



**TESTING
AND
TECHNOLOGY**

31-F Commercial Blvd. • Novato, CA • 94949 • (415) 883-5070
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TRACER-TIGHT • PRECISION TANK TESTING • MONITORING WELL SERVICES • ENVIRONMENTAL SERVICES

June 17, 1991

Mr. Pete Timmerman
BAY AREA TANK TESTING
2051 N. Main Street
Walnut Creek, CA 94596

Subject: UST Tank Test Results
ARATEX
330 Chestnut St.
Oakland CA 94607

Dear Mr. Timmerman:

We would like to thank you for using Testing and Technology for your tank testing needs.

Enclosed are the results for the one (1) underground storage tank test - one (1) 10,000 gallon Mop Oil tank performed May 15th. Tank 1 passed and the results are within the guidelines set forth by state regulations.

For your convenience I have sent a copy of this report on to Mr. Ed Howell of Alameda Co. Environmental Health.

If you have any further questions, please feel free to call at (415) 883-5070.

Very truly yours,

Neil Decker
Administrative

KDW:mds

Enclosure

cc: Mr. Ed Howell, Acting Chief
Hazardous Materials Division
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Testing and Technology

Test Report

Homer "EZY CHEK" Leak Detector

Company ARATEX Tank# 1 Invoice 1216 Product MOP OIL Capacity 10000 Date MAY 15 1991
 Measured API 26 Temp 60.1 Adjusted A 26 C.O.E. 0.00042987 Temp. Shift Factor 4.2987 Cal. Rod 0.05
 Divided By # Lines 34 Chart Cal. Factor 0.0015 15 Gallons Added At 08:45AM To Overfill Tank For Test

TIME	TEST HEIGHT	CHART NOS	GAIN LOSS	CHART FACTR	LEVEL RESULT	TEMP START	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	RESULT IN GAL	RESULT GAL/HR
11 00AM	60	52 52	0	0.0015	0	0.119	0.118	-0.001	4.2987	-0.0043	0.0043	0.0043
11 15AM	60	52 46	-6	0.0015	-0.009	0.118	0.117	-0.001	4.2987	-0.0043	-0.0047	-0.0004
11 30AM	60	46 46	0	0.0015	0	0.117	0.116	-0.001	4.2987	-0.0043	0.0043	0.0039
11 45AM	60	46 46	0	0.0015	0	0.116	0.116	0	4.2987	0.0000	0.0000	0.0039

Test Run Data

12 00PM	60	46 46	0	0.0015	0	0.116	0.116	0	4.2987	0.0000	0.0000	0.0000
12 06PM	60	46 46	0	0.0015	0	0.116	0.115	-0.001	4.2987	-0.0043	0.0043	0.0043
12 12PM	60	46 46	0	0.0015	0	0.115	0.115	0	4.2987	0.0000	0.0000	0.0043
12 18PM	60	46 46	0	0.0015	0	0.115	0.115	0	4.2987	0.0000	0.0000	0.0043
12 24PM	60	46 46	0	0.0015	0	0.115	0.114	-0.001	4.2987	-0.0043	0.0043	0.0086
12 30PM	60	46 46	0	0.0015	0	0.114	0.114	0	4.2987	0.0000	0.0000	0.0086
12 36PM	60	46 46	0	0.0015	0	0.114	0.113	-0.001	4.2987	-0.0043	0.0043	0.0129
12 42PM	60	46 46	0	0.0015	0	0.113	0.113	0	4.2987	0.0000	0.0000	0.0129
12 48PM	60	46 46	0	0.0015	0	0.113	0.113	0	4.2987	0.0000	0.0000	0.0129
12 54PM	60	46 46	0	0.0015	0	0.113	0.113	0	4.2987	0.0000	0.0000	0.0129

DEVIATION 0.0020

Results: Certified Tight Line Test O.K. yes At Test Height Of 60 Loss Rate (gph)

0.0129

Tested By



Don Semeski #94-1470

Note : The data for this test meets NFPA 329 standards. The equipment used to generate this data is able to detect a product loss at the rate of 0.05 gallons per hour. This is not to be construed as an allowable leak rate, but rather as an accuracy rate of the testing equipment.

TAT guarantees only that the data for this report meets NFPA criteria on the day of this test. TAT makes no warranty of tank and/or line fitness or do we assume responsibility for any leakage which may have occurred as a result of this test.

