

SHORT PRECISION TESTING ENVIRONMENTAL PROTECTION
1252 Torrey St., Davis Ca. 95616
(916) 759-9207 95 APR 17 PM 2:30

Date: 4 13 95

To: Ed Howell

Enclosed please find tank test reports for the **CalTrans** facilities that were tested in your county. As required by this contract we have forwarded to your agency one copy of each summary and the actual tank data. Please feel free to call if there are any questions.

Sincerely,



Barry J. Short
owner

LEASE PRINT

cal Trans

1. OWNER Property Tanks

S.F.O.B.B. Admin. Bldg. (Toll Plaza) P.O. Box 7310

Name Address Zip Representative Telephone
San Francisco, Ca 94120

2. OPERATOR

Harold Long (510) 286-0669

Name Address Zip Telephone

3. REASON FOR TEST (Explain Fully)

Ordinance Testing

4. WHO REQUESTED TEST AND WHEN

Mike Hilliard (510) 286-4495

Name Title Company or Affiliation Date
Address Zip Telephone

5. TANK INVOLVED

Use additional lines for manifolded tanks

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
T-SFB-01	3000	N/A	Reg. U/L	36 yrs	Steel
T-SFB-02	2000	N/A	Diesel	28 yrs	Steel
T-SFB-03	2000	N/A	Diesel	36 yrs	Steel

6. INSTALLATION DATA

Location	Cover	Fill	Vents	Biphones	Pumps
01-Gas House 02-Maint. 03-Admin. <small>North inside driveway, Rear of station etc</small>	Asphalt Cement <small>Concrete, Black Top, Earth, etc</small>	2-3" 1-4" <small>Size, Titefil make, Drop tubes, Remote Fills</small>	2" <small>Size, Manifolded</small>	N/A <small>Which tanks?</small>	Suction <small>Suction, Remote Make if known</small>

7. UNDERGROUND WATER

Depth to the water table from grade 111" Is the water over the tank? Yes No

8. FILL-UP ARRANGEMENTS

Tanks to be filled _____ No. _____ 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 of inquiry _____ Company _____ Name _____ Telephone _____

9. CONTRACTOR, MECHANICS, any other contractor involved

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 METHOD

PETRO TITE II PETRO COMP QUICK CHECK 2000

11a. 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
T-SFB-01	YES	-.020 gph	4/12/95
T-SFB-02	Invalid	Excess Trapped Air	4/12/95
T-SFB-03	YES	-.014 gph	4/12/95

12. SENSOR CERTIFICATION


4/12/95
Date
612
Serial No. of Thermal Sensor

13. Contractor Certification

022892 B 0525

[Signature] 4/13/95
signature date

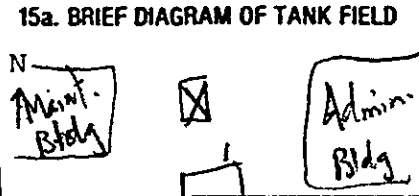
SHORT PRECISION TESTING
(UST) Underground Storage Tank Testing



BARRY SHORT
Certified Petro Tite II
License No. 95-1519

1252 Torrey Street Davis, CA 95616 (916) 759-9207 1-800-750-9207

15. TANK TO TEST
#1 North
 Identify by position
Regular Unleaded
 Brand and Grade



16. CAPACITY
 Nominal Capacity 3000 Gallons
 By most accurate capacity chart available 2967 Gallons

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

17. FILL-UP FOR TEST
 Slick Water Bottom before Fill-up 1/2 in. to 1/4"
4 Gallons
75 Tank Diameter in.

Total Gallons as Reading

Inventory in Tank 2961
 Water Bottom 4
 Top off equipment 10
 Total Quantity 2967

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

- Water in tank
- (Lines) 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
- 2. Height to 12" mark from bottom of tank 200 in.
- 3. Pressure at bottom of tank 4.01 P.S.I.
- 4. Pressure at top of tank 3.25 P.S.I.

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 174 in.

20. EXTENSION HOSE SETTING
 Tank top to grade* 69 in.
 Extend hose on suction tube 6" or more below tank top +6 in.
 *If fill pipe extends above grade, use top of fill.

