Associated Environmental Systems, Inc.

TO APPROPRIATE COUNTY REGULATORY AGENCY:

Alameda County Health
80 Swan Way, Room 200
Oakland, Ca 94621
Attn: Rafat Shahid

IN THE ENCLOSED PACKAGE YOU WILL FIND THE RESULTS FROM THE UNDERGROUND TANK TEST FOR TANKS LOCATED AT:

Unocal #4186
1771 First Street
Livermore, Ca

THE ORIGINAL OF ALL DOCUMENTS HAVE BEEN FORWARDED TO THE TANK OWNER. IF YOU HAVE ANY QUESTIONS, PLEASE CALL US AT 805-393-2212 AND ASK FOR THE OPERATIONS DEPARTMENT.

ASSOCIATED ENVIRONMENTAL SYSTEMS, INC. HAS ADVISED OUR CUSTOMER THAT PRECISION TEST RESULTS WERE SENT TO YOU FOR THIS LOCATION.

Associated Environmental Systems, Inc.

Dear Customer:

In the enclosed package you will find your Billing Order (invoice), Precision Tank & Line Test Results Sheet, site plan and test graphs. Copies of this entire package, except the Billing Order, have been submitted by A.E.S. to the governing agency in the specified county.

Amanda

Each county in California, as well as some cities, have their own tank testing program. Regulations vary from county to county. If you have any questions, please call us. We are always glad to help our customers in any way we can.

Thank you for letting us serve your tank testing needs. Please keep in mind A.E.S. offers other services in the Environmental field.

Thanks again,

Employess of A.E.S.

Headquarters • P.O. Box 80427, Bakersfield, CA 93380 • (805) 393-2212 • (800) 237-0067
3651 Pegasus Drive, Suite 102 • Bakersfield, CA 93308 • U.S. (800) 426-2113

Associated Environmental Systems, Inc.

P.O. Box 80427
Bakersfield, CA 933
(805) 393-2212

PRECISION TANK & LINE TEST RESULTS

Invoice Address:

UNOCAL CORP.
2000 CROW CANYON RD.400
SAN RAMONM, CA. 94583

Tank Location:

UNOCAL
1771 FIRST ST.
LIVERMORE, CA.

W.O.#: 14068

I.D. Number: 4168
Technician:BWH
Tech.#:88142 Van#:6105

Date: 4-10-91 Time Start: 09:00 End: 18:30 County: AL
Facility Phone#: (415)455-0121 Groundwater Depth: 12'+ Blue Prints: N/A
Contact: MGR. Date;Time system was filled: 4-10-91 09:00

Tank	Tank Capacity	Product	Tank	Fill/Vent Vapor Lines	Product Line	Type Of Vapor Recovery	Inches of Water/Tank	Pump Type	Tank Materia
1	10K	R/UL	PASS	PASS	PASS	II	0"	TURB.	SWF
2	10K	S/UL	PASS	PASS	PASS	II	0"	TURB.	SWF

Additional Information:

SITE LOG	TIME
Set Up Equip:	13:00
Bled Product Lines:	09:10
Bled Vapor Lines:	08:55
Bled Vent lines:	N/A
Bled Turbine:	08:57
Bled Suction Pump:	N/A
Risers Installed:	13:00

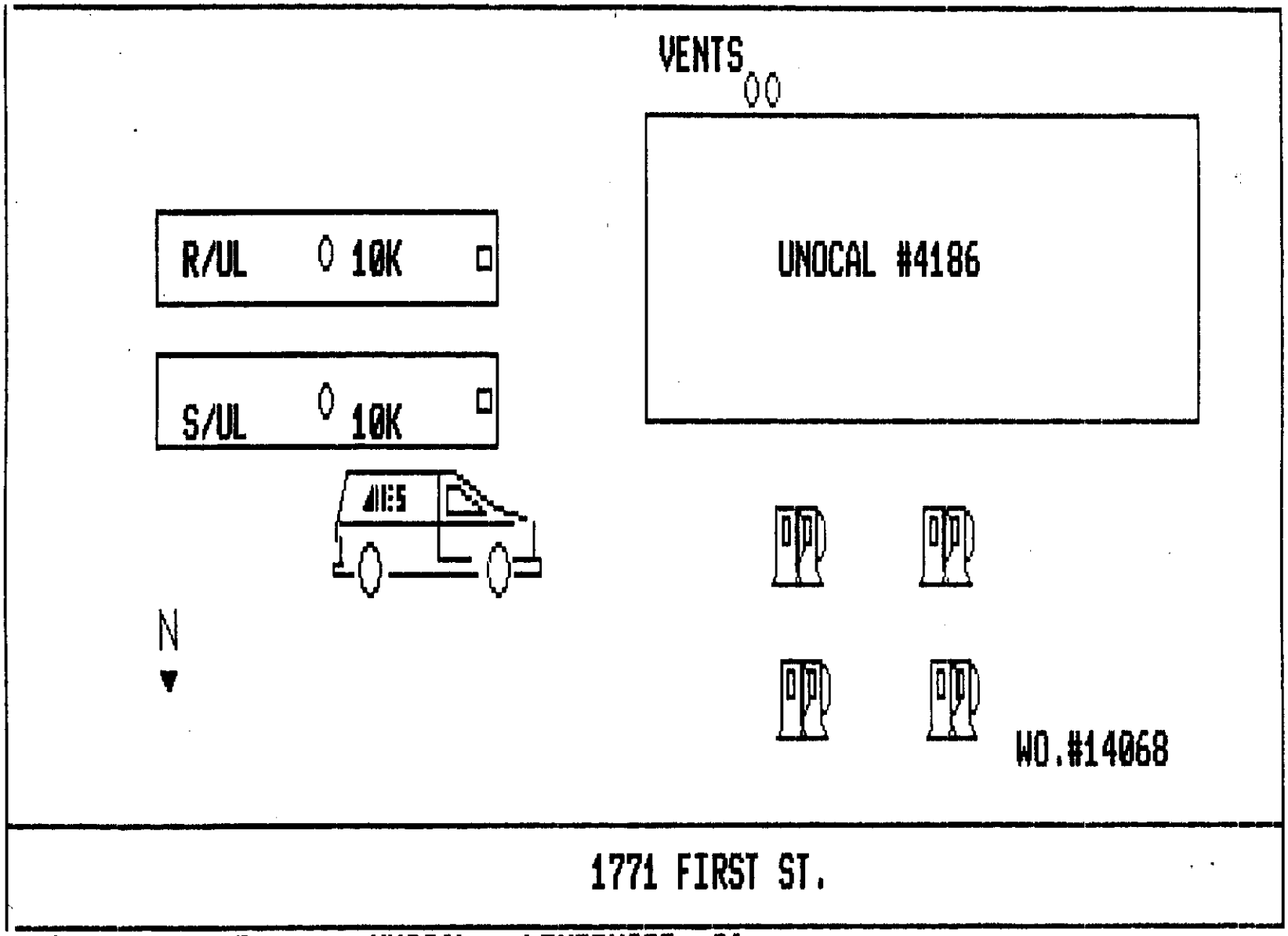
a) This system and method meets the criteria set forth in NFPA #329.
b) Any failure listed above may require further action, check with all regulatory agencies.