TESTING AND TECHNOLOGY
27 B COMMERCIAL BLVD, NOVATO, CA 94949

(415) 883-5070

INVOICE # 1216

TEST DATE 5/15/91

COMPANY NAME ARATEX

TANK ADDRESS 330 Chestnut St., Oakland CA 94607

CONTACT NAME Bob Raish

PHONE # 415-835-9285

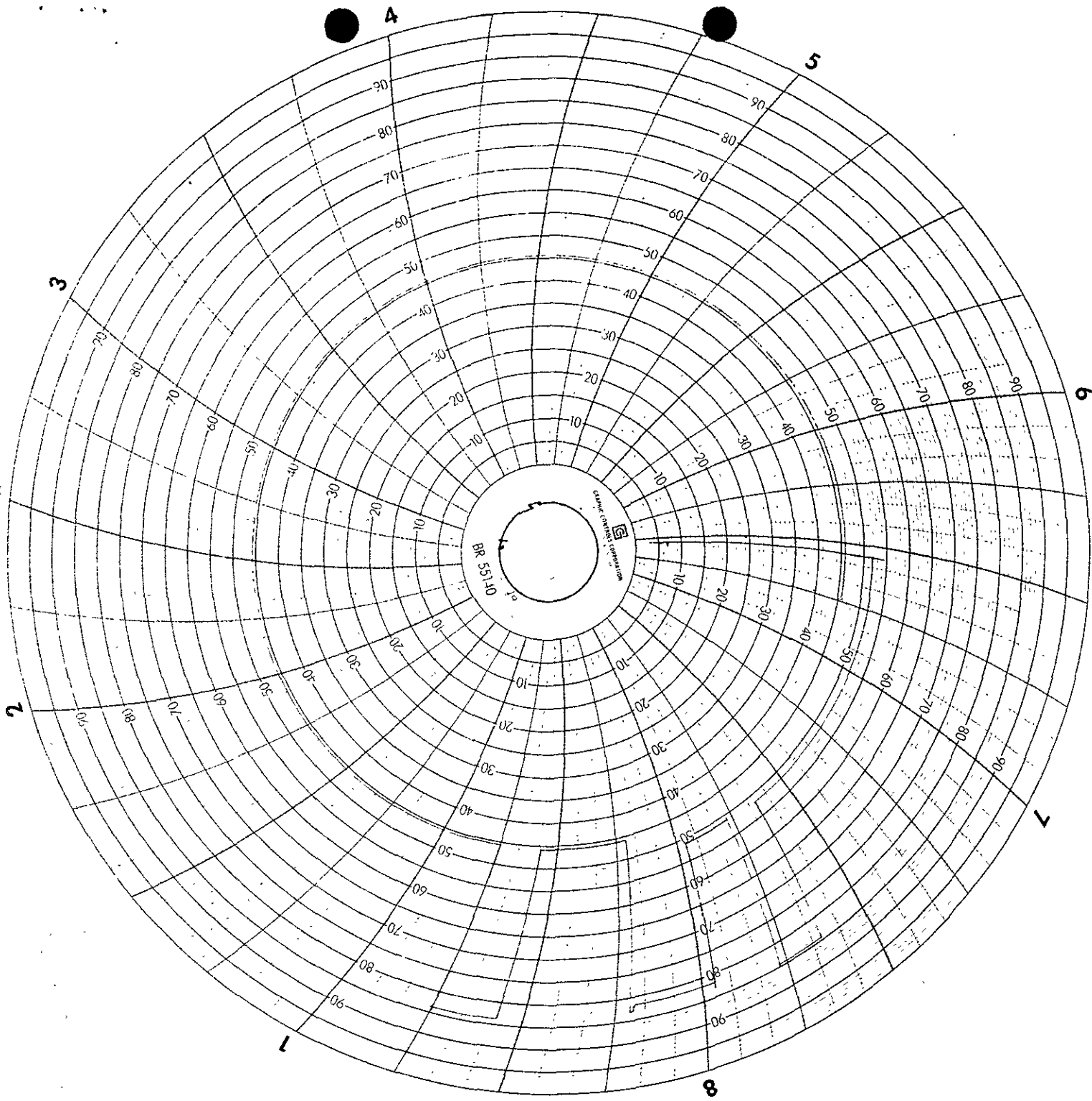
TANK INFORMATION

TANK # 1
PRODUCT Mop Oil
CAPACITY 10,000
CONSTRUCTION STEEL
AGE (ESTIMATE) 10 +/-
DIAMETER 94"
FILL PIPE 35"
TANK BOTTOM DEPTH 129"/136"
PRODUCT ON ARRIVAL -24"
PUMP TYPE SUCTION
VAPOR RECOVERY NONE
TANK WATER 0
DATE/TIME FILLED UNKNOWN
GALLONS TO TOP OFF UNKNOWN
GROUND WATER DEPTH 6' +/-
TANK BTM PRESSURE 4 P.S.I.
TEST EQUIPMENT HORNER

RESULTS

TANK TEST PASS
LOSS RATE 0.0172

COMMENTS NONE



Aratex
330 Chestnut St.
Oakland Ca 94607



BAY
AREA
TANK
TESTING

91 JUN 21 PM 3:20

June 19, 1991

Mr. Dick Huffman
ARATEX Services, Inc.
330 Chestnut St.
Oakland, CA 94607

Subject: UST Tank Test Results
ARATEX
330 Chestnut St.
Oakland, CA 94607

Dear Mr. Huffman:

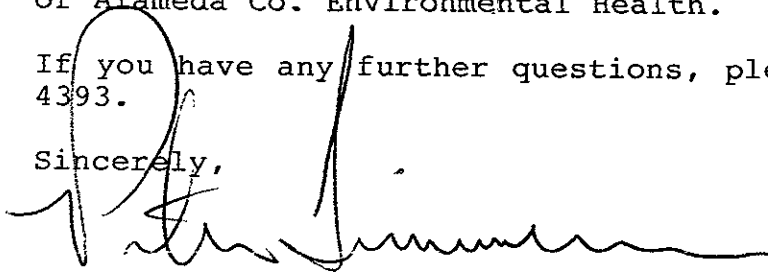
We would like to thank you for using Bay Area Tank Testing for your tank testing needs.

Enclosed are the results for the three (3) underground storage tank tests - one (1) 5,000 gallon gasoline and one (1) 12,000 gallon diesel performed May 14th and one (1) 10,000 gallon mop oil performed May 15th. All three tanks passed and the results are within the guidelines set forth by state regulations.

For your convenience I have sent a copy of this report on to Mr. Ed Howell of Alameda Co. Environmental Health.

If you have any further questions, please feel free to call at (415)932-4393.

Sincerely,


Peter Timmerman
Owner

PDT:eam

Enclosure

cc: Mr. Ed Howell, Acting Chief
Hazardous Materials Division
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Data Chart for Tank System Tightness Test

PLEASE PRINT

1. OWNER Property <input checked="" type="checkbox"/> Tank(s) <input checked="" type="checkbox"/>	ARATEX 330 CHESTNUT, OAKLAND Name Address Representative Telephone BDB RASH 835-9285 Name Address Representative Telephone					
2. OPERATOR	Name Address Telephone					
3. REASON FOR TEST (Explain Fully)	Annual compliance with State underground storage tank REG. ARTICLE 4					
4. WHO REQUESTED TEST AND WHEN	Name Title Company or Affiliation Date Address Telephone					
5. TANK INVOLVED <small>Use additional lines for manifolded tanks</small>	Identify by Direction	Capacity	Brand/Supplier	Grade	Approx Age	Steel/Fiberglass
	NORTH #1	5000	N/A	W/C	N/A	STEEL
	NORTH #2	12000	N/A	DISPERC	N/A	
6. INSTALLATION DATA	Location	Cover	Fills	Vents	Siphones	Pumps
	NORTH OF BLDG.	CONCRETE	4"	2"	N/A	suction remote
	<small>North inside driveway, Rear of station, etc.</small>	<small>Concrete, Black Top, Earth, etc.</small>	<small>Size, Titefill make, Drop tubes, Remote Fills</small>	<small>Size, Manifolded</small>	<small>Which tanks?</small>	<small>Suction, Remote, Make if known</small>
7. UNDERGROUND WATER	Depth to the Water table <u>10 ft +</u>				Is the water over the tank? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. FILL-UP ARRANGEMENTS	Tanks to be filled _____ hr. _____ Date Arranged by _____ Name Telephone Extra product to "top off" and run tank tester. How and who to provide? Consider NO Lead.					
	Terminal or other contact for notice or inquiry _____ Company Name Telephone					
9. CONTRACTOR, MECHANICS, any other contractor involved	_____ _____ _____					
10. 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, etc.					
11. TEST RESULTS	Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows:					
	Tank Identification	Tight	Leakage Indicated	Date Tested		
	NORTH #1	Tight	0.00	5-13-91		
	NORTH #2	Tight	0.00	5-13-91		
12. SENSOR CERTIFICATION <u>12106190</u> Date <u>#383</u> Serial No. of Thermal Sensor	13. 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 Association Pamphlet 329. Technicians 1 <u>Tim B Soucie</u> Certification # <u>1066</u> 2 _____ Certification # _____					
	DAY AREA TANK TESTING P.O. BOX 4470 WALNUT CREEK, CA 94596 Testing Contractor/Company By Signature Address					

15. TANK TO TEST
NORTH #1
 Identify by position
411
 Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

16. CAPACITY
 Nominal Capacity 5600 Gallons
 By most accurate capacity chart available 5000 Gallons

From
 Station Chart
 Tank Manufacturer's Chart
 Company Engineering Data
 Charts supplied with
 Other

17. FILL-UP FOR TEST
 Stick Water Bottom before Fill-up _____ in. _____ Gallons
 Tank Diameter 41 in. Inventory _____

Total Gallons ea. Reading
5011
 Transfer total to line 25a

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
 Water in tank Line(s) being tested with LVLLT 115
 High water table in tank excavation

See manual sections applicable. Check below and record procedure in log (27).
 Use maximum allowable test pressure for all tests. Four pound rule does not apply to doublewalled tanks.
 Complete section below:

1. Is four pound rule required? Yes No
2. Height to 12" mark from bottom of tank _____ in.
3. Pressure at bottom of tank _____ P.S.I.
4. Pressure at top of tank _____ P.S.I.

