

THRIFTY OIL CO.

91 JUN 17 AM 11:18

June 10, 1991

Alameda County Health Department
Environmental Division
470 27th Street #322
Oakland, Ca 94612

Re: Thrifty Oil Co. SS# 063
6125 Telegraph
Oakland, Ca 94609

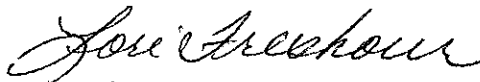
Dear Sir/Madam;

Enclosed please find our test results for the following;

- Tank Integrity
- Leak Detector
- Meter Calibration

If you have any further questions or concerns, please contact me at Ext. 377. Thank you.

Yours truly,



Lori Freshour
Environmental Specialist



Chart for Tank System Tightness Test

petro tite

TANK TESTER

PLEASE PRINT

1. OWNER Property Tank(s)

2. OPERATOR

3. REASON FOR TEST (Explain Fully)

4. WHO REQUESTED TEST AND WHEN

5. WHO IS PAYING FOR THIS TEST?

6. TANK(S) INVOLVED

| Identify by Direction | Capacity | Brand/Supplier | Grade | Approx. Age | Steel/Fiberglass |
|-----------------------|----------|----------------|-----------|-------------|------------------|
| T ₁ MIDDLE | 12,000. | N/A. | REGULAR. | N/A. | STEEL. |
| T ₂ EAST | 15,000. | N/A. | UNLEADED. | N/A. | STEEL. |
| T ₃ WEST | 12,000. | N/A. | SUPER UL. | N/A. | STEEL. |

7. INSTALLATION DATA

8. UNDERGROUND WATER

9. FILL-UP ARRANGEMENTS

10. CONTRACTOR, MECHANICS, any other contractor involved

11. OTHER INFORMATION OR REMARKS

12. TEST RESULTS

| Tank Identification | Tight | Leakage Indicated | Date Tested |
|--------------------------|-------|-------------------|-------------|
| T ₁ REGULAR. | YES. | -.005 G.P.H. | 06-06-91. |
| T ₂ UNLEADED. | YES. | -.011 G.P.H. | 06-06-91. |
| T ₃ SUPER UL. | YES. | -.010 G.P.H. | 06-06-91. |

13. CERTIFICATION

THRIFTY OIL CO. SS#063 6,125 TELEGRAPH OAKLAND.
 THRIFTY OIL CO., 10,000 Lakewood Blvd., Downey, CA 213/923-9876

THRIFTY OIL CO., 10,000 Lakewood Blvd., Downey, CA 213/923-9876

To determine the tightness of tank systems.

Lori Freshour - Environmental Coordinator, THRIFTY OIL CO.
 10,000 Lakewood Blvd., Downey, CA 90240 (213) 923-9876

THRIFTY OIL CO., Lori Freshour Environmental Coordinator
 10,000 Lakewood Blvd., Downey, CA 90240

| Identify by Direction | Capacity | Brand/Supplier | Grade | Approx. Age | Steel/Fiberglass |
|-----------------------|----------|----------------|-----------|-------------|------------------|
| T ₁ MIDDLE | 12,000. | N/A. | REGULAR. | N/A. | STEEL. |
| T ₂ EAST | 15,000. | N/A. | UNLEADED. | N/A. | STEEL. |
| T ₃ WEST | 12,000. | N/A. | SUPER UL. | N/A. | STEEL. |

Location: SEE SKETCH ATTACHED
 Cover: CONCRETE
 Fills: 4"
 Vents: 3"
 Siphons: NO
 Pumps: _____

Depth to the water table: Below tank's bottom.
 Is the water over the tank? Yes No

Tanks to be filled 08:00 on 06-06-91 Date Arranged by T.O.C.
 Extra product to "top off" and run TSTT How and who to provide? Consider NO Lead
 Terminal or other contact for notice or inquiry _____

THRIFTY OIL CO.

