



6601 Koll Center Parkway
P.O. Box 5252
Pleasanton, CA 94566
(415) 426-8787

December 21, 1990

Mr. Scott Seary
Alameda County Health Agency
Division of Hazardous Materials
80 Swan Way, Rm 200
Oakland, CA 94621

RE: Tank Test 6527 Calaveras Road, Sunol
4,000 gallon unleaded gasoline UST

Dear Mr. Seary:

As promised yesterday in our telephone conversation I am submitting a copy of the tank test results along with this letter explaining the events which took place prior to the tank passing its final pressure test. Please note that in addition to adding an air vent relief valve, a new riser pipe was installed and the vent line was shortened. I apologize for not bringing this information to your attention but I have been working on several tank projects simultaneously and did not have my file with me during our conversation.

The tank was first tested on October 19 and terminated due to a possible large air vapor pocket trapped in the high end of the tank. I visited the site a few days after the tank test results were verbally reported to me. After an inspection of the tank I decided that it may not be an air vapor pocket but rather a bad weld at the top of the fill riser pipe which holds the drop tube in place. I instructed plant personnel to remove the drop pipe and disconnect the fitting at the top of the fill riser.

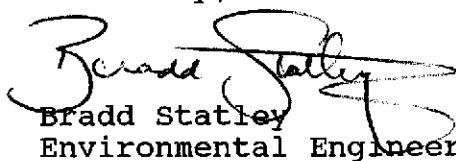
The tank was retested on October 31 and was again terminated. It was decided that we would excavate and expose the tank top and associated piping. After inspecting the exposed tank I decided to replace the riser pipe to eliminate a three sectioned pipe with one continuous four inch riser.

On December 12 the tank was again tested, this time it passed. The tester indicated he had to further expose the high end of the tank and vent the air pocket trapped inside. My conversation with the tester led me to believe that the

tank failed its two previous test due to this trapped air pocket. An air vent release line was installed to eliminate this from happening during future tank testing. We also decided to shorten the air vent line to eliminate one angled coupling. Please note that there were no visual signs of any product released from the tank when the tank was exposed.

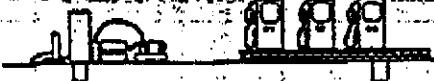
Should you have any questions or require any additional information please contact me at (415) 426-2279.

Sincerely,



Bradd Statley
Environmental Engineer

encl.

Data Chart for Tank System Tightness Test**CHAMPION'S PRECISION TANK**

USE PRINT

1. OWNER Property <input type="checkbox"/>		RMC Lonestar Industries P.O. Box 5252 Pleasanton, Ca. 94566					
Tank(s) <input type="checkbox"/>		Name Attn: Bradd Stately	Address	Representative	Telephone		
		Name Address	Address	Representative	Telephone		
2. OPERATOR		RMC LONESTAR CALIFORNIA 94566 Sunol Ca.					
3. REASON FOR TEST (Explain Fully)		REGULATION GOVERNING UNDERGROUND STORAGE OF HAZARDOUS SUBSTANCES SUBCHAPTER 16 OF CHAPTER 3 OF TITLE 23 OF THE CALIFORNIA ADMINISTRATIVE CODE					
4. WHO REQUESTED TEST AND WHEN		OWNER					
		Name	Type	Comments or Affiliation	Date		
		Address		Telephone			
5. WHO IS PAYING FOR THIS TEST?		OWNER					
		Company, Agency or Individual		Person Authorizing	Type	Telephone	
		Billing Address		City	State	Zip	
		Attention of:		Order No.	Other Instructions		
6. TANK(S) INVOLVED		Identity by Direction EW	Capacity 4000	Brand/Supplier	Grade UNLADED	Approx. Age	Steel/Fiberglass SATISFIED
7. INSTALLATION DATA		Location North Inside driveway, Rear of station, etc.	Cover EXPOSED Concrete, Black Top, Earth, etc.	Fins 4" Size, Thread make, Drop tubes, Remote Fins	Vents 2" Size, Manifolds	Siphones	Pump DISCONNECTED Suction Station, Remote, Make & known
8. UNDERGROUND WATER		Depth to the Water table BELLOW TANK				Is the water over the tank? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. FILL-UP ARRANGEMENTS		Tanks to be filled _____ hr. _____ Date _____ Arranged By _____ Name _____ Telephone _____ Extra product to "top off" and run TSTT. How and who to provide? Consider NO Lead.					
		Terminal or other contact for notice or inquiry _____ Company _____ Name _____ Telephone _____					
10. CONTRACTOR, MECHANICS, any other contractor involved							
11. OTHER INFORMATION OR REMARKS		TESTER: TWODIGIT TANK, PLUMBING EXPOSED OR REMOVED.					
		Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test etc.					
12. TEST RESULTS		Tests were made on the above tank systems in accordance with test procedures prescribed for PETRO-TITE as detailed on attached test chart with results as follows:					
		Tank Identification UNLADED	Tight YES	Leakage Indicated NO	Date Tested 11-27-90		
13. CERTIFICATION		This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Association Pamphlet 329.					
11-27-90 Date		W. Campbell					

CHAMPION'S PRECISION TANK TESTING

2308 HARVARD ST., SACRAMENTO, CA 95815

02-1224

P-T TANK TEST DATA CHART
Additional Info

P. 04

T0

FROM COPIES AND MORRE ...

