WESTERN AMERICA TANK TESTING, INC. 3131 Fairhaven Drive Bakersfield, CA 93308 (805) 322-9827

April 6, 1989

Mr. Tony Yap UNOCAL Corp. 2175 N. California Blvd., Suite 650 Walnut Creek, CA 94596

RE: Tank Testing Reports

Dear Mr. Yap:

Enclosed herewith please find the original plus one copy of the Certificate of Underground Storage Tank Integrity, Short Report Form, and General Report Form for the tanks which were tested at the following stations:

4/3/89	Station	#4186	Livermore, C.	A
4/3/89	Station	#5901	Dublin, CA	
4/4/89	Station	#0429	El Cerrito, o	CA

We have mailed for you copies of the reports to the appropriate regulatory agencies.

We again appreciate the opportunity to work with you. If you have any questions, please feel free to contact me.

Sincerely,

Frank H. Miller General Manager

FHM: caf Enclosures

WESTERN AMERICA TANK TESTING, INC.

**** CERTIFICATE OF UNDERGROUND STORAGE TANK INTEGRITY ****

PRECISION VOLUMETRIC QUANTITATIVE VOLUMETRIC LEAK TEST

WESTERN AMERICA TANK TESTING, INC. has tested the following underground storage tank systems, and certifies them tight at the product height equal to the grade level.

List of Tank Systems Tested:

TANK CONTENTS	TANK CAPACITY	TANK NUMBER	STATION NUMBER
Sup. Unleaded	10,000 gal.	Sup. Unleaded	4186
Unleaded	10,000 gal.	Unleaded	4186

TANK LOCATION:

UNOCAL CORP. 1771 First St.

Livermore, CA 94550

WESTERN AMERICA TANK TESTING, INC. is authorized to test and certify these tanks using the VPLT Tank Testing System by the manufacturer, NDE Technology, Inc.

This certification meets or exceeds certification standards set by the State of California, Federal and the Local jurisdictional agency: the County of Alameda.

WESTERN AMERICA TANK TESTING, INC. CERTIFICATION meets the requirements of California Administrative Code Title 23 Water Resources Control Board, Subchapter 16 Underground Storage Regulations, Part 2643. The leak test certifies the leak resolution of instrumentation or allowable change is no more than 0.05 gallons per hour as cited in Part 2643(b) on Page 4.14.

Date : 04/03/1989

Certification No. : 890339

Certified Tester : Stephen Frasch Recertification Date recommended: 04/03/1990

WESTERN AMERICA TANK TESTING, INC., Bakersfield, CA (805) 322-9827

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NDE'S VPLT COMPUTERIZED TANK TESTING SYSTEM Patent Pending PRECISION UNDERGROUND TANK TESTING RESULTS AND CERTIFICATION PAGE 1, SHORT REPORT FORM - Copyright 1985 NDE TECHNOLOGY, INC. PROPRIETARY

TEST DATE: 04/3/1989

1. Owner of atorage tanks UNOCAL CORP. Company Representative Tony Yap

Mailing address of owner
 Walnut Creek, CA 94596

3. Phone of owner (415) 945-7676
4. STATION NUMBER 4186
Location and address of 1771 First St.
the tanks Livermore, CA 94550
Phone number (415) 455-0121
Regulatory Agency County of Alameda

5. TANK DESIGNATION OR ID # Sup. Unleaded 6. Date each tank was tested 04/3/1989

7. The name of the test method VPLT COMPUTERIZED TANK TESTING SYSTEM

8. Business name of tank
testing company
WESTERN AMERICA TANK TESTING, INC.
9. Mailing address of tank
testing company
BAKERSFIELD, CA 93308

10. Person conducting test Stephen Frasch (TECHNICIAN)
and completing report

11. Station Operator or N/A

title

manager
12. Phone number (415) 455-0121
13. Owner name and UNOCAL CORP.

14. Capacity of the tank 10,000 gallons

15. Present or past contents Sun Unleaded

15. Present or past contents Sup. Unleaded

16. Tank construction material Steel
17. Testing fluid Sup. Unleaded

18. (a) THE UNDERGROUND STORAGE TANK SYSTEM CERTIFIED TIGHT AT PRODUCT HEIGHT EQUAL TO THE GRADE LEVEL. Yes.

(b) Allowable leak resolution of instrumentation or allowable change per California Administrative Code Title 23 Waters, Chapter 3 Water Resources Control Board Subchapter 16 Underground Storage Regulations, Part 2643 (b), Page 4.14; 0.05 gallons per hour.

*** (c) MEASURED HOURLY CHANGE: LOSS (+) OR GAIN (-) GALLONS OR NUMERICAL LEAK RATE IS: -0.036 Gal/Hr.

This measurement is within the legal limits as defined in (b).

TANK # Sup. Unleaded

PAGE 2

STAT # 4186

SHORT REPORT FORM

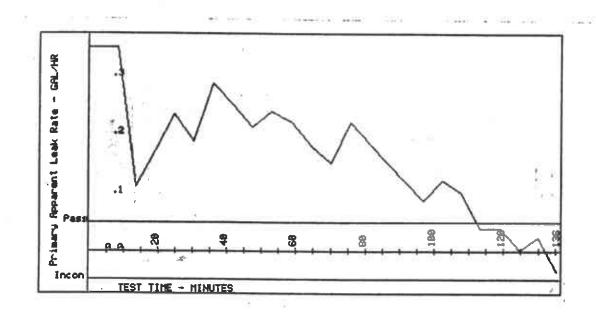
TEST DATE: 04/3/1989

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NDE TECHNOLOGY, INC. PROPRIETARY COMPUTERIZED PRINTOUT OF DIGITAL LEAKAGE RATE DATA

the same of the sa	
Tenk dunar	UNOCAL
lank Number	
Measurement \$ 22	
Date of Test 04,03/1989	
Time of measurement	13:05:53
fank femperature	62.5474 degrees F.
Tank Pressure	.4708 ps.
Basic fant Votume ********* a	
Temperature turnection ******* *	
Pressure Correction *********	.u.r dellour.
Corrected Volume **********	19015.093 Gellons.
Stratified Corrected Volume *** -	(00)5.019 Gallons.
Total Fluid Lavel	137.530:6 inches.
Fluid Pressure on fant Bottom -	3.8800 par
Fotal Temperature Change *	.11475 degrees f.
Total Level Change	2.53016 inches.
Lask Rate Galculation Time	81:85:20
Geometry Band	.0051 Gallona/Hour.
Rate of Temperature Change	.04531 degrees f. Hour.
Volume Change	.282 Gallons.
Expected Lavel Change =	1.46231 inches.
Measured Level Change ****** -	1.66442 inches.
Primary Apparent Luci ******* =	0390 Galtons.
Primary Apparent Loak Rate **** -	036 Gailons/Hour.
Stret Volume Change ******** =	.3295 Gallons.
Strat Expected Level Change *** *	1.7 0 902 inches.
Strat Apparent Leak ********* *	.0086 Gallons.
Strat Apparent Leak Rate	.000 Gailons/Hour.
Avg Measured Level Change	1.35670 inches.
Avg Volume Change	.2805 Gallons.
Avg Expected Level Change =	1.45453 inches.
Avg Apparent Leak	.0189 Gallons.
Avg Apparent Leak Rate =	.017 Gellons/Hour.
Avg Strat Volume Change ******	.3093 Gallons.
Avg Strat Expected Level Change =	1.69376 inches.
Avg Stret Apparent Leak ******	.0476 Gallona.
Avg Stret Apparent Leak Rate ** *	.043 Gallona/Hour.
Total Elapsed Tast Time	02:15:29

COMPUTERIZED PLOTS OF LEAKAGE RATE DATA



NDE'S VPLT COMPUTERIZED TANK TESTING SYSTEM Patent Pending PRECISION UNDERGROUND TANK TESTING RESULTS AND CERTIFICATION PAGE 1, GENERAL REPORT FORM - Copyright 1985 NDE TECHNOLOGY, INC. PROPRIETARY

TEST DATE:

4.

04/3/1989

1. Owner of storage tanks Company Representative Title

UNOCAL CORP. Tony Yap

Mailing address of owner

2175 N. California Blvd., Suite 650 Walnut Creek, CA

3. Phone of owner

(415) 945-76764186

STATION NUMBER Location and address of the tanks Phone number

1771 First St. Livermore, CA 94550

Regulatory Agency

(415) 455-0121 County of Alameda

TANK DESIGNATION OR ID # 5.

Sup. Unleaded 04/3/1989

Date each tank was tested 6.

VPLT COMPUTERIZED TANK TESTING SYSTEM

The name of the test method 7. Business name of tank 8.

WESTERN AMERICA TANK TESTING, INC. 3131 FAIRHAVEN DRIVE

testing company Mailing address of tank 9.

BAKERSFIELD, CA 93308

testing company

Person conducting test 10. and completing report

(TECHNICIAN) Stephen Frasch

11. Station Operator or manager

N/A

12. Phone number (415) 455-0121

Owner name and 13.