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

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 ₁ REGULAR. | YES. | -.005 G.P.H. | 06-06-91. |
| T ₂ UNLEADED. | YES. | -.011 G.P.H. | 06-06-91. |
| T ₃ SUPER UL. | YES. | -.010 G.P.H. | 06-06-91. |

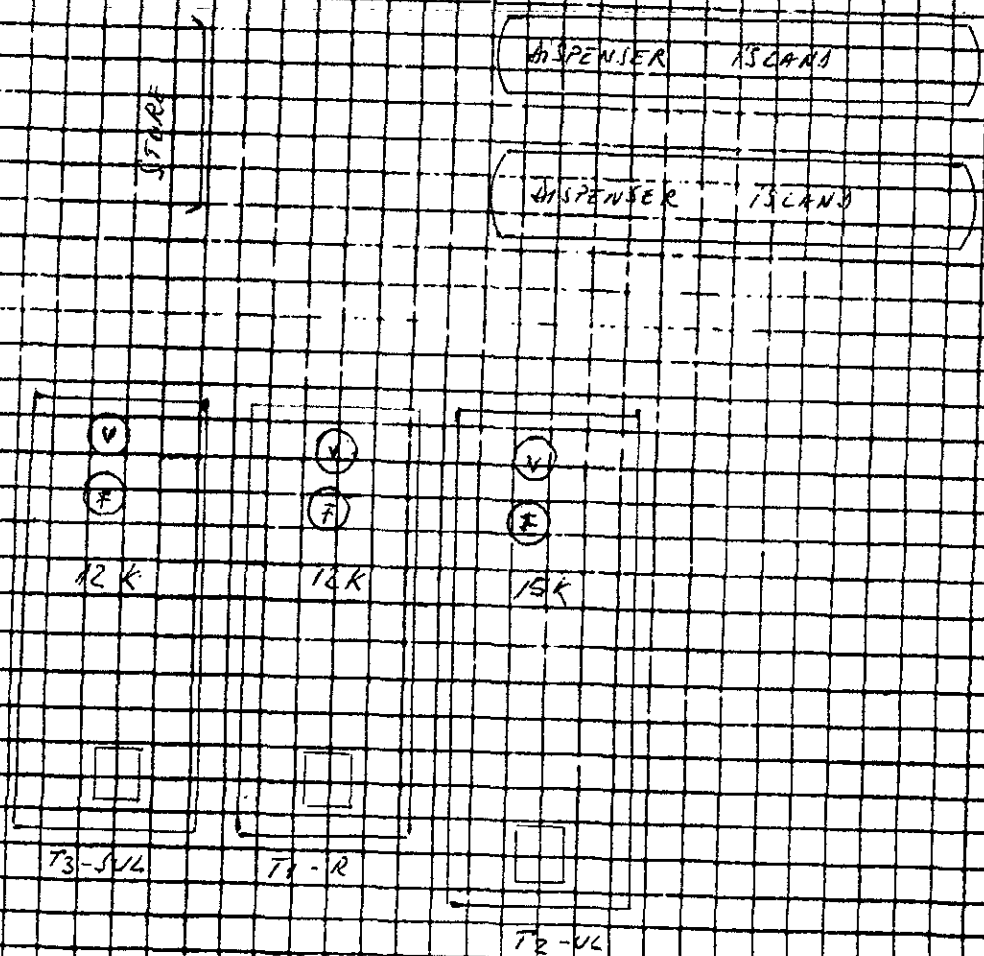
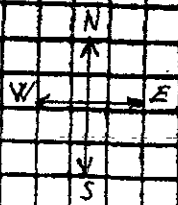
This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Association Pamphlet 229.

DAN MARINESCU
 L # 92-1393.
 Testing Contractor or Company By Signature

THRIFTY OIL CO. SS # 63 6125 TELEGRAPH AVE., OAKLAND

62ND ST.

