	4,294.51	7		7		7		7		7		7		7		7	
1/4	3,932.14	1/4	4,302.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,939.85	1/2	4,309.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,947.56	3/4	4,317.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,955.27	8	4,324.71	8		8		8		8		8		8		8		8	
1/4	3,962.98	1/4	4,331.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,970.69	1/2	4,338.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,978.40	3/4	4,344.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,986.11	9	4,351.69	9		9		9		9		9		9		9		9	
1/4	3,993.82	1/4	4,357.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,001.53	1/2	4,362.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,009.24	3/4	4,368.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	4,016.95	10	4,373.53	10		10		10		10		10		10		10		10	
1/4	4,024.66	1/4	4,377.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,032.37	1/2	4,381.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,040.08	3/4	4,386.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	4,047.79	11	4,390.23	11		11		11		11		11		11		11		11	
1/4	4,055.50	1/4	4,393.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,063.21	1/2	4,396.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,070.92	3/4	4,398.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/29/1997 INSP.
DECK MEASUREMENTS: 05/03/2007 CL
REPRINTED: 05/03/2007 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2007

PRECISION MEASUREMENT
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Pearland, Texas 77588
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BARGE "HORIZON 3009"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 1/4"

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	*16.43	0	370.12	0	740.20	0	1,110.28	0	1,480.36	0	1,850.44	0	2,220.52	0	2,590.60	0	2,960.68	0	3,330.76		
1/4	21.33	1/4	377.83	1/4	747.91	1/4	1,117.99	1/4	1,488.07	1/4	1,858.15	1/4	2,228.23	1/4	2,598.31	1/4	2,968.39	1/4	3,338.47		
1/2	26.24	1/2	385.54	1/2	755.62	1/2	1,125.70	1/2	1,495.78	1/2	1,865.86	1/2	2,235.94	1/2	2,606.02	1/2	2,976.10	1/2	3,346.18		
3/4	31.14	3/4	393.25	3/4	763.33	3/4	1,133.41	3/4	1,503.49	3/4	1,873.57	3/4	2,243.65	3/4	2,613.73	3/4	2,983.81	3/4	3,356.26		
1	36.04	1	400.96	1	771.04	1	1,141.12	1	1,511.20	1	1,881.28	1	2,251.36	1	2,621.44	1	2,991.52	1	3,361.60		
1/4	42.94	1/4	408.67	1/4	778.75	1/4	1,148.83	1/4	1,518.91	1/4	1,888.99	1/4	2,259.07	1/4	2,629.15	1/4	2,999.23	1/4	3,369.31		
1/2	49.83	1/2	416.38	1/2	786.46	1/2	1,156.54	1/2	1,526.62	1/2	1,896.70	1/2	2,266.78	1/2	2,636.86	1/2	3,006.94	1/2	3,377.02		
3/4	56.73	3/4	424.09	3/4	794.17	3/4	1,164.25	3/4	1,534.33	3/4	1,904.41	3/4	2,274.49	3/4	2,644.57	3/4	3,014.65	3/4	3,384.73		
2	63.62	2	431.80	2	801.88	2	1,171.96	2	1,542.04	2	1,912.12	2	2,282.20	2	2,652.28	2	3,022.36	2	3,392.44		
1/4	71.09	1/4	439.51	1/4	809.59	1/4	1,179.67	1/4	1,549.75	1/4	1,919.83	1/4	2,289.91	1/4	2,659.99	1/4	3,030.07	1/4	3,400.15		
1/2	78.57	1/2	447.22	1/2	817.30	1/2	1,187.38	1/2	1,557.46	1/2	1,927.54	1/2	2,297.62	1/2	2,667.70	1/2	3,037.78	1/2	3,407.86		
3/4	86.04	3/4	454.93	3/4	825.01	3/4	1,195.09	3/4	1,565.17	3/4	1,935.25	3/4	2,307.70	3/4	2,677.88	3/4	3,045.86	3/4	3,415.86		
3	93.51	3	462.64	3	832.72	3	1,202.80	3	1,572.88	3	1,942.96	3	2,317.88	3	2,687.96	3	3,053.94	3	3,423.86		
1/4	100.98	1/4	470.35	1/4	840.43	1/4	1,210.51	1/4	1,580.59	1/4	1,950.67	1/4	2,327.96	1/4	2,698.04	1/4	3,061.94	1/4	3,431.86		
1/2	108.46	1/2	478.06	1/2	848.14	1/2	1,218.22	1/2	1,588.30	1/2	1,958.38	1/2	2,338.04	1/2	2,708.12	1/2	3,070.02	1/2	3,439.86		
3/4	115.93	3/4	485.77	3/4	855.85	3/4	1,225.93	3/4	1,596.01	3/4	1,968.09	3/4	2,348.12	3/4	2,718.20	3/4	3,078.10	3/4	3,447.86		
4	123.40	4	493.48	4	863.56	4	1,233.64	4	1,603.72	4	1,973.80	4	2,358.20	4	2,728.28	4	3,086.18	4	3,455.86		
1/4	131.11	1/4	501.19	1/4	871.27	1/4	1,241.35	1/4	1,611.43	1/4	1,981.51	1/4	2,368.28	1/4	2,738.36	1/4	3,094.26	1/4	3,463.86		