UNOCAL CORP.

title Capacity of the tank 14.

10,000

gallons

Present or past contents 15.

Sup. Unleaded

Tank construction material 16.

Steel

17. Testing fluid Sup. Unleaded

THE UNDERGROUND STORAGE TANK SYSTEM CERTIFIED TIGHT AT PRODUCT 18. (a) HEIGHT EQUAL TO THE GRADE LEVEL. Yes.

Allowable leak resolution of instrumentation or allowable change (b) per California Administrative Code Title 23 Waters, Chapter 3 Water Resources Control Board Subchapter 16 Underground Storage Regulations, Part 2643 (b), Page 4.14; 0.05 gallons per hour.

MEASURED HOURLY CHANGE: LOSS (+) OR GAIN (-) GALLONS OR (c)

NUMERICAL LEAK RATE IS: -0.036 Gal/Hr.

This measurement is within the legal limits as defined in (b).

TANK STAT	# Sup. Unleaded # 4186 GENERAL	OUND TANK TESTING RESULTS Patent Pending PAGE 2 L REPORT FORM right 1985 NDE TECHNOLOGY, INC. PROPRIETARY
1.	Capacity of the tank	10,000 Gallons
2.	Present or past contents	Sup. Unleaded
3.	Tank construction material	Steel
4.	Tank end deflection	0"
5.	Internal diameter of tank	95"
6.	Fill pipe internal diameter	4"
7.	Fill pipe length	30"
8.	Air vents	1
9.	Type of fill pipe cap	Cam
10.	Type of pumps associated with the appurtenant piping	Turbine
11.	Coefficient of thermal expansion .0005663	volumetric coefficient of expansion/deg
12.	Specific gravity	.781
13.	Bulk modulus	188,000
14.	Type of phase II vapor recovery system	OPW
15.	Depth of groundwater from grade level	BELOW BOTTOM OF TANK
16.	Date and Time storage tank system was filled for testing	04/03/89 Time Unknown

Sup. Unleaded

Used 1 bottom shield protector.

Testing fluid

NOTES:

17.

18.

Sup. Unleaded

PAGE 3

STAT # 4186

TEST PROCEDURES Copyright 1985

TEST DATE: 04/3/1989

3.

NDE TECHNOLOGY, INC. PROPRIETARY

Individual steps taken as part of the test but not limited to:

Topping of the tanks 1.

Log entries:

04/04/89

Time Unknown

Tank inclination 2. 0, 90, 180, 270 degrees

0

Pressure calibration Level readings

Temperature calibration (see reduced data plots & raw data part III) (see reduced data plots & raw data part III)

(see reduced data plots & raw data part III)

None

Other measurement or readings not included in the computer 4. printout:

None

Any special procedures other than NDE Computerized VPLT Tank 5. Testing Procedures:

None

Description of any repairs made to the storage tank prior to or 6. during the test:

None

Were tanks subject to sludge deposits during normal use properly 7. cleaned prior to testing:

Yes, to the best of our knowledge.

TANK # Sup. Unleaded PAGE 4

STAT # 4186 TEST PROCEDURES TEST DATE: 04/3/1989 Copyright 1985

NDE TECHNOLOGY, INC. PROPRIETARY

1. (a) THE UNDERGROUND STORAGE TANK SYSTEM CERTIFIED TIGHT AT PRODUCT

HEIGHT EQUAL TO THE GRADE LEVEL. Yes.

(b) Allowable leak resolution of instrumentation or allowable change per California Administrative Code Title 23 Waters, Chapter 3 Water Resources Control Board Subchapter 16 Underground Storage Regulations, Part 2643 (b), Page 4.14; 0.05 gallons per hour.

*** (c) MEASURED HOURLY CHANGE: LOSS (+) OR GAIN (-) GALLONS OR

NUMERICAL LEAK RATE IS: -0.036 Gal/Hr.

This measurement is within the legal limits as defined in (b). (See also computer plots or reduced data of leakage rate, Part III)

Product level of the storage system at the time of testing:

2. Total product level 135"

3. Fill pipe height from bottom of tank 125"

4. Test pipe height from bottom of tank 155"

5. Grade level from bottom of tank 125"

6. Tank top height from bottom of tank excluding piping, or tank diameter 95"

7. Test conduction -

total time

Time leak rate calculated 2:15 Hours
10:50

8. Start 10:50 9. End 13:05

(See also computer plots or reduced data of leakage rate, Part III)

(Calculated leak rate shall be based on data generated during the second hour of testing)

Distance from grade level and/or location at which the test was conducted (tank top level, distance below grade level, distance above grade, etc.)

10. Distance from grade level to location test conducted: +10"

- 11. Fluid level where the test was conducted. Test Stand
- 12. Boes the tank show the presence of vapor pockets?

If yes, was the owner informed of steps that must be taken to release all vapor pockets in order to complete testing?

Owners of storage tanks are under a legal obligation to report any leaking tanks to the agency having jurisdiction of the tank test.

NDE TECHNOLOGY, INC. PROPRIETARY WATT INC. 3131 FAIRHAVEN DRIVE. BAKERSFIELD, CA 93308 (805) 322-9827

TANK # Sup. Unleaded

PAGE 5

STAT # 4186

TEST PROCEDURES

TEST DATE: 04/3/1989

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Piping Pressure Test -1.

N/A

Pneumatic Pressure Data 2.

Amount of pressure applied

to system:

N/A

Amount of pressure drop if any: 3.

N/A

Amount of time elapsed during the test N/A 4.

Piping Pressure Test Leak Rate is 5.

N/A

If computer is used see computer printout of leakage rate and all test parameters on Test Results, Part IV, Page 11, 12 Test results of storage systems that utilize pressurized piping systems will not be recognized unless the turbine pump is activated after the completion of a successful system test

6. Was turbine pump activated?

N/A

Pressure piping systems shall be tested under actual operating 7. pressures, and statement describing results must be included.

See #1 Above

If applicable, has the isolation procedure in addition to the 8. N/A product line been completed?

TANK # Sup. Unleaded

PAGE 6

STAT # 4186

TEST PROCEDURES Copyright 1985

TEST DATE: 04/3/1989

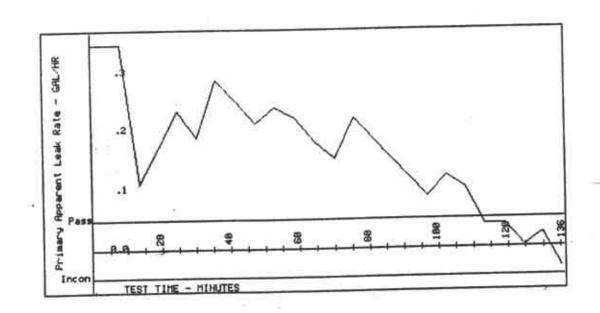
NDE TECHNOLOGY, INC. PROPRIETARY

COMPUTERIZED PRINTOUT OF DIGITAL LEAKAGE RATE DATA

```
Tank Owner ..... = UNOCAL | Ianh Number ..... = S/UNL. | Heasurement | 4 | 22
 Measurement # 22
Date of Test 04/03/1989
 Time of measurement ..... = 13:05:53
 Tank Temperature ...... 62,5474 degrees F.
 Tank Pressure ......
                            .4208 per.
 Basic Tank Volume *********
                         10000.643
                                 Gallone.
                        14.428
 Temperature Correction ......
                                 Gallons.
Pressure Correction *********
                                 Gallons.
Corrected Volume ******** = 10015.093
                                 Sallons.
Stratified Corrected Volume *** = 10015.018
                                 Gallons.
                        137.53016 inches.
 Total Fluid Lavel .....
.11475 degrees F.
Leek Rate Calculation Time.... = 01:05:20
.0006 Gallons.
Strat apparent Leaf ******** *
Strat apparent Leaf Rate ***** =
1.35670 inches.
```

Jotal Elapsed Test Time = 62:15:29

COMPUTERIZED PLOTS OF LEAKAGE RATE DATA



TANK # Sup. Unleaded

PAGE 7

STAT # 4186

TEST PROCEDURES

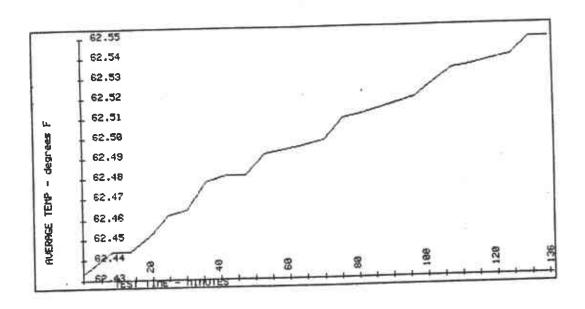
TEST DATE:

04/3/1989

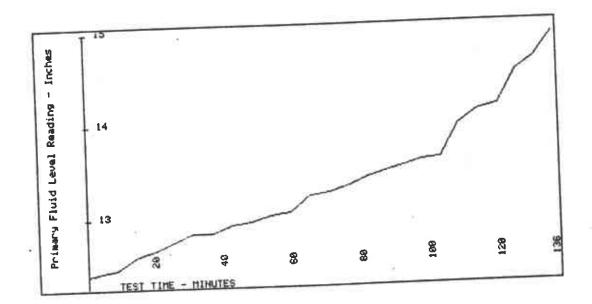
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COMPUTERIZED PRINTOUT OF AVERAGE TEMPERATURE



LEVEL DATA



TANK # Sup. Unleaded

PAGE 8

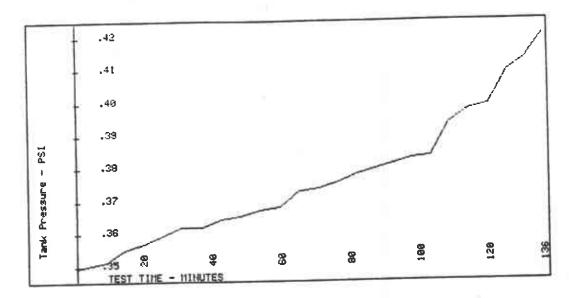
STAT # 4186

TEST PROCEDURES Copyright 1985

TEST DATE: 04/3/1989

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PRESSURE DATA



NDE'S VPLT COMPUTERIZED TANK TESTING SYSTEM Patent Pending PRECISION UNDERGROUND TANK TESTING RESULTS AND CERTIFICATION PAGE 1, SHORT REPORT FORM - Copyright 1985 NDE TECHNOLOGY, INC. PROPRIETARY

TEST DATE: 04	1	3	/	1	989	9
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UNOCAL CORP. Owner of storage tanks 1. Tony Yap Company Representative Title

2175 N. California Blvd., Suite 650 Mailing address of owner 2. Walnut Creek, CA 94596

(415) 945-7676 3. Phone of owner 4. STATION NUMBER 4186 Location and address of 1771 First St. Livermore, CA 94550 the tanks (415) 455-0121 Phone number County of Alameda Regulatory Agency

5. TANK DESIGNATION OR ID # Date each tank was tested 6.

7. The name of the test method

Business name of tank testing company

9. Mailing address of tank testing company

10. Person conducting test and completing report Unleaded 04/3/1989

VPLT COMPUTERIZED TANK TESTING SYSTEM

WESTERN AMERICA TANK TESTING, INC.

3131 FAIRHAVEN DRIVE BAKERSFIELD, CA 93308

(TECHNICIAN) Stephen Frasch

ll. Station Operator or

manager 12. Phone number

13. Owner name and title

14. Capacity of the tank

N/A

(415) 455-0121 UNOCAL CORP.

10,000

gallons

Unleaded 15. Present or past contents

16. Tank construction material

Steel Unleaded 17. Testing fluid

THE UNDERGROUND STORAGE TANK SYSTEM CERTIFIED TIGHT AT PRODUCT 18. (a) HEIGHT EQUAL TO THE GRADE LEVEL. Yes.

Allowable leak resolution of instrumentation or allowable change (b) per California Administrative Code Title 23 Waters, Chapter 3 Water Resources Control Board Subchapter 16 Underground Storage Regulations, Part 2643 (b), Page 4.14; 0.05 gallons per hour.

MEASURED HOURLY CHANGE: LOSS (+) OR GAIN (-) GALLONS OR *** (c) NUMERICAL LEAK RATE IS: -0.023 Gal/Hr.

This measurement is within the legal limits as defined in (b).

TANK # Unleaded

PAGE 2

STAT # 4186

SHORT REPORT FORM Copyright 1985

TEST DATE: 04/3/1989

Copyright 1985
NDE TECHNOLOGY, INC. PROPRIETARY

COMPUTERIZED PRINTOUT OF DIGITAL LEAKAGE RATE DATA

Tank Owner - billownL Feet Number = UNL Measurement # 20 Measurement # 20 Date of less 04,03,1989 Time of measurement = 12:15:33 Tani Temperature = 51.3900 degrees F. Tant Pressure2246 psi. Basic Tank Walume ******* 10000,543 Gallons.
Temperature correction ****** 6.8% Gallons.
Fressure Correction ******* .012 Gallons. Corrected Volume **** 10009.473 Gallons firstified Corrected Volume *** 10009.320 ballons list.70195 inches. Fixed Pressure on Fank Bottom = 3.6670 pas Gallons. ballons. 3.6870 pai .01840 degrees F. .70195 inches. Total Temperature Change * Total Level Change Lear Rate Calculation Time.... - 01:04:40 Lear Rate Calculation Fine... - #1:04:40
Geometry Band ... - #000 Gailons/Hour.
Rate of Temperature Change ... - #01293 degrees findour.

Column Change ... - #030 Gailons.

Expected Level Change ... - #16437 Inches.

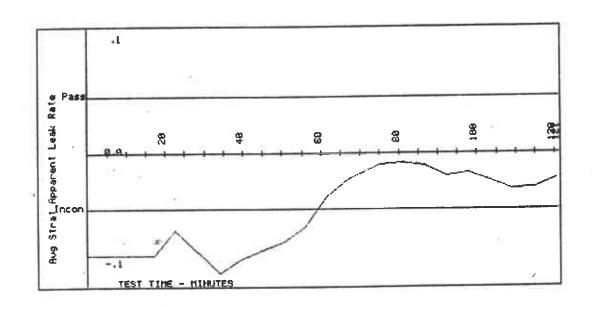
Ressured Level Change ... - #16437 Inches.

Inches ... - #16437 Inches ... - #16437 Inches.

Inches ... - #16437 Inches ... - #164 Strat Apparent Leak ******** = -,0089 Gallons. -.008 Gallons/Hour. Strat Apparent Lear Rate ***** * .61051 inches. .0905 Gallons. Avg Heasured Level Change = fivg Volume Change46948 inches. nvg Expected Level Change * Avg Appected Level Change = -.0272 Sallons.
Avg Apparent Leak Rate = -.025 Sallons/Hour.
Avg Strat Volume Change = .48182 Inches.
Avg Strat Apparent Leak = -.0248 Sallons.
Avg Strat hyparent Leak Rate = -.023 Sallons/Hour.

Total Elapsed Test Time = 02:00:36

COMPUTERIZED PLOTS OF LEAKAGE HATE DATA



NDE'S VPLT COMPUTERIZED TANK TESTING SYSTEM Patent Pending PRECISION UNDERGROUND TANK TESTING RESULTS AND CERTIFICATION PAGE 1, GENERAL REPORT FORM - Copyright 1985 NDE TECHNOLOGY, INC. PROPRIETARY

TEST DATE:	04/3/1989
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1.	Owner of storage tanks	UNOCAL CORP.
	Company Representative	Tony Yap
	Title	

Mailing address of owner
 Malnut Creek, CA 94596
 Phone of owner
 945-7676

4. STATION NUMBER
Location and address of 1771 First St.
the tanks
Livermore, CA 94550
Phone number (415) 455-0121
Regulatory Agency
County of Alameda

5. TANK DESIGNATION OR ID # Unleaded
 6. Date each tank was tested 04/3/1989

7. The name of the test method VPLT COMPUTERIZED TANK TESTING SYSTEM

8. Business name of tank
testing company WESTERN AMERICA TANK TESTING, INC.
9. Mailing address of tank
testing company BAKERSFIELD, CA 93308

10. Person conducting test Stephen Frasch (TECHNICIAN)
and completing report

11. Station Operator or N/A manager
12. Phone number (415) 455-0121

13. Owner name and UNOCAL CORP. title

14. Capacity of the tank 10,000 gallons

15. Present or past contents Unleaded

16. Tank construction material Steel

17. Testing fluid Unleaded

- 18. (a) THE UNDERGROUND STORAGE TANK SYSTEM CERTIFIED TIGHT AT PRODUCT HEIGHT EQUAL TO THE GRADE LEVEL. Yes.
 - (b) Allowable leak resolution of instrumentation or allowable change per California Administrative Code Title 23 Waters, Chapter 3 Water Resources Control Board Subchapter 16 Underground Storage Regulations, Part 2643 (b), Page 4.14; 0.05 gallons per hour.
- *** (c) MEASURED HOURLY CHANGE: LOSS (+) OR GAIN (-) GALLONS OR NUMERICAL LEAK RATE IS: -0.023 Gal/Hr.

This measurement is within the legal limits as defined in (b).