USE WITH THERMAL SENSOR PN5039 (Blue Box)

22. Thermal-Sensor reading after circulation N/A digits

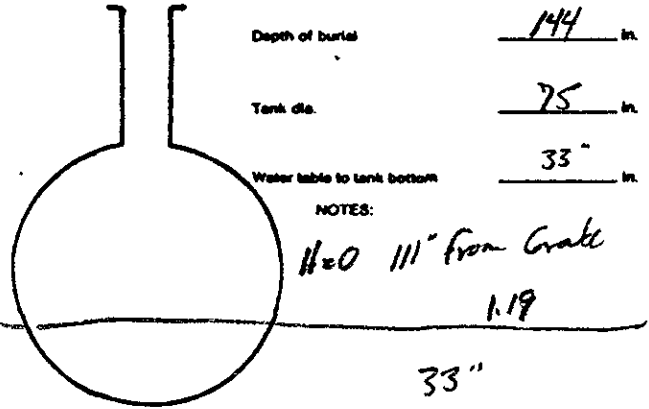
23. Digits per °F in range of expected change N/A digits

21. VAPOR RECOVERY SYSTEM Stage I Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product Reg U/L
 Hydrometer Employed 444 in
 Temperature in Tank After Circulation 63.204 °F
 Temperature of Sample 59 °F
 Difference (1/2) -4 °F
 Observed A.P.I. Gravity 53.8

Reciprocal 1532 Page # 57
2967 · 1532 · 1.936684
 Total quantity in full tank (17) Reciprocal Volume change in this tank per °F
 Transfer to Line 25a.



NOTES:
H₂O 111" from Grate
1.19
33"

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.
3" 2" Asphalt Steel Section 36yrs

24a. IF USING THERMAL SENSOR DTS-2000 OR QC-2000 WHICH READ 1000 DIGITS PER °F TRANSFER 1000 TO LINE 26, DIGITS PER °F IN TEST RANGE.

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

Water Temperature after Circulation Table C from Thermal Sensor N/A °F

Coefficient of Water Table D N/A

Added Surfactant? Yes No Transfer COE to Line 25b.


25. (a) N/A Total quantity in full tank (17) × (b) N/A Coefficient of expansion for involved product = (c) N/A gallons

26. (a) 1.936684 Volume change per °F (25 or 24b) × (b) 1000 Digits per °F in test = (c) 1.936684 Volume change per digit This is test (0.004)

27. Sensor Calibration <u>7/22, 7/23</u>			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO 001 GAL.			34. TEMPERATURE COMPENSATION USE FACTOR (U)			38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE
LOG OF TEST PROCEDURES			Standpipe Level in inches		Product In Graduate		Product Replaced (-)	Thermal Sensor Reading	Change Higher/Lower (C)	Computation (e.g. (a) + Expansion - Contraction)	Temperature Adjustment	At Low Level compute Change per Hour (HFA criteria)
DATE	Record details of setting up and running test (Use full length of line if needed)	29. Reading No.	Beginning of Reading	Level to which Restored	Before Reading	After Reading	Product # Recovered (-)					
06:00	Arrive @ Test site; Tank Measurements, Check for Water											
06:10	Set Up Equip. Take on Product											
06:45	Pump Primed & Circulating-Bleed Off Air											
07:00	Take API Hydrometer Sample											
07:15	First Sensor Reading	1		42	140	150	+010	253	+49	+093	-083	
07:30	High Level Test	2		42	150	160	+010	283	+30	+057	-017	
07:45	Continue Test	3		42	160	175	+015	307	+24	+016	-031	
08:00		4		42	175	190	+015	328	+21	+010	-025	
08:15		5		42	190	205	+015	349	+21	+010	-025	
08:30		6		42	205	225	+020	369	+20	+088	-018	
		7		42								
		8		42								
		9		42								
		10		42								
08:30	Drop To Low Level Test											
	Tank End Return & Temp. Destabilization											
09:00	"											
09:05	First Sensor Reading	1		12	330	340	+010	420	+6	+011	-001	-001
09:10	Continue Low Level Test	2		12	340	350	+010	427	+7	+013	-003	-004
09:15		3		12	350	360	+010	434	+7	+013	-003	-007
09:20		4		12	360	370	+010	440	+6	+011	-001	-008
09:25		5		12	370	380	+010	447	+7	+013	-003	-011
09:30	Math ✓	6		12	380	390	+010	454	+7	+013	-003	-014
09:35	06 (0019) 40	7		12	390	400	+010	460	+6	+011	-001	-015
09:40	016 (-016)	8		12	400	410	+010	465	+5	+010	000	-015
09:45		9		12	410	420	+010	472	+7	+013	-003	-018
09:50		10		12	420	430	+010	477	+7	+013	-003	-021
09:55		11		12	430	440	+010	486	+7	+013	-003	-024