06.06.91



TANK SIZE 12K

PRODUCT REGULAR

SS# 063

DATE OF TEST 06-06-91

THRIFTY OIL CO

6,125 TELEGRAPH

OAKLAND

06-06-91

Name of Supplier, Dealer or Stock

Address No. and Street

City

State

Date of Test

15. TANK TO TEST

T. MIDDLE

Identify by position

REGULAR

Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

16. CAPACITY

Numbered Capacity 12,000
Gallons

By most accurate capacity chart available 11,891
Gallons

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

17. FILL-UP FOR TEST

Blank Water Station before F/U-up _____ in _____ Gallons

Tank Diameter 95"

Inventory _____

| | |
|---------------|--------------------------|
| Before | Total Gallons on Reading |
| <u>11,891</u> | <u>11,891</u> |

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

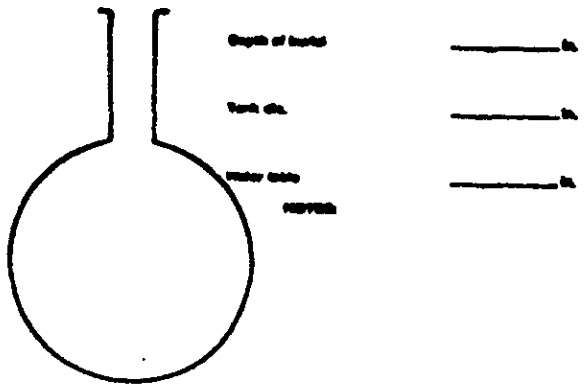
- Water in tank
- Lines being tested with LMLT
- High water table in tank excavation

See manual conditions applicable. Check before and record procedure in log (20).

Use maximum allowable test pressure for all tanks. Four pound rule does not apply to double-walled tanks.

Complete section below:

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



The above calculations are to be used for dry cell 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 NIPSA 20, Sections 2-2.2.4 and 2-2.2 and the tank manufacturer regarding allowable specific test pressures.

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade* _____ 158 in.

Add 20" for "T" probe cap. _____ 188.20 in.

Total tubing to assemble - approximate _____ 192 in.

20. EXTENSION HOSE SETTING

Tank top to grade* _____ 63 in.

Extend hose on cushion tube 6" or more _____ 69 in.

Below tank top _____ in.

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

22. Thermal-Coupler reading after circulation

_____ 63 in.

_____ 69 in.

23. Slope per "F" in range of expected change

_____ 63 in.

COEFFICIENT OF EXPANSION (Complete after circulation)

24a. Corrected A.P.I. Gravity

Observed A.P.I. Gravity _____

Hydrometer employed _____

Observed Sample Temperature _____ °F

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

Coefficient of Expansion for liquid product From Table B _____

Transfer COE to Line 25b.

Fill to Gr. _____ +8

| | |
|---------------------|---------------------|
| _____ <u>11,899</u> | _____ <u>11,899</u> |
|---------------------|---------------------|

Transfer test to the 21a

21. VAPOR RECOVERY SYSTEM Stage 1 Stage 2

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product _____ 12.

Hydrometer Employed _____

Temperature in Tank After Circulation _____ 72.8 °F

Temperature of Sample _____ 74 °F

Difference (+/-) _____ +1 °F

Observed A.P.I. Gravity _____ 59.5

Refract 1.470 Page # 63

11,899 1,470 8.0945578

Total quantity in full tank (20 or 21) _____

Refract _____

Volume change in one tank per °F _____

Transfer to Line 25b.

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

Water Temperature after Circulation _____ °F

Table C _____

Coefficient of Water _____

Table D _____

Add Surfactant Yes No Transfer COE to Line 25b.

