



JUL 8 1991

County of Alameda  
Hazardous Materials Division  
80 Swannway, Room 200  
Oakland, California 94612

**RE: PRODUCT LINE INTEGRITY TESTING RESULTS**

Please find enclosed the product line integrity test results for the below listed Shell Oil Company service station(s) within your jurisdiction.

If you have questions concerning these test results, please contact our office.

Sincerely,

A handwritten signature in cursive script, appearing to read "L. Gordon", written in black ink.

Larry L. Gordon

LLG/lm

Enc(s)

cc: Environmental Analyst, Shell Oil Company, East Bay Retail Marketing District

230 W. MACARTHUR BLVD  
OAKLAND  
204-5508-0703



Associated Environmental Systems, Inc.

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

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**PRODUCT LINE**  
-----  
**SITE RESULTS COVER SHEET**  
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**TEST LOCATION:**

SHELL OIL CO.  
230 W. MAC ARTHUR BLVD.  
OAKLAND, CA.

I.D.# : 20455080703  
DIST/REG : EAST BAY  
ENG./CONTACT : STAN ROLLER

TEST DATE : 6/11/91  
TEST TIME : 07:00

W/O : 14440

COUNTY : AL

TECH : FRH  
# : 90187

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**CERTIFICATE**  
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ASSOCIATED ENVIRONMENTAL SYSTEMS, INC. HAS TESTED AND CERTIFIES  
THE FOLLOWING:

Certification # 9114440

**PRODUCT LINE TEST**

Tank	PRODUCT	TANK	PRODUCT LINE	IMPACT VALVES	LEAK DETECTOR
1	S/UL	DWF	PASS	PASS	PASS
2	R/UL	DWF	PASS	PASS	PASS
3	REG.	DWF	PASS	PASS	PASS
4					
5					
6					

INTERSTITIAL MONITOR:

S/UL, P/L= -.002

-O/C(WET)-

R/UL, P/L= -.004

-OPERATIONAL-

REG., P/L= -.002

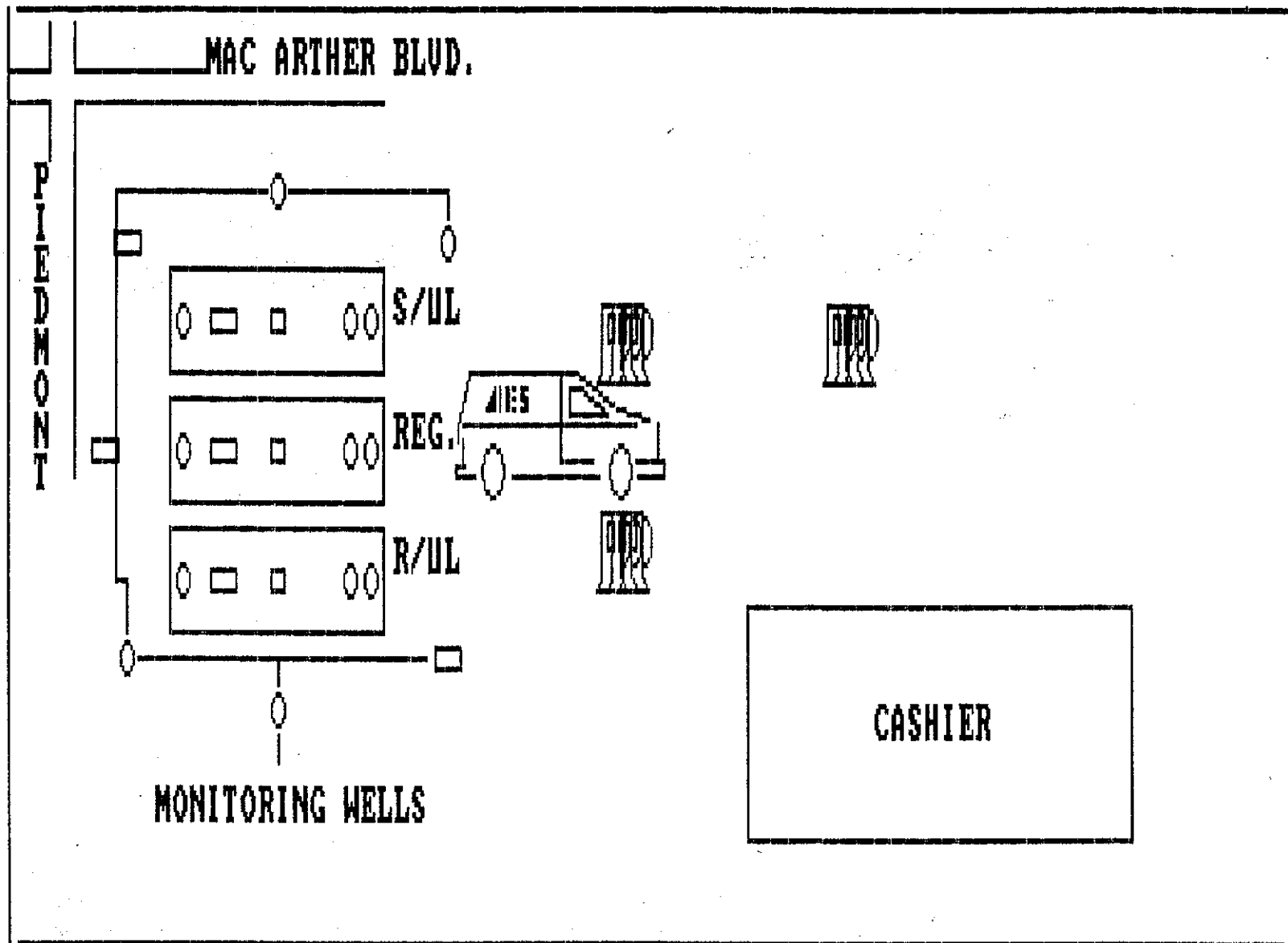
TECHNICIAN; FRED HARWOOD/DOUG YOUNG O.T.T.L.#90-1076