10:00	Math ✓	12		12	440	450	+010	491	+5	+010	000	-024
10:05	120 (0019) 77	13		12	450	460	+010	496	+5	+010	000	-024
10:10	146 (-004)	14		12	460	470	+010	502	+6	+011	-001	-025
10:15		15		12	470	480	+010	508	+6	+011	-001	-026
10:20		16		12	480	490	+010	514	+6	+011	-001	-027
10:25		17		12	490	500	+010	519	+5	+010	000	-027
10:30	Math ✓	18		12	500	510	+010	526	+7	+013	-003	-030
10:35	180 (0019) 112	19		12	510	520	+010	531	+5	+010	000	-030
10:40	213 (-003)	20		12	520	530	+010	536	+5	+010	000	-030
10:45		21		12	530	540	+010	542	+6	+011	-001	-031
10:50		22		12	540	550	+010	549	+7	+013	-003	-031
10:55		23		12	550	560	+010	556	+7	+013	-003	-037
11:00	Stop Test	24		12	560	570	+010	563	+7	+013	-003	-040

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1252 Torrey Street
 Davis, CA 95616

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 1-800-760-9207

**P-T Tank Test Data Chart
 Additional Info**

1. Net Volume Change at Conclusion of Precision Test -020 gph
 Signature of Tester: [Signature]
 Date: 4.12.95

2. Statement
- Tank and product handling system has been tested tight according to the Precision Test Criteria as established by regulatory agency. 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 regulatory agency.
- OR
- Test invalid due to environmental or mechanical factors beyond control of the testing equipment.

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. The manufacturer of this test method does not assume any responsibility or liability for any loss of product to the environment.

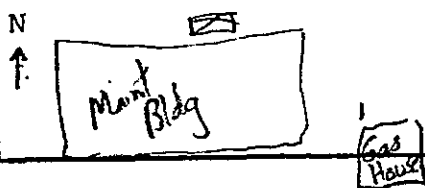
Tank Owner/Operator _____
 Date _____

14. Cal Trans SF OBB Admin Bldg (Bell Plaza) PO Box 7310 San Francisco CA 94120 4 12 95
 Name of Supplier, Owner or Dealer Address No. and Street(s) City State Date of Test

15. TANK TO TEST

#3 North
 Identify by position
 Diesel
 Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD



16. CAPACITY

Nominal Capacity 7000 Gallons
 By most accurate capacity chart available 7000 Gallons

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

17. FILL-UP FOR TEST

Stick Water Bottom before Fill-up Ø to 12" in. Ø Gallons Tank Diameter Ø in.

Total Gallons on Reading
 Inventory in Tank 7000
 Water Bottom Ø
 Top off equipment Ø
 Total Quantity 2010

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

- Water in tank Line(s) being tested with LVLIT
 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 double-walled tanks.
 Complete section below:

1. Is four pound rule required? Yes No
 2. Height to 12" mark from bottom of tank 130 in.
 3. Pressure at bottom of tank 4.03 P.S.I.
 4. Pressure at top of tank 1.99 P.S.I.

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade* 84 in.
 Add 30" for "T" probe assembly 30 in.
 Total tubing to assemble - approximate 114 in.

20. EXTENSION HOSE SETTING

Tank top to grade* 18 in.
 Extend hose on suction tube 8" or more below tank top +6 in.

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

USE WITH THERMAL SENSOR PN5039 (Blue Box)

