HALLMARK

PETROLEUM

TANK TEST CERTIFICATION

This report is to certify that the following listed tank systems were tested by Hallmark Petroleum on the date(s) shown. Those indicated as "TIGHT" meet the criteria established by the National Fire Protection Association pamphlet #329.

A certified PETRO-TITE trained technician supervised the test.
See attached detail reports.

Address of Testing Location:

COMPANY THRIFTY OIL CO.
STATION # STATION #063
ADDRESS 6125 Telegraph Ave.
Oakland, Ca 94603
DATE June 22, 1986

QUANTITY	DESCRIPTION	READING	COMMENT
12,000 Gal.	Regular	-.001 g/h	System is Tight
15,000 Gal.	No Lead	-.019 g/h	System is Tight
12,000 Gal.	Premium No Lead	+.013 g/h	System is Tight

The Petro-Tite tank testing system requires that all AIR be eliminated from a tank and system. However, due to the design or installation of some tanks, an air pocket or bubble may be trapped in the tank. In some cases there are no openings in the tank or system to vent the air pocket or bubble. This condition could result in an INCONCLUSIVE test or cause the test to indicate that the system is NOT TIGHT. Hallmark Petroleum will do everything possible to eliminate all air pockets or bubbles, but accepts NO RESPONSIBILITY on systems that can not be properly bled free of air. Hallmark Petroleum will report to the customer on those systems that indicates that air may be a contributing factor.

25935 Frampton Ave. Harbor City, CA 90710
(213) 534-3796 800-824-6442 CALIF. 800-824-6441 U.S.

062285

Data Sheet for Tank System Tightness Test

PLEASE PRINT

1. OWNER Property ☐ Tank(s) ☐

Thrifty Oil Co. 10000 Lakewood Blvd. Downey, Ca 90240
Name — Address — Representative — Telephone

Name — Address — Representative — Telephone

2. OPERATOR

Thrifty SS #63 6125 Telegraph Ave./62nd Oakland, CA 94603 (415)428-9608
Name — Address — Telephone

3. REASON FOR TEST (Explain Fully)

4. WHO REQUESTED TEST AND WHEN

Daisy Mosby Thrifty Oil
Name — Title — Company or Affiliation — Date

Address — Telephone

5. WHO IS PAYING FOR THIS TEST?

Thrifty Oil Co. 10000 Lakewood Blvd. Downey, Ca 90240
Company Agency or Individual — Person Authorizing — Title — Telephone

Billing Address — P.O. #13410 — City — State — Zip

Attention of — Order No — Other Instructions

6. TANK(S) INVOLVED

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
#2 Middle	12,000 gal	Thrifty	Regular	4 yrs.	Steel
#3 West	15,000 gal	Thrifty	No Lead	4 yrs/	Steel
#1 East	12,000 gal	Thrifty	Premium NL	4 yrs.	Steel

7. INSTALLATION DATA

Location	Cover	Fills	Vents	Siphones	Pumps
000 S ↑ 3 2 1 N ↓	Concrete	4"	2"	No	Red Jacket/ Tokeim Disp.
North inside driveway, Rear of station etc	Concrete Black Top, Earth etc	Size, Fillfill make, Drop tubes Remote Fills	Size Manifolded	Which tanks?	Suction Remote Make if known

8. UNDERGROUND WATER

Depth to the Water table n/a (Below bottom of tanks)

Is the water over the tank? ☐ Yes ☒ No

9. FILL-UP ARRANGEMENTS

Tanks to be filled ____ hr 6/23 Date Arranged by Daisy Mosby
Name — Telephone

Extra product to "top off" and run TST? How and who to provide? Consider NO Lead.
No gas left for "top off"

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

10. CONTRACTOR, MECHANICS, any other contractor involved

Repairs done by Hallmark Petroleum

11. OTHER INFORMATION OR REMARKS

Do a separate line test if system is not tight
Do waste tanks if requested.
Red Jacket Vapor Recovery

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 charts with results as follows:

Tank Identification	Tight	Leakage Indicated	Date Tested
#1 Super No Lead	Yes	+.013 g/h	6/22/86
#2 Regular	Yes	-.001 g/h	6/22/86
#3 No Lead	Yes	-.019 g/h	6/22/86

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 Asociation Pamphlet 329.