CAPACITY 10,000 gPRECISION UNDERGROUND TANK TESTING RESULTS Patent Pending Unleaded PAGE 2 TANK # STAT # GENERAL REPORT FORM 4186 TEST DATE: 04/3/1989 Copyright 1985 NDE TECHNOLOGY, INC. PROPRIETARY Capacity of the tank 1. 10,000 Gallons 2. Present or past contents Unleaded 3. Tank construction material Steel 0" Tank end deflection 4. 5. Internal diameter of tank 95" Fill pipe internal diameter 6. 30" 7. Fill pipe length 1 8. Air vents 9. Type of fill pipe cap Cam 10. Type of pumps associated with the appurtenant piping Turbine 11. Coefficient of thermal volumetric coefficient of expansion/deg expansion .0006340 12. Specific gravity .752 13. Bulk modulus 188,000 14. Type of phase II vapor OPW recovery system

15. Depth of groundwater from grade level

BELOW BOTTOM OF TANK

16. Date and Time storage tank system was filled for testing

04/03/89 Time Unknown

17. Testing fluid

Unleaded

18. NOTES:

Used 1 bottom shield protector.

Unleaded TANK #

PAGE 3

4186 STAT #

TEST PROCEDURES

TEST DATE: 04/3/1989

Copyright 1985

NDE TECHNOLOGY, INC. PROPRIETARY Individual steps taken as part of the test but not limited to:

1. Topping of the tanks 04/04/89

Time Unknown

2. Tank inclination

0, 90, 180, 270 degrees

Pressure calibration

Temperature calibration (see reduced data plots & raw data part III)

(see reduced data plots & raw data part III)

Level readings

(see reduced data plots & raw data part III)

3. Log entries: None

Other measurement or readings not included in the computer 4. printout:

None

Any special procedures other than NDE Computerized VPLT Tank 5. - Testing Procedures:

None

Description of any repairs made to the storage tank prior to or 6. during the test:

None

Were tanks subject to sludge deposits during normal use properly 7. cleaned prior to testing:

Yes, to the best of our knowledge.

Unleaded TANK #

PAGE 4

4186 STAT #

TEST PROCEDURES

TEST DATE: 04/3/1989

Copyright 1985

NDE TECHNOLOGY, INC. PROPRIETARY THE UNDERGROUND STORAGE TANK SYSTEM CERTIFIED TIGHT AT PRODUCT 1. (a) HEIGHT EQUAL TO THE GRADE LEVEL. Yes.

Allowable leak resolution of instrumentation or allowable change (b) per California Administrative Code Title 23 Waters, Chapter 3 Water Resources Control Board Subchapter 16 Underground Storage Regulations, Part 2643 (b), Page 4.14; 0.05 gallons per hour.

MEASURED HOURLY CHANGE: LOSS (+) OR GAIN (-) GALLONS OR *** (c) NUMERICAL LEAK RATE IS: -0.023 Gal/Hr.

This measurement is within the legal limits as defined in (b). (See also computer plots or reduced data of leakage rate, Part III)

Product level of the storage system at the time of testing:

135" 2. Total product level

Fill pipe height 3.

125" from bottom of tank

Test pipe height

from bottom of tank 155"

Grade level 5.

125" from bottom of tank

Tank top height from bottom of tank 6.

95" excluding piping, or tank diameter

7. Test conduction -

total time

2:01 Hours Time leak rate calculated

10:14 Start 8.

12:15 9. End

(See also computer plots or reduced data of leakage rate, Part III)

(Calculated leak rate shall be based on data generated during the second hour of testing)

Distance from grade level and/or location at which the test was conducted (tank top level, distance below grade level, distance above grade, etc.)

- Distance from grade level to location 10. test conducted: +10"
- Fluid level where the test was conducted. Test Stand 11.
- Does the tank show the presence of vapor pockets? 12. No

If yes, was the owner informed of steps that must be taken to release all vapor pockets in order to complete testing?

Owners of storage tanks are under a legal obligation to report any leaking tanks to the agency having jurisdiction of the tank test.

TANK # Unleaded

PAGE 5

STAT # 4186

TEST DATE:

04/3/1989

TEST PROCEDURES Copyright 1985

NDE TECHNOLOGY, INC. PROPRIETARY

1. Piping Pressure Test -

N/A

2. Pneumatic Pressure Data

Amount of pressure applied

to system:

N/A

3. Amount of pressure drop if any:

N/A

4. Amount of time elapsed during the test N/A

5. Piping Pressure Test Leak Rate is

N/A

If computer is used see computer printout of leakage rate and all test parameters on Test Results, Part IV, Page 11, 12
Test results of storage systems that utilize pressurized piping systems will not be recognized unless the turbine pump is activated after the completion of a successful system test

6. Was turbine pump activated?

N/A

 Pressure piping systems shall be tested under actual operating pressures, and statement describing results must be included.

See #1 Above

8. If applicable, has the isolation procedure in addition to the product line been completed? N/A

TANK # Unleaded

PAGE 6

STAT # 4186

TEST PROCEDURES

TEST DATE: 04/3/1989

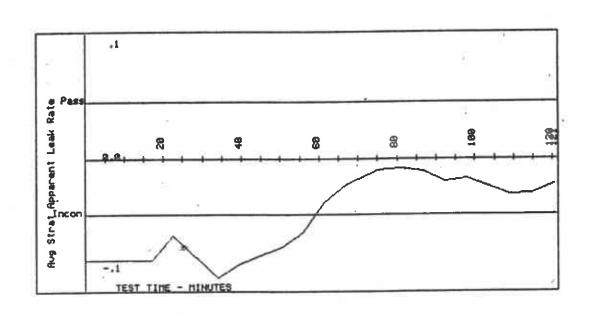
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NDE TECHNOLOGY, INC. PROPRIETARY COMPUTERIZED PRINTOUT OF DIGITAL LEAKAGE RATE DATA

Tank Ouner - UNUCAL Tank Number - UNL. Tank number : 20 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | fine of measurement = 12:15:33 Tank Pressure2245 psi. 10000.643 Basic Tank Volume ********* = Gallons. 8.819 Temperature Correction ******* = Gallons. Pressure Correction .012 Corrected Volume ******* = 19099.473 Gallons. Stratified Corrected Volume *** = 10009.320 Gallons. 135.70195 inches. fotal Fluid Level = Fluid Pressure on Tank Bottom -3.6870 par Total Temperature Change = .01940 degraes f. Total Level Change ,70195 inches. Leak Rate Calculation (ime.... = 01:04:40 Strat Expected Level Change *** = .49622 inches. -.8089 Gallons. Strat Apparent Leek ******** -.000 Gellons/ .6:051 inches. .0905 Gallons. .46948 inches. Strat Apparent Leak Rate ***** -6allons/Hour. Avg Strat Apparent Leak ****** = -.0248 Gallons. ~.023 Gallons/Hour. Avg Strat Apparent Leak Rate ** =

Total Elapsed Test Time = 02:00:36

COMPUTERIZED PLOTS OF LEAKAGE RATE DATA



rounnet

TANK # Unleaded

PAGE 7

STAT # 4186

TEST PROCEDURES

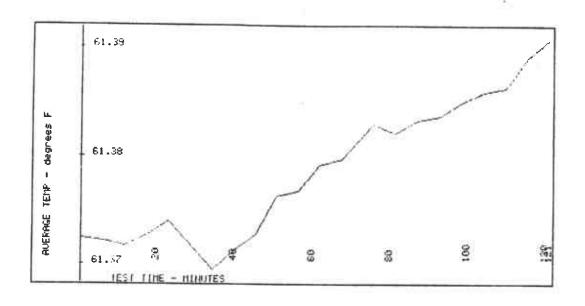
TEST DATE:

04/3/1989

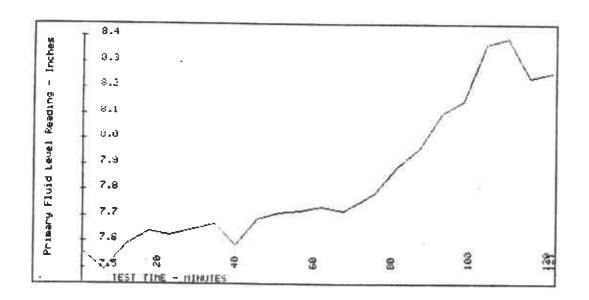
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NDE TECHNOLOGY, INC. PROPRIETARY

COMPUTERIZED PRINTOUT OF AVERAGE TEMPERATURE



LEVEL DATA



TANK # Unleaded

PAGE 8

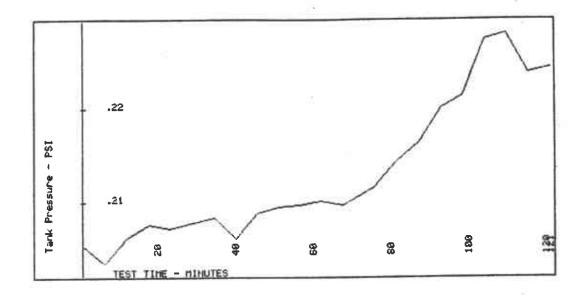
STAT # 4186

TEST PROCEDURES Copyright 1985

TEST DATE: 04/3/1989

NDE TECHNOLOGY, INC. PROPRIETARY

PRESSURE DATA



CERTIFICATE OF PRECISION LEAK TEST

Certification # 886416

Associated Environmental Systems, Inc. has tested and certifies the following:

LOCATION: UI	nocal #4	4186 1771	First Stree	et,Livermore, CA
'ANKS:	TANK	LINE	PROD/LINE	
. 10K U/L	PASS	PASS	PASS	
10K S/UL	PASS	PASS	PASS	ANY FAILURE LISTED MAY REQUIRE
XXXXXX	XXXX	XXXX	XXXX	NOTIFICATION OF AGENCY.
. xxxxxx	xxxx	XXXX	_XXXX_	
. xxxxxx	xxxx	XXXX	XXXX	Beautification Data Basemenandada
. xxxxxx	XXXX	XXXX	XXXX	Recertification Date Recommended:
16.5				04/89

Associated Environmental Systems, Inc.