22. Thermal sensor reading after circulation N/A digits
 23. Digits per °F in range of expected change N/A digits

21. VAPOR RECOVERY SYSTEM Stage 1 Stage 2

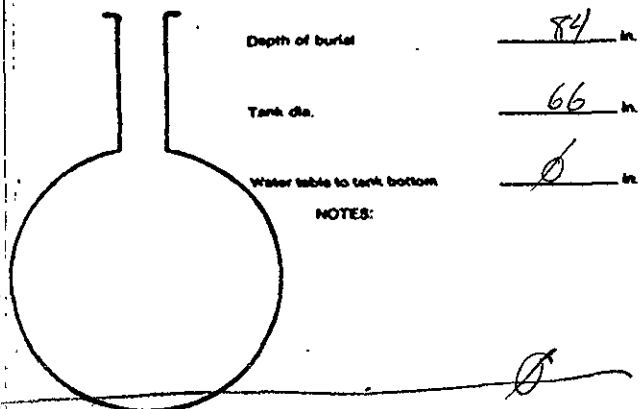
24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product Diesel
 Hydrometer Employed #4
 Temperature in Tank After Circulation 71.058 °F
 Temperature of Sample 62 °F
 Difference (+/-) +4 °F
 Observed A.P.I. Gravity 37.4
 Reciprocal 2139 Page 41
 Total quantity in full tank (17) 2010 Reciprocal 2139 Volume change in this tank per °F .9396914
 Transfer to Line 25b.

24a. IF USING THERMAL SENSOR DTS-2000 OR QC-2000 WHICH READ 1000 DIGITS PER °F TRANSFER 1000 TO LINE 26, DIGITS PER °F IN TEST RANGE.

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

Water Temperature after Circulation Table C from Thermal Sensor N/A °F
 Coefficient of Water Table D N/A
 Added Surfactant? Yes No Transfer COE to Line 25b.



Depth of burial 84 in.
 Tank dia. 66 in.
 Water table to tank bottom Ø 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.

25. (a) N/A Total quantity in full tank (17) × (b) N/A Coefficient of expansion for involved product = (c) N/A gallons Volume change in this tank per °F
 26. (a) .9396914 × 1000 = .9396914 This is (2010)

3" 1/2" Asbestos Steel Suction 28 yrs

27. Sensor Calibration 2/23 / 2/22		30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO 0.01 GAL		34. TEMPERATURE COMPENSATION USE FACTOR (a)		38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE			
LOG OF TEST PROCEDURES												
28. DATE (24 Hr.)	Record details of getting up and running test (Use full length of line if needed)	29. Reading No.	Standpipe Level in Inches		32. Product In Graduate		33. Product Replaced (-) / Recovered (+)	35. Thermal Sensor Reading	36. Change Higher (+) / Lower (-)	37. Computation (a) = Expansion (+) / Contraction (-)	Temperature Adjustment Volume Minus Expansion (+) or Contraction (-) (33V) - (37T)	At Low Level compute Change per Hour (MPA criteria)
			Beginning of Reading	Level to which Restored	Before Reading	After Reading						
4:25	Arrive @ Test site; Tank Measurements, Check for Water											
4:35	Set Up Equip. Take on Product											
2:15	Pump Primed & Circulating - Bleed Off		Air									
2:30	Take API Hydrometer Sample											
4:45	First Sensor Reading	1	42					58.058		Factor A = (0.009)		
23:00	High Level Test	2	42					.077				
4:15	Continue Test	3	42					.091				
4:30		4	42									
4:45		5	42									
		6	42									
		7	42									
		8	42									
		9	42									
		10	42									
	Drop To Low Level Test											
	Tank End Return & Temp. Destabilization											
	"											
	First Sensor Reading	1	12									
	Continue Low Level Test	2	12									
		3	12									
		4	12									
		5	12									
		6	12									
		7	12									
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		17	12									
		18	12									
		19	12									
		20	12									
		21	12									
		22	12									
		23	12									
		24	12									

Stop Test

Notified Mike Hilliard @ 8:50 4/13/95
 Mike made some calls & it seems that there are some lines that have been over looked & will reschedule test.
 M. Hilliard
 4/13/95

SHORT PRECISION TESTING

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P-T Tank Test Data Chart
 Additional Info

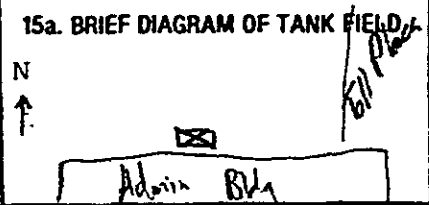
1 Net Volume Change at Conclusion of Precision Test _____ gph
 Signature of Tester: [Signature]
 Date: 4/13/95

- 2 Statement:
- Tank and product handling system has been tested tight according to the Precision Test Criteria as established by regulatory agency. This is not intended to indicate permission of a test.
 - OR
 - Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by regulatory agency.
 - OR
 - Test invalid due to environmental or mechanical factors beyond control of the testing equipment.

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 individual failure of this system. The manufacturer of this test method does not assume any responsibility of liability for any loss of product to the environment.

