LCI LIQUID CONSTRUCTION, INC.

October 20, 1986

Arco
P.O. Box 5811
San Mateo, California 94402

Attention: Carl Seward

Re: Arco #601
712 Lewelling Blvd., San Leandro, Calif.

Dear Mr. Seward:

On October 15, 1986, a Petro Tite System Test was performed at the above-referenced location. The test was performed by Abel Hernandez, LCI Technician. The NFPA Code 329.02 criteria for a tight system is a maximum loss of .05 gallons per hour. Because of the almost infinite variables involved, this is not intended to be a mathematical tolerance and is not the permission of actual leakage.

During the stand-pipe test procedure, the internal liquid hydrostatic pressure applied to the underground tank system is generally two to three times greater than normal liquid storage pressures. This increase in hydrostatic pressure will amplify the indicated rate of leak accordingly.

SYSTEM TEST

Tank No. 1 - East
Size - 300 Gallons
Product - Waste Oil
The test showed a plus .008 gallons per hour.
Based on the above criteria, we find the tank tested mathematically tight.

This concludes our test and findings on October 15, 1986. If you have any questions regarding the results, please contact me. It is your responsibility to notify your local County Health Department, Environmental Health, within thirty (30) days of the results of this test. This notfication is required by the California Administrative Code, Title 23 Waters, Chapter 3 Water Resources Control Board, Sub-chapter 16 Underground Tank Regulations, Article 4.30.

1054 North 'J' Street • Post Office Box 1220 • Tulare, California 93275 • (209) 688-1980

We have enjoyed working with you on this project. If you need any further information, please feel free to contact our office.

Sincerely,

Larry Carver
Tank Testing Coordinator

LC/tb

Enclosures

# Data Chart for Tank System Tightness Test

**petro tite**
TANK TESTER

PLEASE PRINT

**1. OWNER** Property ☐ Tank(s) ☐

Arco P.O. Box 5811 San Mateo, Calif. 94402 Ron Miles 1-800-421-7457
Name / Address / Representative / Telephone

Name / Address / Representative / Telephone

**2. OPERATOR**

ARCO #601, 712 Lewelling Blvd./Washington, San Leandro, CA
Name / Address / Telephone

**3. REASON FOR TEST** (Explain Fully)

To check for tightness

**4. WHO REQUESTED TEST AND WHEN**

Ron Miles — Title — Arco — Company or Affiliation — Date
Name
P.O. Box 5811 San Mateo, California 94402 — same
Address / Telephone

**5. WHO IS PAYING FOR THIS TEST?**

Arco — Ron Miles — same
Company, Agency or Individual — Person Authorizing — Title — Telephone
P.O. Box 5811 San Mateo, California 94402
Billing Address / City / State / Zip

Attention of: Ron Miles — Order No. — Other Instructions

**6. TANK(S) INVOLVED**

| Identify by Direction | Capacity | Brand/Supplier | Grade | Approx. Age | Steel/Fiberglass |
|---|---|---|---|---|---|
| #1 East | 300 | -0- | WASTE OIL | | STEEL |
| | | | | | |
| | | | | | |

**7. INSTALLATION DATA**

| Location | Cover | Fills | Vents | Siphones | Pumps |
|---|---|---|---|---|---|
| East side of Lot | Black Top | 2" | 2" | -0- | -0- |
| North inside driveway, Rear of station, etc. | Concrete, Black Top, Earth, etc. | Size, Tiefill make, Drop tubes, Remote Fills | Size, Manifolded | Which tanks? | Suction, Remote, Make if known |

**8. UNDERGROUND WATER**

Depth to the Water table 8+ ft.

Is the water over the tank? ☐ Yes ☑ No

**9. FILL-UP ARRANGEMENTS**

Tanks to be ~~filled~~ DRAINED Eod hr. 10-15-86 Date Arranged by ARCO Ron Miles
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**

TESTED WASTE OIL TANK with WATER, Set up Equipment, Set up 4" Riser pipes, Plugged 2" Drain.

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 (see #13) as detailed on attached test charts with results as follows:

| Tank Identification | Tight | Leakage Indicated | Date Tested |
|---|---|---|---|
| #1 East | YES | +.006 | 10-15-86 |
| | | | |
| | | | |

1229

**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.

10-15-86
Date

ABEL HERNANDEZ — LCI — Abel Hernandez
414811897
Technician / Testing Contractor or Company / By: Signature

Serial No. of Thermal

P. O. Box 1220, Tulare, CA 93275

Petro Tite TANK TESTER

14. ARCO #601, 712 Lewelling Blvd./Washington, San Leandro, CA — 10-15-86

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

**15. TANK TO TEST**

#2 East
Identity by position

Wast Oil
Brand and Grade

**16. CAPACITY**

Nominal Capacity 300 Gallons

By most accurate capacity chart available 300 Gallons

Is there doubt as to True Capacity? ☐
See Section "DETERMINING TANK CAPACITY"

From
- ☐ Station Chart
- ☐ Tank Manufacturer's Chart
- ☐ Company Engineering Data
- ☐ Charts supplied with petro tite
- ☑ Other STICK

**17. FILL-UP FOR TEST**

Stick Water Bottom before Fill-up 0 to ⅛ in. — 0 Gallons

FILL up. STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

Tank Diameter 28"

| | Stick Readings to ⅛ In. | Gallons | Total Gallons ea. Reading |
|---|---|---|---|
| Inventory | | | 300 |
| | | | |
| | Top | off | + 10 |
| Product in full tank (up to fill pipe) | | | 310 |

**18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK**

See manual sections applicable. Check below and record procedure in log (26).

☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT

TESTED WASTE OIL TANK WITH WATER"

VAPOR RECOVERY SYSTEM
- ☐ Stage I
- ☐ Stage II

**19. TANK MEASUREMENTS FOR TSTT ASSEMBLY**

| | |
|---|---|
| Bottom of tank to Grade* | 69" |
| Add 30" for 4" L | " |
| Add 24" for 3" L or air seal | " |
| Total tubing to assemble Approximate | 132" |

**20. EXTENSION HOSE SETTING**

| | |
|---|---|
| Tank top to grade* | 39" |
| Extend hose on suction tube 6" or more below tank top | 0" |

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

**21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK**

Is Today Warmer? [ ] Colder? [ ] ___° F Product in Tank ___° F Fill-up Product on Truck ___° F Expected Change [ + or - ]

22. Thermal-Sensor reading after circulation 15232 digits — 68/69 °F Nearest

23. Digits per °F in range of expected change 326 digits

24. 310 (total quantity in full tank (16 or 17)) × .000 (coefficient of expansion for involved product) = ___ gallons (volume change in this tank per °F)

25. ___ (volume change per °F (24)) ÷ 326 (Digits per °F in test Range (23)) = .00011683 (Volume change per digit. Compute to 4 decimal places.)

This is test factor (a) .0001

OBSERVED GRAVITY ___

OBSERVED TEMPERATURES 66°

CORRECTED API GRAVITY ___

C. O. E. .000

| 26. LOG OF TEST PROCEDURES | | | 30. HYDROSTATIC PRESSURE CONTROL | | 31. VOLUME MEASUREMENTS (V) RECORD TO .001 GAL | | | 34. TEMPERATURE COMPENSATION USE FACTOR (a) | | | 38. ALL VOLUME CHANGES EACH READING | 39. ACCUMULATED CHANGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27. DATE / TIME (24 hr.) | 28. Record details of setting up and running test. (Use full length of line if needed.) #1 East WASTE OIL | 29. Reading No. | Standpipe Level in Inches: Beginning of Reading | Standpipe Level in Inches: Level to which Restored | 32. Product in Graduate: Before Reading | Product in Graduate: After Reading | Product Replaced (−) / Product Recovered (+) | 35. Thermal Sensor Reading | 36. Change Higher + Lower − (c) | 37. Computation (c) × (a) = Expansion + Contraction − | Temperature Adjustment: Volume Minus Expansion (+) or Contraction (−) #33(V) − #37(T) | At High Level record Total Leak Reduction / At Low Level compute Change per Hour (EFPA criteria) |