25. (a) _____

Total quantity in full tank (20 or 21) _____

(b) 8.0945578 1,000 0.0080945 This is _____ 0.0081

Volume change per °F (20 or 21) _____

Coefficient of expansion for liquid product _____

Slope per °F in test _____

Volume change per inch _____

TANK SIZE 12 K

PRODUCT REGULAR

SS# 063

DATE OF TEST 06-06-91

| LOG OF TEST PROCEDURES | | 30. HYDROSTATIC PRESSURE CONTROL | | 31. VOLUME MEASUREMENTS IN TANKS TO API OIL | | | 32. REFERENCE COMPENSATION FOR TEMPERATURE | | | 33. NET VOLUME CHANGES EACH READING | 34. ACCUMULATED CHANGE | | |
|------------------------|---|----------------------------------|--------------------------|---|-----------------|---------------|--|----------------------|---------------------------|-------------------------------------|--|--|---|
| TIME (G to I) | 28. Record details of setting up and running test. (Use full length of line if needed.) | 29. Reading in | Standard Level in Inches | | Product in Tank | | Product Replaced (-) | Product Received (+) | 35. Normal Sensor Reading | 36. Change Higher + Lower - (1) | 37. Compensation (1) = (2) - Expansion + Contraction | Temperature Adjustment Volume Minus Expansion (+) or Contraction (-) (API) - (2)(1) | At High Level record Total Fuel Delivered At Low Level compute Change per Hour (API) entered |
| | | | Beginning of Reading | Level to which Restored | Before Reading | After Reading | | | | | | | |
| | High Level Test | | | | | | | | | | | | |
| | Arrived at site - took tank burial measurement of product. | | | | | | | | | | | | checked for water in tank. Took inventory. |
| | Top off delivery truck arrived - Assisted driver in filling tank | | | | | | | | | | | | |
| | Set up test equipment & fill with product | | | | | | | | | | | | |
| | Bled air or vapor out of system | | | | | | | | | | | | |
| | Started circulation pump - bleed air at pump | | | | | | | | | | | | |
| | Draw API sample | | | | | | | | | | | | |
| | First sensor reading | | | 42 | | | | | | | | | |
| | High level test started | 1 | 43.2 | 42 | .050 | .145 | +095 | | 72,890 | (A) = | .0081 | | |
| | continued high level test | 2 | 43.4 | 42 | .145 | .250 | +105 | | 900 | +10 | +081 | +014 | |
| | " " " " | 3 | 43.3 | 42 | .250 | .350 | +100 | | 10 | +10 | +081 | +024 | |
| | " " " " | 4 | 43.2 | 42 | .350 | .445 | +095 | | 18 | +8 | +065 | +035 | |
| | " " " " | 5 | 43.3 | 42 | .445 | .545 | +100 | | 26 | +8 | +065 | +030 | |
| | " " " " | 6 | 43.3 | 42 | .545 | .645 | +100 | | 34 | +8 | +065 | +035 | |
| | " " " " | 7 | 43.2 | 42 | .070 | .165 | +095 | | 48 | +14 | +113 | -013 | |
| | " " " " | 8 | 43.3 | 42 | .165 | .265 | +100 | | 56 | +8 | +065 | +030 | |
| | " " " " | 9 | | 42 | | | | | 964 | +8 | +065 | +035 | |
| | " " " " | 10 | | 42 | | | | | | | | | |
| | " " " " | 11 | | 42 | | | | | | | | | |

8:00
 8:15
 8:30
 8:45
 9:00
 9:15
 9:30
 9:45
 10:00
 10:15
 10:30
 10:45
 11:00