1/2	138.82	1/2	508.90	1/2	878.98	1/2	1,249.06	1/2	1,619.14	1/2	1,989.22	1/2	2,378.36	1/2	2,748.44	1/2	3,102.34	1/2	3,471.86		
3/4	146.53	3/4	516.61	3/4	886.69	3/4	1,256.77	3/4	1,626.85	3/4	1,999.30	3/4	2,388.44	3/4	2,758.52	3/4	3,110.42	3/4	3,479.86		
5	154.24	5	524.32	5	894.40	5	1,264.48	5	1,634.56	5	2,004.64	5	2,398.52	5	2,768.60	5	3,118.50	5	3,487.86		
1/4	161.95	1/4	532.03	1/4	902.11	1/4	1,272.19	1/4	1,642.27	1/4	2,012.72	1/4	2,408.60	1/4	2,778.68	1/4	3,126.58	1/4	3,495.86		
1/2	169.66	1/2	539.74	1/2	909.82	1/2	1,279.90	1/2	1,649.98	1/2	2,022.80	1/2	2,418.68	1/2	2,788.76	1/2	3,134.66	1/2	3,503.86		
3/4	177.37	3/4	547.45	3/4	917.53	3/4	1,287.61	3/4	1,657.69	3/4	2,035.90	3/4	2,428.76	3/4	2,798.84	3/4	3,142.74	3/4	3,511.86		
6	185.08	6	555.16	6	925.24	6	1,295.32	6	1,665.40	6	2,043.00	6	2,438.84	6	2,808.92	6	3,150.82	6	3,519.86		
1/4	192.79	1/4	562.87	1/4	932.95	1/4	1,303.03	1/4	1,673.11	1/4	2,051.10	1/4	2,448.92	1/4	2,818.99	1/4	3,158.90	1/4	3,527.86		
1/2	200.50	1/2	570.58	1/2	940.66	1/2	1,310.74	1/2	1,680.82	1/2	2,059.20	1/2	2,459.00	1/2	2,829.07	1/2	3,166.98	1/2	3,535.86		
3/4	208.21	3/4	578.29	3/4	948.37	3/4	1,318.45	3/4	1,688.53	3/4	2,067.30	3/4	2,469.08	3/4	2,839.15	3/4	3,175.06	3/4	3,543.86		
7	215.92	7	586.00	7	956.08	7	1,326.16	7	1,696.24	7	2,075.40	7	2,479.16	7	2,849.23	7	3,183.14	7	3,551.86		
1/4	223.63	1/4	593.71	1/4	963.79	1/4	1,333.87	1/4	1,703.95	1/4	2,083.50	1/4	2,489.24	1/4	2,859.30	1/4	3,191.22	1/4	3,559.86		
1/2	231.34	1/2	601.42	1/2	971.50	1/2	1,341.58	1/2	1,711.66	1/2	2,091.60	1/2	2,499.32	1/2	2,869.37	1/2	3,199.30	1/2	3,567.86		
3/4	239.05	3/4	609.13	3/4	979.21	3/4	1,349.29	3/4	1,719.37	3/4	2,099.70	3/4	2,509.40	3/4	2,879.45	3/4	3,207.38	3/4	3,575.86		
8	246.76	8	616.84	8	986.92	8	1,357.00	8	1,727.08	8	2,107.80	8	2,519.48	8	2,889.53	8	3,215.46	8	3,583.86		
1/4	254.47	1/4	624.55	1/4	994.63	1/4	1,364.71	1/4	1,734.79	1/4	2,115.90	1/4	2,529.56	1/4	2,899.60	1/4	3,223.54	1/4	3,591.86		
1/2	262.18	1/2	632.26	1/2	1,002.34	1/2	1,372.42	1/2	1,742.50	1/2	2,124.00	1/2	2,539.64	1/2	2,909.67	1/2	3,231.62	1/2	3,600.86		
3/4	269.89	3/4	639.97	3/4	1,010.05	3/4	1,380.13	3/4	1,750.21	3/4	2,132.10	3/4	2,549.72	3/4	2,919.75	3/4	3,239.70	3/4	3,608.86		
9	277.60	9	647.68	9	1,017.76	9	1,387.84	9	1,757.92	9	2,140.20	9	2,559.80	9	2,929.83	9	3,247.78	9	3,616.86		
1/4	285.31	1/4	655.39	1/4	1,025.47	1/4	1,395.55	1/4	1,765.63	1/4	2,148.30	1/4	2,569.88	1/4	2,939.91	1/4	3,255.86	1/4	3,624.86		
1/2	293.02	1/2	663.10	1/2	1,033.18	1/2	1,403.26	1/2	1,773.34	1/2	2,156.40	1/2	2,579.96	1/2	2,949.99	1/2	3,263.94	1/2	3,632.86		
3/4	300.73	3/4	670.81	3/4	1,040.89	3/4	1,410.97	3/4	1,781.05	3/4	2,164.50	3/4	2,589.04	3/4	2,959.07	3/4	3,271.02	3/4	3,640.86		
10	308.44	10	678.52	10	1,048.60	10	1,418.68	10	1,788.76	10	2,172.60	10	2,599.12	10	2,969.10	10	3,279.10	10	3,648.86		
1/4	316.15	1/4	686.23	1/4	1,056.31	1/4	1,426.39	1/4	1,796.47	1/4	2,180.70	1/4	2,609.20	1/4	2,979.13	1/4	3,287.18	1/4	3,656.86		
1/2	323.86	1/2	693.94	1/2	1,064.02	1/2	1,434.10	1/2	1,804.18	1/2	2,188.80	1/2	2,619.28	1/2	2,989.16	1/2	3,295.26	1/2	3,664.86		
3/4	331.57	3/4	701.65	3/4	1,071.73	3/4	1,441.81	3/4	1,811.89	3/4	2,196.90	3/4	2,629.36	3/4	2,999.19	3/4	3,303.34	3/4	3,672.86		
11	339.28	11	709.36	11	1,079.44	11	1,449.52	11	1,819.60	11	2,205.00	11	2,639.44	11	3,009.27	11	3,311.42	11	3,680.86		
1/4	346.99	1/4	717.07	1/4	1,087.15	1/4	1,457.23	1/4	1,827.31	1/4	2,213.10	1/4	2,649.52	1/4	3,019.35	1/4	3,319.50	1/4	3,688.86		
1/2	354.70	1/2	724.78	1/2	1,094.86	1/2	1,464.94	1/2	1,835.02	1/2	2,221.20	1/2	2,659.60	1/2	3,029.43	1/2	3,327.58	1/2	3,696.86		
3/4	362.41	3/4	732.49	3/4	1,102.57	3/4	1,472.65	3/4	1,842.73	3/4	2,229.30	3/4	2,669.68	3/4	3,039.51	3/4	3,335.66	3/4	3,704.86		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

* CAPACITY BELOW STRIKE POINT