ANY FAILURE LISTED MAY REQUIRE NOTIFICATION OF AGENCY.

Recertification Date Recommended:

06/92

ASSOCIATED ENVIRONMENTAL SYSTEMS



Site Layout For : SHELL WIC 20455080703 , OAKLAND, CA.

BILLING ORDER

Invoice Number 14440

INVOICE ADDRESS:

Shell Oil Company  
 P.O. Box 4023  
 Concord, CA  
 94524

TANK LOCATION:

Shell Oil  
 230 W. MacArthur Blvd  
 Oakland, CA

Taken by:

Date taken:

Salesman: Terr:

Technician: FRH

County: AL

Co. Notified:

P.O. #:

Contact:

Contact:

Test Date: 06-11-91

Phone:

Phone: 415-420-5898

Test Time: 0700

EMERGENCY CONTACT:

PHONE:

HYDROSTATIC PRODUCT LINE TEST RESULT SHEET

PRODUCT	START VOLUME	END VOLUME	TEST PRESSURE	VOLUME DIFF. (GPH)	PASS/FAIL
REGULAR	222	220	45 psi	0.002	PASS
S/UL	224	222	45 psi	0.002	PASS
R/UL	218	214	45 psi	0.004	PASS
DIESEL					
OTHER					

CONFIRMATION TEST IF FIRST FAILED


TEST PRESSURE IS 50 PSI WITH LEAK DETECTOR REMOVED & IMPACT CLOSED.

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

Invoice Number 14440

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/WL	0830	0900	224	222	2
2	R/WL	1015	1045	218	214	4
3	PEG	1145	1215	222	220	2

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 :

$$(60 \text{ min/hr}) / (3790 \text{ ml/gal}) = 0.0158311 \text{ (min/hr) (gal/ml)}$$

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

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

$$3/15 \text{ ml./min.} \times 0.0158311 \text{ (min/hr) (gal/ml)} = 0.003 \text{ gal/hr.}$$

RESULTS OF THIS WORK SHEET TO BE COMPILED ON RESULTS SHEET.