Associated Environmental Systems, Inc.

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

PRECISION TANK & LINE TEST RESULTS

Invoice Address:

Tank Location:

W.D.#: 6416

UNOCAL CORP P 0 BOX 8175

WALNUT CREEK, CA94596

UNOCAL #4186 1771 FIRST ST. LIVERMORE, CA

I.D. Number: 6416 Technician:SHELDON

Tech.#:87130 Van#:6104

Date: 4-25-88

Time Start: 11:45 End: 15:00

County: AL

Facility Phone#: 415-455-0121 Groundwater Depth: 25+ Blue Prints: N/A

Contact: GARY MCELROY

Date: Time system was filled: 4-25-88 AM

Tank	Tank Capacity	Product	Tank	Fill/Vent Vapor Lines	Product Line	Type Of Vapor Recovery	Inches of Water/Tank	Pump Type	Tank Material
1 2 3 4 5	10K 10K	U/L S/UL	PASS PASS	PASS PASS	PASS PASS	II	o 0	TURB	STEEL STEEL

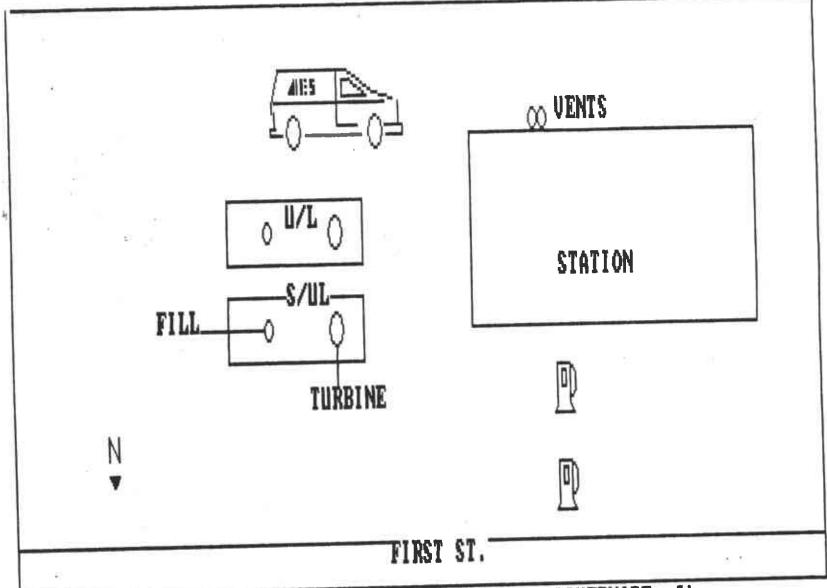
Additional Information: THESE TANKS HAVE COAXIAL DROP TUBES. THE TURBINES WERE VENTED PRIOR TO TESTING.

SITE LOG	TIME
Set Up Equip:	11:50
Bled Product Lines:	N/A
Bled Vapor Lines:	11:55
Bled Vent lines:	N/A
Bled Turbine:	11:45
Bled Suction Pump:	N/A
Risers Installed:	N/A

- a) These results obtained using the patented A.E.S./Brockman system.
- b) This system and method meets the criteria set forth in NFPA #329.
- c) Any failure listed above may require further action, check with all regulatory agencies.

Date : 4-25-88

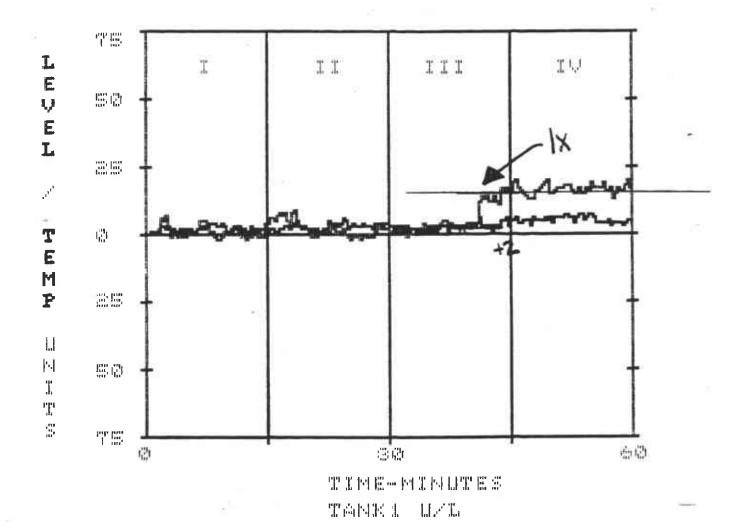
ASSOCIATED ENVIRONMENTAL SYSTEMS



Site Layout For: UNOCAL #4186 1771 FIRST ST. LIVERMORE, CA

AES/Brockman Precision Leak Test

1	Technician SHELDON	1	Calibration Value 2 UNITS = .05 Gal.]
-	Date 4/25/88	1	System Variation : UNITS : GPH	Ditte:
I	Time Started 13:01	1	HIGH LEVEL (FULL SYSTEM) 1+2.8 1+.011	1
1	Gallons 10K	1	LOW LEVEL() MID LEVEL(): :	!
1	Tank Diameter 92"	ı	PRODUCT LINE	Ī
I	Ground Water 25+"	1	TEST IS PASSED () FAILED () INCONCLUSIVE	1
ī	TEST CONDUCTED AT /20 INCHES	E	GRADE LEVEL AT 120 INCHES	1



FOCUS 1.00 L/ 1.00 T

ORDER NO. 6416

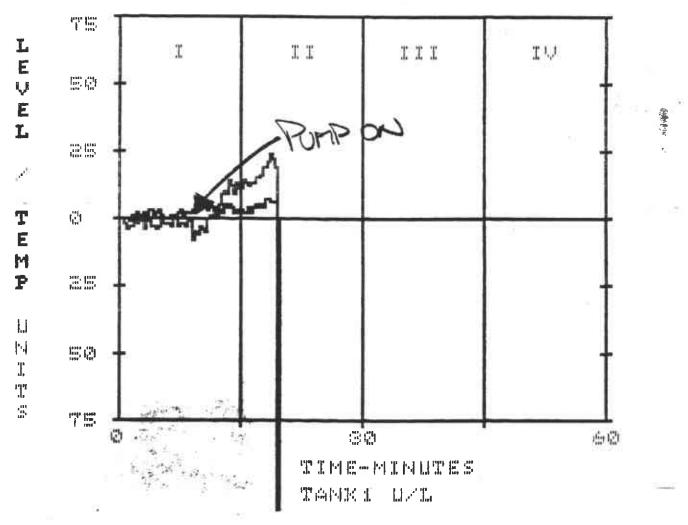
** Notes

UNBEAL #4186.

THIS IS A HIGH LEVEL TEST VAPOR RECOVERY INCLUDED. CALIBRATION = 1X.