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
GAUGE POINT: (8" HATCH) LOCATED 12'-03" OFF CENTERLINE AND 47'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HORIZON 3009"

**2 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 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	3,700.84	0	4,070.92	0	4,399.86	0		0		0		0		0		0		0	
1/4	3,708.55	1/4	4,078.63	1/4	4,401.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,716.26	1/2	4,086.34	1/2	4,403.71	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,723.97	3/4	4,094.05	3/4	4,405.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,731.68	1	4,101.76	1	4,407.56	1		1		1		1		1		1		1	
1/4	3,739.39	1/4	4,109.47	1/4	4,408.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,747.10	1/2	4,117.18	1/2	4,408.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,754.81	3/4	4,124.89	3/4	4,409.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,762.52	2	4,132.60	2	4,410.12	2		2		2		2		2		2		2	
1/4	3,770.23	1/4	4,140.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,777.94	1/2	4,148.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,785.65	3/4	4,155.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,793.36	3	4,163.44	3		3		3		3		3		3		3		3	
1/4	3,801.07	1/4	4,171.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,808.78	1/2	4,178.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,816.49	3/4	4,186.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,824.20	4	4,194.28	4		4		4		4		4		4		4		4	
1/4	3,831.91	1/4	4,201.99	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,839.62	1/2	4,209.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,847.33	3/4	4,217.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,855.04	5	4,225.12	5		5		5		5		5		5		5		5	
1/4	3,862.75	1/4	4,232.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,870.46	1/2	4,240.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,878.17	3/4	4,248.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,885.88	6	4,255.96	6		6		6		6		6		6		6		6	
1/4	3,893.59	1/4	4,263.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,901.30	1/2	4,271.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,909.01	3/4	4,279.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,916.72	7	4,286.80	7		7		7		7		7		7		7		7	
1/4	3,924.43	1/4	4,294.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,932.14	1/2	4,302.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,939.85	3/4	4,309.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,947.56	8	4,317.64	8		8		8		8		8		8		8		8	
1/4	3,955.27	1/4	4,324.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,962.98	1/2	4,331.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,970.69	3/4	4,338.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,978.40	9	4,345.91	9		9		9		9		9		9		9		9	
1/4	3,986.11	1/4	4,351.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,993.82	1/2	4,357.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,001.53	3/4	4,363.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	4,009.24	10	4,369.03	10		10		10		10		10		10		10		10	
1/4	4,016.95	1/4	4,373.53	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,024.66	1/2	4,378.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,032.37	3/4	4,382.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	4,040.08	11	4,387.02	11		11		11		11		11		11		11		11	
1/4	4,047.79	1/4	4,390.23	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4,055.50	1/2	4,393.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	4,063.21	3/4	4,396.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2007

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BARGE "HORIZON 3009"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 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	*16.50	0	371.60	0	743.12	0	1,114.64	0	1,486.16	0	1,857.68	0	2,229.20	0	2,600.72	0	2,972.24	0	3,343.76