IMPACT VALVE OPERATION CHECK

DATE 06-11-91 WORK ORDER 14440 TECH. FCH

STREET ADD. 230 W. MacArthur Blvd

CITY Oakland, CA

WIC # 20455080703

DISPENSER #	R/UL	S/UL	REG	IMPACT VALVE CLOSES WHEN DELATCHED MANUALLY	
				YES	NO
<u>1/2</u>	<u>X</u>	<u>X</u>	<u>X</u>	<input checked="" type="checkbox"/>	
<u>3/4</u>	<u>X</u>	<u>X</u>	<u>X</u>	<input checked="" type="checkbox"/>	
<u>5/6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<input checked="" type="checkbox"/>	

EXPLAIN ANY "NO" CHECKED

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Associated Environmental Systems, Inc.

P.O. Box 80427  
Bakersfield, CA 93380  
(805) 393-2218

# AES LEAK DETECTOR RESULTS

WO 14440

DATE: 6-11-91

SITE ADDRESS: SHELL  
230 W MACARTHUR BLVD.  
OAKLAND, CA.

WIC# 20455080703

TECHNICIAN: FRH

XX

PRODUCT TYPE REG.

TYPE OF LEAK DETECTOR TESTED (CIRCLE ONE)

DLD     PLD     XLP     OTHER \_\_\_\_\_

SERIAL NUMBER: 6164

FUNCTIONAL ELEMENT HOLDING PRESSURE 15 PSI

METERING PRESSURE 5.2 PSI

METERING TIME 4 SECONDS

INDUCED LEAK RATE OF 3 GPH @ 10 PSI USING RED JACKET FTA

LEAK DETECTOR DID RECOGNIZE 3 GPH LEAK PASS

LEAK DETECTOR DID NOT RECOGNIZE 3 GPH LEAK  FAIL

REPLACED FAILED LEAK DETECTOR? (CIRCLE ONE)  YES  NO

XX

TYPE OF NEW LEAK DETECTOR

DLD     PLD     XLP     OTHER \_\_\_\_\_

SERIAL NUMBER OF NEW LEAK DETECTOR 8362

LEAK DETECTOR DID RECOGNIZE 3 GPH LEAK  PASS

LEAK DETECTOR DID NOT RECOGNIZE 3 GPH LEAK FAIL



Associated Environmental Systems, Inc.

P.O. Box 80427  
Bakersfield, CA 93306  
(805) 393-2212

# AES LEAK DETECTOR RESULTS

W/O 14440

DATE: 6-11-91

SITE ADDRESS: SHELL  
230 W) MAC ARTHUR BLVD.  
OAKLAND, CA.

WIC# 20455080703

TECHNICIAN: FRH

XX

PRODUCT TYPE S/L

TYPE OF LEAK DETECTOR TESTED (CIRCLE ONE)

DLD     PLD     XLP     OTHER \_\_\_\_\_

SERIAL NUMBER: 2007

FUNCTIONAL ELEMENT HOLDING PRESSURE 14 PSI

METERING PRESSURE 8 PSI

METERING TIME 4 SECONDS

INDUCED LEAK RATE OF 3 GPH @ 10 PSI USING RED JACKET FTA

LEAK DETECTOR DID RECOGNIZE 3 GPH LEAK

PASS

LEAK DETECTOR DID NOT RECOGNIZE 3 GPH LEAK

FAIL

REPLACED FAILED LEAK DETECTOR? (CIRCLE ONE)    YES    NO

XX

TYPE OF NEW LEAK DETECTOR

DLD     PLD     XLP     OTHER \_\_\_\_\_

SERIAL NUMBER OF NEW LEAK DETECTOR \_\_\_\_\_

LEAK DETECTOR DID RECOGNIZE 3 GPH LEAK

PASS

LEAK DETECTOR DID NOT RECOGNIZE 3 GPH LEAK

FAIL





Associated Environmental Systems, Inc.

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Bakersfield, CA 9336  
(805) 393-2212

# AES LEAK DETECTOR RESULTS

WO 14440

DATE: 6-11-91

SITE ADDRESS: SHELL  
230 W MAC ARTHUR BLVD.  
OAKLAND, CA.