Tank Size

Product

SS#

Date of Test

LOG OF TEST PROCEDURE

30. APPROPRIATE FILLING CONTROL

31. VOLUME MEASUREMENT IN TERMS OF GALLONS

34. OPERATING CONDITIONS SEE FACTS IN

35. G.P. FILLER (GALLONS) EACH READING

36. GENERALIZATION (GALLONS)

| Time | 20. Record details of setting up and running test (Use full length of line if needed) | 29. Starting to | 30. Storage Level in inches | | 31. Product in Brackets | | | 34. OPERATING CONDITIONS SEE FACTS IN | | | 35. G.P. FILLER (GALLONS) EACH READING | 36. GENERALIZATION (GALLONS) |
|------|---|-----------------|-----------------------------|------------------------|-------------------------|---------------|-----------------------|---------------------------------------|--------------------------------|---|--|------------------------------|
| | | | Beginning of Reading | Level to which Reduced | Before Reading | After Reading | Product Recovered (+) | Thermal Error Reading | 36. Group Higher - Lower - (G) | 37. Consistency (G) + (G) - Expansion - Contraction - | | |
| 00 | Drop to Low Level Test | | | 12 | | | | | | | | |
| 15 | Start Low Level Test | 1 | 13.9 | 12 | .265 | .420 | +155 | 72,964(A) | = | .0081 | | |
| 30 | Continue Low Level | 2 | 13.3 | 12 | .420 | .525 | +105 | 74+10 | | +0.081 | +0.074 | |
| 35 | " " " | 3 | 12.4 | 12 | .525 | .555 | +0.030 | 83+9 | | +0.072 | +0.033 | |
| 40 | " " " | 4 | 12.4 | 12 | .555 | .585 | +0.030 | 85+3 | | +0.024 | +0.006 | |
| 45 | " " " | 5 | 12.4 | 12 | .585 | .615 | +0.030 | 90+4 | | +0.032 | -0.002 | +0.004 |
| 50 | " " " | 6 | 12.3 | 12 | .030 | .055 | +0.025 | 94+4 | | +0.032 | -0.002 | +0.002 |
| 55 | " " " | 7 | 12.4 | 12 | .055 | .085 | +0.030 | 97+3 | | +0.024 | +0.001 | +0.003 |
| 00 | " " " | 8 | 12.4 | 12 | .085 | .115 | +0.030 | 99+2 | | +0.016 | +0.014 | +0.017 |
| 05 | " " " | 9 | 12.3 | 12 | .115 | .140 | +0.025 | 73,004+5 | | +0.041 | -0.011 | +0.006 |
| 10 | " " " | 10 | 12.3 | 12 | .140 | .165 | +0.025 | 07+3 | | +0.024 | +0.001 | +0.007 |
| 15 | " " " | 11 | 12.3 | 12 | .165 | .190 | +0.025 | 11+4 | | +0.032 | -0.007 | .000 |
| 20 | " " " | 12 | 12.4 | 12 | .190 | .220 | +0.030 | 15+4 | | +0.032 | -0.007 | -0.007 |
| 25 | " " " | 13 | 12.3 | 12 | .220 | .245 | +0.025 | 18+3 | | +0.024 | +0.006 | -0.001 |
| 30 | " " " | 14 | 12.4 | 12 | .245 | .275 | +0.030 | 21+3 | | +0.024 | +0.001 | .000 |
| 35 | " " " | 15 | 12.3 | 12 | .275 | .300 | +0.025 | 25+4 | | +0.032 | -0.002 | -0.002 |
| 40 | " " " | 16 | 12.3 | 12 | .300 | .325 | +0.025 | 28+3 | | +0.024 | +0.001 | -0.001 |
| 45 | " " " | 17 | 12.4 | 12 | .325 | .355 | +0.030 | 32+4 | | +0.032 | -0.007 | -0.008 |
| 50 | " " " | 18 | 12.3 | 12 | .355 | .370 | +0.015 | 34+2 | | +0.016 | +0.014 | +0.006 |
| 55 | " " " | 19 | 12.3 | 12 | .370 | .395 | +0.025 | 38+4 | | +0.032 | -0.007 | -0.001 |
| 00 | " " " | 20 | 12.2 | 12 | .395 | .415 | +0.020 | 41+3 | | +0.024 | +0.001 | .000 |
| 05 | " " " | 21 | 12.3 | 12 | .415 | .440 | +0.025 | 44+3 | | +0.024 | -0.004 | -0.004 |
| 10 | " " " | 22 | 12.3 | 12 | .440 | .465 | +0.025 | 46+2 | | +0.016 | +0.009 | +0.005 |
| 15 | " " " | 23 | 12.2 | 12 | .465 | .485 | +0.020 | 48+2 | | +0.016 | +0.009 | +0.014 |
| 20 | " " " | 24 | 12.3 | 12 | .485 | .510 | +0.025 | 51+3 | | +0.024 | -0.004 | +0.010 |
| 25 | " " " | 25 | 12.2 | 12 | .510 | .530 | +0.020 | 54+3 | | +0.024 | -0.004 | +0.006 |
| 30 | " " " | 26 | 12.2 | 12 | .530 | .550 | +0.020 | 58+4 | | +0.032 | -0.012 | -0.006 |
| | | | | | | | | 61+3 | | +0.024 | -0.004 | -0.010 |