1/4	21.43	1/4	379.34	1/4	750.86	1/4	1,122.38	1/4	1,493.90	1/4	1,865.42	1/4	2,236.94	1/4	2,608.38	1/4	2,979.98	1/4	3,351.50
1/2	26.35	1/2	387.08	1/2	758.60	1/2	1,130.12	1/2	1,501.64	1/2	1,873.16	1/2	2,244.68	1/2	2,616.05	1/2	2,987.72	1/2	3,359.24
3/4	31.28	3/4	394.82	3/4	766.34	3/4	1,137.86	3/4	1,509.38	3/4	1,880.90	3/4	2,252.42	3/4	2,623.71	3/4	2,995.46	3/4	3,366.98
1	36.20	1	402.56	1	774.08	1	1,145.60	1	1,517.12	1	1,888.64	1	2,260.16	1	2,631.38	1	3,003.20	1	3,374.72
1/4	43.12	1/4	410.30	1/4	781.82	1/4	1,153.34	1/4	1,524.86	1/4	1,896.38	1/4	2,267.90	1/4	2,639.19	1/4	3,010.94	1/4	3,382.46
1/2	50.05	1/2	418.04	1/2	789.56	1/2	1,161.08	1/2	1,532.60	1/2	1,904.12	1/2	2,275.64	1/2	2,647.01	1/2	3,018.68	1/2	3,390.20
3/4	56.97	3/4	425.78	3/4	797.30	3/4	1,168.82	3/4	1,540.34	3/4	1,911.86	3/4	2,283.38	3/4	2,654.82	3/4	3,026.42	3/4	3,397.94
2	63.89	2	433.52	2	805.04	2	1,176.56	2	1,548.08	2	1,919.60	2	2,291.12	2	2,662.64	2	3,034.16	2	3,405.68
1/4	71.40	1/4	441.26	1/4	812.78	1/4	1,184.30	1/4	1,555.82	1/4	1,927.34	1/4	2,298.86	1/4	2,670.38	1/4	3,041.90	1/4	3,413.21
1/2	78.90	1/2	449.00	1/2	820.52	1/2	1,192.04	1/2	1,563.56	1/2	1,935.08	1/2	2,306.60	1/2	2,678.12	1/2	3,049.64	1/2	3,420.73
3/4	86.41	3/4	456.74	3/4	828.26	3/4	1,199.78	3/4	1,571.30	3/4	1,942.82	3/4	2,314.34	3/4	2,685.86	3/4	3,057.38	3/4	3,428.26
3	93.91	3	464.48	3	836.00	3	1,207.52	3	1,579.04	3	1,950.56	3	2,322.08	3	2,693.60	3	3,065.12	3	3,435.79
1/4	101.41	1/4	472.22	1/4	843.74	1/4	1,215.26	1/4	1,586.78	1/4	1,958.30	1/4	2,329.82	1/4	2,701.34	1/4	3,072.86	1/4	3,442.82
1/2	108.92	1/2	479.96	1/2	851.48	1/2	1,223.00	1/2	1,594.52	1/2	1,966.04	1/2	2,337.56	1/2	2,709.08	1/2	3,080.60	1/2	3,449.85
3/4	116.42	3/4	487.70	3/4	859.22	3/4	1,230.74	3/4	1,602.26	3/4	1,973.78	3/4	2,345.30	3/4	2,716.82	3/4	3,088.34	3/4	3,456.89
4	123.92	4	495.44	4	866.96	4	1,238.48	4	1,610.00	4	1,981.52	4	2,353.04	4	2,724.56	4	3,096.08	4	3,463.92
1/4	131.66	1/4	503.18	1/4	874.70	1/4	1,246.22	1/4	1,617.74	1/4	1,989.26	1/4	2,360.78	1/4	2,732.30	1/4	3,103.82	1/4	3,470.39
1/2	139.40	1/2	510.92	1/2	882.44	1/2	1,253.96	1/2	1,625.48	1/2	1,997.00	1/2	2,368.52	1/2	2,740.04	1/2	3,111.56	1/2	3,476.85
3/4	147.14	3/4	518.66	3/4	890.18	3/4	1,261.70	3/4	1,633.22	3/4	2,004.74	3/4	2,376.26	3/4	2,747.78	3/4	3,119.30	3/4	3,483.32
5	154.88	5	526.40	5	897.92	5	1,269.44	5	1,640.96	5	2,012.48	5	2,384.00	5	2,755.52	5	3,127.04	5	3,489.79
1/4	162.62	1/4	534.14	1/4	905.66	1/4	1,277.18	1/4	1,648.70	1/4	2,020.22	1/4	2,391.74	1/4	2,763.26	1/4	3,134.78	1/4	3,495.69
1/2	170.36	1/2	541.88	1/2	913.40	1/2	1,284.92	1/2	1,656.44	1/2	2,027.96	1/2	2,399.48	1/2	2,771.00	1/2	3,142.52	1/2	3,501.59
3/4	178.10	3/4	549.62	3/4	921.14	3/4	1,292.66	3/4	1,664.18	3/4	2,035.70	3/4	2,407.22	3/4	2,778.74	3/4	3,150.26	3/4	3,507.50
6	185.84	6	557.36	6	928.88	6	1,300.40	6	1,671.92	6	2,043.44	6	2,414.96	6	2,786.48	6	3,158.00	6	3,513.40
1/4	193.58	1/4	565.10	1/4	936.62	1/4	1,308.14	1/4	1,679.66	1/4	2,051.18	1/4	2,422.70	1/4	2,794.22	1/4	3,165.74	1/4	3,518.73
1/2	201.32	1/2	572.84	1/2	944.36	1/2	1,315.88	1/2	1,687.40	1/2	2,058.92	1/2	2,430.44	1/2	2,801.96	1/2	3,173.48	1/2	3,524.07
3/4	209.06	3/4	580.58	3/4	952.10	3/4	1,323.62	3/4	1,695.14	3/4	2,066.66	3/4	2,438.18	3/4	2,809.70	3/4	3,181.22	3/4	3,529.40
7	216.80	7	588.32	7	959.84	7	1,331.36	7	1,702.88	7	2,074.40	7	2,445.92	7	2,817.44	7	3,188.96	7	3,534.74
1/4	224.54	1/4	596.06	1/4	967.58	1/4	1,339.10	1/4	1,710.62	1/4	2,082.14	1/4	2,453.66	1/4	2,825.18	1/4	3,196.70	1/4	3,539.63
1/2	232.28	1/2	603.80	1/2	975.32	1/2	1,346.84	1/2	1,718.36	1/2	2,089.88	1/2	2,461.40	1/2	2,832.92	1/2	3,204.44	1/2	3,544.52
3/4	240.02	3/4	611.54	3/4	983.06	3/4	1,354.58	3/4	1,726.10	3/4	2,097.62	3/4	2,469.14	3/4	2,840.66	3/4	3,212.18	3/4	3,549.42
8	247.76	8	619.28	8	990.80	8	1,362.32	8	1,733.84	8	2,105.36	8	2,476.88	8	2,848.40	8	3,219.92	8	3,554.31