California O.T.T.L. Number : 91-1069

Certified Technician Signature : BWH

Date : 4-10-91

ASSOCIATED ENVIRONMENTAL SYSTEMS

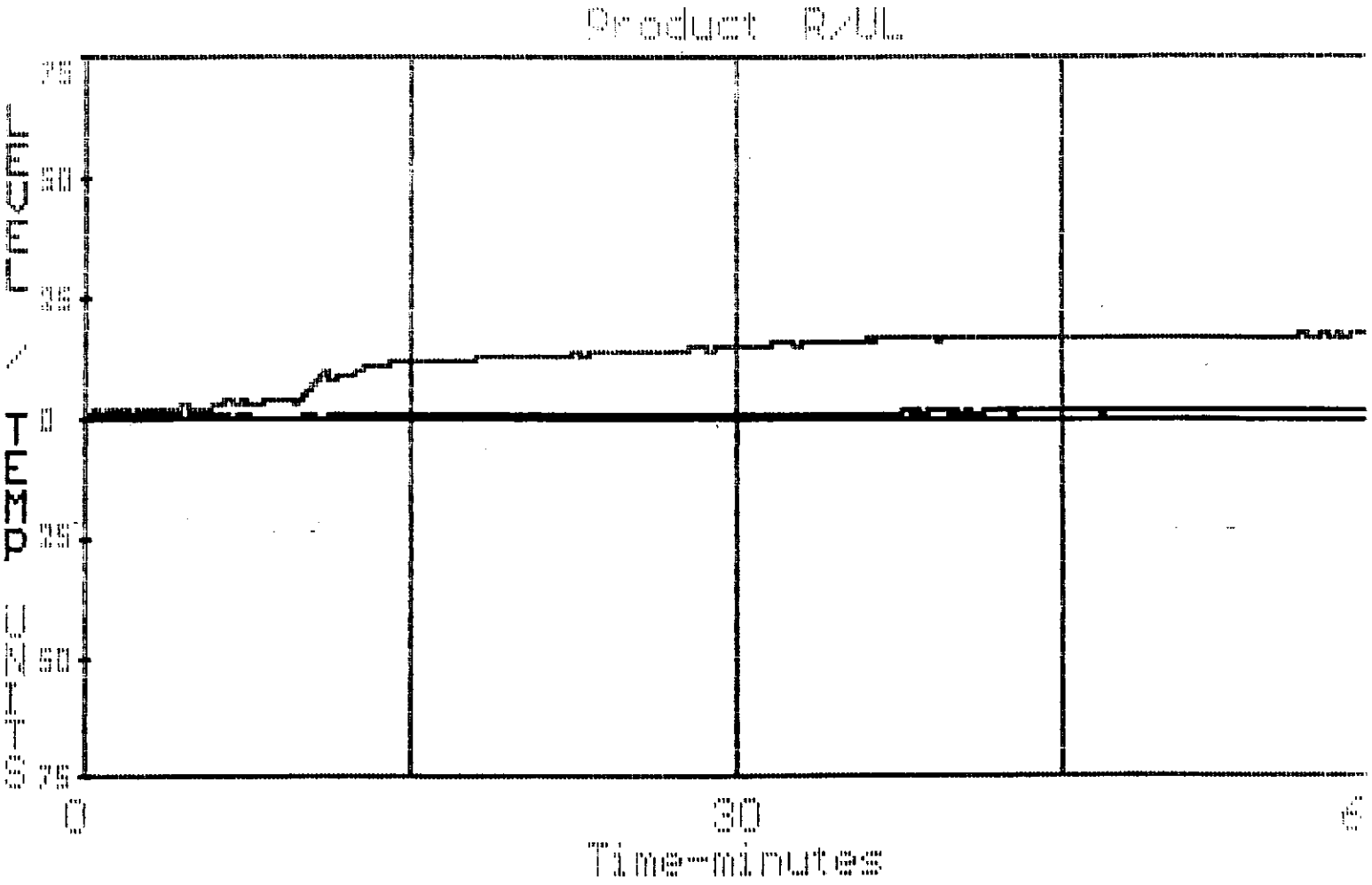


Site Layout For : UNOCAL LIVERMORE, CA.

AES/System II Precision Leak Test

P.O. Box 80427 Bakersfield, CA 93380 (805) 393-2212

Invoice No.: 14068 Date: 04/10/91 Time : 15:10:24
Technician: BWH Tank: 1 Tank Diameter(in): 90
Volume(gal): 10000 Grade Level(in): 122 Product Level(in): 135
Water Level On Tank(in): 0
Specific Gravity: 0.74 Coefficient Of Expansion: 0.0006791
Calibration Value(ml): 378 Channel: 1
Level Segment From: 185 To 300 Temp Segment From: 100 To 300



Change In Calibration Zone = 32 Calibration Unit(gal/unit) = 0.00307
Starting Temperature (F): 64.130 Head Pressure(col/in (Btm)): 99.9
Surface Area(sq. in): 71.9 Temp. Change(F/h) : 0.010

Level volume(gph): 0.08
Temp. volume(gph): 0.06 Product Line(gph): -.002
Net change(gph) : 0.02