AES/Brockman Precision Leak Test

1	Technician SHELDON	1	Calibration Value	UNITS =	Gal.	1
1	Date 4/25/88	-1	System Variation	: UNITS	GPH	1
1	Time Started 13:57	I	HIGH LEVEL (FULL SY	STEM) :	1	1
l	Gallons 10K	1	LOW LEVEL() MID LE	VEL()	1	1
!	Tank Diameter 92"	1	PRODUCT LINE	No Loss	1	7
1	Ground Water 25+'	;	TEST IS PASSED ()	FAILED () INCO	NCLUSIVE	. :
ŀ	TEST CONDUCTED AT INCHES	!	GRADE LEVEL AT	INCHES		1



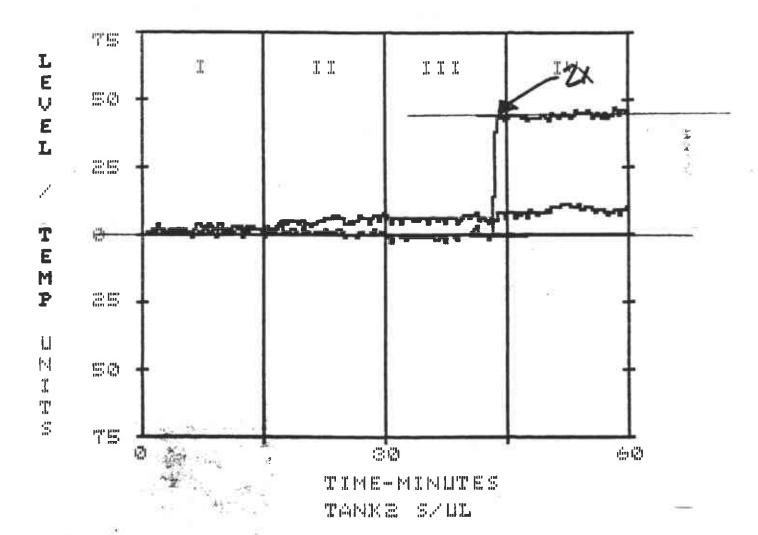
FOCUS 1.00 L/ 1.00 T

ORDER NO.6416A

** Notes UNOCAL #4186. PUMP TEST.

"AES/Brockman Precision Leak Test

	Technician SHELDON	1	Calibration Value 22 UNITS = .05 Gal.	1
1	Date 4/25/88	1	System Variation : UNITS : GPH	1
I	Time Started 13:01	1	HIGH LEVEL (FULL SYSTEM) .:	1
1	Gallons 10K	1	LOW LEVEL() MID LEVEL() !	1
1	Tank Diameter 92"	1	PRODUCT LINE	1
1	Ground Water 25+'	1	TEST IS PASSED () FAILED () INCONCLUSIVE	1
ŀ	TEST CONDUCTED AT 120 INCHES	1	GRADE LEVEL AT /2(p INCHES	



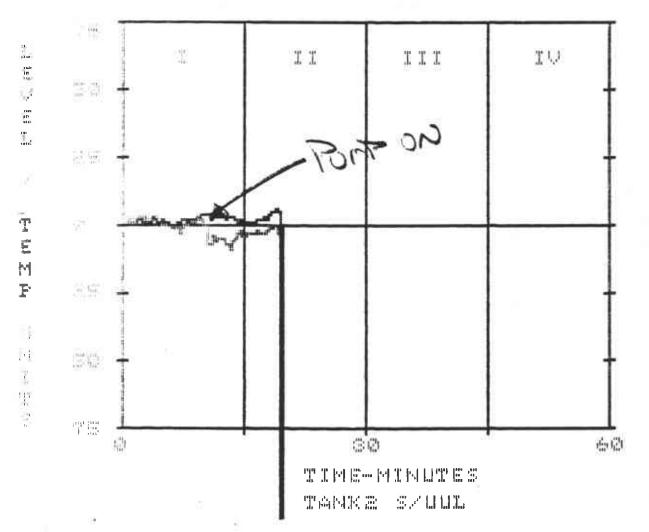
FOCUS 1.00 L/ 1.00 T

ORDER NO. 6416

** Notes
UUNDCAL #4186.
THIS IS A HIGH LEVEL TEST VAPOR RECOVERY INCLUDED.
CALIBRATION = 2X.

AES/Brockman Frecision Leak Test

;	Technician SHELDON	-	Calibration Value UNITS =	Gal.
1	Date 4/25/88	1	System Variation : UNIT	S GPH
1	Time Started 13:57		HIGH LEVEL (FULL SYSTEM) .:	1 :
1	Gallons 10K	1	LOW LEVEL() MID LEVEL()!	1
1	Tank Diameter 92"		PRODUCT LINE NO LOSS	1
1	Ground Water 25+′	1	TEST IS PASSED () FAILED () IN	CONCLUSIVE :
į	TEST CONDUCTED AT INCHES		GRADE LEVEL AT INCHES	



FOCUS 1.88 L/ 1.00 T

ORDER NO. 6416A

** Notes UNOCAL #4186. PUMP TEST. p. yananoto

HUNTER ENVIRONMENTAL SERVICES, INC. 15405 REDHILL AVENUE, SUITE C TUSTIN, CA 92680 800-247-9014 800-247-2186

FINAL TEST RESULTS
TEST DATE: 8-17-87

CUSTOMER:

UNOCAL

ADDRESS: 177

1777 First Street

Livermore, CA

LOCATION/IDENTIFICATION NO.: 4186

TEST RESULTS SUMMARY

					LEAK LOKATOR RESULTS						
	SYSTEM	TANK	SIZE	WATER	LEVEL	ALR					
NO.	PRODUCT	GALLONS	DIA/MATL	INCHES	INCHES	GPH	CONCLUSION	RECOMMENDATIONS			
1	Super U/L	10000	92 "	0	165	029	Tight				
2	U/L	10000	92"	0	160	034	Tight				
3	Waste Oil	550	45°	0							

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	SYSTEM PRODUCT	TYPE OF PUMP REMOTE SUCTION	POUNDS APPLIED	POUNDS HELD	MINUTES HELD	PRODUCT	PRODUCT LOSS GPH	CONCLUSION /RESULT
1	Super U/L	Red Jacket	50	50	10			Tight
2	U/L	Red Jacket	50	50	10			Tight

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

DETAIL OF TEST RESULTS

			TEST	u TI	ME	LEAK	RATE	TEMPERA	TURE	ABSOLU	TE	CHECK
	SYSTEM	TEST	LEVEL	CLOCK	DURATION			COMPENS	ATION	LEAK R	ATE	TEST
NO.	PRODUCT	NO.	(1N+)	STATE	(HR-MIN)	CC/D1V	CC/MIN	DELTA OF	CC/MIN	CC/MIN	GPA	Y/N
1	Super U/L	1	165	11:30	0-32	+1+315	+28.590	++071	+30-456	-1.866	029	N
2	U/L	1	160	10:30	0-34	+1.562	+30+281	++078	+32-475	-2-194	034	N
3	Waste 01											

*LEVEL

ALR - Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour

CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFICATION

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

Tests Conducted and Certified By: Test Yan No. 21

Team Manager: P. Wheeler

Tank Testing Specialist: S. Anderson

⁻ Inches from Tank Bottom to Test Level



ENVIRONMENTAL SERVICES, IN

115 DEWALT AVENUE, N.W. SUITE 400 CANTON, OH 44702 216-453-1800 800-523-4370

TEST BESULTS

leak	lokator
ann a	

DATE OF TEST
8-17-87
CONTRACT NUMBER

216-4	53-1800 800	-523-4370			n E	SULIS						
CUS	TOMER	4/6										
LOC	418	FIFICATION NU	MBER			NAME						
ADD	7777	FIRS.	T , S.	7		LIV	EKMOK	3E	CA			
					TEST RESU					LEAK	LOKAT	OR US
	SYSTEM	TANK	SIZE	WATER	LEAK	LOKATOR R	ESULTS*			_	NCL. CO	
	PRODUCT	GALLONS	DIA/MATL	WATER	LEVEL	ALR	CONCLUSION	RECOMMENDA	ATIONS	_	TANK	
1	HYL	10,000	92	0	165	1.071	T					
I	4/2	10.000	92	0	160	7.034	T					
II	WASTE	550	45	0								
отн	ER INFORMAT	ION								1		
		72										

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

	SYSTEM	TYPE	OF PUMP		MANUTES	PRODUCT	PRODUCT	CONCLUSION/
NO.	PRODUCT	REMOTE	SUCTION	APPLIED.	MINUTES APPLIED	LOSS CC'S	LOSS GPH	RESULT
ナ	54 y/L	RJ		50/50	10			T
II	4/6	RT		50/50	10			T
			2					

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

OTHER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

DETAIL OF TEST RESULTS

	SYSTEM TEST TEST TIME LEAK RATE TEMPERATURE							RATURE NEATION	ABSO	LUTE RATE	CHECK	
NO.	PRODUCT	NO.	TEST LEVEL (INCHES)	CLOCK START	DURATION HRSMIN.	CC/DIV	CC/MIN	Δ°F	CC/MIN	CC/MIN	GPH	TEST
			165	11:30	0-32	+1.315	+28.590	7.07 /	+30456	-1.866	4039	N
T	54 4L	-							-	1		
	j	1	160	10:30	0-34	+1.562	+30.281	4.078	+32.475	-2.194	-034	N
II.	U/L											
	WASTE											
III	FOIL											
											7	

* LEVEL - INCHES FROM TANK BOTTOM TO TEST LEVEL

ALR – ABSOLUTE LEAK RATE (MEASURED LEAK RATE – TEMPERATURE COMPENSATION) IN GALLONS PER HOUR \pm CONCLUSION – NFPA 329 CRITERION OF \pm 0.05 GPH IS USED TO CERTIFY TIGHTNESS