WIC# 20455080703

TECHNICIAN: FRH

XX

PRODUCT TYPE R/U

TYPE OF LEAK DETECTOR TESTED (CIRCLE ONE)

DLD     PLD     XLP     OTHER \_\_\_\_\_

SERIAL NUMBER: 6260

FUNCTIONAL ELEMENT HOLDING PRESSURE 15 PSI

METERING PRESSURE 6.5 PSI

METERING TIME 3 SECONDS

INDUCED LEAK RATE OF 3 GPH @ 10 PSI USING RED JACKET FTA

LEAK DETECTOR DID RECOGNIZE 3 GPH LEAK

PASS

LEAK DETECTOR DID NOT RECOGNIZE 3 GPH LEAK

FAIL

REPLACED FAILED LEAK DETECTOR? (CIRCLE ONE)    YES    NO

XX

TYPE OF NEW LEAK DETECTOR

DLD     PLD     XLP     OTHER \_\_\_\_\_

SERIAL NUMBER OF NEW LEAK DETECTOR \_\_\_\_\_

LEAK DETECTOR DID RECOGNIZE 3 GPH LEAK

PASS

LEAK DETECTOR DID NOT RECOGNIZE 3 GPH LEAK

FAIL

**SHELL OIL COMPANY-CERTIFICATION OF UNDERGROUND SYSTEM**

Facility WIC Number : 20455080703 District: \_\_\_\_\_

Facility Address : 230 w. MacArthur Blvd  
Oakland, CA

Purpose of Visit : Test product lines and perform int inspection

- Tank/Line Material  Steel  Fiberglass
- Product Tanks  Single Wall  Double Wall
- Product Lines  Single Wall  Double Wall
- Waste Oil Tank  Single Wall  Double Wall  None

**Product Tank Monitoring System**

- QTY TYPE
- Interstitial Monitor  Wet  Dry
- Vadose Zone Monitor
- Monitored Visually (Daily Inventory)

- Manufacturer:
- API Reservoir  API-IR(VADOSE)
- API MOS(VADOSE)  Genelco  Leakalert
- OC  Pollualert  Red Jacket
- Soil Sentry  Spearhead  Other \_\_\_\_\_

Model: \_\_\_\_\_

- Status @ Arrival:  Operational  Non-operational
- Corrective Action:  Performed  Required
- Status @ Departure:  Operational  Non-operational

**Product Line Monitoring System**

- QTY TYPE
- Electronic Line Pressure Monitor w/ Mechanical Leak Detector
- Interstitial Monitor w/ Mechanical Leak Detector
- Mechanical Leak Detector Alone

- Electronic Line Pressure or Interstitial Monitor Manufacturer:**
- API Pressure  API Sump  API Sump/Line
- Leakalert  Other \_\_\_\_\_

Model: \_\_\_\_\_

- Status @ Arrival:  Operational  Non-operational
- Corrective Action:  Performed  Required
- Status @ Departure:  Operational  Non-operational

**Product Line Monitoring System-Cont.**

**Mechanical Leak Detector Manufacturer:**

RJ Slow Flow

RJ Shut Off

Model: Reo Jacket DLD on R/WC + S/WC ; XLP on REG

Status @ Arrival:  Operational  Non-operational

Corrective Action:  Performed  Required

Status @ Departure:  Operational  Non-operational

**Waste Oil Tank Monitoring System** N/A

**TYPE**

Visually Monitored (Daily Inventory)

Site Well Vapor Probes

Interstitial Monitor  Wet  Dry

Manufacturer:  API  Other \_\_\_\_\_

Leakalert  Pollualert  OC reservoir

Model: \_\_\_\_\_

Status @ Arrival:  Operational  Non-operational

Corrective Action:  Performed  Required

Status @ Departure:  Operational  Non-operational

I do certify that the above information and operating status is representative of the actual condition of the monitoring system.

*Frank R. Hammond*

Signature

Company

Date 06-11-91