1/4	255.50	1/4	627.02	1/4	998.54	1/4	1,370.06	1/4	1,741.58	1/4	2,113.10	1/4	2,484.62	1/4	2,856.14	1/4	3,227.66	1/4	3,559.08
1/2	263.24	1/2	634.76	1/2	1,006.28	1/2	1,377.80	1/2	1,749.32	1/2	2,120.84	1/2	2,492.36	1/2	2,863.88	1/2	3,235.40	1/2	3,563.85
3/4	270.98	3/4	642.50	3/4	1,014.02	3/4	1,385.54	3/4	1,757.06	3/4	2,128.58	3/4	2,500.10	3/4	2,871.62	3/4	3,243.14	3/4	3,568.62
9	278.72	9	650.24	9	1,021.76	9	1,393.28	9	1,764.80	9	2,136.32	9	2,507.84	9	2,879.36	9	3,250.88	9	3,573.39
1/4	286.46	1/4	657.98	1/4	1,029.50	1/4	1,401.02	1/4	1,772.54	1/4	2,144.06	1/4	2,515.58	1/4	2,887.10	1/4	3,258.62	1/4	3,578.16
1/2	294.20	1/2	665.72	1/2	1,037.24	1/2	1,408.76	1/2	1,780.28	1/2	2,151.80	1/2	2,523.32	1/2	2,894.84	1/2	3,266.36	1/2	3,582.93
3/4	301.94	3/4	673.46	3/4	1,044.98	3/4	1,416.50	3/4	1,788.02	3/4	2,159.54	3/4	2,531.06	3/4	2,902.58	3/4	3,274.10	3/4	3,587.70
10	309.68	10	681.20	10	1,052.72	10	1,424.24	10	1,795.76	10	2,167.28	10	2,538.80	10	2,910.32	10	3,281.84	10	3,592.47
1/4	317.42	1/4	688.94	1/4	1,060.46	1/4	1,431.98	1/4	1,803.50	1/4	2,175.02	1/4	2,546.54	1/4	2,918.06	1/4	3,289.58	1/4	3,597.24
1/2	325.16	1/2	696.68	1/2	1,068.20	1/2	1,439.72	1/2	1,811.24	1/2	2,182.76	1/2	2,554.28	1/2	2,925.80	1/2	3,297.32	1/2	3,602.01
3/4	332.90	3/4	704.42	3/4	1,075.94	3/4	1,447.46	3/4	1,818.98	3/4	2,190.50	3/4	2,562.02	3/4	2,933.54	3/4	3,305.06	3/4	3,606.78
11	340.64	11	712.16	11	1,083.68	11	1,455.20	11	1,826.72	11	2,198.24	11	2,569.76	11	2,941.28	11	3,312.80	11	3,611.55
1/4	348.38	1/4	719.90	1/4	1,091.42	1/4	1,462.94	1/4	1,834.46	1/4	2,205.98	1/4	2,577.50	1/4	2,949.02	1/4	3,320.54	1/4	3,616.32
1/2	356.12	1/2	727.64	1/2	1,099.16	1/2	1,470.68	1/2	1,842.20	1/2	2,213.72	1/2	2,585.24	1/2	2,956.76	1/2	3,328.28	1/2	3,621.09
3/4	363.86	3/4	735.38	3/4	1,106.90	3/4	1,478.42	3/4	1,849.94	3/4	2,221.46	3/4	2,592.98	3/4	2,964.50	3/4	3,336.02	3/4	3,625.86

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

* CAPACITY BELOW STRIKE POINT
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
GAUGE POINT: (8" HATCH) LOCATED 12'-03" OFF CENTERLINE AND 47'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HORIZON 3009"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-04 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	3,630.63	0	3,859.59	0	4,063.10	0		0		0		0		0		0		0	
1/4	3,635.40	1/4	3,864.36	1/4	4,064.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,640.17	1/2	3,869.13	1/2	4,065.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,644.94	3/4	3,873.90	3/4	4,066.67	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,649.71	1	3,878.67	1	4,067.86	1		1		1		1		1		1		1	
1/4	3,654.48	1/4	3,883.44	1/4	4,068.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,659.25	1/2	3,888.21	1/2	4,068.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,664.02	3/4	3,892.98	3/4	4,069.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,668.79	2	3,897.75	2	4,069.44	2		2		2		2		2		2		2	
1/4	3,673.56	1/4	3,902.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,678.33	1/2	3,907.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,683.10	3/4	3,912.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,687.87	3	3,916.83	3		3		3		3		3		3		3		3	
1/4	3,692.64	1/4	3,921.60	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,697.41	1/2	3,926.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,702.18	3/4	3,931.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,706.95	4	3,935.91	4		4		4		4		4		4		4		4	
1/4	3,711.72	1/4	3,940.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,716.49	1/2	3,945.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,721.26	3/4	3,950.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,726.03	5	3,954.99	5		5		5		5		5		5		5		5	
1/4	3,730.80	1/4	3,959.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,735.57	1/2	3,964.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,740.34	3/4	3,969.30	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,745.11	6	3,974.07	6		6		6		6		6		6		6		6	
