Data Chart for Tank System Tightness Test

PLEASE PRINT

1. OWNER Property ☒ Tank(s) ☒

Name	Address	Representative	Telephone
ALAMEDA CELLARS	901 LINCOLN AVE. ALAMEDA 94501	RICK ZURAS	(415) 865-32
SAME AS ABOVE			

2. OPERATOR

Name	Address	Telephone
SAME AS ABOVE		

3. REASON FOR TEST (Explain Fully)

OWNER SATISFACTION

4. WHO REQUESTED TEST AND WHEN

Name	Title	Company or Affiliation	Date
RICK ZURAS			8-16-88

Address: _____ Telephone: _____

5. TANK INVOLVED Use additional lines for manifolded tanks

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx Age	Steel/Fiberglass
SOUTH WEST	10126	ACE	SUPREME U.L	10 YRS.	STEEL

6. INSTALLATION DATA

Location	Cover	Fills	Vents	Siphones	Pumps
SOUTH SIDE FRONT OF BUILDING	CONCRETE	4" W/DROP TUBES	2"	NONE	OLD TOKHEI SUB PUMP
North inside driveway, Rear of station, etc.	Concrete, Black Top, Earth, etc	Size, Titefill make, Drop tubes, Remote Fills	Size, Manifolded	Which tanks?	Suction, Remote, Make if known

7. UNDERGROUND WATER

Depth to the Water table Ø" Is the water over the tank? ☐ Yes ☒ No

8. FILL-UP ARRANGEMENTS

Tanks to be filled _____ hr. _____ Date Arranged by _____ Name _____ Telephone

Extra product to "top off" and run tank tester How and who to provide? Consider NO Lead.

Terminal or other contact for notice or inquiry _____ Company _____ Name _____ Telephone

9. CONTRACTOR, MECHANICS, any other contractor involved

BAY COUNTIES SERVICE STATION MAINTENANCE

10. OTHER INFORMATION OR REMARKS

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.

11. TEST RESULTS

Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
SUPER			

12. SENSOR CERTIFICATION

9-23-88
Date

1679
Serial No. of Thermal Sensor

13. 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.

Technicians

1 ROBERT RIVERA

Certification # 414813131

2 _____

Certification # _____

Robert Rivera BAY COUNTIES SERV. STA. MAINT.
Testing Contractor or Company. By. Signature

1096 YERBA BUENA AVE. EMERYVILLE CA
Address

PN6

Name of Supplier, Owner or Dealer | Address No and Street(s) | City | State | Date of Test

15. TANK TO TEST

Identity by position

SUPREME UNLEADED
Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

REGULAR | SUPREME

DIESEL

STORE

16. CAPACITY

Nominal Capacity 10000 Gallons

By most accurate capacity chart available 10126 Gallons

From
- [ ] Station Chart
- [x] Tank Manufacturer's Chart
- [ ] Company Engineering Data
- [ ] Charts supplied with
- [ ] Other

17. FILL-UP FOR TEST

Stick Water Bottom before Fill-up ____ in to ¼"

Gallons

95 in Tank Diameter

	Gallons	Total Gallons ea Reading
Inventory		10126
	TOP OFF	15
	H2Ø	0
		10141

Transfer total to line 25a

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

- [ ] Water in tank
- [ ] Line(s) being tested with LVLLT
- [ ] High water table in tank excavation

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

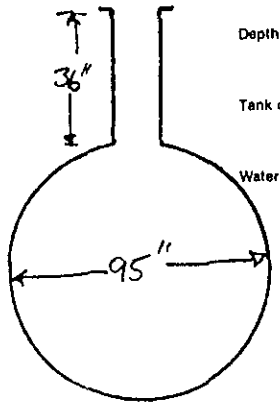
Complete section below

1 Is four pound rule required? Yes [ ] No [x]

2 Height to 12" mark from bottom of tank ____ in.

3 Pressure at bottom of tank ____ P.S.I

4 Pressure at top of tank ____ P.S.I



Depth of burial ____ in

Tank dia 95 in

Water table ____ in

NOTES:

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. 30, Sections 2-3.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade* 131 in.

Add 30" for "T" probe assy. 30 in.

Total tubing to assemble — approximate 161 in.

20. EXTENSION HOSE SETTING

Tank top to grade* ____ 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-Sensor reading after circulation 16578 digits

72/73 °F Between

23. Digits per °F in range of expected change 323 digits

COEFFICIENT OF EXPANSION (Complete after circulation)

24a. Corrected A.P.I. Gravity

Observed A.P.I. Gravity 59.2

Hydrometer employed 6 H

Observed Sample Temperature 77 °F

Corrected A.P.I. Gravity @ 60°F, From Table A 57.1

Coefficient of Expansion for Involved Product From Table B .0005930 1

Transfer COE to Line 25b.