4/84;5/86
Date

MARVIN YANKEE
Technicians

HALLMARK PETROLEUM
Testing Contractor or Company — By — Signature

25935 S. Frampton, Harbor City, Ca 90710
Address

Serial No of Thermal Sensor

14 Tur[illegible] [redacted] 6135 Telegraph, Oakland [redacted] 6-21-86

Name of Supplier/Owner — Address (No. and Street) — City — Date of Test

15 TANK TO TEST

#1 [illegible]

Super [illegible] (unleaded)

Brand and Grade

16 CAPACITY

Nominal Capacity 12,000 Gallons

By most accurate capacity chart available 11,9[illegible] 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 ______

17. FILL UP FOR TEST

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

	Stick Readings to ⅛ in.	Gallons	Total Gallons on Reading
Inventory		11,7[illegible]	
Fill-up STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY		[illegible]	
		[illegible]	
Product in full tank (up to fill pipe)		[illegible]	

Tank Diameter 95"

18 SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

See manual sections applicable. Check below and record procedure in log (28)

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

OBSERVED API GRAVITY 55.9
OBSERVED TEMPERATURE 72
CORRECTED API GRAVITY 54.5

VAPOR RECOVERY SYSTEM
- ☐ Stage I
- ☒ Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to Grade* 145"

Add 30" for 4" L ______"

Add 24" for 3" L or air seal ______"

Total tubing to assemble - Approximate ______"

20 EXTENSION HOSE SETTING

Tank top to grade* [illegible]"

Extend hose or suction tube 6" or more below tank top ______"

*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 in Truck ___°F Expected Change (+ or -)

22 Thermal Sensor reading after circulation 16[illegible] digits [illegible] Nearest °F

23 Digits per °F in range of expected change ______ digits

24 11,707 total quantity in full tank (16 or 17) × .00057465 coefficient of expansion for involved product = 6.5[illegible] volume change in this tank per °F gallons [.0213]

25 6.5[illegible] volume change per °F (24) ÷ 3[illegible]1 Digits per °F in test Range (23) = .021[illegible] Volume change per digit. Compute to 4 decimal places. This is test factor (a)

27 Time (24 hr)	28 Record details of setting up and running test (Use full length of line if needed)	29 Reading No.	30 Standpipe Level in Inches: Beginning of Reading	Level to which Restored	32 Product in Graduate: Before Reading	After Reading	Product Replaced (-) / Product Recovered (+)	35 Thermal Sensor Reading	36 Change Higher + Lower - (b)	37 Compensation (a) × (b) = Expansion + Contraction -	38 Net Volume Changes Each Reading: Volume Change Expansion (+) or Contraction (-) #33(V) - #37(T)	39 Accumulated Change
	Set up Bonnevue			[illegible]								
	Topped off [illegible]			[illegible]						Factor A		.0213
915	Began Circulation											
1025	[illegible]											
10[illegible]	Tank Reading	1		42	.470			956				
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	959	3	[illegible]	[illegible]	
[illegible]	[illegible]	3	424	42	.470	.510	+040	960	+1	+.021	+.019	
[illegible]	[illegible]	4	423	[illegible]	[illegible]	.[illegible]	[illegible]	[illegible]	+1	+.149	[illegible]	
1130	Cont. [illegible] Test	5	425	42	.550	.5[illegible]	+045	971	+4	+.[illegible]	[illegible]	
11[illegible]	Cont. [illegible]	6	425	42	.575	.635	[illegible]	[illegible]	[illegible]	+.107	[illegible]	
[illegible]	[illegible]	7	427	42	.[illegible]	.695	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	8	42[illegible]	42	.[illegible]	.750	[illegible]	982	[illegible]	[illegible]	[illegible]	
[illegible]	Dropped To [illegible]			12	.400							
[illegible]	Begin [illegible]	[illegible]	142	12	[illegible]	.755	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	135	12	[illegible]	[illegible]	[illegible]	9[illegible]	+[illegible]	+.128	[illegible]	[illegible]
		[illegible]	124	12	.425	[illegible]	[illegible]	[illegible]	[illegible]	+.107	[illegible]	[illegible]
		[illegible]	121	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	[illegible]	[illegible]	128	12	[illegible]	.105	[illegible]	[illegible]	[illegible]	+.05[illegible]	[illegible]	[illegible]
	[illegible]											

#1 Super No Lead

14 THC O1 [redacted] 4125 Telegraph OAKLA[redacted] 6-22-[illegible]
Name of Supplier Owner — Address No. and Street — City — Date of Test

15. TANK TO TEST

Middle
Identify by position

Regular
Brand and Grade

16. CAPACITY

Nominal Capacity 12,000 Gallons

By most accurate capacity chart available 11,907 Gallons

Is there doubt as to True Capacity? [X]
See Section: DETERMINING TANK CAPACITY

From:
- [X] Station Chart
- [ ] Tank Manufacturer's Chart
- [ ] Company Engineering Data
- [ ] Charts supplied with petro tite
- [ ] Other