Tank Owner/Operator: [Signature]
 Date: _____

15. TANK TO TEST
#1 North (only) Boiler
 Identity by position
Diesel
 Brand and Grade



16. CAPACITY
 Nominal Capacity 2000 Gallons
 By most accurate capacity chart available 2056 Gallons

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

17. FILL-UP FOR TEST
 Stick Water Bottom before Fill-up Ø to 12" in. Ø Gallons Tank Diameter _____ in.

Total Gallons on Reading
 Inventory in Tank 2000
 Water Bottom Ø
 Top off equipment Ø
 Total Quantity 2000

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK Water in tank Lines being tested with LVLTT
 High water table in tank excavation

See manual sections applicable. Check below and record procedure in log (27).
 The 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 130 in.
 3. Pressure at bottom of tank 4.03 P.S.I.
 4. Pressure at top of tank 1.77 P.S.I.

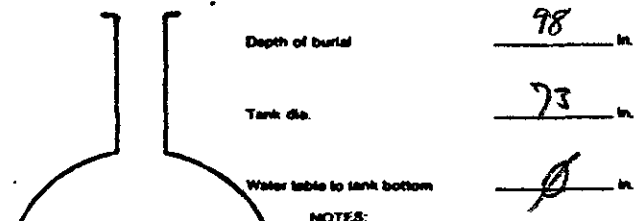
19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
 Bottom of tank to grade* 98 in.
 Add 30" for "T" probe assembly 30 in.
 Total tubing to assemble - approximate 128 in.

20. EXTENSION HOSE SETTING
 Tank top to grade* 25 in.
 Extend hose on suction tube 6" or more +6 in.
 *If Fill pipe extends above grade, use top of fill

USE WITH THERMAL SENSOR PN5039 (Blue Box)
 22. Thermal-Sensor reading after circulation N/A digits
 23. Digits per °F in range of expected change N/A digits

21. VAPOR RECOVERY SYSTEM Stage I Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD
 Type of Product Diesel
 Hydrometer Employed #4 M
 Temperature in Tank After Circulation 57.922 °F
 Temperature of Sample 65 °F
 Difference (+/-) -7 °F
 Observed A.P.I. Gravity 36.4
 Reciprocal 2131 Page # 40
2008 * 2131 = .9422806
 Total quantity in full tank (17) Reciprocal Volume change in this tank per °F
 Transfer to Line 25b.



24a. IF USING THERMAL SENSOR DTS-2000 OR QC-2000 WHICH READ 1000 DIGITS PER °F TRANSFER 1000 TO LINE 26, DIGITS PER °F IN TEST RANGE.

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.

24c. FOR TESTING WITH WATER see Table C & D
 Water Temperature after Circulation Table C from Thermal Sensor N/A °F
 Coefficient of Water Table D N/A
 Added Surfactant? Yes No Transfer COE to Line 25b.

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.

25. (a) N/A Total quantity in full tank (17) × (b) N/A Coefficient of expansion for involved product = (c) N/A gallons Volume change in this tank per °F
 26. (a) .9422806 Volume change per °F (25 or 24b) × (b) 1000 Digits per °F in test = (c) .0009422806 This is Volume change per digit (0.0009)