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
 Bottom of tank to grade* _____ 124 in.
 Add 30" for "T" probe assy. _____ 30 in.
 Total tubing to assemble - approximate _____ 154 in.

20. EXTENSION HOSE SETTING
 Tank top to grade* _____ 30 in.
 Extend hose on suction tube 8" or more below tank top _____ in.
 *If fill pipe extends above grade, use top of fill.

22. Thermal-Sensor reading after circulation 65.767 digits
 _____ °F
 Between _____ digits

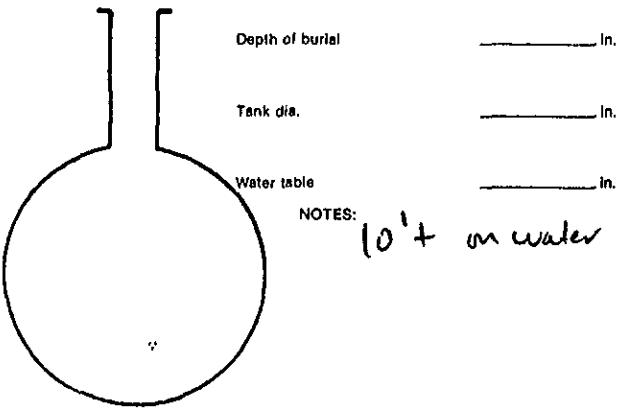
23. Digits per °F in range of expected change _____ digits

COEFFICIENT OF EXPANSION (Complete after circulation)
 24a. Corrected A.P.I. Gravity
 Observed A.P.I. Gravity _____
 Hydrometer employed _____ H
 Observed Sample Temperature _____ °F
 Corrected A.P.I. Gravity @ 60°F, From Table A _____
 Coefficient of Expansion for Involved Product From Table B _____
 Transfer COE to Line 25b.

21. VAPOR RECOVERY SYSTEM Stage I Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD
 Type of Product _____ GAS
 Hydrometer Employed _____ 6 H
 Temperature in Tank After Circulation _____ 64 °F
 Temperature of Sample _____ 63 °F
 Difference (+/-) _____ -1 °F
 Observed A.P.I. Gravity _____ 5.211
 Reciprocal 1492 Page # 61
5011 + 1492 = 3.3585791
 Total quantity in full tank (16 or 17) Reciprocal Volume change in this tank per °F
 Transfer to Line 26a

24c. FOR TESTING WITH WATER see Table C & D
 Water Temperature after Circulation Table C _____ °F
 Coefficient of Water Table D _____
 Added Surfactant? Yes No Transfer COE to Line 25b



The above calculations are to be used for dry soil conditions to establish a positive pressure advantage, or when using the four pound rule to compensate for the presence of subsurface water in the tank area.
 Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.

25. (a) _____ × (b) _____ = (c) _____ gallons
 Total quantity in full tank (16 or 17) Coefficient of expansion for involved product Volume change in this tank per °F

26. (a) 3.3585791 + 1000 = 0.002295 This is test
 Volume change per °F (25 or 24b) Digits per °F in test Volume change per digit test

27.1		Sensor Calibration		30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (1) RECORD TO 001 GAL.			34. TEMPERATURE COMPENSATION (2)			38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE
LOG OF TEST PROCEDURES		29. Reading No.	Standpipe Level in Inches		32. Product in Graduates		33. Product Replaced (-) Product Recovered (+)	35. Thermal Sensor Reading	36. Change Higher - (+) Lower - (-)	37. Compensation (2) = (a) + Expansion - Contraction -	38. Temperature Adjustment Volume Minus Expansion (+) or Contraction (-) (SEE 36) - (SEE 37)	39. At Low Level compute Change per Hour (OFFA criteria)	
28. DATE	Record details of setting up and running test. (Use full length of line if needed.)		Beginning of Reading	Level to which Restored	Before Reading	After Reading							
08:00	ARRIVED JOB SITE												
	SET UP TEST EQUIPMENT												
08:40	START RECIRCULATION												
09:30	START HIGH LEVEL TEST	1	42					63.767		0034			
09:45	HIGH LEVEL	2	40.9	42	615	540	-075	753	126	+088	-163		
10:00		3	41.5	42	540	505	-035	916	123	+078	-115		
10:15		4	41.7	42	505	480	-025	942	126	+088	-113		
10:30		5	42.0	42	490	480	N/C	868	126	+088	-088		
10:45		6	42.1	42	480	480	+010	883	123	+078	-088		
11:00		7	42.1	42	480	500	+020	907	124	+082	-078		
11:15		8	42.2	42	500	500	+020	933	126	+088	-088		
	STATION LOW TEST			12									
10:30	LOW LEVEL	1	12.9	12	110	180	+070	943	110	+034	+036		
11:05		2	12.3	12	180	245	+065	950	127	+024	+001	+001	
11:30		3	12.2	12	205	225	+020	955	125	+017	+003	+003	
11:35		4	12.2	12	225	245	+020	961	126	+020	+000	+003	
11:40		5	12.2	12	245	265	+020	968	127	+024	-004	-000	
11:45		6	12.2	12	265	285	+020	976	128	+027	-007	-007	
11:50		7	12.2	12	285	305	+020	983	127	+024	-004	-011	
11:55		8	12.2	12	305	325	+020	989	126	+020	+000	-011	
12:00		9	12.2	12	325	345	+020	995	126	+020	+000	-011	
12:05		10	12.2	12	345	365	+020	1002	127	+024	-004	-015	
12:10		11	12.2	12	365	385	+020	010	128	+027	-007	-022	
12:15		12	12.2	12	385	405	+020	017	127	+024	-004	-026	
12:20		13	12.2	12	405	425	+020	026	125	+021	-011	-037	
12:25		14	12.2	12	425	445	+020	032	126	+020	+000	-037	
12:30		15	12.2	12	445	465	+020	040	128	+027	-007	-044	
12:35		16	12.2	12	465	485	+020	046	128	+027	-007	-051	