Result --> PASS **P/L --> PASS**

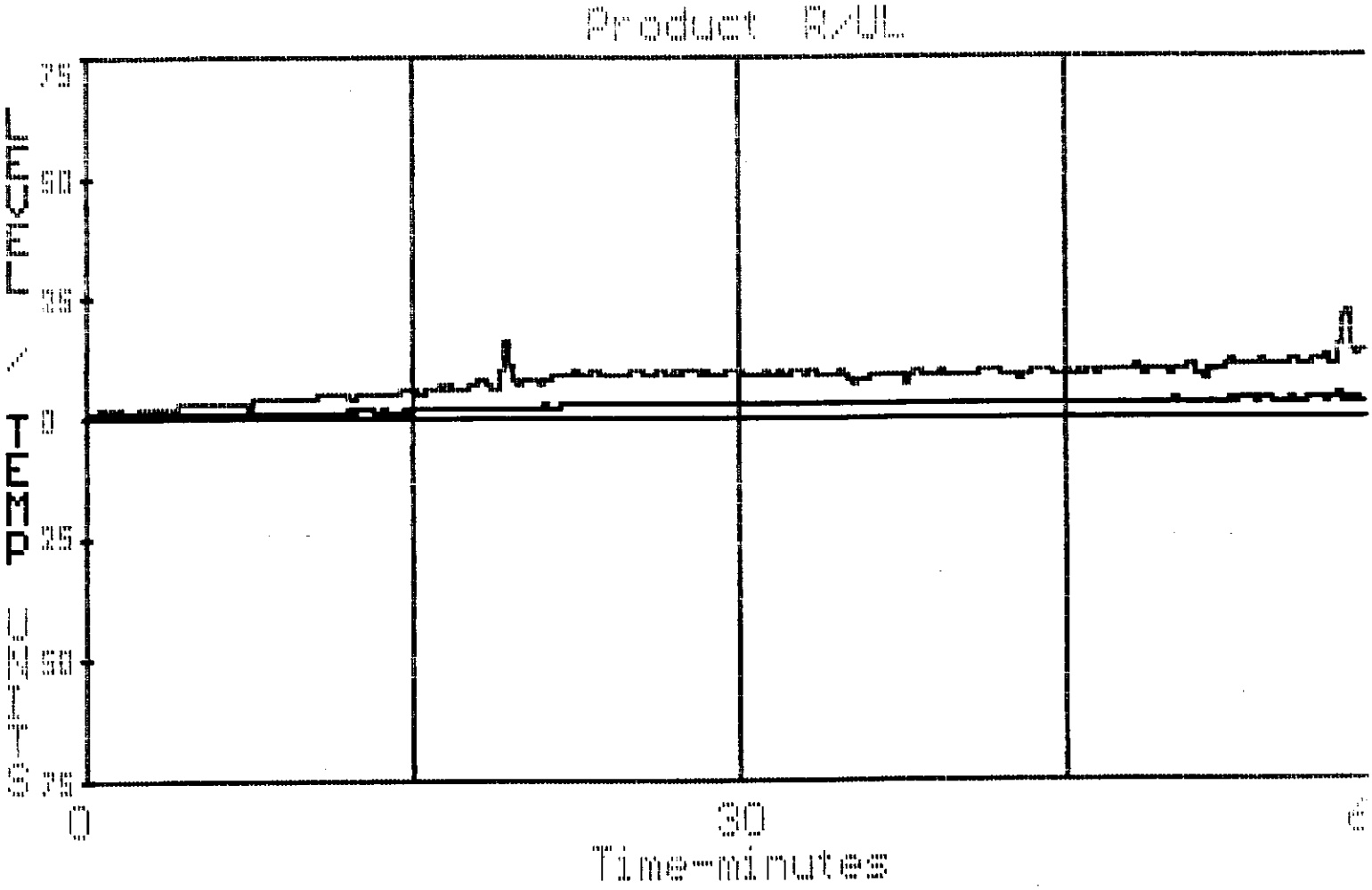
** Notes **

UNOCAL #4186 1771 FIRST ST. LIVERMORE, CA.
THIS IS A HIGH LEVEL TEST WITH A EX-CAL. 1ST HR.

AES/System II Precision Leak Test

P.O. Box 80427 Bakersfield, CA 93380 (805) 393-2212

Invoice No.: 14068A Date: 04/10/91 Time : 16:24:37
Technician: BWH Tank: 1 Tank Diameter(in): 90
Volume(gal): 10000 Grade Level(in): 122 Product Level(in): 137
Water Level On Tank(in): 0
Specific Gravity: 0.74 Coefficient Of Expansion: 0.0006791
Calibration Value(ml): 378 Channel: 1
Level Segment From: 100 To 250 Temp Segment From: 100 To 300



Change In Calibration Zone = 10 Calibration Unit(gal/unit) = 0.00983
Starting Temperature (F): 64.199 Head Pressure(col/in (Btm)): 101.4
Surface Area(sq. in): 230.1 Temp. Change(F/h) : 0.006

