



STORAGE CONTROL, INC.

Toll Free
800-262-TANK

PRECISION UNDERGROUND TANK TESTING SERVICE

Serving Northern California

RECEIVED

NOV 14 1988

November 7, 1988

ENVIRONMENTAL MANAGEMENT DEPT.
HAZARDOUS MATERIALS DIVISION

County of Sacramento
Environmental Health Department
3701 Branch Center Road
Sacramento, CA 95827

ATTN: Underground Storage Tank Division

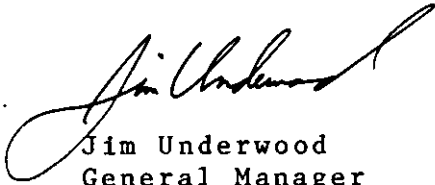
Gentlemen:

Enclosed are the results of the precision tank tests performed on
November 6, 1988 at the following location:

RIVER RAT MIMI MART
9840 FAIR OAKS BLVD
FAIR OAKS, CA 96528

Sincerely,

WESTERN STORAGE CONTROL, INC.



Jim Underwood
General Manager

encl.

—OAKLAND—
608 20th Street
Suite 11
Oakland, CA 95612

—SACRAMENTO—
5117 Folsom Blvd.
Suite 128
Sacramento, CA 95819

—LAKE TAHOE—
2301 Highway 50
Suite 521
P.O. Box 2000
S. Lake Tahoe, CA 95705

—REDDING—
1698 Market Street
Suite 171
P.O. Box 6007
Redding, CA 96099

—MODESTO—
3507 Tully Rd.
Suite E2-120
Modesto, CA 95356

—SANTA ROSA—
1791 Marlow Rd.
Suite 311
Santa Rosa, CA 95401

MAIN OFFICE • 3031 Alhambra Drive, Suite 205A • Cameron Park, CA 95682 • (916) 677-7605

WESTERN STORAGE CONTROL, INC

REPORT OF THE AINLAY TTT TANK TEST

Date 11/ 6/88

Company RIVER RAT MINI-MART

Address 9840 FAIR OAKS BLVD.

City FAIR OAKS, CA 96528

LOCATION: SAME

Grade of Product SUPER PREMIUM

60 Minute Temperature Check

Starting Time for Temperature Check 8:35 Completion Time 9:35

A	:	B	:	C	:	D	:	E	:	F
TEMPERATURES										
Probes	:	Start of Test:	:	End of Test:	:	Temp Shift	:	Multiply	:	Add up for
	:		:		:	(C-B)+ or -	:	D by E	:	Weighted Shift
Top	:	74.57	:	74.55	:	-.02	:	X .25	:	-.005
Middle	:	73.60	:	73.59	:	-.01	:	X .50	:	-.005
Bottom	:	73.25	:	73.24	:	-.01	:	X .25	:	-.003

1. Add the results in Column F (Weighted Ave. temp. Shift).....= -.013

2. Tank Diameter 75 2-3000 GALLON Total Capacity= 6000

3. Exact Water level in tank bottom Start 1/2 End 1/2

60 Minute Volume Check

Starting Time 8:35 Completion Time 9:35

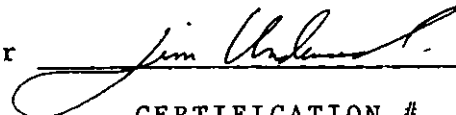
4. Exact amount of Liquid lost and replaced (-) or gained and removed (+) in fill pipe to restore Original Level.....= -.064
5. API gravity of Tested Liquid in Graduate= 55.8
6. Temperature of Tested Liquid in Graduate= 56
7. Subtract Line 6 from 60 degrees. (result is + or -).....= +4
8. Multiply Line 7 x .1= +.4
9. Line 5 + or - Line 8 (API Gravity adjusted for Temperature)....= 56.2
10. With Line 9, enter Table C. Read Coefficient of Expansion...= .0006630
11. Multiply Line 10 by Line 2 (Gallons)
(Volume Change for each Degree of Temperature Change).....= 3.978
12. Multiply Line 11 by Line 1
(Volume Change Due to Temperature)= -.052 -.064
13. Change Sign of Line 12 (see Sec. 9.4) and add to Line 4 +.052
Mathematically. (Net change in gallons) (+ or -).....= -.012 -.012
(Double check sign: Minus if product lost, Plus if gained)

NOTE: N.F.P.A in Publication #329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189ml) per hour.
Therefore, since tested tank had a loss/gain of (Line 13) -.012 Gallons per hour it DOES/DOES NOT meet the N.F.P.A. criterion for tank tightness.

Remarks: TEST SHOWS TANK SYSTEM TIGHT

JIM UNDERWOOD

Tester



CERTIFICATION # 1023

Accuracy of test is dependent on operator following instructions and is the sole responsibility of the operator. The "AINLAY Tank'Tegrity Tester" is a registered Trade Mark of STI Services, Northbrook, IL 60062.

AINLAY TANK'TEGRITY TESTER

WESTERN STORAGE CONTROL, INC

REPORT OF THE AINLAY TTT TANK TEST

Date 11/ 6/88

Company RIVER RAT MINI-MART

Address 9840 FAIR OAKS BLVD.

