## BROWN AND CALDWELL



CONSULTING ENGINEERS

June 11, 1987

The Ut TAMES

Mr. Ted Gerow Alameda County Public Health Service Division of Environmental Health Room 322 470 27th Street Oakland, California 94612

11-39-3310-03/1

Subject: Tank Integrity Testing Results for

Arco Service Stations 608 and 414

Dear Mr. Gerow:

On behalf of Arco Petroleum Products Company (Arco), enclosed are the tank testing results for the underground waste-oil tanks at Arco Service Stations 608 (located at 17601 Hesperian, San Lorenzo, California) and 414 (located at 3000 Shattuck, Berkeley, California). Tank tests indicate both tanks are tight. If you have any questions regarding this submittal, please call me.

Very truly yours,

BROWN AND CALDWELL

Margit Bantowsky

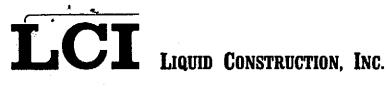
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Enclosures (2)

cc: Ms. Karen Schultheis, Arco Petroleum Products Company, San Mateo, California

Mr. Hank Sheetz, Arco Petroleum Products Company, San Mateo, California

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May 18, 1987

Hank Sheets ARCO Petroleum Company 4895 Woodthrush Dr. Pleasanton, CA 94560

Re: ARCO #608,17601 Hesperian/Hacienda, San Lorenzo, CA

Dear Hank:

On May 14, 1987, a Petro Tite System Test was performed at the above-referenced location. The test was performed by Larry Carver, LCI Tehnician. 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 is not the permission of actual leakage.

During the standpipe 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 - West Size - 550 gallons Product - Waste Oil The test showed a minus .008 gallons per hour. Based on the above criteria, we find the tank tested mathematically tight.

This concludes our test and findings. 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. The notification is required by the California Administrative Code, Title 23 Waters, Chapter 3 Water Resources Contol Board, Sub-chapter 16 Undergound Tank Regulation, Article 4.30.

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

Tank Testing Coordinator

LC/meo

## Data Cl rt for Tank System Tighti ss Test Petro Tite TANK TESTER

PLEASE' PRINT

1. OWNER Property ARCO, 4895 Woodthrush, Pleasanton, CA 94560 Telephone CA 94560 Tenk(s) Pleasanton. 4895 Woodthrush. ARCO #608, 17601 HesperianBlvd./Hacienda, San Lorenzo, 2. OPERATOR To test system for tightness 3. REASON FOR TEST (Explain Fully) 4. WHO REQUESTED Hank Sheets Date Company of Affiliation 94560 TEST AND WHEN ARCO, 4895 Woodthrush, Pleasanton, Telephone Hank Sheets ARCO 5. WHO IS PAYING Telephone Time ARCO, 4895 Woodthrush, Pleasanton, CA 94560 FOR THIS TEST? Žia State Hank Sheets Other Instructions Order No. Steel/Fiberglass Brand/Supplier Capacity Identify by Direction 6. TANK(S) INVOLVED Siphones Vents 7. INSTALLATION DATA Size, Titelili meke, Drop tubes, Remote Fills Concrete, Black Top. Size, Menifolded Which tents? Is the water over the tank? UNDERGROUND Æ∖∾ WATER Depth to the Water table Telephone 9. FILL-UP Consider NO Leed. How and who to provide? Extra product to "top off" and run TSTT. ARRANGEMENTS Terminal or other contact for notice or inquiry. Name Telephone Company 10. CONTRACTOR, MECHANICS. any other contractor involved 11. 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 atc. 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: 12. TEST RESULTS Laskage Indicated Tight DE This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" me the National Fire Protection Association Pamphist 329. 13. CERTIFICATION LCI aruy Testing Contractor or Company P. O. Box 1220, Tulare, CA 93275/ 414810198