Level volume(gph): 0.04
Temp. volume(gph): 0.04
Net change(gph) : 0.00

Product Line(gph): -.002

Result ---> PASS **P/L ---> PASS**

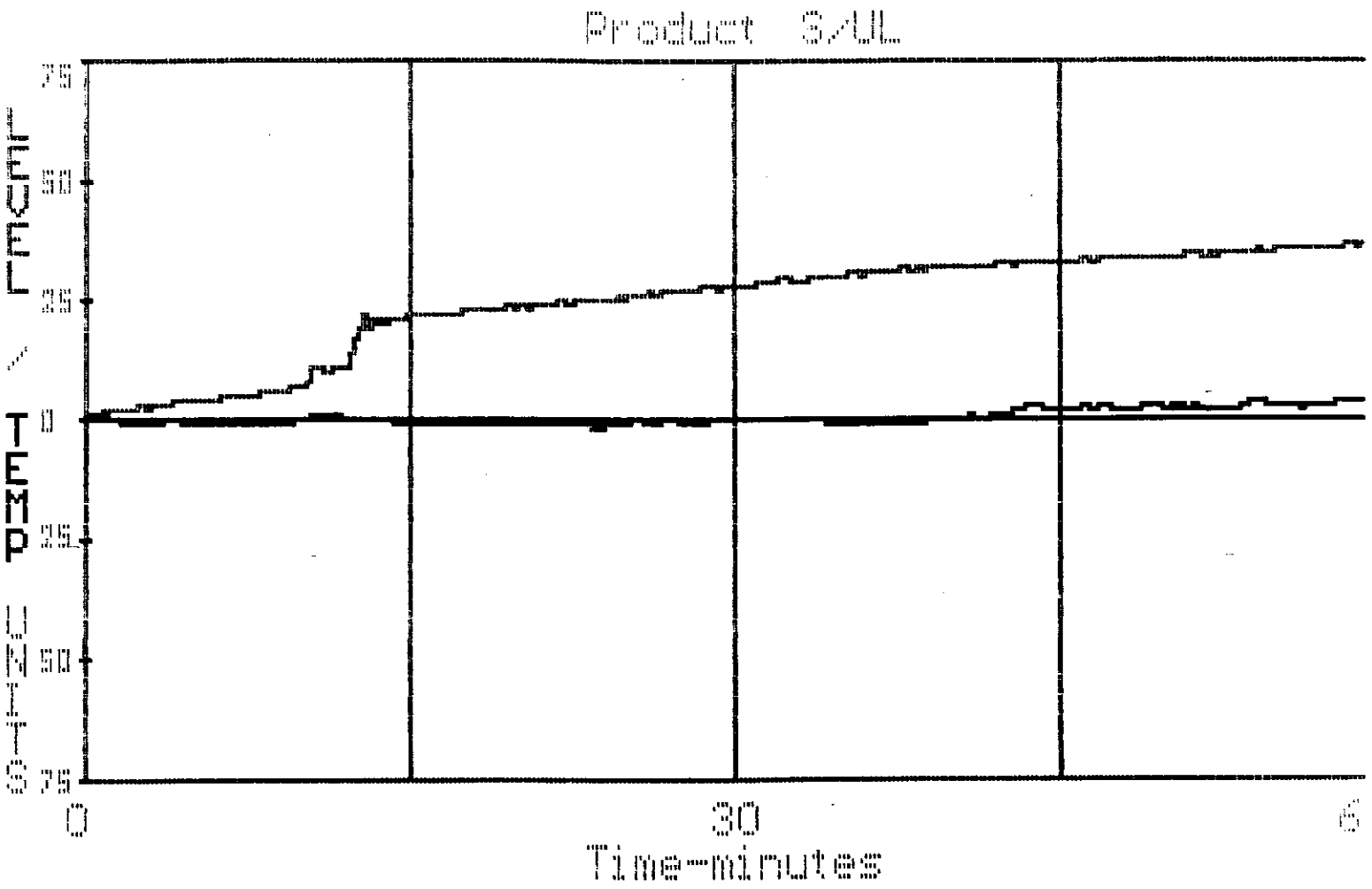
** Notes **

UNOCAL #4186 1771 FIRST ST. LIVERMORE, CA.
THIS IS A HIGH LEVEL TEST WITH A 2X-CAL. AND A 3X-CAL. 2ND HR.

AES/System II Precision Leak Test

P.O. Box 8042 Bakersfield, CA 93380 (805) 393-2212

Invoice No.: 14068 **Date:** 04/10/91 **Time :** 15:10:24
Technician: BWH **Tank:** 2 **Tank Diameter(in):** 91
Volume(gal): 10000 **Grade Level(in):** 122 **Product Level(in):** 135
Water Level On Tank(in): 0
Specific Gravity: 0.74 **Coefficient Of Expansion:** 0.0006960
Calibration Value(ml): 378 **Channel:** 2
Level Segment From: 75 To 300 **Temp Segment From:** 25 To 300



Change In Calibration Zone = 54 **Calibration Unit(gal/unit) =** 0.00182
Starting Temperature (F): 39.352 **Head Pressure(col/in (Btm)):** 99.9
Surface Area(sq. in): 42.6 **Temp. Change(F/h) :** 0.024