4" 2" Cast Steel 35yrs Suction

27. Sensor Calibration <u>Y1231 / Y1231</u>			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO 001 GAL.			34. TEMPERATURE COMPENSATION USE FACTOR (A)			38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE
LOG OF TEST PROCEDURES			Standpipe Level in Inches		Product in Graduate		Product Replaced (-)	Thermal Sensor Reading	Change Higher + Lower - (C)	Computation (B)(C) + Expansion + Contraction -	Temperature Adjustment Volume Minus Expansion (+) or Contraction (-) (#3)(V) - (#2)(V)	At Low Level compute Change per Hour (NPPA criteria)
28. DATE	Record details of setting up and running test (Use full length of line if needed)	29. Reading No	Beginning of Reading	Level to which Restored	Before Reading	After Reading	Product / Recovered (+)					
06:00	Arrive @ Test site; Tank Measurements, Check for Water						Suction	575	(Boiler)	Bleed	air @ supply line	
10:30	Set Up Equip. Take on Product						Return line - Close gate					
11:30	Pump Primed & Circulating-Bleed Off Air											
1:45	Take API Hydrometer Sample							57.922		Factor A = (009)		
12:00	First Sensor Reading	1		42	440	370	-070	.975	+53	+0.48	-118	
1:45	High Level Test	2		42	370	340	-030	08015	+40	+0.86	-066	
1:30	Continue Test	3		42	340	300	-040	057	+42	+0.88	-078	
1:45		4		42	300	280	-020	088	+41	+0.87	-057	
13:00		5		42	280	295	+015	135	+37	+0.33	-018	
1:15		6		42	295	315	+020	172	+37	+0.33	-013	
:		7		42								
:		8		42								
:		9		42								
:		10		42								
13:15	Drop To Low Level Test											
:	Tank End Return & Temp. Destabilization											
1:45	"							58.240				
1:50	First Sensor Reading	1		12	405	415	+010	255	+15	+0.14	-004	-004
1:55	Continue Low Level Test	2		12	415	425	+010	265	+10	+0.09	+001	-003
14:00		3		12	425	435	+010	276	+11	+0.10	000	-003
1:05		4		12	435	445	+010	288	+12	+0.11	-001	-004
1:10		5		12	445	455	+010	299	+11	+0.10	000	-004
1:15	Math ✓	6		12	455	455	+010	312	+13	+0.12	-002	-006
1:20	60 (009) 22	7		12	465	470	+005	322	+10	+0.09	-004	-010
1:25	065 (005)	8		12	470	480	+010	334	+12	+0.11	-001	-011
1:30		9		12	480	490	+010	345	+11	+0.10	000	-011
1:35		10		12	490	500	+010	357	+12	+0.11	-001	-012
1:40		11		12	500	505	+005	370	+13	+0.12	-002	-019

1:45	Math ✓	12		12	505	515	+010	382	+12	+0.11	-001	-020
1:50	110 (009) 42	13		12	515	525	+010	395	+13	+0.12	-002	-022
1:55	128 (018)	14		12	525	535	+010	406	+11	+0.10	000	-022
15:00		15		12	535	545	+010	417	+11	+0.10	000	-022
1:05		16		12	545	555	+010	427	+10	+0.09	+001	-024
1:10		17		12	555	560	+005	437	+10	+0.09	-004	-025
1:15	Math ✓	18		12	560	570	+010	448	+11	+0.10	000	-025
1:16	115 (009) 208	19		12	570	580	+010	460	+12	+0.11	-001	-026
1:25	187 (022)	20		12	580	590	+010	472	+12	+0.11	-001	-027
1:30		21		12	590	600	+010	482	+10	+0.09	+001	-026
1:35		22		12	600	605	+005	491	+9	+0.08	-003	-029
1:40		23		12	605	615	+010	501	+10	+0.09	+001	-028
1:45		24		12	615	625	+010	512	+11	+0.10	000	-028

Stop Test

Math ✓
220 (009) 272
145 (005)

005
-0498

SHORT PRECISION TESTING
(UST) Underground Storage Tank Testing

BARRY SHORT
Certified Petro Title II
License No. 95-1519

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Davis, CA 95616

(916) 759-9207
1-800-750-9207

P-T Tank Test Data Chart
Additional Info

1. Net Volume Change at Conclusion of Precision Test: 014 gph
Signature of Tester: [Signature]
Date: 4.12.20

2. Statement
- Tank and product handling system has been tested tight according to the Precision Test Criteria as established by regulatory agency. This is not intended to indicate permission of a task.
- OR
- Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by regulatory agency.
- OR
- Test invalid due to environmental or mechanical factors beyond control of the testing equipment.

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 to the environment as a result of the indicated failure of system. The manufacturer of this test method does not assume any responsibility or liability for any loss of product or environment.

Tank Owner/Operator _____
Date _____

PLEASE PRINT

Cal Trans

1. OWNER Property Tenant

S.F.O.B.B. Admin. Bldg. (Toll Plaza) P.O.Box 7310
 Name Address Zip San Francisco, CA 94120
 Name Address Zip Representative Telephone

2. OPERATOR Harold Long (510) 286-0669
 Name Address Zip Telephone

3. REASON FOR TEST Ordinance Testing
 (Explain Fully)

4. WHO REQUESTED TEST AND WHEN Mike Hilliard (510) 286-4495
 Name Title Company or Affiliation Date
 Address Zip Telephone

5. TANK INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
T-SFB-02	2000	N/A	Diesel	28 yrs	Steel
Use additional lines for manifolded tanks					