- .010 x 2 = - .005 G.P.H

SYSTEM TIGHT

[Signature]

92-1393

TANK SIZE 15K

PRODUCT

UNLEADEDSS# 063

DATE OF TEST

06-06-91Name of Supplier, Owner or Dealer THRIFTY OIL COAddress No. and Street 6,125 TELEGRAPHCity OAKLANDDate of Test 06-06-91

15. TANK TO TEST

72 EAST

Identify by position

UNLEADED

Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

16. CAPACITY

Nominal Capacity 15,000

Gallons

By most accurate capacity chart available 15,112

Gallons

Name

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

17. FILL-UP FOR TEST

Gross Water Volume

Before Fill-up

in "

Gallons

114"

Tank Diameter

Inventory

Gallons

15,112

Total Gallons

on Reading

15,112

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

 Water in tank Lines being tested with LULU High water table in tank excavation

See manual conditions applicable. Check below and record procedure in log (pp).

List maximum allowable test pressure for all tests. Four pound rule does not apply to dished-head tanks.

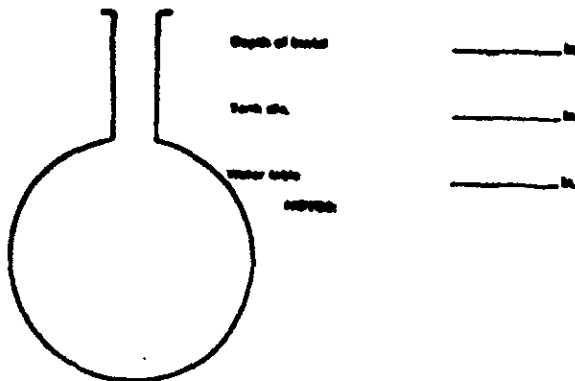
Complete section below.

1. Is four pound rule required? Yes No

2. Height to 14" mark from bottom of tank _____ ft.

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

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



The above calculations are to be used for dry well 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 NFPA 24 Sections 5-2.2.4 and 5-1.2 and the tank manufacturer regarding allowable system test pressure.

18. TANK MEASUREMENTS FOR TEST ASSEMBLY

Distance of tank to grade* 174 ft.

Add 20" for "T" probe cap 204 ft.

Total tubing to assembly - approximate 204 ft.

20. EXTENSION HOSE SETTING

Tank top to grade* 60 ft.

Ground level on section tube 0" or more

Below tank top 66 ft.

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

22. Thermal-Strain reading after circulation

_____ ft.

_____ ft.

_____ ft.

23. Slugs per "F" in range of expected change

COEFFICIENT OF EXPANSION (Complete after circulation)

24a. Observed A.P.I. Gravity

Observed A.P.I. Gravity

Hydrometer employed

Observed Sample Temperature

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

Coefficient of Expansion for Test Fuel Product From Table B

Transfer COE to Line 25b.

25. (a) _____

Total quantity in full tank (40 or 60)

25. (a) 10,285,714

Volume change per "F" 60 or 60

(b) _____

Coefficient of expansion for test fuel product

25. (b) 1,000

Volume change per "F" 60 or 60

21. VAPOR RECOVERY SYSTEM Stage 1 Stage 2

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product UL

Hydrometer Employed

Temperature in Tank After Circulation 68.8Temperature of Sample 69Distance (ft) 0Observed A.P.I. Gravity 59.4Feedpoint 1,470 Page # 63Total quantity in full tank (40 or 60) 15,120Feedpoint 1,470Volume change in this tank per "F" 10.285714

Transfer to Line 25b.