12:40		17	12.2	12	485	505	+020	057	129	+031	+011	-062
12:45		18	12.2	12	505	525	+020	065	128	+027	-007	-069
12:50		19	12.2	12	525	545	+020	073	128	+027	-007	-076
12:55		20	12.2	12	545	565	+020	081	128	+027	-007	-083
13:00		21	12.2	12	565	585	+020	088	127	+024	-004	-087
13:05		22	12.2	12	585	605	+020	096	128	+027	-007	-094
13:10		23	12.2	12	605	625	+020	102	126	+020	+000	-094
13:15		24	12.2	12	625	645	+020	108	126	+020	+000	-094
										-054	+022	-057

P-T Tank Test Data Chart
Additional Info

2. Statement
Tank and product handling system has been tested tight according to the Precision Test Criteria as established by NFPA publication 329. This is not intended to indicate permission of a leak.

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system. Hearn Consultants Incorporated does not assume any responsibility or liability for any loss of product to the environment.

Net Volume Change Concusion Precision Test 04/2/2001
Signature of Tester: *[Signature]*
Date: 5-17-91

OR
Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by NFPA publication 329.

Tank Owner/Operator: _____

15. TANK TO TEST
NORTH #2
 Identity by position
DIESEL
 Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

16. CAPACITY
 Nominal Capacity 17,000 Gallons
 By most accurate capacity chart available 11,995 Gallons

- From
 Station Chart
 Tank Manufacturer's Chart
 Company Engineering Data
 Charts supplied with
 Other _____

17. FILL-UP FOR TEST
 Stick Water Bottom before Fill-up _____ in _____ Gallons
 to 1/4" _____ Tank Diameter 96 in
 Inventory 141 Gallons
 Total Gallons ea Reading 11,995
TOPOFF 10
11,995
 Transfer total to line 25a

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
 Water in tank Line(s) being tested with LVLLT
 High water table in tank excavation
 See manual sections applicable Check below and record procedure in log (27).
 Use maximum allowable test pressure for all tests. Four pound rule does not apply to doublewalled tanks.
 Complete section below.

1. Is four pound rule required? Yes No
2. Height to 12" mark from bottom of tank _____ in.
3. Pressure at bottom of tank _____ P.S.I.
4. Pressure at top of tank _____ P.S.I.

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
 Bottom of tank to grade* _____ 132 in.
 Add 30" for "T" probe assy. _____ 30 in.
 Total tubing to assemble - approximate _____ 162 in.

20. EXTENSION HOSE SETTING
 Tank top to grade* _____ 56 in.
 Extend hose on suction tube 6" or more below tank top _____ in.
 *If fill pipe extends above grade, use top of fill.

22. Thermal-Sensor reading after circulation 67.191 digits
 _____ °F
 Between _____ digits

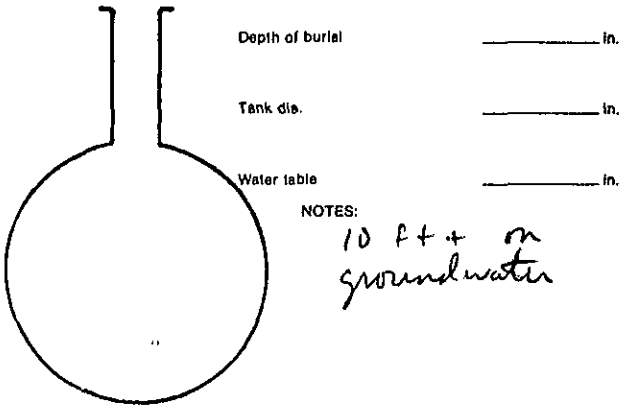
23. Digits per °F in range of expected change _____ digits

COEFFICIENT OF EXPANSION (Complete after circulation)
 24a. Corrected A.P.I. Gravity
 Observed A.P.I. Gravity _____
 Hydrometer employed _____ H
 Observed Sample Temperature _____ °F
 Corrected A.P.I. Gravity @ 80°F. From Table A _____
 Coefficient of Expansion for Involved Product From Table B _____
 Transfer COE to Line 25b.