C. O. E. 4000 16408

ARCO #608, 17601 Hesperia	m Blud /Nacienda S	Ran Lorenzo, CA			5-14	al lest
ARCO #608, 17601 Hesperia Name of Supplier, Owner or Decisi	Address No. and Street(s)		City	State	From	61 1491
TANK TO TEST    West   Gentler by Boetslon   Company of the control of the contro	16. CAPACITY  Nominal Capacity Gallons  By most accurate capacity chart available Gallons					
. FILL-UP FOR TEST				Stick Readings to 1/6 in.	Gallons	Total Gallons ea. Reading
ck Water Bottom "			Inventory		·	1
before FM-up to 16 in.	Gallons					11.1
LUP. STICK BEFORE AND AFTER EACH COMPAR	TMENT DROP OR EACH METERE	D DELIVERY QUANTITY				$-\frac{1}{2}$
			nk (up to fill pipe)		-	160
nk Diameter (./ (					VAPOR RECOVE	RY SYSTEM
R. SPECIAL CONDITIONS AND PROCEDURES re manual sections applicable. Check below and record	TO TEST THIS TANK	cord Tesled in	ith wals		Stage #	
		) being tested with LVLLT				
19. TANK MEASUREMENTS FOR TSTT ASSEMBLY Bottom of tank to Grade*	1s Today V 22. Tr	MPERATURE/VOLUME FAI Narmer?     Colder?    * F mermal-Sensor reading after ligits per *F in range of expe	Product in Tank* circulation2 cted change2	277 8  906  906  906  906  906  906  906  90	Nearest  O 9 / 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2D. EXTENSION HOSE SETTING  Tank top to grade*  Extend hose on suction tube 8" or more below tenk top	45 " K	otal quantity in it tank (16 or 17)  OG 188 48  olume change per *F (24)	involved prod  + 30  Digits per *F Range (23)	uct . (	per *F	O D > 7 This i
*If Filt pipe extends above grade, use top of fill.						(1010)
OBSERVED GRAVITY SU	1.4 Wei					

26. LOG OF TEST PROCEDURES			30. HTUROSTATIC 31. VOLUME MEASUREMENTS (V) PRESSURE RECORD TO .001 SAL.		34. TEMPERATURE COMPENSATION USE FACION (a)			CHANGES EACH READING	ACCUMULATES	A State Constant			
27.	Record details of setting UD	29. Reading	Standpi in l	pe Level nches	32. Produ Grade		Product Ruplaced (~)	35. Thermal	Change Higher +	37. Computation (c) × (o) =	Temporature Adjustment Volume Minus	At High Level record light End Bellection M Low Level compets	
Time	and running test. (Use full length of line if needed.)	No.	Beginning of Reading	Level to which Restored	Betere Reading	After Reading	Product Recovered (+)	Sensor Lawer - Reading (c)		Expansion + Contraction -	Expansion (+) or Contraction (-) #33(V) — #37(T)	Change per Hour (INFPA critoria)	
(24 to )	ARRIVED AT SITE: TOOK TANK BURI	AL ME	ASUREN	IENTS:	CHECKED	FOR WAT	ER:	PLEASE	NOTE:		EVENT All		
11.3	TOOK INVENTORY OF PRODUCT ON HAN	p: 1	REPARE	D AREA	FOR SET	TING UP	TESTERS.	POCKET:				NK/SYSTEM	
		<b> </b>						IT COU	D HAV	AN EFFE	CT ON TH	TEST READ	INGS
	DELIVERY TRUCK ARRIVED: ASSISTE	D DR	VER I	FILL	NG TANK,	SET UP	TEST						,
13/5	STAND AND STARTED CIRCULATING PU											<u> </u>	
1212		<u> </u>						Fa	tor	1.0003			
1245	FIRST SENSUR READING			42		.205		20277	84/85	306			
12 12	START SENSOR READING	1.	41.7	11	.205	185	020	2/65	-12	004	-,016		-
	CONT'D HIGH LEVEL TEST	2.	योङ	11	1185	175	-015	251	-14	004	-,011		
1435		3.	41.8	11	170	1155	-015	2.35	- 12.	7.004	011		
		4.	41.4	1/	.155	-	7015	227	-/2	-,004	~.011	<u> </u>	]
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ARCO #608, 17601 Hesperian Blvd./Hacienda, San Lorenzo, CA

· 3" Fills

LIQUID CONSTRUCTION, INC. P. O. Box 1220 Tulare, CA 93275 (209)688-1980