1/4	3,749.88	1/4	3,978.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,754.65	1/2	3,983.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,759.42	3/4	3,988.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,764.19	7	3,993.15	7		7		7		7		7		7		7		7	
1/4	3,768.96	1/4	3,997.92	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,773.73	1/2	4,002.69	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,778.50	3/4	4,007.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,783.27	8	4,012.23	8		8		8		8		8		8		8		8	
1/4	3,788.04	1/4	4,016.60	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,792.81	1/2	4,020.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,797.58	3/4	4,025.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,802.35	9	4,029.72	9		9		9		9		9		9		9		9	
1/4	3,807.12	1/4	4,033.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,811.89	1/2	4,036.87	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,816.66	3/4	4,040.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,821.43	10	4,044.03	10		10		10		10		10		10		10		10	
1/4	3,826.20	1/4	4,046.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,830.97	1/2	4,049.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,835.74	3/4	4,052.37	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,840.51	11	4,055.15	11		11		11		11		11		11		11		11	
1/4	3,845.28	1/4	4,057.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,850.05	1/2	4,059.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,854.82	3/4	4,061.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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BARGE "HORIZON 3009"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-03 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	*16.50	0	371.60	0	743.12	0	1,114.64	0	1,486.16	0	1,857.68	0	2,229.20	0	2,600.72	0	2,972.24	0	3,343.76
1/4	21.43	1/4	379.34	1/4	750.86	1/4	1,122.38	1/4	1,493.90	1/4	1,865.42	1/4	2,236.94	1/4	2,608.38	1/4	2,979.98	1/4	3,351.50
1/2	26.35	1/2	387.08	1/2	758.60	1/2	1,130.12	1/2	1,501.64	1/2	1,873.16	1/2	2,244.68	1/2	2,616.05	1/2	2,987.72	1/2	3,359.24
3/4	31.28	3/4	394.82	3/4	766.34	3/4	1,137.86	3/4	1,509.38	3/4	1,880.90	3/4	2,252.42	3/4	2,623.71	3/4	2,995.46	3/4	3,366.98
1	36.20	1	402.56	1	774.08	1	1,145.60	1	1,517.12	1	1,888.64	1	2,260.16	1	2,631.38	1	3,003.20	1	3,374.72
1/4	43.12	1/4	410.30	1/4	781.82	1/4	1,153.34	1/4	1,524.86	1/4	1,896.38	1/4	2,267.90	1/4	2,639.19	1/4	3,010.94	1/4	3,382.46
1/2	50.05	1/2	418.04	1/2	789.56	1/2	1,161.08	1/2	1,532.60	1/2	1,904.12	1/2	2,275.64	1/2	2,647.01	1/2	3,018.68	1/2	3,390.20
3/4	56.97	3/4	425.78	3/4	797.30	3/4	1,168.82	3/4	1,540.34	3/4	1,911.86	3/4	2,283.38	3/4	2,654.82	3/4	3,026.42	3/4	3,397.94
2	63.89	2	433.52	2	805.04	2	1,176.56	2	1,548.08	2	1,919.60	2	2,291.12	2	2,662.64	2	3,034.16	2	3,405.68
1/4	71.40	1/4	441.26	1/4	812.78	1/4	1,184.30	1/4	1,555.82	1/4	1,927.34	1/4	2,298.86	1/4	2,670.38	1/4	3,041.90	1/4	3,413.21
1/2	78.90	1/2	449.00	1/2	820.52	1/2	1,192.04	1/2	1,563.56	1/2	1,935.08	1/2	2,306.60	1/2	2,678.12	1/2	3,049.64	1/2	3,420.73
3/4	86.41	3/4	456.74	3/4	828.26	3/4	1,199.78	3/4	1,571.30	3/4	1,942.82	3/4	2,314.34	3/4	2,685.86	3/4	3,057.38	3/4	3,428.26
3	93.91	3	464.48	3	836.00	3	1,207.52	3	1,579.04	3	1,950.56	3	2,322.08	3	2,693.60	3	3,065.12	3	3,435.79
1/4	101.41	1/4	472.22	1/4	843.74	1/4	1,215.26	1/4	1,586.78	1/4	1,958.30	1/4	2,329.82	1/4	2,701.34	1/4	3,072.86	1/4	3,442.82
1/2	108.92	1/2	479.96	1/2	851.48	1/2	1,223.00	1/2	1,594.52	1/2	1,966.04	1/2	2,337.56	1/2	2,709.08	1/2	3,080.60	1/2	3,449.85
3/4	116.42	3/4	487.70	3/4	859.22	3/4	1,230.74	3/4	1,602.26	3/4	1,973.78	3/4	2,345.30	3/4	2,716.82	3/4	3,088.34	3/4	3,456.89
4	123.92	4	495.44	4	866.96	4	1,238.48	4	1,610.00	4	1,981.52	4	2,353.04	4	2,724.56	4	3,096.08	4	3,463.92