12/20/1990 12:16

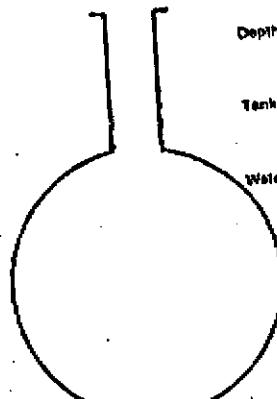
0900

Arrived job site. Retest on an exposed tank, new 11" pipe installed on the west end of the tank. New vent line installed, and exposed. Suction line installed on the east end of the tank. Product line not exposed. Cut product line at tank (no union). Remove fittings from the double tap bushing. There was no room to remove the bushing from the tank. A small hole was drilled through the fitting to bleed air from around the double tap bushing. Also, it's the high end of the tank. Erect scaffolding in tank pit to contain test float. Set up float, fill, check for visible leaks, remove air from tank and float.

1200

Start circulation.

Extending circulation time. Indications of a small air bubble present.



**EXPOSED TANK,
PIPE PUT DOWN
AT THE END OF
THE TANK TO CHECK
FOR WATER.**

The above calculations are to be used for dry soil conditions to establish a positive pressure advantage, or when using the four pound rule to compensate for the presence of subsurface water in the tank area.

Refer to N.F.P.A. 50, Sections 2-3.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.

TEST TO TEST
EAST / WEST
Identity by position
UNLOADED
Brand and Grade

Address No. and Street(s)

City

15a. BRIEF DIAGRAM OF TANK FIELD**16. CAPACITY**Nominal Capacity 4000 GallonsBy most accurate
capacity chart available4000 Gallons

From

- Station Chart
- Tank Manufacturer's Chart
- Company Engineering Data
- Charts supplied with
- Other _____

17. FILL-UP FOR TESTSuch Water Bottom
before Fill-up

10 58"

Gallons

75 in.
Tank Diameter

Inventory

Gallons

Total Gallons
as Reading4000

5

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

See manual sections applicable. Check below and record procedure in log (27).

Use maximum allowable test pressure for all tests.

Four pound rule does not apply to doublewalled tanks.

Complete section below:

1. Is four pound rule required?

Yes No

2. Height to 12" mark from bottom of tank

1162 in.

3. Pressure at bottom of tank

116 P.S.I.

4. Pressure at top of tank

2.31 P.S.I.

Depth of burial

144 in.

Tank dia.

75 in.

NOTES:

BLOW TANK
EXPOSED TANK,
PIPE PUT DOWN
AT THE END OF
THE TANK TO CHECK
FOR WATER.

The above calculations are to be used for dry soil conditions to establish a positive pressure advantage, or when using the four pound rule to compensate for the presence of subsurface water in the tank area.

Refer to N.F.P.A. 50, Sections 2-3.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.

 Water in tank (Lines) being tested with LVLT High water table in tank excavation**19. TANK MEASUREMENTS FOR TSTT ASSEMBLY**Bottom of tank to grade* 144 in.Add 30" for "T" probe assembly 30 in.

Total tubing to assemble -- approximate in.

20. EXTENSION HOSE SETTINGTank top to grade* 69 in.Extend hose on suction tube 6" or more
below tank top in.

* If fill pipe extends above grade, use top of fill.