17. FILL UP FOR TEST

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

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

	Stick Readings in to in.	Gallons	Total Gallons on Reading
Inventory			11,907
			10
Product in full tank (up to fill pipe)			11,917

Tank Diameter 95"

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

See manual sections applicable. Check below and record procedure in log (28)

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

OBSERVED API GRAVITY 58.8
OBSERVED TEMPERATURE 72
CORRECTED API GRAVITY 57.3

VAPOR RECOVERY SYSTEM
- [ ] Stage I
- [X] Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to Grade* 145"
Add 30" for 4" L
Add 24" for 3" L or air seal
Total tubing to assemble. Approximate

20. EXTENSION HOSE SETTING

Tank top to grade* 50"
Extend hose or suction tube 6" or more below tank top

*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 in Truck ___°F Expected Change (+ or −)

22. Thermal-Sensor reading after circulation 16800 digits 73/74 °F Heated

23. Digits per °F in range of expected change 322 digits

24. 11,907 total quantity in full tank (16 or 17) × .000594? coefficient of expansion for involved product = 7.0775?801 gallons volume change in this tank per °F [.0???]

25. 7.0775?801 volume change per °F (24) ÷ 322 Digits per °F in test Range (23) = .021?9??? Volume change per digit. Compute to 4 decimal places. This is test factor (a)

27 Time	28 Record details of setting up and running test	29 Reading No.	30 Beginning of Reading	Level to which Restored	32 Before Reading	After Reading	Product Replaced (−) / Recovered (+)	35 Thermal Sensor Reading	36 Change Higher + Lower −	37 Computation (a) × (b) = Expansion + Contraction −	38 Temperature Adjustment Volume Minus Expansion (+) or Contraction (−)	39 Accumulated Change
920	Set up Equipment											
9:45	*Tipped off & Bled Syst										[E .0?20]	
100	Began Circulation											
1055	Took API Sample							16				
1100	Took Readings	1		42	.295		−	800				
1115	Began H. Test	2	39	42	.795	.545	−250	807	+7	+.154	−.404	
1130	Cont H. Test	3	m1	42	.545	.400	−.145	809	+2	+.044	−.189	
1145	Cont H. Test	4	402	42	.400	.250	−.150	816	+7	+.159	−.271	
1200	Cont H. Test	5	408	42	.280	.185	−.095	820	+4	+.088	−.183	
1215	"	6	41.4	42	.185	.120	−.065	822	+2	+.044	+.021	
1230	Cont H. Test	7	420	42	.120	.120	.000	826	+4	+.088	−.088	
1245	" "	8	415	42	.120	.080	−.040	832	+6	+.132	−.172	
100	Cont H. Test	9	416	42	.080	.050	−.030	838	+6	+.132	−.162	
102	Dropped to 12" Level	/		12		.395						
115	Began Cont Test	10	13.5	12	.395	.510	+.115	840	+2	+.044	+.071	
130	Cont Low Level	11	12.9	12	.510	.570	+.060	842	+2	+.044	+.016	+.016
145	" "	12	13.0	12	.570	.635	+.065	846	+4	+.088	−.023	−.007
200	Cont Low Level	13	12.9	12	.635	.690	+.055	848	+2	+.044	+.011	+.005
215	" "	14	13.0	12	.690	.750	+.060	851	+3	+.066	−.006	−.001
	END OF TEST											

−.001 g/ph
System is tight
[illegible]
6-22-[illegible]

* Found vapor hose leaking at swivel at Regular pump #8. Removed hose & plugged vapor system.

NO DROP TUBE IN FILL

14 7 HALEY [redacted] #6.3 6125 Telegraph Oakla[redacted] CA 6-22-86
Name of Supplier / Owner — Address (No. and Street) — City — State — Date of Test

15. TANK TO TEST
West #3
Identify by position
McLean
Brand and Grade

16. CAPACITY
Nominal Capacity 15,000 Gallons
By most accurate capacity chart available 15,275 Gallons
Is there doubt as to True Capacity? [ ]
See Section "DETERMINING TANK CAPACITY"

From
[ ] Dealer Chart
[ ] Tank Manufacturer's Chart
[ ] Company Engineering Data
[ ] Charts supplied with PETRO TITE
[ ] Other

17. FILL UP FOR TEST

	Stick Readings to ⅛ in.	Gallons	Total Gallons on Reading
Stick Water Bottom before Fill-up		0 Gallons	
Inventory		15,275	
Fill up STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY		10	
Product in full tank (up to fill pipe)		15,285	

Tank Diameter 120"