6. INSTALLATION DATA

Location	Cover	File	Vents	Siphones	Pumps
North of Bldg. <small>North inside driveway, Rear of station, etc</small>	Asphalt <small>Concrete, Black Top, Earth, etc</small>	3" <small>Size, Trench make, Drop tubes, Remote File</small>	1 1/2" <small>Size Manifolded</small>	N/A <small>Which tanks?</small>	Suction <small>Suction, Remote Make if known</small>

7. UNDERGROUND WATER
 Depth to the water table from grade N/A Is the water over the tank? Yes No

8. FILL-UP ARRANGEMENTS
 Tanks to be filled _____ No. _____ 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

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 METHOD PETRO TITE II PETRO COMP QUICK CHECK 2000


11a. 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
T-SFB-02	No	approx. -.300 gph	4/14/95

12. SENSOR CERTIFICATION
 4/13/95
 Date
 612
 Serial No. of Thermal Sensor

13. Contractor Certification
 # 022892 B 0525
B.S. Smith 4/14/95
 signature date

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 License No. 95-1519

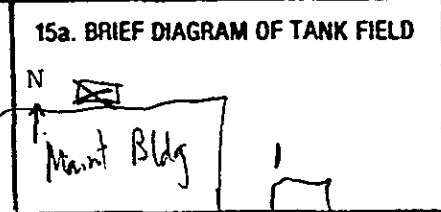
1252 Torrey Street Davis, CA 95616 (916) 759-9207 1-800-750-9207

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

15. TANK TO TEST

#2 North
Identify by position

Diesel
Brand and Grade



16. CAPACITY

Nominal Capacity 2000 Gallons

By most accurate capacity chart available 2000 Gallons

From

Station Chart

Tank Manufacturer's Chart

Company Engineering Data

Charts supplied with Tank Tester

Other

17. FILL-UP FOR TEST

Slack Water Bottom before Fill-up 0 to 1/2 in.

Gallons 0

Tank Diameter 66 in.

Total Gallons on Reading 2000

Inventory in Tank 2000

Water Bottom 0

Top off equipment 10

Total Quantity 2010

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

Water in tank Line(s) being tested with LVLTT

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 double-walled tanks.

Complete section below:

- Is four pound rule required? Yes No
- Height to 12" mark from bottom of tank 130 in.
- Pressure at bottom of tank 4.03 P.S.I.
- Pressure at top of tank 1.98 P.S.I.

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade 86 in.

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

Total tubing to assembly - approximate 116 in.

20. EXTENSION HOSE SETTING

Tank top to grade 18 in.

Extend hose on suction tube 6" or more +6 in.

below tank top

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

USE WITH THERMAL SENSOR PMS039 (Blue Box)

22. Thermal-Sensor reading after circulation N/A digits

23. Digits per °F in range of expected change N/A digits

21. VAPOR RECOVERY SYSTEM Stage I Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product Diesel

Hydrometer Employed #4 M

Temperature in Tank After Circulation 58.047 °F

Temperature of Sample 61 °F

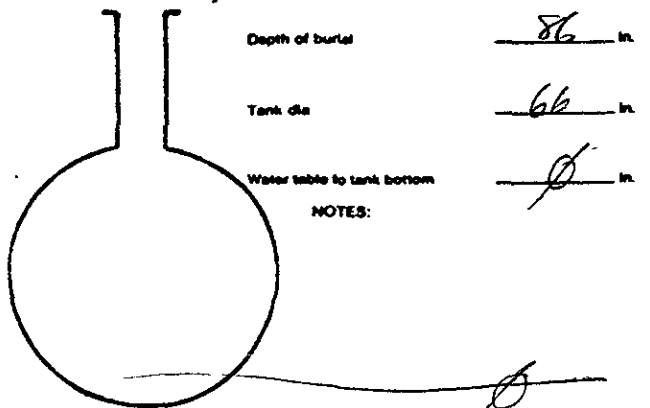
Difference (+/-) +3 °F

Observed A.P.I. Gravity 37.2

Reciprocal 2132 Page # 41

Total quantity in full tank (17) 2010 Reciprocal 2132 Volume change in this tank per °F .9427767

Transfer to Line 25b.



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.