21. VAPOR RECOVERY SYSTEM Stage I Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD
 Type of Product _____ DIESEL
 Hydrometer Employed _____ 41 H
 Temperature in Tank After Circulation _____ 67 °F
 Temperature of Sample _____ 65 °F
 Difference (+/-) _____ 2 °F
 Observed A.P.I. Gravity _____ 31.8
 Reciprocal 2216 Page # 35
11,995 + 2216 5,112,906
 Total quantity in full tank (16 or 17) Reciprocal Volume change in this tank per °F
 Transfer to Line 25a

24c. FOR TESTING WITH WATER see Table C & D
 Water Temperature after Circulation Table C _____ °F
 Coefficient of Water Table D _____
 Added Surfactant? Yes No Transfer COE to Line 25b



NOTES:
10 ft + on groundwater

The above calculations are to be used for dry soil conditions to establish a positive pressure advantage, or when using the four pound rule to compensate for the presence of subsurface water in the tank area.
 Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.

25. (a) _____ × (b) _____ = (c) _____ gallons
 Total quantity in full tank (16 or 17) Coefficient of expansion for Involved product Volume change in this tank per °F

26. (a) 5,112,906 + (b) 1,000 = (c) 0.0051129 This is test
 Volume change per °F (25 or 24b) Digits per °F in test Range (23) Volume change per digit

27. Sensor Calibration _____ / _____			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO 001 GAL.			34. TEMPERATURE COMPENSATION USE			38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE
LOG OF TEST PROCEDURES			Standpipe Level in Inches		Product in Graduate		33. Product Replaced (-)	35. Thermal Sensor Reading	36. Change Higher - Lower - (C)	37. Computation (c) = (a) + Expansion - Contraction -	Temperature Adjustment Volume Minus Expansion (E) or Contraction (C) (CONV - CFT)	At Low Level compute Change per Hour (DIFFA criteria)
25. DATE	Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	Beginning of Reading	Level to which Restored	Before Reading	After Reading	Product Recovered (-)					
8:00	ARRIVED JOB SITE											
	SET UP TEST EQUIPMENT											
08:30	START RECIRCULATION											
10:45	START HIGH LEVEL TEST	1		62				67.191		0054		
11:00	HIGH LEVEL	2	40.9	42	94.0	92.5	-11.5	709	+18	4.097	7.212	
11:15		3	40.4	42	82.5	71.5	-11.0	722	+13	4.070	-1.80	
11:30		4	41.0	42	71.5	63.5	-0.80	286	+14	2.076	-15.6	
11:45		5	41.5	42	63.5	59.5	-0.40	241	+12	4.065	-1.05	
12:00		6	41.5	42	59.5	55.5	-0.10	259	+11	4.059	-0.59	
12:15		7	41.9	42	55.5	53.5	-0.20	271	+12	4.065	-0.85	
12:30		8	41.9	42	53.5	52.5	-0.10	283	+12	4.065	-0.25	
	START LOW LEVEL TEST			12								
12:35	LOW LEVEL	1	12.6	12	136	190	+0.60	286	+3	4.016	4.044	
12:40		2	12.2	12	190	210	+0.20	250	+4	4.022	-0.02	-0.02
12:45		3	12.2	12	210	230	+0.20	294	+4	4.022	-0.02	-0.04
12:50		4	12.2	12	230	240	+0.10	298	+4	4.022	-0.12	-0.16
12:55		5	12.2	12	240	260	+0.20	301	+3	4.026	-0.04	-0.13
13:00		6	12.2	12	260	280	+0.20	306	+5	4.027	-0.07	-0.19
13:05		7	12.1	12	280	290	+0.10	309	+3	4.016	-0.06	-0.25
13:10		8	12.2	12	290	310	+0.20	313	+4	4.022	-0.02	-0.27
13:15		9	12.2	12	310	330	+0.20	319	+6	4.027	-0.12	-0.39
13:20		10	12.2	12	330	350	+0.20	323	+4	4.022	-0.02	-0.41
13:25		11	12.3	12	350	375	+0.25	326	+3	4.016	4.029	-0.22
13:30		12	12.2	12	375	395	+0.20	381	+5	4.027	-0.07	-0.39
13:35		13	12.2	12	395	415	+0.20	336	+5	4.027	-0.07	-0.46
13:40		14	12.2	12	415	435	+0.20	340	+4	4.022	-0.02	-0.48
13:45		15	12.2	12	435	455	+0.20	342	+3	4.016	4.004	-0.44
13:50		16	12.2	12	455	475	+0.20	347	+4	4.022	-0.02	-0.46