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

Water Temperature after Circulation Table C

Table D

Coefficient of Water Table C

Table D

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

25. (c) _____

Volume change in this tank per "F"

25. (c) 0.0102857Table D 0103

TANK SIZE 12K

PRODUCT SUPER UNLEADED SS# 063

DATE OF TEST
06-06-91
06-06-91

THRIFTY OIL CO 6,125 TELEGRAPH OAKLAND

Name of Supplier, Dealer or Tester

Address No. and Street

City

State

Date of Test

15. TANK TO TEST

T3 WEST

Identify by position

SUPER UNLEADED

Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

16. CAPACITY

Marked Capacity 12,000

Before

By most accurate capacity chart available 11,891

Before

App

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

17. FILL-UP FOR TEST

Which Water System before filling-up _____

to _____

Before

95"

Tank Diameter

Inventory

Before

11,891

Total Volume on Filling

11,891

19. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

Water in tank Lines being tested with LMSV

High water table in tank excavation

See manual sections applicable. Check below and record procedure in log (20).

Use maximum allowable test pressure for all tanks. Four pound rule does not apply to double-walled tanks.

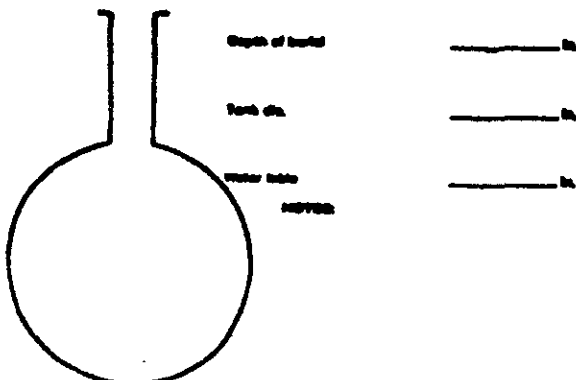
Complete section below.

1. Is four pound rule required? Yes No

2. Height to 14" mark from bottom of tank _____ ft.

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

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



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

Refer to SPPA, 24 Sections 2-2.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.

18. TANK MEASUREMENTS FOR TSTY ASSEMBLY

Bottom of tank to grade" 159 ft.
Add 24" for "T" probe cap. 189.25 ft.
Total tubing to assemble - approximate 192 ft.

20. EXTENSION HOSE BETTING

Tank top to grade" 64 ft.
Extend hose on section tube 2" or more
Below tank top 70 ft.

* If 1/2" pipe extends above grade, use top of 1/2"

22. Theoretical Gauge reading after circulation _____ ft.
_____ ft.

23. Slugs per "9 in range of expected change _____ ft.

COEFFICIENT OF EXPANSION (Complete after circulation)

24a. Corrected A.P.A. Gravity
Observed A.P.A. Gravity _____

Hydrometer employed _____

Observed Sample Temperature _____ °F

Corrected A.P.A. Gravity @ 60°F, from Table A _____

Coefficient of Expansion for Isolated Product from Table B _____

Transfer COE to Line 25.

25. (a) Total quantity in full tank (ft³ or m³) _____ (b) Coefficient of expansion for Isolated product _____ (c) Volume change in this tank per °F _____

26. (a) 7.985906 (b) 1,000 (c) 0.0079859

Fill. to Gr. +8 11,899
11,899 11,899.

Transfer total to Line 26.

21. VAPOR RECOVERY SYSTEM Stage 1 Stage 2

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product S. U.L.

Hydrometer Employed _____

Temperature in Tank After Circulation 72.5 °F

Temperature of Sample 74 °F

Difference (°F) +1

Observed A.P.A. Gravity 57.8

Revised 1,490 Page # 61

11,899 1,490 7.985906

Total quantity in full tank (ft³ or m³) _____ Volume change in this tank per °F _____
Transfer to Line 26.

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

Water Temperature after Circulation Table C _____ °F

Coefficient of Water Table D _____

Added Substances? Yes No Transfer COE to Line 26.

(a) _____ (b) _____ (c) _____

(a) 0.0079859 (b) 1,000 (c) 0.0079859 This is 0080