3 1/2" Asphalt Steel Section

24a. IF USING THERMAL SENSOR DTS-2000 OR QC-2000 WHICH READ 1000 DIGITS PER °F TRANSFER 1000 TO LINE 26, DIGITS PER °F IN TEST RANGE.

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

Water Temperature after Circulation Table C from Thermal Sensor N/A °F

Coefficient of Water Table D N/A

Added Surfactant? Yes No Transfer COE to Line 25b.

25. (a) N/A Total quantity in full tank (17) × (b) N/A Coefficient of expansion for involved product = (c) N/A gallons Volume change in this tank per °F

26. (a) .9427767 Volume change per °F (25 or 24b) × (b) 1000 Digits per °F in test = (c) .0009427767 This is test result (.0009)

27. Sensor Calibration 21.733, 17.732		30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO 001 GAL		34. TEMPERATURE COMPENSATION USE FACTOR (A)			38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE		
LOG OF TEST PROCEDURES		29. Reading No.	Standpipe Level in Inches		32. Product in Graduste		33. Product Replaced (-)	35. Thermal Sensor Reading	36. Change Higher + Lower - (C)	37. Computation (C) (A) * Expansion + Contraction -	Temperature Adjustment Volume Minus Expansion (+) or Contraction (-) (38)(A) - (37)(C)	At Low Level compute Change per Hour (NFPA criteria)
DATE	Record details of setting up and running test (Use full length of line if needed)		Beginning of Reading	Level to which Restored	Before Reading	After Reading	Product # Recovered (+)		39. Change Higher + Lower - (C)	39. Change Higher + Lower - (C)		
20:40	Arrive @ Test site; Tank Measurements, Check for Water											
5:50	Set Up Equip. Take on Product											
21:30	Pump Primed & Circulating - Bleed Off Air											
4:40	Take API Hydrometer Sample							58.047		Factor A = (58.047)		
5:55	First Sensor Reading	1	42	870	620	-250	.081	+34	+0.31	-281		
22:10	High Level Test	2	42	620	460	-160	108	+27	+0.24	-184		
6:25	Continue Test	3	42	460	365	-95	131	+23	+0.21	-116		
7:40		4	42	365	300	-65	155	+24	+0.22	-987		
8:55		5	42	300	246	-54	183	+28	+0.25	-585		
:		6	42									
:		7	42									
:		8	42									
:		9	42									
:		10	42									
12:55	Drop To Low Level Test											
:	Tank End Return & Temp. Destabilization											
23:25	"							58.229				
1:30	First Sensor Reading	1	12	635	615	-20	.234	+5	+0.05	-625	-0.25	
1:35	Continue Low Level Test	2	12	615	595	-20	241	+7	+0.06	-626	-0.51	
4:40		3	12	595	575	-20	248	+7	+0.06	-626	-0.77	
4:45		4	12	575	555	-20	256	+8	+0.07	-627	-1.04	
1:50		5	12	555	540	-15	263	+7	+0.07	-622	-1.26	
1:55	Meth	12	12	540	520	-20	269	+6	+0.05	-625	-1.51	
24:00	-115 (0.009) to	7	12	520	505	-15	275	+6	+0.05	-620	-1.71	
22:05	+0.36 (-1.51)	8	12									
1:10		9	12									
1:15		10	12									
1:20		11	12									

1:25		12	12									
1:30		13	12									
1:35		14	12									
1:40		15	12									
1:45		16	12									
1:50		17	12									
1:55		18	12									
2:00		19	12									
2:05		20	12									
2:10		21	12									
2:15		22	12									
2:20		23	12									
2:25		24	12									
	Stop Test											

Leak rate approx. .3 gph

* Temp. Readings consistent increases
 * Volume Readings consistent losses
 good consistency in both readings indicate a leaky system.
 (with the amount of lines come from turning back to the tank, the problem(s) could be a gusher; I have no other recommendation other than remove fuel from tank ASAP - then remove tank or Expose tank top & re-test)

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 1-800-750-9207

P-T Tank Test Data Chart
 Additional Info

1. Net Volume Change at Conclusion of Precision Test 300 gph
 Signature of Tester: [Signature]
 Date: 4/14/95

2. Statement.
- Tank and product handling system has been tested tight according to the Precision Test Criteria as established by regulatory agency. 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 regulatory agency.
- OR
- Test invalid due to environmental or mechanical factors beyond control of the testing equipment.

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. The manufacturer of this test method does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator: [Signature]
 Date: _____