CERTIFICATION

This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

	TESTS CONDUCTED BY	CERTIFIED BY	
	P WHEELEK	SIGNATURE JUDGEL B-17-8	- 7
2/	S. ANDERSON	PWHEELER TEAM MANNE	20

4 °.		IA	INK ANL	LUCATIO	DN DAI	-		7 - 1		Page 2
	11/2					DA	TE:	3-17	-81	
	OMER: 4/C				CITY:	LIVE	RMO	KE		
I.D. #	4,186				STATE:	LA				
	WEATHER	TIME		TEMPER	ATURE	T		COMMENT	s	
BEFC	DRE TEST -									
AFTE	R TEST -									
SCHE	MATIC:	T			1					
			1/2	54	(1)					
		L	4-1	14/4						
							2			
			14/	54 4/L	(2)					
		L	15	4/C						
		2						7 -5	4 42	10,000
		BAY	5		1-	510	RE	R)	0
		4.1.4	10		1	210	/ \			
	550	CLOS	1-10					4	1/4 10	000
								+ $ $		
	waste							P	t)	0
	0							_ '		
	New York and the Control of the Cont					UENTS	00			
	PRODUCT/TANK NO.	54.4/2		L	OIL U	INSTE				
BEFORE DELIVERY	LEVEL	Full Gauge	Fill F4U	Gauge	Fill	Gauge	Fill	Gauge	Fill	Gauge
BEFC	GALLONS WATER	10,000	10,00	0 /	550					
_ 0	MedsAntrapa	0/	0	+/-	0					285
	TOP OF RISER	124/	124		76	V				
	DROP TUBE	133 ALU	133		NON	16		9		
	CAPACITY, GALLONS	10,000		000	550	1				
	DIAMETER, INCHES	92	97		45					
	MATERIAL	GLASS	60	A55	STE	EL				
	PUMP TYPE	RJ.		J,	NON	IE .				
	TYPE OF COVER	CONCRETE		CRETE	77 7270	71.		7		
	AGE OF TANK SIPHON	NONE		EARS	4/	IK NE				
	TANK OPENINGS)	No	DNE	100	, -				
	EXTRACTORS	NONE	N	ONE	No	NE				
<u>></u>	TYPE	CO-AX	_	-AX	NON					Υ.
POR	VENT CONFIGURATION P-V VENT VALVE TYPE	SIEN		EN	OPE	- /~				
VAPOR RECOVERY	A ACIM ANDAR ALLE	NONE	Pe	NE	NOI	30				
	900							4		
REPLA	CEMENT PARTS: PAR	NT#	M) G _	ESCRIPTION	Ā		QUANT	'ITY	PRICE	FI
	-	O MI	NUG .	////			1	-	11)	, 17
ADDIT	IONAL CHARGES: (pun	npovers, overtime, e	tc.}							
	*6									
		from 🗷 Station	,	rts 🗆 Oth	er	o , /	7 -		1 -	~ /
	6 H RS	0~5	. +6			2 H	15	TII.	HUF	1



ENVIRCHMENTAL SERVICES, INC.

115 DEWALT AVENUE, N.W.
SUITE 400
CANTON OH 44702

FINAL REPORT

RESULTS

Paul y amenios

leak	lok	ato	LD 2001
The state of the s	1111111111		

DATE OF TEST

MAY 8, 1986

CONTRACT NUMBER

CAN1 216-4	ON, OH 44702 53-1800 800-	523-4370			nc.	SOLIS					
100000	OMER	^AI_									Ì
LOCA	ATION - IDENT	IFICATION NU	MBER			NAME		•		25	
ADD	771	FIRST	Tier	ET		CITY	Livern	ire	Califo		
m	-			1	TEST RESU	JLTS SUMN				LEAK LO	KATOR US NLY
	SYSTEM	TANK	SIZE	WATER	LEAK	LOKATOR F	RESULTS*			CONCI	L. CODE
	PRODUCT	GALLONS	DIA/MATL	INCHES	LEVEL	ALR GPH	CONCLUSION	RECOMMENDAT	TONS	TEST TA	ANK SYS
1	Super	7738	DAF6	Ð	131	+1026	TILHT			1	
1	UNLEAD	9738	9NFG	1.5	143	-,022	TIGHT			1	_
											_
отн	ER INFORMAT	ION									
			PRODU	ICT LINES -	- HYDROS	STATIC PRI	ESSURE TES	T RESULTS			
	SYSTEM		TYPE OF	PUMP	# # # # #	The second secon	MINUTES	PRODUCT LOSS	PRODUCT LOSS		LUSION

	STSTEM	TTPE OF FOWE		#	MINUTES	LOSS	LOSS	CONCLUSION
NO.	PRODUCT	REMOTE	SUCTION	APPLIED	APPLIED	CC'S	GPH	RESULT
7	SINDER	RED		50	10			TIGHT
2	UNLEAD	RED Jacket		50	10			TIGHT

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

OTHER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

DETAIL OF TEST RESULTS

$\overline{}$			TEST	т	IME	LEAK	RATE	TEMP	ERATURE ENSATION	AB50 LEAM	L RATE	TEST
NO.	PRODUCT	TEST NO.	(INCHES)	CLOCK	DURATION HRSMIN.	CC/DIV	CC/MIN	Δ°F	CC/MIN	CC/MIN	GPH	
		1	139	1025	11 mas	1.381	+18.785	+.043	+17,160	+1.625	+1026	N
1	SUPER	1	1-13	1050	14 mas	1.308	+3,461	+1012	+4.828	-/.367	022	N
2	UNLEAD											

* LEVEL - INCHES FROM TANK BOTTOM TO TEST LEVEL

ALR - ABSOLUTE LEAK RATE (MEASURED LEAK RATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR CONCLUSION - NFPA 329 CRITERION OF \pm 0.05 GPH IS USED TO CERTIFY TIGHTNESS

CE	RTI	FI	CA	TI	ON

REV. 2/85

This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

	TESTS CONDUCTED BY	CERTIFIED	BY
TEST VAN NO.	TANK TESTING SPECIALIST	SIGNATURE DE Day	C5-08-8
L=-17	TANK TESTING SPECIALIST	NAME E. BOJA TERM	MAN AGER

p. gurrarrow

HUNTER ENVIRONMENTAL SERVICES, INC. 15405 REDHILL AVENUE, SUITE C TUSTIN, CA 92680 800-247-9014 800-247-2186

FINAL TEST RESULTS TEST DATE: 8-17-87

CUSTOMER: UNOCAL

ADDRESS:

1777 First Street

Livermore, CA

LOCATION/IDENTIFICATION NO.: 4186

TEST RESULTS SUMMARY

						ŁEAK Į	OKATOR RESULTS	
	SYSTEM	TANK	SIZE	WATER	LEVEL	ALR		
NO.	PRODUCT	GALLONS	DIA/MATL	INCHES	INCHES	GPH	CONCLUSION	RECOMMENDATIONS
1	Super U/L	10000	92"	0	165	-•029	Tight	
2	U/L	10000	92 m	0	160	034	Tight	
3	Waste Oll	550	45*	0				

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

	SYSTEM	TYPE OF	PUMP	POUNDS	POUNDS	MINUTES	PRODUCT	PRODUCT	CONCLUSION
NO.	PRODUCT	REMOTE	SUCTION	APPLIED	HELD	HELD	LOSS CC1s	LOSS GPH	/RESULT
1	Super U/L	Red jacket	+	50	50	10			Tight
2	U/L	Red Jacket	1	50	50	10			Tight

On suction systems, NEVER put more than 15 psl on any pump system. NOTE:

DETAIL OF TEST RESULTS

		*	TEST	TI.	ME	LEAK	RATE	TEMPERA	TURE	ABSOLU	TF	CHECK
NO.	PRODUCT	TEST NO.	LEVEL	CLOCK	DURATION (HR-MIN)	CC/DIV	CC/MIN	COMPENS DELTA OF		LEAK R		TEST
1	Super U/L	9	165	11:30								Y/N
•	U/L	- 1					+28 • 590	• • • •	+30-456	-1.866	029	N
3	Waste 011		160	10:30	0-34	+1+562	+30-281	+•078	+32-475	-2-194	034	N

*LEVEL

- Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour

CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFICATION

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphiet 329 for Precision Testing.