| 0700 | ARRIVED AT SITE: TOOK TANK BURIAL MEASUREMENTS: | | | | CHECKED FOR WATER: | | | PLEASE | NOTE: | IN THE | EVENT AIR/VAPOR | |
| 0705 | TOOK INVENTORY OF PRODUCT ON HAND: PREPARED AREA | | | | FOR SETTING UP | | TESTERS. | POCKETS | WERE | PRESENT | IN THE TANK/SYSTEM | |
| | | | | | | | | IT COULD HAVE AN EFFECT ON THE TEST READING | | | | |
| 0800 | DELIVERY TRUCK ARRIVED: ASSISTED DRIVER IN FILLING TANK, SET UP TEST | | | | | | | | | | | |
| 0800 | STAND AND STARTED CIRCULATING PUMP, BLED AIR. | | | | | | | | | | | |
| 0803 | THERMAL = 12.29 | | | | | | | Factor | M = | .0001 | | |
| 0815 | FIRST SENSOR READING | | / | 42 | / | / | / | 15,232 | 68/60 | .326 | | |
| 0830 | START SENSOR READING | 1. | 42.2 | " | .580 | .590 | +.010 | 301 | +69 | +.007 | +.003 | |
| 0845 | CONT'D HIGH LEVEL TEST | 2. | 42.1 | " | .590 | .595 | +.005 | 355 | +54 | +.005 | +.000 | |
| 0900 | " " " " | 3. | 42.1 | " | .595 | .600 | +.005 | 420 | +65 | +.007 | −.002 | |
| 0915 | " " | 4. | 42.0 | " | .600 | .600 | +.000 | 429 | +59 | +.006 | −.006 | |
| 0917 | Drop to low level test | | / | 42 / 12 | / | / | / | / | / | / | / | |
| 0930 | " " " " " | 5. | 13.0 | " | .600 | .635 | +.035 | 550 | +71 | +.007 | +.028 | |
| 0945 | " " " " " | 6. | 12.3 | " | .635 | .650 | +.015 | 618 | +68 | +.007 | +.008 | |
| 1000 | " " " " " | 8. | 12.2 | " | .650 | .660 | +.010 | 684 | +66 | +.007 | +.003 | +.008 |
| 1015 | " " " " " | 8 | 12.1 | " | .660 | .665 | +.005 | 753 | +69 | +.007 | −.002 | |
| 1030 | " " " " " | 9 | 12.1 | " | .665 | .670 | +.005 | 817 | +64 | +.006 | −.001 | |
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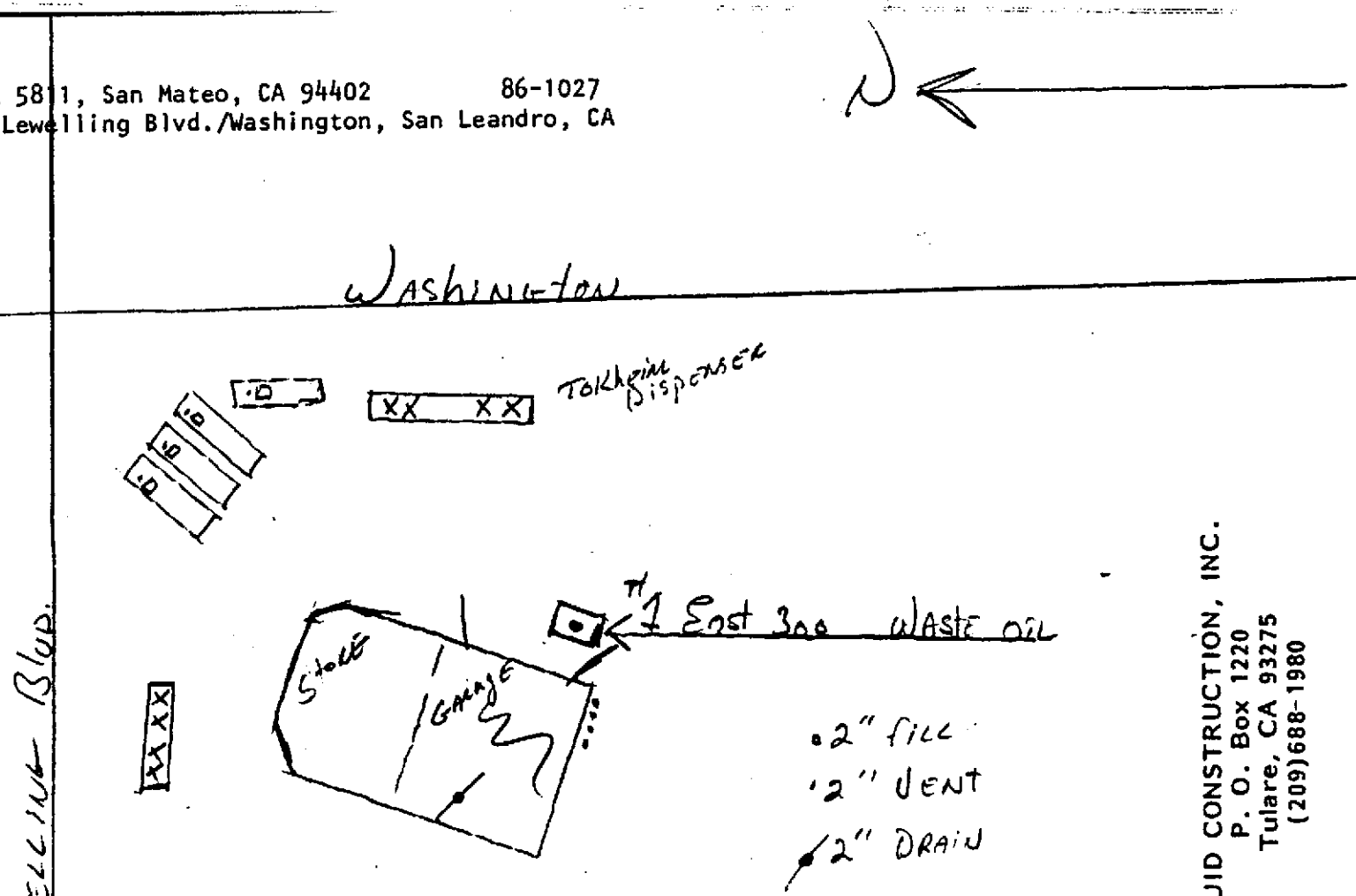
| | | | | | | | | | | | | |
| | TEST CONCLUDED [illegible] FOUND TO BE TIGHT OR NOT TIGHT ON THIS DAY. | | | | | | | 12-15-86 | | | | |

ARCO, P. O. Box 5811, San Mateo, CA 94402 86-1027
ARCO #601, 712 Lewelling Blvd./Washington, San Leandro, CA

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