1/4	131.66	1/4	503.18	1/4	874.70	1/4	1,246.22	1/4	1,617.74	1/4	1,989.26	1/4	2,360.78	1/4	2,732.30	1/4	3,103.82	1/4	3,470.39
1/2	139.40	1/2	510.92	1/2	882.44	1/2	1,253.96	1/2	1,625.48	1/2	1,997.00	1/2	2,368.52	1/2	2,740.04	1/2	3,111.56	1/2	3,476.85
3/4	147.14	3/4	518.66	3/4	890.18	3/4	1,261.70	3/4	1,633.22	3/4	2,004.74	3/4	2,376.26	3/4	2,747.78	3/4	3,119.30	3/4	3,483.32
5	154.88	5	526.40	5	897.92	5	1,269.44	5	1,640.96	5	2,012.48	5	2,384.00	5	2,755.52	5	3,127.04	5	3,489.79
1/4	162.62	1/4	534.14	1/4	905.66	1/4	1,277.18	1/4	1,648.70	1/4	2,020.22	1/4	2,391.74	1/4	2,763.26	1/4	3,134.78	1/4	3,495.69
1/2	170.36	1/2	541.88	1/2	913.40	1/2	1,284.92	1/2	1,656.44	1/2	2,027.96	1/2	2,399.48	1/2	2,771.00	1/2	3,142.52	1/2	3,501.59
3/4	178.10	3/4	549.62	3/4	921.14	3/4	1,292.66	3/4	1,664.18	3/4	2,035.70	3/4	2,407.22	3/4	2,778.74	3/4	3,150.26	3/4	3,507.50
6	185.84	6	557.36	6	928.88	6	1,300.40	6	1,671.92	6	2,043.44	6	2,414.96	6	2,786.48	6	3,158.00	6	3,513.40
1/4	193.58	1/4	565.10	1/4	936.62	1/4	1,308.14	1/4	1,679.66	1/4	2,051.18	1/4	2,422.70	1/4	2,794.22	1/4	3,165.74	1/4	3,518.73
1/2	201.32	1/2	572.84	1/2	944.36	1/2	1,315.88	1/2	1,687.40	1/2	2,058.92	1/2	2,430.44	1/2	2,801.96	1/2	3,173.48	1/2	3,524.07
3/4	209.06	3/4	580.58	3/4	952.10	3/4	1,323.62	3/4	1,695.14	3/4	2,066.66	3/4	2,438.18	3/4	2,809.70	3/4	3,181.22	3/4	3,529.40
7	216.80	7	588.32	7	959.84	7	1,331.36	7	1,702.88	7	2,074.40	7	2,445.92	7	2,817.44	7	3,188.96	7	3,534.74
1/4	224.54	1/4	596.06	1/4	967.58	1/4	1,339.10	1/4	1,710.62	1/4	2,082.14	1/4	2,453.66	1/4	2,825.18	1/4	3,196.70	1/4	3,539.63
1/2	232.28	1/2	603.80	1/2	975.32	1/2	1,346.84	1/2	1,718.36	1/2	2,089.88	1/2	2,461.40	1/2	2,832.92	1/2	3,204.44	1/2	3,544.52
3/4	240.02	3/4	611.54	3/4	983.06	3/4	1,354.58	3/4	1,726.10	3/4	2,097.62	3/4	2,469.14	3/4	2,840.66	3/4	3,212.18	3/4	3,549.42
8	247.76	8	619.28	8	990.80	8	1,362.32	8	1,733.84	8	2,105.36	8	2,476.88	8	2,848.40	8	3,219.92	8	3,554.31
1/4	255.50	1/4	627.02	1/4	998.54	1/4	1,370.06	1/4	1,741.58	1/4	2,113.10	1/4	2,484.62	1/4	2,856.14	1/4	3,227.66	1/4	3,559.08
1/2	263.24	1/2	634.76	1/2	1,006.28	1/2	1,377.80	1/2	1,749.32	1/2	2,120.84	1/2	2,492.36	1/2	2,863.88	1/2	3,235.40	1/2	3,563.85
3/4	270.98	3/4	642.50	3/4	1,014.02	3/4	1,385.54	3/4	1,757.06	3/4	2,128.58	3/4	2,500.10	3/4	2,871.62	3/4	3,243.14	3/4	3,568.62
9	278.72	9	650.24	9	1,021.76	9	1,393.28	9	1,764.80	9	2,136.32	9	2,507.84	9	2,879.36	9	3,250.88	9	3,573.39
1/4	286.46	1/4	657.98	1/4	1,029.50	1/4	1,401.02	1/4	1,772.54	1/4	2,144.06	1/4	2,515.58	1/4	2,887.10	1/4	3,258.62	1/4	3,578.16
1/2	294.20	1/2	665.72	1/2	1,037.24	1/2	1,408.76	1/2	1,780.28	1/2	2,151.80	1/2	2,523.32	1/2	2,894.84	1/2	3,266.36	1/2	3,582.93
3/4	301.94	3/4	673.46	3/4	1,044.98	3/4	1,416.50	3/4	1,788.02	3/4	2,159.54	3/4	2,531.06	3/4	2,902.58	3/4	3,274.10	3/4	3,587.70
10	309.68	10	681.20	10	1,052.72	10	1,424.24	10	1,795.76	10	2,167.28	10	2,538.80	10	2,910.32	10	3,281.84	10	3,592.47
1/4	317.42	1/4	688.94	1/4	1,060.46	1/4	1,431.98	1/4	1,803.50	1/4	2,175.02	1/4	2,546.54	1/4	2,918.06	1/4	3,289.58	1/4	3,597.24
1/2	325.16	1/2	696.68	1/2	1,068.20	1/2	1,439.72	1/2	1,811.24	1/2	2,182.76	1/2	2,554.28	1/2	2,925.80	1/2	3,297.32	1/2	3,602.01
3/4	332.90	3/4	704.42	3/4	1,075.94	3/4	1,447.46	3/4	1,818.98	3/4	2,190.50	3/4	2,562.02	3/4	2,933.54	3/4	3,305.06	3/4	3,606.78
11	340.64	11	712.16	11	1,083.68	11	1,455.20	11	1,826.72	11	2,198.24	11	2,569.76	11	2,941.28	11	3,312.80	11	3,611.55
1/4	348.38	1/4	719.90	1/4	1,091.42	1/4	1,462.94	1/4	1,834.46	1/4	2,205.98	1/4	2,577.50	1/4	2,949.02	1/4	3,320.54	1/4	3,616.32
1/2	356.12	1/2	727.64	1/2	1,099.16	1/2	1,470.68	1/2	1,842.20	1/2	2,213.72	1/2	2,585.24	1/2	2,956.76	1/2	3,328.28	1/2	3,621.09
3/4	363.86	3/4	735.38	3/4	1,106.90	3/4	1,478.42	3/4	1,849.94	3/4	2,221.46	3/4	2,592.98	3/4	2,964.50	3/4	3,336.02	3/4	3,625.86

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