Level volume(gph): 0.18
Temp. volume(gph): 0.16
Net change(gph) : 0.02

Product Line(gph): -.004

Result ---> PASS **P/L ---> PASS**

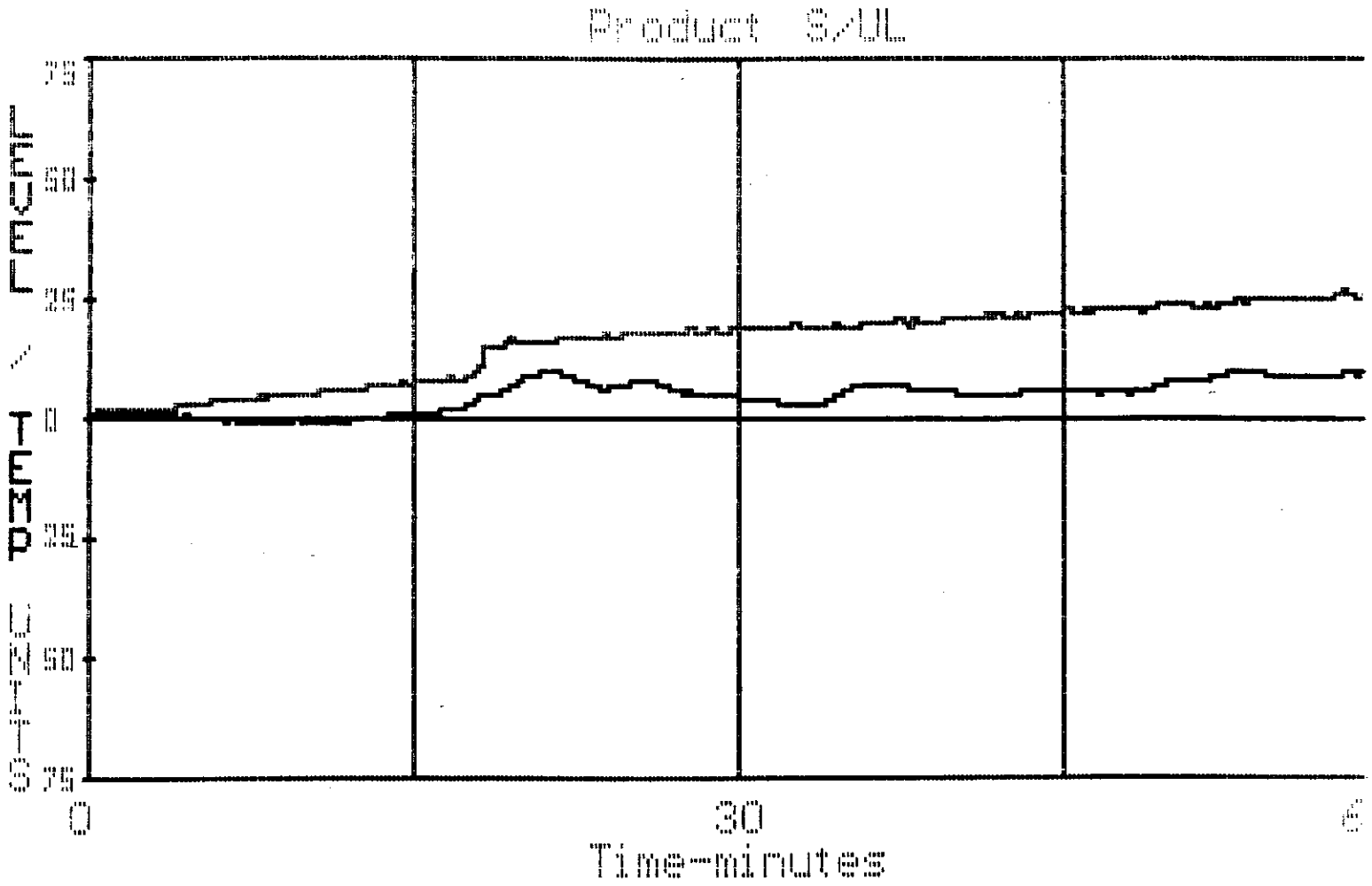
** Notes **

UNOCAL #4186 1771 FIRST ST. LIVERMORE, CA.
THIS IS A HIGH LEVEL TEST WITH 2X-CAL. 1ST HR.

AES/System II Precision Leak Test

P.O. Box 8042 Bakersfield, CA 93380 (805) 393-2212

Invoice No.: 14068A **Date:** 04/10/91 **Time :** 16:24:37
Technician: BWH **Tank:** 2 **Tank Diameter(in):** 91
Volume(gal): 10000 **Grade Level(in):** 122 **Product Level(in):** 137
Water Level On Tank(in): 0
Specific Gravity: 0.74 **Coefficient Of Expansion:** 0.0006960
Calibration Value(ml): 378 **Channel:** 2
Level Segment From: 100 To 300 **Temp Segment From:** 75 To 300



Change In Calibration Zone = 35 **Calibration Unit(gal/unit) =** 0.00281
Starting Temperature (F): 39.421 **Head Pressure(col/in (Btm)):** 101.4
Surface Area(sq. in): 65.7 **Temp. Change(F/h) :** 0.028

Level volume(gph): 0.20
Temp. volume(gph): 0.19 **Product Line(gph):** -.004
Net change(gph) : 0.01

Result ---> PASS **P/L ---> PASS**

**** Notes ****

UNOCAL #4186 1771 FIRST ST. LIVERMORE, CA.
THIS IS A HIGH LEVEL TEST WITH A 2X-CAL. 2ND HR.

Associated Environmental Systems, Inc.
P.O. Box 804[illegible]
Bakersfield, CA 93380
(805)-393-2212

Invoice Number 14068

LEAK DETECTOR TEST DATA

TEST LOCATION:
Unocal
1771 First St.
Livermore, Ca.

FACILITY # : 4186
CONTACT: [illegible] Mgr.
PHONE # : (415) 455-0121
TEST DATE: 4-10-91

PRODUCT	DOES LEAK DET EXIST	TEST #1	TEST #2	RESULTS	RESULTS P/L TEST
REG	YES ____ NO ____	SERIAL # ____ ____GAL	____GAL	PASS ____ FAIL ____	PASS ____ FAIL ____
R/UL	YES ✓ NO ____	SERIAL # Conv. Rod ___1___GAL	___3___GAL	PASS ✓ FAIL ____	PASS ✓ FAIL ____
S/UL	YES ✓ NO ____	SERIAL # 21886 9885 ___1___GAL	___3___GAL	PASS ✓ FAIL ____	PASS ✓ FAIL ____
DSL	YES ____ NO ____	SERIAL # ____ ____GAL	____GAL	PASS ____ FAIL ____	PASS ____ FAIL ____

NOTES: _____

TEST PROCEDURE

Test #1: perform for 30 seconds with nozzle in full open position
Test #2: perform for 30 seconds after nozzle closed for 10 seconds

EXAMPLE OF POSSIBLE RESULTS

Test #1	Test #2	Results	Test #1	Test #2	Results
1 Gal	3 Gal	Pass	3 Gal	3 Gal	Fail
---	---		---	---	

TECHNICIAN Bruce Hinsley DATE 4-10-91

Associated Environmental Systems, Inc.
P.O. Box 80427
Bakersfield, CA 93380
(805)-393-2212

Invoice Number 14068

AES HYDROSTATIC PRODUCT LINE TEST WORK SHEET

TEST NO.	PRODUCT	START TIME	END TIME	START VOL. (ML)	END VOL. (ML)	TEST VOL. DIFF. (ML)
1	R/UL	13:05	13:20	177	175	-.002
1	S/UL	14:10	14:25	214	210	-.004

Divide the volume differential by the test time (15 minutes) and multiply by 0.0158311, which will convert the volume differential from milliliters per minute to gallons per hour.

The conversion constant is found by :

(60 min/hr)/(3790 ml/gal) = 0.0158311 (min/hr) (gal/ml)

The conversion constant causes the milliliters and minutes to cancel out.

Ex. If the level dropped 3ml in 15 minutes then:

3/15 ml./min. X 0.0158311 (min/hr) (gal/ml) = 0.003 gal/hr.

RESULTS OF THIS WORK SHEET TO BE COMPILED ON A.E.S. RESULTS SHEET.