22. Thermal-Banor reading after circulation

12.648 °F60.61 °FBetween 32 digits

Digital

23. Digits per °F in range of expected change

COEFFICIENT OF EXPANSION (Complete after circulation)

24a. Corrected A.P.I. Gravity

Observed A.P.I. Gravity H

Hydrometer employed °F

Observed Sample Temperature °F

Corrected A.P.I. Gravity H

@ 60°F, From Table A

Coefficient of Expansion
for Involved Product
From Table B

Transfer COE to Line 26b

25. (a)

Total quantity in
full tank (16 or 17)

(b)

Coefficient of expansion for
Involved product26. (a) 2.6717811Digits per °F in last
flange (23)

321

Digits per °F in last
flange (23)**21. VAPOR RECOVERY SYSTEM** Stage I Stage II**24b. COEFFICIENT OF EXPANSION
RECIPROCAL METHOD**Type of Product UNLOADEDHydrometer Employed 6 HTemperature in Tank
After Circulation 60.6 °FTemperature of Sample 60.0 °FDifference (°F)6Observed A.P.I. Gravity 56.8Reciprocal 1400 page # 62

4005 . 1400 . 2.67178

Total quantity in
full tank (16 or 17) ReciprocalVolume change in
this tank per °F

Transfer to Line 26b

24c. FOR TESTING WITH WATER *see Table C & D*Water Temperature after Circulation
Table CCoefficient of Water
Table DAdded Surfaceant? Yes No Transfer COE to Line 26b= (e) Volume change in this tank
per °F= 0083233 gallonsVolume change per digit
compute to 4 decimal placesThis is
test
factor (e)

27. Sensor Calibration _____ / _____			28. DATE	29. HUMIDITY PRESSURE CONTROL	30. LOG OF TEST PROCEDURES	31. VOLUME MEASUREMENTS OR RECORD TO .001 GAL.	32. TEMPERATURE COMPENSATION USE FACTOR (n)	33. VOLUME CHANGING EACH BEARING	34. ACCUMULATED CHANGE
TIME (24 hr.)	Record details of setting up and running test. (Use full length of line if needed.)			Reading No.	Standpipe Level in Inches	Product in Graduate	Product Replaced (-)	Temperature Adjustment	Volume Minus Expansion (+) or Contraction (-) 33°F - 13°F
					Beginning of Reading	Level to which Restored	Before Reading	After Reading	Product Recovered (+)
1200	START CALIBRATION	1200	1200	1200	40.0	42.0	.950	.860	-120
1300	FIRST SENSOR + API Sample	1300	1300	1300	41.1	44.0	.960	.910	-050
15	START HIGH LEVEL	15	15	15	41.9	42.0	.910	.900	-010
30		30	30	30	42.1	42.0	.800	.805	+005
45		45	45	45	42.2	42.0	.150	.160	+010
1400		1400	1400	1400	42.3	46.0	160	180	+020
15		15	15	15	42.3	42.0	.180	.205	+025
30	ENDING HIGH LEVEL	30	30	30	42.4	42.0	.205	.230	+025
45		45	45	45	42.4	42.0	.230	.255	+025
1500		1500	1500	1500	42.4	42.0	.205	.230	+025
	Go to Low Level								
1515	Rebound	1515	1515	1515	42.6	12.0	230	270	+0110
30	"	30	30	30	42.4	12.0	270	300	+030
40	START LOW LEVEL TEST	40	40	40	12.3	12.0	300	320	+020
50		50	50	50	12.3	12.0	320	340	+020
1600		1600	1600	1600	12.3	12.0	340	360	+020
10		10	10	10	12.1	12.0	360	370	+010
20		20	20	20	12.1	12.0	370	380	+010
30	SUN OFF TANK PT.	30	30	30	12.1	12.0	370	390	+010
40		40	40	40	12.1	12.0	390	395	+005
50		50	50	50	12.1	12.0	395	405	+010
1700		1700	1700	1700	12.1	12.0	405	410	+005
10		10	10	10	12.1	12.0	410	420	+010
20		20	20	20	12.1	12.0	420	425	+005
30		30	30	30	12.1	12.0	425	435	+010
40		40	40	40	12.1	12.0	435	440	+005
50		50	50	50	12.1	12.0	440	455	+015

1900		25	12.1	12.0	.020	.030	+.010	680	+1	+.002	+.002	+.016
10		26	12.1	12.0	.030	.035	+.005	681	+1	+.003	+.003	+.013
20		27	12.1	12.0	.035	.040	+.005	681	+0	+.005	+.005	+.018
30		28	12.1	12.0	.040	.045	+.005	682	+1	+.008	+.003	+.015

$\frac{+.005}{+3} = .005$

P-T Tank Test Data Chart Additional Info

1. Net Volume Change at Conclusion of Precision Test .005 gph

Signature of Tester: Bruce Campbell

11-27-90

2) Statement:

Tank and product handling system has been tested tight according to the Precision Test Criteria as established by N.F.P.A. publication 329. This is not intended to indicate permission of a leak.

OR

Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by N.F.P.A. publication 329.

It is the responsibility of the owner and/or operator of system to immediately advise state and local authorities of implied hazard and the possibility of any reportable pollution of the environment as a result of the indicated failure of system. Health Consultants Incorporated does not assume responsibility or liability for any loss of product to environment.

Tank Owner/Operator _____