13:55		17	12.2	12	475	495	+0.20	352	+5	4.027	-0.02	-0.53
14:00		18	12.2	12	495	515	+0.20	358	+4	4.022	-0.02	-0.55
14:05		19	12.2	12	515	535	+0.20	360	+4	4.022	-0.02	-0.57
14:10		20	12.2	12	535	555	+0.20	366	+6	4.027	-0.12	-0.69
14:15		21	12.2	12	555	575	+0.20	369	+3	4.016	4.004	-0.65
14:20		22	12.2	12	575	595	+0.20	372	+3	4.016	4.004	-0.61
14:25		23	12.2	12	595	615	+0.20	376	+4	4.022	-0.02	-0.63
14:30		24	12.2	12	615	635	+0.20	379	+3	4.016	4.004	-0.59
										-0.59	4.22	-0.32

P-T Tank Test Data Chart
Additional Info

2. Statement
Tank and product handling system has been tested tight according to the Preciso Test Criteria as established by N.F.P.A. publication 329. This is not intended to indicate permission of a leak.

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the responsibility of any responsible person to the environment, as a result of the indicated failure of this system. Health Consultants Incorporated does not assume any responsibility or liability for any loss of product to the environment.

Net Volume Change: Calculation of Preciso 329
Signature of Tester: *[Signature]*
Date: 2-13-91

OR
Tank and product handling system has failed the tank tightness test according to the Preciso Test Criteria as established by N.F.P.A. publication 329.

Tank Owner/Operator: _____
Date: _____

TESTING AND TECHNOLOGY
27 B COMMERCIAL BLVD, NOVATO, CA 94949

(415) 883-5070

INVOICE # 1216

TEST DATE 5/15/91

COMPANY NAME ARATEX

TANK ADDRESS 330 Chestnut St., Oakland CA 94607

CONTACT NAME Bob Raish

PHONE # 415-835-9285

TANK INFORMATION

TANK # 1
PRODUCT Mop Oil
CAPACITY 10,000
CONSTRUCTION STEEL
AGE (ESTIMATE) 10 +/-
DIAMETER 94"
FILL PIPE 35"
TANK BOTTOM DEPTH 129"/136"
PRODUCT ON ARRIVAL -24"
PUMP TYPE SUCTION
VAPOR RECOVERY NONE
TANK WATER 0
DATE/TIME FILLED UNKNOWN
GALLONS TO TOP OFF UNKNOWN
GROUND WATER DEPTH 6' +/-
TANK BTM PRESSURE 4 P.S.I.
TEST EQUIPMENT HORNER

RESULTS

TANK TEST PASS
LOSS RATE +.0172

COMMENTS NONE

Testing and Technology


Test Report

Homer " EZY CHEK " Leak Detector

Company ARATEX Tank# 1 Invoice 1216 Product MOP OIL Capacity 10000 Date MAY 15 1991
 Measured API 26 Temp 60.1 Adjusted A 26 C.O.E. 0.00042987 Temp. Shift Factor 4.2987 Cal. Rod 0.05
 Divided By # lines 34 Chart Cal. Factor 0.0015 15 Gallons Added At 08:45AM To Overfill Tank For Test