Tests Conducted and Certified By: Test Van No. 21

Team Manager: P. Wheeler

Tank Testing Specialist: S. Anderson

⁻ Inches from Tank Bottom to Test Level



115 DEWALT AVENUE, N.W. SUITE 400 CANTON, OH 44702 216-453-1800 800-523-4370

TEST RESULTS

leak_lokaton

DATE OF TEST
8-17-87
CONTRACT NUMBER

CUS	TOMER	u	10											
oc			CATION NU	MBER			NA	ME						_
ADC	77 77	7	FIRS.	T , S.	T		CIT		ומ א	CRE		STATE		
						TEST RESU	JLTS S	UMMA	RY	27.0	-	C/T	LEAK LONG	TOR US
_	PRODU		TANK:	The same of the sa	WATER	LEAK	LOKAT	OR RES	ULTS*				CONCL.	
1	uye		0,000	9Z	0	INCHES	AS /	2/	ONCLUS	ION REC	OMMENDATIO	ONS	TEST TAN	NK 575
I	4/2	1	0.000	92	0	160	10		+				+++	+
I	WASTE	2.	50	45	0									\top
тн	ER INFORM	MATION												
				PRODUC	T LINES –	HYDROS1	ratic .	PRESS	URE T	EST RE	SULTS			
	SYS	TEM		TYPE OF PU		573.1		99000		1	ODUCT	PRODUCT	12025000	7000000
0.	PROD	UCT	REMO	_	UCTION	APPLII	ED		LIED	-	LOSS CC'S	LOSS GPH	RESU	
-	54 4	gc_	R)		50/	50	/	0				IT	
I	4/1		R	7		50/5	60	i	0				T	
				CUSTOMER	h .	ETAIL OF		RESUL	TS					
0.	PRODUC	TES	TEST LEVEL (INCHES	CLOCK	TIME		EAKRA			TEMPE	RATURE NSATION	ABSC	RATE	CHECH
-	5000	, ,,,,	1 163	11:30	DURATION HRSMIN			CC/MI		Δ F	CC/MIN	CC/MIN	GPH	JEST
-	54 4	4						28.59			+30.456	-1.866	1029	12
	4/2		160	10:30	0-3	1 71.50	2 4	30.29	1 4	078	+32.475	-2.194	5034	2
	WASTE													
LR	- ABSOLU	TE LEAI	K RATE (ME	TOM TO TEST ASURED LEADON OF ± 0.05	K RATE - 1	TEMPERATUED TO CERT	URE CO	MPENS/	ATION)	IN GALI	LONS PER HOL	JR		
_	IFICATIO	N :	This is to ce SERVICES,	rtify that the	above desc	cribed tank	system	is were i	tested,	ting proc	e HUNTER E cedures. Thos ation Pamphle	a indicated a	e eighe se ful	l ing.
			STS CONDU	the state of the s			T				CERTIFIED			_
2	VAN NO.	1 %	TESTING SP	CEK			SIGN	1/2	X.	20)	Deel		8-17-	27
	<u></u>	<u>S.</u>	AND	ECIALIST	<i>,</i>		1777	المرليا	cel	ER	TEA	Y M	J.urx	10

			DATE: 0 // 6								
CUST	OMER: 4/C			CITY:	LIVE	RMO	KE				
	4186		h	STATE:							
	WEATHER	TIME	TEMPERA				OMMENTS	9			
BEFO	RE TEST -	1,100	Tam En	TONE		COMMENTS					
AFTE	R TEST -										
SCHE	MATIC:	-									
			1/2 54 4/2			(C)					
		IR.	1/L 34 4/L 4/L	(2)					**************************************		
		BAY	5 ED		510	LE.	@	421	0		
	01 O					-		/L 10.	0		
		- · · /	,		UENTS	00					
>	PRODUCT/TANK NO.	54, 4/L Fill Gauge	Fill Gauge	OIL U	Gauge	Fill	Gauge	Fill	Gauge		
BEFORE DELIVERY	GALLONS	FULL	FULL	FIII_	Cauge	135.000	Gauge	15.555.5	Gauge		
BEF	WATER	10,000	10,000	550	-/						
		0/	0 /	0	/				- 1		
	TOP OF RISER	124/	124/	76	/						
	GRADE DROP TUBE	133 ALU	133	NON	16						
	CAPACITY, GALLONS	10,000	10.000	550	-						
	DIAMETER, INCHES	92	92	45							
	MATERIAL	GLASS	GLASS	STE							
	PUMP TYPE	人丁	R.J.	NON							
	TYPE OF COVER	CONCRETE	CONCRETE		-						
	AGE OF TANK	7 YEARS	7 YEARS	14	14						
	SIPHON	NONE	NONE	No	K	7					
	TANK OPENINGS	1	1	1							
	EXTRACTORS	NONE	NONE	No	NE						
	2000		CA-AV								
>	TYPE	CO-AX	CO-AX	NON					- 97		
VER	VENT CONFIGURATION		OPEN	OP	EN						
VAPOR RECOVERY	P-V VENT VALVE TYPE	NONE	NONE	Noi	VE	-					
	CEMENT PARTS: PAR	D Q N	DESCRIPTION // t	ž Š	15.77	TIMAUD		PRICE 3	E FH		
	T-4	from 🖫 Station 🗆	LL Charts 🗆 Oth	ner	2 H	125	TW,	HUF	1		



EV. 2/85

Paul yanemos leak lokator

FINAL REPORT TEST

RESULTS

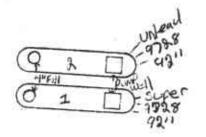
MAY 8, 1986	
CONTRACT NUMBER	_

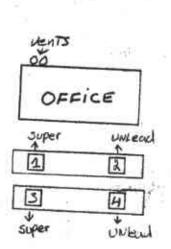
115 DEWALT AVENUE, N.W. SUITE 400 CANTON, OH 44702 216-453-1800 800-523-4370 CUSTOMER LOCATION -NO CAL NAME 3-41186 ADDRESS California LEAK LONATOR USE TREET Livermore TEST RESULTS SUMMARY TANK SIZE SYSTEM LEAK LOKATOR RESULTS ICL COOK WATER PRODUCT GALLONS DIA/MATL LEVEL ALR GPH CONCLUSION RECOMMENDATIONS +1026 TIGHT 7728 -,022 TIGHT 9728 OTHER INFORMATION PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS SYSTEM TYPE OF PUMP PRODUCT PRODUCT CONCLUSION/ MINUTES LOSS LOSS NO. PRODUCT REMOTE APPLIED SUCTION APPLIED RESULT CC'S GPH 50 TIGHT 10 RED TIGHT 10 50 NOTE: On suction systems, NEVER put more than 15 psi on any pump system. OTHER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT **DETAIL OF TEST RESULTS** TEMPERATURE COMPENSATION TEST LEVEL (INCHES) LEAK RATE ARSOLUTE. NO. PRODUCT NO. CLOCK CC/DIV CC/MIN Δ CC/MIN CC/MIN GPH 139 +18.785 +.043 +1026 1025 1.381 47.160 +1.625 N 11 mas +3,461 +1012 1050 N 1.308 LEVEL - INCHES FROM TANK BOTTOM TO TEST LEVEL ALR - ABSOLUTE LEAK RATE (MEASURED LEAK RATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR CONCLUSION - NFPA 329 CRITERION OF ± 0.05 GPH IS USED TO CERTIFY TIGHTNESS CERTIFICATION This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing. TESTS CONDUCTED BY CERTIFIED BY TEST VAN NO. TANK TESTING SPECIALIST DATE TANK TESTING SPECIALIST 5-08-86 LL-17

CUSTOMER: UNOCAL

1.D. # #-4186

WEATHER	Sall For high				
BEFORE TEST -	TIME	TEMPERATURE	COMMENTS		
	0700	ELYE	COMMENTS		
AFTER TEST -	1330	210	CLEAR		
SCHEMATIC:	, , , , ,		CIRAR		





_	PRODUCT/TANK NO.	SUP.	ERTI	1 2011	EAD		4		_		
RE Y	LEVEL	Fill	Gauge	Fill	Gauge	Fill	Gauge	FRI	1.	6	
BEFORE DELIVERY	GALLONS	8097	25, 34,	71.	7,5471.00		Cante.	. Fill	Gauge	Fill	Gauge
	WATER		P	8097					m .		
	TOP OF RISER	125.75	1	1.5				-			
	GRADE	1395		126.							
	DROP TUBE	ves	100	/33 yes					-		
	CAPACITY, GALLONS	979	2	979				77			
	DIAMETER, INCHES	92		93			-				
	MATERIAL	Fiber	lase	Fiber (-				
	PUMP TYPE	RED JO	CKPT	RED Ja	21955				Y		
	TYPE OF COVER	Cemen	7	Cente		15	\rightarrow		- 1		
_	AGE OF TANK	-		Lene	117		-		_		
	SIPHON	NO		No		_					
	TANK OPENINGS	. 1		1			-				
	EXTRACTORS	N.E.		52.8			-		-		
	TYPE	PT	-								
RECOVERY	VENT CONFIGURATION	1111	-	PHE	_						
	P-V VENT VALVE TYPE	/		-	+						
					<				_		-

REPLACEMENT PARTS: ,.	PART # DESCRIPTION		4	,1/	
	1337C-4	GRANT IN THE STATE OF THE STATE	QUANTITY	PRICE	
ADDITIONAL CHARGES:	1411-062-5	GOAKIAL Adapted	2	48.90 EA	
	4890	R.J. Rington ElEMENT R.J. ORING HAT	2	55.6VEA	
	(pumpovers, overti	me, etc.) 4"64skets	2	3.00 EA	
			2	2.00 EA	

Data obtained from Statio	n 🗆 LL Charts 🗀 Other
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