City FAIR OAKS, CA 96528

LOCATION: SAME

Grade of Product UNLEADED

60 Minute Temperature Check

Starting Time for Temperature Check 9:10 Completion Time 10:10

A	:	B	:	C	:	D	:	E	:	F
TEMPERATURES										
Probes	:	Start of Test:	:	End of Test:	:	Temp Shift	:	Multiply	:	Add up for
	:		:		:	(C-B)+ or -	:	D by E	:	Weighted Shift
Top	:	72.04	:	72.06	:	+0.02	:	X .25	:	= +.005
Middle	:	71.52	:	71.53	:	+0.01	:	X .50	:	= +.005
Bottom	:	71.32	:	71.34	:	+0.02	:	X .25	:	= +.005

1. Add the results in Column F (Weighted Ave. temp. Shift).....= +0.015

2. Tank Diameter 96 Total Capacity= 8000

3. Exact Water level in tank bottom Start 1/4 End 1/4

60 Minute Volume Check

Starting Time 9:10 Completion Time 10:10

4. Exact amount of Liquid lost and replaced (-) or gained and removed (+) in fill pipe to restore Original Level.....= +0.074
5. API gravity of Tested Liquid in Graduate= 59.8
6. Temperature of Tested Liquid in Graduate= 65
7. Subtract Line 6 from 60 degrees. (result is + or -).....= -5
8. Multiply Line 7 x .1= -.5
9. Line 5 + or - Line 8 (API Gravity adjusted for Temperature)....= 59.3
10. With Line 9, enter Table C. Read Coefficient of Expansion....= .0006797
11. Multiply Line 10 by Line 2 (Gallons)
(Volume Change for each Degree of Temperature Change).....= 5.4376
12. Multiply Line 11 by Line 1
(Volume Change Due to Temperature)= +0.082 +0.074
13. Change Sign of Line 12 (see Sec. 9.4) and add to Line 4
Mathematically. (Net change in gallons) (+ or -).....= -.008 -.082
(Double check sign: Minus if product lost, Plus if gained) -.008

NOTE: N.F.P.A in Publication #329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189ml) per hour.
Therefore, since tested tank had a loss/gain of (Line 13) -.008 Gallons per hour it DOES/DOES NOT meet the N.F.P.A. criterion for tank tightness.

Remarks: TEST SHOWS TANK SYSTEM TIGHT

JIM UNDERWOOD

Tester 

CERTIFICATION # 1023

Accuracy of test is dependent on operator following instructions and is the sole responsibility of the operator. The "AINLAY Tank Tegrity Tester" is a registered Trade Mark of STI Services, Northbrook, IL 60062.
AINLAY TANK'TEGRITY TESTER

WESTERN STORAGE CONTROL, INC

REPORT OF THE AINLAY TTT TANK TEST

Date 11/ 6/88

Company RIVER RAT MINI-MART

Address 9840 FAIR OAKS BLVD.

City FAIR OAKS, CA 96528

LOCATION: SAME

Grade of Product REGULAR

60 Minute Temperature Check

Starting Time for Temperature Check 8:40 Completion Time 9:40

A	:	B	:	C	:	D	:	E	:	F
TEMPERATURES										
Probes	:	Start of Test:	:	End of Test:	:	Temp Shift	:	Multiply	:	Add up for
	:		:		:	(C-B)+ or -	:	D by E	:	Weighted Shift
Top	:	71.02	:	71.04	:	+ .02	:	X .25	:	= +.005
Middle	:	69.90	:	69.91	:	+ .01	:	X .50	:	= +.005
Bottom	:	69.80	:	69.83	:	+ .03	:	X .25	:	= +.008

1. Add the results in Column F (Weighted Ave. temp. Shift).....= + .018

2. Tank Diameter 75 2-4000 GALLON Total Capacity= 8000

3. Exact Water level in tank bottom Start 1/2 End 1/2

60 Minute Volume Check

Starting Time 8:40 Completion Time 9:40

4. Exact amount of Liquid lost and replaced (-) or gained and removed (+) in fill pipe to restore Original Level.....= + .076
 5. API gravity of Tested Liquid in Graduate= 55.6
 6. Temperature of Tested Liquid in Graduate= 56
 7. Subtract Line 6 from 60 degrees. (result is + or -).....= +4
 8. Multiply Line 7 x .1= + .4
 9. Line 5 + or - Line 8 (API Gravity adjusted for Temperature)....= 56.00
 10. With Line 9, enter Table C. Read Coefficient of Expansion....= .0006620
 11. Multiply Line 10 by Line 2 (Gallons)
(Volume Change for each Degree of Temperature Change).....= 5.296
 12. Multiply Line 11 by Line 1
(Volume Change Due to Temperature)= + .095
 13. Change Sign of Line 12 (see Sec. 9.4) and add to Line 4
Mathematically. (Net change in gallons) (+ or -).....= - .019
- (Double check sign: Minus if product lost, Plus if gained)

NOTE: N.F.P.A in Publication #329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189ml) per hour.

Therefore, since tested tank had a loss/gain of (Line 13) - .019 Gallons per hour it DOES/DOES NOT meet the N.F.P.A. criterion for tank tightness.

Remarks: TEST SHOWS TANK SYSTEM TIGHT

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Tester

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AINLAY TANK'TEGRITY TESTER