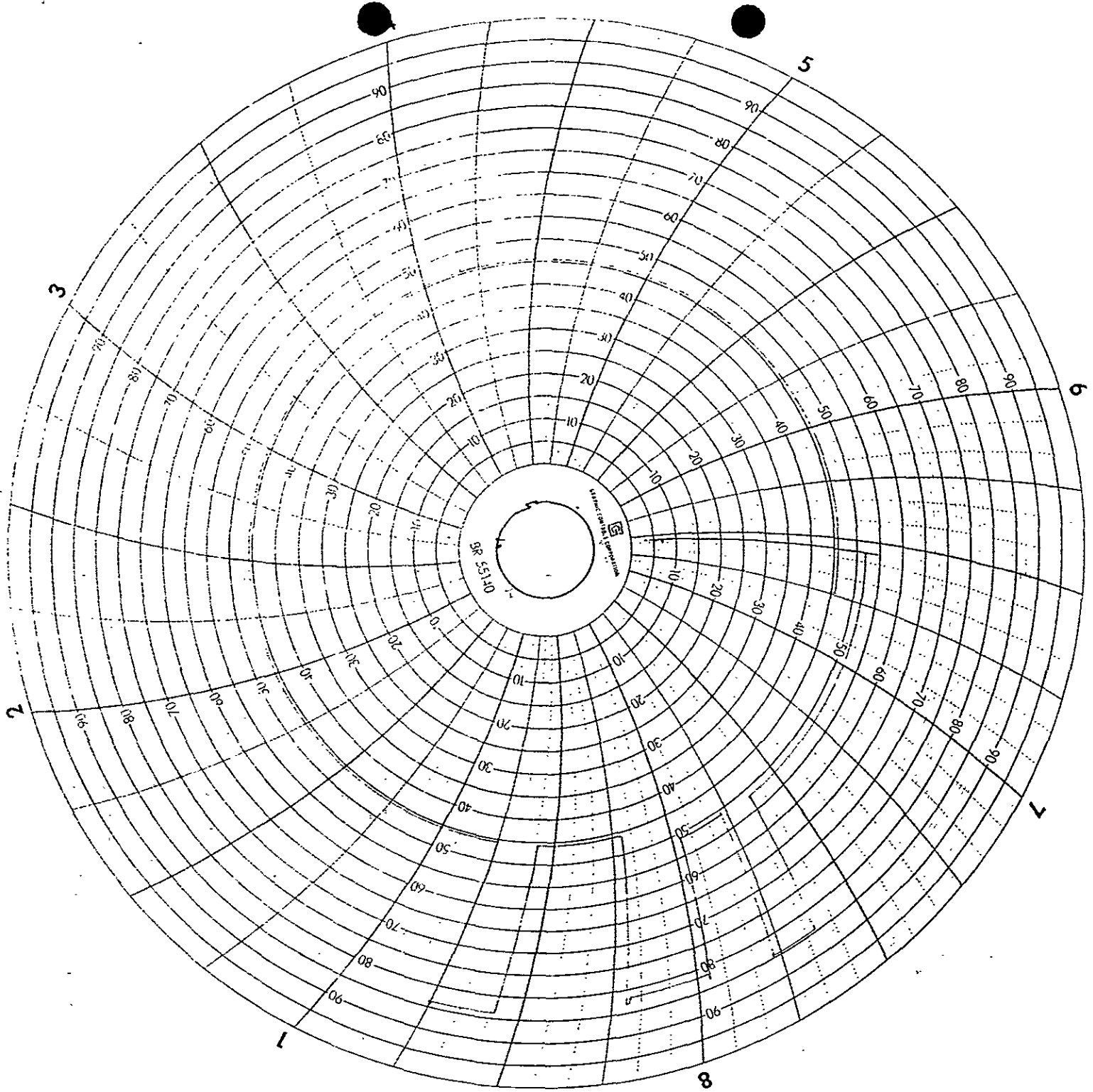
TIME	TEST HEIGHT	CHART NOS	GAIN LOSS	CHART FACTR	LEVEL RESULT	TEMP START	TEMP END	GAIN LOSS	TEMP FACTR	TEMP RESULT	RESULT IN GAL	RESULT GAL/HR	
11:00AM	60	52 52	0	0.0015	0	0.119	0.118	-0.001	4.2987	-0.0043	0.0043	0.0043	
11:15AM	60	52 46	-6	0.0015	-0.009	0.118	0.117	-0.001	4.2987	-0.0043	-0.0047	-0.0004	
11:30AM	60	46 46	0	0.0015	0	0.117	0.116	-0.001	4.2987	-0.0043	0.0043	0.0039	
11:45AM	60	46 46	0	0.0015	0	0.116	0.116	0	4.2987	0.0000	0.0000	0.0039	
Test Run Data													
12:00PM	60	46 46	0	0.0015	0	0.116	0.116	0	4.2987	0.0000	0.0000	0.0000	
12:06PM	60	46 46	0	0.0015	0	0.116	0.115	-0.001	4.2987	-0.0043	0.0043	0.0000	
12:12PM	60	46 46	0	0.0015	0	0.115	0.115	0	4.2987	0.0000	0.0000	0.0043	
12:18PM	60	46 46	0	0.0015	0	0.115	0.115	0	4.2987	0.0000	0.0000	0.0043	
12:24PM	60	46 46	0	0.0015	0	0.115	0.114	-0.001	4.2987	-0.0043	0.0043	0.0043	
12:30PM	60	46 46	0	0.0015	0	0.114	0.114	0	4.2987	0.0000	0.0000	0.0086	
12:36PM	60	46 46	0	0.0015	0	0.114	0.113	-0.001	4.2987	-0.0043	0.0043	0.0129	
12:42PM	60	46 46	0	0.0015	0	0.113	0.113	0	4.2987	0.0000	0.0000	0.0129	
12:48PM	60	46 46	0	0.0015	0	0.113	0.113	0	4.2987	0.0000	0.0000	0.0129	
12:54PM	60	46 46	0	0.0015	0	0.113	0.113	0	4.2987	0.0000	0.0000	0.0129	
											DEVIATION	0.0020	0.0129

Results: Certified Tight yes At Test Height Of 60 Loss Rate (gph) 0.0129
 Line Test O.K. yes

Tested By 
 Don Semeski #94-1470

Note : The data for this test meets NFPA 329 standards. The equipment used to generate this data is able to detect a product loss at the rate of 0.05 gallons per hour. This is not to be construed as an allowable leak rate, but rather as accuracy rate of the testing equipment.

TAT guarantees only that the data for this report meets NFPA criteria on the day of this test. TAT makes no warranty of tank and/or line fitness or do we assume responsibility for any leakage which may have occurred as a result of this test.



Aratex
330 Chestnut St.
Oakland CA 94607