CHECKLIST OF SERVICES
UNOCAL NORTH

✓ Full System Tank test

✓ Close All Impact Valves

✓ AES Hydrostatic Product Line Test

✓ AES Leak Detector Test

✓ Check Drop Tubes For Striker Plates
(install a new one if necessary and
record the tank in the space below)
Invoice Customer @ $30.00 ea/Plate

[illegible] Striker
[illegible] R/UL Disconnect All V/R Lines Where Cross
Contamination Could Occur

✓ Conduct A Visual Inspection For Leaks
In Dispenser Cabinet

✓ Complete AES Results Sheets

✓ Complete Site Plot

✓ Complete Site Information Sheet Including
Coefficient of Expansion, Specific Gravity
And Temperature

A new Striker Plate Was Installed

YES	NO	
✓		U/L-87 TANK #1
		U/L-87 TANK #2
		U/L-92 TANK #1
		U/L-93 TANK #2

Complete This Checklist And Include In The Test Packet

H.S. File

Associated Environmental Systems, Inc.

P.O. Box 80427
Bakersfield, CA 9338
(805) 393-2212

PRECISION TANK & LINE TEST RESULTS

Invoice Address:

UNOCAL CORP.
P.O.BOX 8175
WALNUT CREEK,CA.94596

Tank Location:

UNOCAL SS # 4186
1771 FIRST ST.
LIVERMORE,CA.

W.O.#: 11293

I.D. Number: 4186
Technician:KEM
Tech.#:87129 Van#:6106

Date: 04-12-90 Time Start: 09:45 End: 14:30 County: AL
Facility Phone#: 415-455-0121 Groundwater Depth: 15 FT+ Blue Prints: N/A
Contact: MGR Date;Time system was filled: 04-12 08:00

Tank	Tank Capacity	Product	Tank	Product Line	Type Of Vapor Recovery	Inches of Water/Tank	Pump Type	Tank Material
1	10K	S/UL	PASS	PASS	II	0	TUR	SWF
2	10K	R/UL	PASS	PASS	II	0	TUR	SWF

Additional Information: CLEAR 70 DEGREES

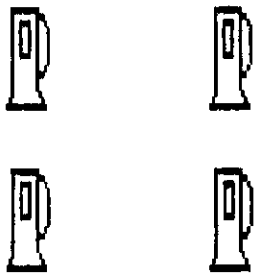
SITE LOG	TIME
Set Up Equip:	10:20
Bled Product Lines:	10:15
Bled Vapor Lines:	10:10
Bled Vent lines:	10:05
Bled Turbine:	10:00
Bled Suction Pump:	N/A
Risers Installed:	N/A

a) This system and method meets the criteria set forth in NFPA #329.
b) Any failure listed above may require further action, check with all regulatory agencies.

California O.T.T.L. Number : 91-1075
Certified Technician Signature : Date : 04-12-90

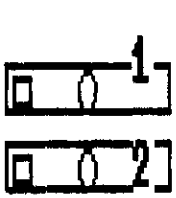
ASSOCIATED ENVIRONMENTAL SYSTEMS

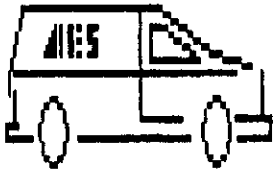
1771 FIRST STREET



UNOCAL # 4186
LIVERMORE,CA.