21. VAPOR RECOVERY SYSTEM

- [ ] Stage I
- [ ] Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product ____

Hydrometer Employed ____ H

Temperature in Tank After Circulation ____ °F

Temperature of Sample ____ °F

Difference (+/-) ____ °F

Observed A.P.I. Gravity ____

Reciprocal ____ Page # ____

Total quantity in full tank (16 or 17)	÷ Reciprocal	* Volume change in this tank per °F, Transfer to Line 26a.

24c. FOR TESTING WITH WATER see Table C & D

Water Temperature after Circulation Table C ____ °F

Coefficient of Water Table D ____

Added Surfactant? [ ] Yes [ ] No Transfer COE to Line 25b

25. (a) 10141 Total quantity in full tank (16 or 17) × (b) .0005930 1 Coefficient of expansion for involved product = (c) 6.0137144 Volume change in this tank per °F gallons

26. (a) 6.0137144 Volume change per °F (25 or 24b) ÷ 323 Digits per °F in test Range (23) = .0186183 Volume change per digit Compute to 4 decimal places. This is test factor (a) .0186

27. Sensor Calibration ____ / ____

LOG OF TEST PROCEDURES

28. DATE / TIME (24 hr)	Record details of setting up and running test (Use full length of line if needed)	29 Reading No	30. HYDROSTATIC PRESSURE CONTROL: Standpipe Level in Inches — Beginning of Reading	Level to which Restored	31. VOLUME MEASUREMENTS (V) RECORD TO .001 GAL: 32 Product in Graduate — Before Reading	After Reading	33 Product Replaced (-) — Product Recovered (+)	34. TEMPERATURE COMPENSATION USE FACTOR (a): 35. Thermal Sensor Reading	36. Change Higher + Lower - (c)	37. Computation (c) × (a) = Expansion + Contraction -	38. NET VOLUME CHANGING EACH READING: Temperature Adjustment — Volume Minus Expansion (+) or Contraction (-) #33(V) - #37(T)	39. ACCUMULATED CHANGE: At Low Level compute Change per Hour (NFPA criteria)
0900	ARRIVED AT TEST LOCATION; SET UP EQUIPMENT; BLED AIR FROM LINES											
1030	PUMP PRIMED AND RUNNING								FACTOR A = .01867			
1210	REMOVED API SAMPLE							16				
1215	FIRST SENSOR READING	1		42				578				
1230	START HIGH LEVEL TEST	2	42.7	42	.510	.550	+.040	583	+5	+.093	-.053	
1245	HIGH LEVEL TEST CONTINUE	3	42.7	42	.550	.590	+.040	589	+6	+.112	-.072	
1300	" " " "	4	42.6	42	.590	.620	+.030	594	+5	+.093	-.063	
1315	" " " "	5	42.6	42	.620	.655	+.035	599	+5	+.093	-.058	
1330	" " " "	6	42.6	42	.655	.695	+.040	607	+8	+.149	-.109	
1345	" " " "	7	42.5	42	.695	.725	+.030	611	+4	+.074	-.044	
1400	" " " "	8	42.5	42	.725	.760	+.035	616	+5	+.093	-.058	
1401	DROPPED TO LOW LEVEL TEST			12				616				
1415	START LOW LEVEL TEST	1	13.0	12	.465	.525	+.060	620	+4	+.074	-.014	
1430	LOW LEVEL TEST CONTINUE	2	13.1	12	.525	.590	+.065	626	+6	+.112	-.047	-.061
1445	" " " "	3	12.9	12	.590	.650	+.060	632	+6	+.112	-.052	-.113
1500	" " " "	4	13.1	12	.650	.720	+.070	639	+7	+.131	-.061	-.174
1515	" " " "	5	12.8	12	.720	.770	+.050	642	+3	+.056	-.006	-.180
1530	" " " "	6	12.8	12	.770	.820	+.050	646	+4	+.075	-.025	-.205
1545	" " " "	7	13.0	12	.820	.880	+.060	653	+7	+.131	-.071	-.276
1600		8	12.9	12	.880	.930	+.050	657	+4	+.075	-.025	-.301
										GPH =	-.127	
									CRITERIA OF ±.050 GALLON/HOUR			

FACTOR .0187

The criteria established of ±.050 gallon/hour is a mathematical [illegible] based on actual liquid volume [illegible] and is not

CRITERIA OF ±.050 GALLON/HOUR

The criteria established of ±.050 gallon/hour is a mathematical calculation based on actual liquid volume change and temperature change, and is not intended as a permission of a leak.

P-T Tank Test Data Chart
Additional Info

1. Net Volume Change at Conclusion of Precision Test .127 gph

Signature of Tester [signature]

Date 8-23-85

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

Tank Owner/Operator _____

Date _____