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (28).
[X] Water in tank [ ] High water table in tank excavation [X] Line(s) being tested with LVLLT

OBSERVED API GRAVITY 56.7
OBSERVED TEMPERATURE 67
CORRECTED API GRAVITY 56

VAPOR RECOVERY SYSTEM
[ ] Stage I
[X] Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* ______"
Add 30" for 4" L ______"
Add 24" for 3" L or air seal ______"
Total tubing to assemble Approximate ______"

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

21 TEMPERATURE/VOLUME FACTOR (e) 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 16518 digits 72/73 °F Nearest

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

24. 15,285 (total quantity in full tank (16 or 17)) × .00058236 (coefficient of expansion for involved product) = 8.9013726 gallons (volume change in this tank per °F) [.0276]

25. 8.9013726 (volume change per °F (24)) ÷ 323 (Digits per °F in test Range (23)) = .027558429 (Volume change per digit. Compute to 4 decimal places.) This is test factor (e)

26. LOG OF TEST PROCEDURES

27 Time	28 Record details of setting up and running test. (Use full length of line if needed.)	29 Reading No.	30 Standpipe Level in Inches: Beginning of Reading	Level to which Restored	32 Product in Graduate: Before Reading	After Reading	Product Replaced (−) / Product Recovered (+)	35 Thermal Sensor Reading	36 Change Higher + Lower −	37 Computation (c) × (e) = Expansion + Contraction −	38 Net Volume Change Each Reading	39 Accumulated Change
								Factor A			.0276	
9:00	Removed Drop Tube + Bonded											
9:15	Set up Equipment + Tapped all											
9:45	Began Circulation + Bled System											
9:10	Took API Sample											
9:15	Took Readings	1		42		.320		518				
9:20	Began Hi Test	2	42	42	320	.320	+000	519	0	+000	000	
9:45	Cont Hi Test	3	422	42	.320	.350	+030	520	+2	+055	-025	
10:00	"	4	422	42	.350	400	+.050	528	+9	+221	-171	
10:15	Cont Hi Test	5	422	42	400	425	+.025	529	0	.000	-.025	
10:30	"	6	42.3	42	.425	475	+050	530	+2	+055	-005	
10:45	Cont Hi Test	7	421	42	.475	.500	+.025	531	+1	+028	-.003	
11:00	"	8	423	42	.500	.550	+050	532	+1	+028	+022	
11:15	Cont Hi Test	9	425	42	.550	.600	+050	534	+2	+055	-005	
11:30	"	10	42.5	42	.600	.660	+060	536	+2	+055	+005	
	Dropped To 12			12	.200							
11:45	Began Low Test	11	13.3	12	.200	.290	+090	538	+2	+055	+035	
12:00	Cont Low Test	12	12.9	12	.290	.360	+070	540	+2	+055	+015	+015
12:15	"	13	122	12	.360	.385	+025	541	+1	+028	-.003	+012
12:30	Cont Low Test	14	12.0	12	.385	.385	+000	542	+1	+028	-025	-.016
12:45	"	15	12.1	12	.385	.410	+025	543	+1	+028	-003	-.019
	END OF TEST											

-.019 g/ph
Tight

HALLMARK
P E T R O L E U M
25935 Frampton Ave., Harbor City, CA 90710
(213) 534-3796 800-824-6442 CALIF 800-824-6441 U.S.

PALLMALL
PETROLEUM

SUNDAY
OAKLAND

SAFETY CHECK SHEET

✓ Thursday
San Jose

JOB 062236 DATE 6/22/00

MEET PERSON IN CHARGE OF AREA AND BRIEFLY EXPLAIN TEST PROCEDURE.

- EXPLAIN NEED FOR FIRE WATCH - OPEN GAS CONTAINERS
- DISCUSS TRAFFIC CONTROL AROUND TEST AREA
- DISCUSS GENERAL SAFETY- NEEDED WHILE TESTING TANKS

PHONE NUMBER OF LOCAL FIRE DEPT 911

AREA OF TANK TESTING ROPED OFF yes

SET UP BARRICADES AROUND TANK TESTING AREA yes

POST WARNING SIGNS AROUND TANK TESTING AREA yes

FIRE EXTINGUSHERS - 2 POSTED NEAR TEST SITE yes

WATER SUPPLY AND HOSE IS LOCATED AT Front of Building

ELECTRICAL BREAKERS - LOCKED OUT FOR SYSTEM BEING TESTED. yes

ELECTRICAL DROP CORDS - LOCATE PLUG INS OUTSIDE TEST AREA.

Jerri Yank

25935 Frampton Ave., Harbor City, CA 90710
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