VENTS





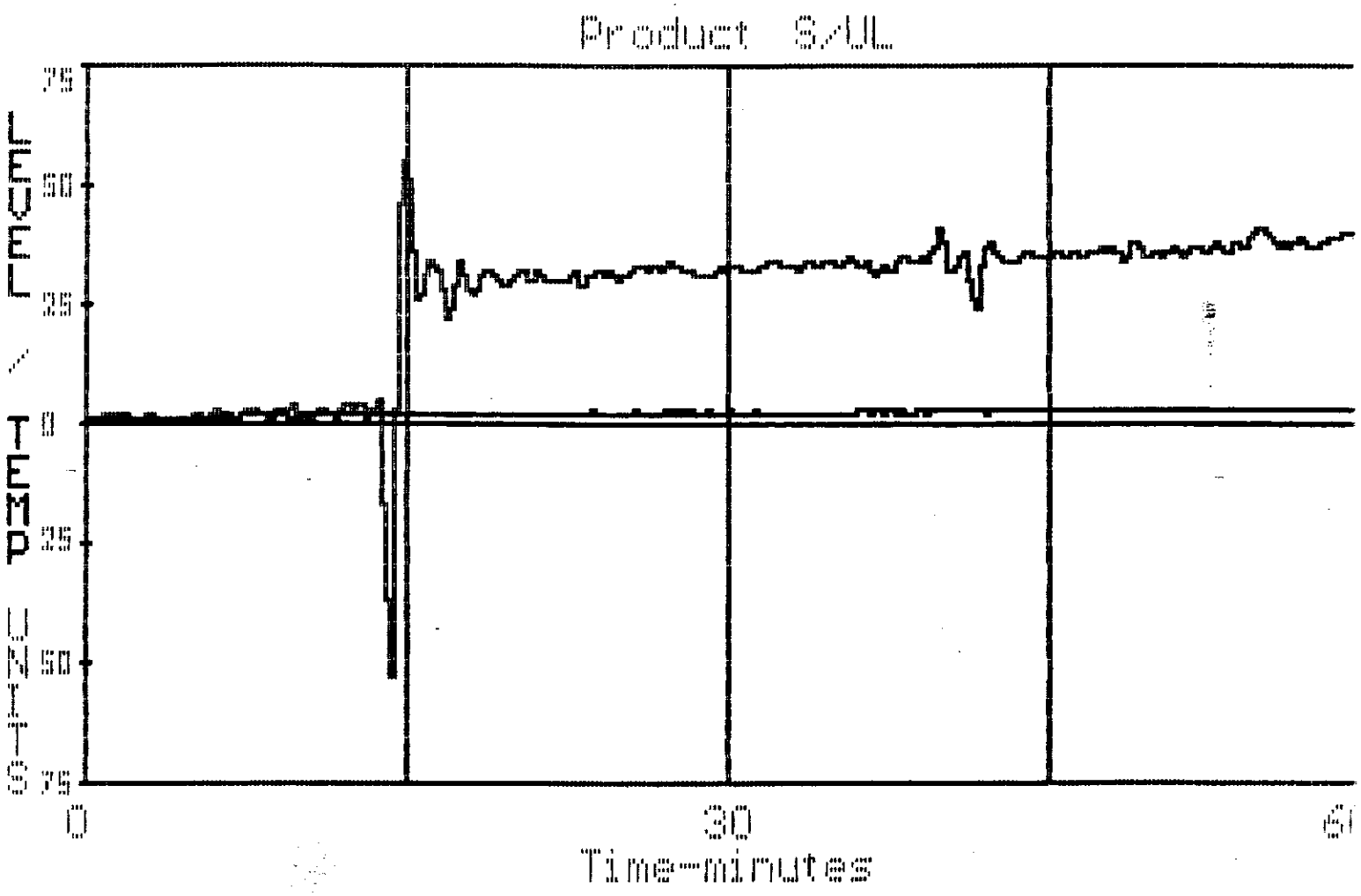
#1 10K S/UL
#2 10K R/UL

Site Layout For : 11293

AES/System II Precision Leak Test

P.O. Box 80427 Bakersfield, CA 93380 (805) 393-2212

Invoice No.: 11293a Date: 04/12/90 Time : 11:59:15
Technician: KEM Tank: 1 Tank Diameter(in): 92
Volume(gal): 9728 Grade Level(in): 132 Product Level(in): 122
Water Level On Tank(in): 0
Specific Gravity: .752 Coefficient Of Expansion: 0.0005844
Calibration Value(ml): 567 Channel: 1
Level Segment From: 100 To 300 Temp Segment From: 10 To 300



Change In Calibration Zone = 29
Starting Temperature (F): 66.529
Surface Area(sq. in): 117.1

Calibration Unit(gal/unit) = 0.00508
Head Pressure(col/in (Btm)): 91.7
Temp. Change(F/h) : 0.010

Level volume(gph): 0.06
Temp. volume(gph): 0.05
Net change(gph) : 0.01

Product Line(gph): +.000

Result --->PASS **P/L ---> PASS**

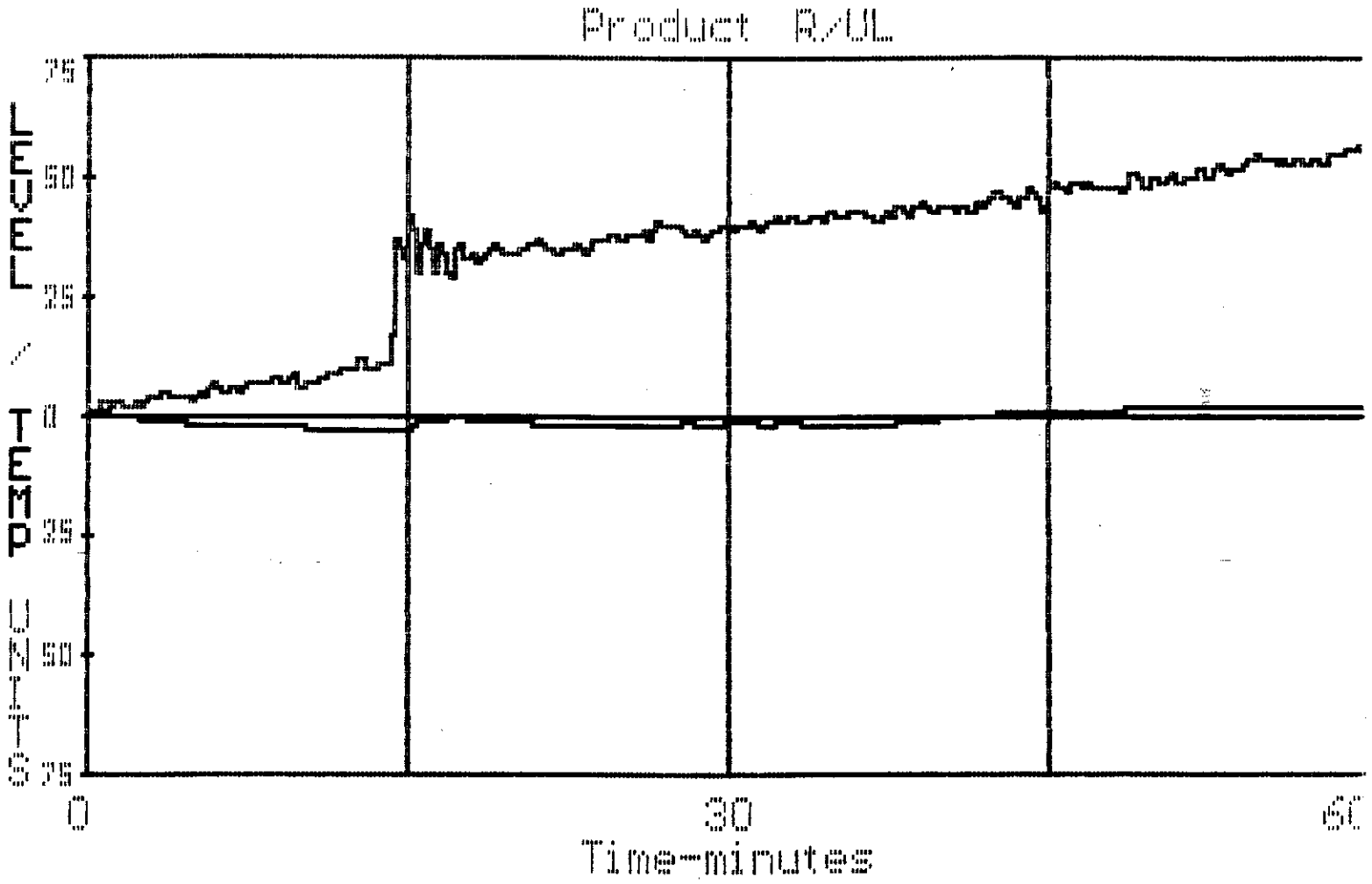
** Notes **

UNOCAL # 4186 1771 FIRST ST. LIVERMORE,CA.
HIGH LEVEL TEST CALIB. = 3X

AES/System II Precision Leak Test

P.O. Box 80427 Bakersfield, CA 93380 (805) 393-2212

Invoice No.: 11293A Date: 04/12/90 Time : 11:59:15
Technician: KEM Tank: 2 Tank Diameter(in): 92
Volume(gal): 9728 Grade Level(in): 132 Product Level(in): 122
Water Level On Tank(in): 0
Specific Gravity: .747 Coefficient Of Expansion: 0.0005944
Calibration Value(ml): 567 Channel: 2
Level Segment From: 90 To 300 Temp Segment From: 1 To 230