* CAPACITY BELOW STRIKE POINT

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

GAUGE POINT: (8" HATCH) LOCATED 12'-03" OFF CENTERLINE AND 47'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HORIZON 3009"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 3009"

GAUGE HEIGHT 12'-03 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	3,630.63	0	3,859.59	0	4,063.10	0		0		0		0		0		0		0	
1/4	3,635.40	1/4	3,864.36	1/4	4,064.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,640.17	1/2	3,869.13	1/2	4,065.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,644.94	3/4	3,873.90	3/4	4,066.67	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	3,649.71	1	3,878.67	1	4,067.86	1		1		1		1		1		1		1	
1/4	3,654.48	1/4	3,883.44	1/4	4,068.25	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.25	1/2	3,888.21	1/2	4,068.65	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,664.02	3/4	3,892.98	3/4	4,069.04	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	3,668.79	2	3,897.75	2	4,069.44	2		2		2		2		2		2		2	
1/4	3,673.56	1/4	3,902.52	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.33	1/2	3,907.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.10	3/4	3,912.06	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3,687.87	3	3,916.83	3		3		3		3		3		3		3		3	
1/4	3,692.64	1/4	3,921.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,697.41	1/2	3,926.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.18	3/4	3,931.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	3,706.95	4	3,935.91	4		4		4		4		4		4		4		4	
1/4	3,711.72	1/4	3,940.68	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,716.49	1/2	3,945.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,721.26	3/4	3,950.22	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	3,726.03	5	3,954.99	5		5		5		5		5		5		5		5	
1/4	3,730.80	1/4	3,959.76	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.57	1/2	3,964.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.34	3/4	3,969.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	3,745.11	6	3,974.07	6		6		6		6		6		6		6		6	
1/4	3,749.88	1/4	3,978.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,754.65	1/2	3,983.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,759.42	3/4	3,988.38	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	3,764.19	7	3,993.15	7		7		7		7		7		7		7		7	
1/4	3,768.96	1/4	3,997.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,773.73	1/2	4,002.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,778.50	3/4	4,007.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	3,783.27	8	4,012.23	8		8		8		8		8		8		8		8	
1/4	3,788.04	1/4	4,016.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,792.81	1/2	4,020.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,797.58	3/4	4,025.35	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,802.35	9	4,029.72	9		9		9		9		9		9		9		9	
1/4	3,807.12	1/4	4,033.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.89	1/2	4,036.87	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,816.66	3/4	4,040.45	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,821.43	10	4,044.03	10		10		10		10		10		10		10		10	
1/4	3,826.20	1/4	4,046.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,830.97	1/2	4,049.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,835.74	3/4	4,052.37	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,840.51	11	4,055.15	11		11		11		11		11		11		11		11	
1/4	3,845.28	1/4	4,057.14	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,850.05	1/2	4,059.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,854.82	3/4	4,061.11	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: 01/29/1997 INSP.
DECK MEASUREMENTS: 05/03/2007 CL
REPRINTED: 05/03/2007 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2007

PRECISION MEASUREMENT
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