Change In Calibration Zone = 23 Calibration Unit(gal/unit) = 0.00641
Starting Temperature (F): 65.943 Head Pressure(col/in (Btm)): 91.1
Surface Area(sq. in): 148.7 Temp. Change(F/h) : 0.033

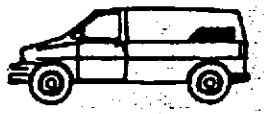
Level volume(gph): 0.19
Temp. volume(gph): 0.19
Net change(gph) : 0.00
==========

Product Line(gph): -.001

Result --->PASS **P/L ---> PASS**

** Notes **

UNOCAL # 4186 1771 FIRST ST. LIVERMORE,CA.
HIGH LEVEL TEST CALIB. = 3X
CLEAR 70 DEGREES



ASSOCIATED ENVIRONMENTAL SYSTEMS, INC.
P.O. BOX 80427
BAKERSFIELD, CA 93380
(805) 393-2212

INVOICE NUMBER 11293

AES HYDROSTATIC PRODUCT LINE TEST WORK SHEET

TEST NO.	PRODUCT	START TIME	END TIME	START VOL. (ml)	END VOL. (ml)	TEST VOL. DIFF. (ml)
1	S/A	11:35	11:50	184	90	
2	S/A	11:55	12:10	240	240	e tooo
1	R/U	13:22	1337	110	118	-2 -.001

Divide the volume differential by the test time (15 minutes) and multiple by 0.0158311, which will convert the volume differential from milliliters per minute to gallons per hour.

The conversion constant is found by:

(60 min/hr)/(3790 ml/gal) = 0.0158311(min/hr)(gal/ml)

The conversion constant causes the milliliters and minutes to cancel out.

Ex. If the level dropped 3ml in 15 minutes then:

3/15 ml./min. X 0.0158311(min/hr)(gal/ml) = 0.003 gal/hr.

RESULTS OF THIS WORK SHEET TO BE COMPLIED ON A.E.S. RESULTS

H.S. File

numer ENVIRONMENTAL SERVICES, INC.

FINAL TEST REPORT

SAN FRANCISCO, CA
(415)372-3637

Philadelphia, PA
(215) 941-9700

DATE 3-1-90

CONTACT: Tony Yap (415)945-7676

BAY SITE # 4186

LOCATION: UNOCAL SERVICE STATION
LL: 37
SP
1771 First Street
Livermore, CA

CUSTOMER: UNOCAL - R&M DIVISION
2175 N. Calif. Blvd $650
Walnut Creek, CA 94596

SYSTEM# PRODUCT	TANK SIZE GALLON	TANK SIZE DIAM. (IN.)	WATER LEVEL (IN.)	LEAK LOKATOR RESULTS* GRADE (IN.)	TEST LEVEL (IN.)	GPH	CONCLUSION PASS/FAIL		COMMENTS

ADDITIONAL COMMENTS All Leak Detectors PASS

*GRADE - INCHES FROM BOTTOM OF TANK
TEST LEVEL - INCHES FROM BOTTOM OF TANK
GPH - ABSOLUTE LEAK RATE (MEASURED LEAK RATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR
CONCLUSION IS BASED ON NFPA 329 STANDARD OF ±0.05 GPH

ADDITIONAL SERVICES

PRODUCT LINES — HYDROSTATIC PRESSURE TEST RESULTS

SYSTEM	TYPE OF PUMP		# APPLIED	MINUTES APPLIED	PRODUCT LOSS CC'S	PRODUCT LOSS GPH	CONCLUSION	COMMENTS
SUP	RR	Remote ☐ XX Submersible ☐ Suction ☐	50	15	-------	-------	PASS ☒x FAIL ☐	
U/L	RR	Remote ☒x Submersible ☐ Suction ☐	50	15	-------	-------	PASS ☒ FAIL ☐	
		Remote ☐ Submersible ☐ Suction ☐					PASS ☐ FAIL ☐	
		Remote ☐ Submersible ☐ Suction ☐					PASS ☐ FAIL ☐	

QTY	PART #	DESCRIPTION	PRICE EA.	QTY	PART #	DESCRIPTION	PRICE EA.

TECHNICAL REVIEW SGB/

HUNTER ENVIRONMENTAL SERVICES, INC.

5219 Militia Hill Road
Plymouth Meeting, PA 19462
215-941-9700
Outside PA: 800-248-6837

FINAL REPORT

TEST RESULTS

leak lokator

DATE OF TEST 3/1/90

CONTRACT NUMBER

CUSTOMER Unocal

LOCATION – IDENTIFICATION NUMBER 4186

NAME

ADDRESS 771 1st St.

CITY Livermore

STATE CA

TEST RESULTS SUMMARY

	SYSTEM	TANK SIZE		WATER INCHES	LEAK LOKATOR RESULTS*				LEAK LOKATOR USE ONLY CONCL. CODE		
	PRODUCT	GALLONS	DIA/MATL		LEVEL INCHES	ALR GPH	CONCLUSION	RECOMMENDATIONS	TEST	TANK	SYS

OTHER INFORMATION

PRODUCT LINES – HYDROSTATIC PRESSURE TEST RESULTS

SYSTEM NO.	SYSTEM PRODUCT	TYPE OF PUMP REMOTE	TYPE OF PUMP SUCTION	# APPLIED	MINUTES APPLIED	PRODUCT LOSS CC'S	PRODUCT LOSS GPH	CONCLUSION/ RESULT
1	Super Unl	red jacket	✓	50	15	Ø	Ø	P
2	Unlead	red jacket	✓	50	15	Ø	Ø	P

FINAL REPORT

LEAK DETECTOR TEST

Date: 3/1/90

S/S No.: _____ DBA: _____

Address: 1771 1st. St., Livermore, CA

Contractor: HES

Job No. 4186

Tested by - Name: Steve Parras Steve Parras
(Print) (Signature)

Product	Pumpblock	Model			Full Line Pressure (PSI)		Simulated Line Leak Test		Seals	Corrections Mac
	O - Outside M - Middle I - Inside	116-011A Old Style	116-017 New Style	116-030 P.L.D.	Open Max. 12	Close Min. 26	Pass	Fail	Leak Detector & Impact Valve (Date)	
Supreme	I			X	12	28	X			
Regular										
Unleaded	I		X		12	29	X			
Other										