Shell Oil Company

EAST BAY
MARKETING DISTRICT

P.O. Box 4023
Concord, CA 94524
(510) 676-1414

93 JAN 15 AM 9:

January 12, 1992

Britt Johnson, Haz Matl.
County of Alameda
Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

RE: UGST TANK TEST RESULTS FOR SHELL STATION 5755 BROADWAY IN OAKLAND, CA 94618 DUE TO INCIDENT REPORTED ON MEMO DATED 12/23/92.

Please find enclosed the test results and a copy of our memo dated 12/23/92 for above station.

If you have any questions, please contact Lisa Waters at 510 675-6143.

Very truly yours,

Karen D. Clark
HS&E Administrative Support

Enclosures

01KC1204

CERTIFICATE OF UNDERGROUND STORAGE TANK SYSTEM TESTING

NDE ENVIRONMENTAL CORPORATION
20000 Mariner Avenue, Suite 500
Torrance, California 90503
(310) 542-4342

Test Date: 5 Jan 1993 **Work Order#:** 960712

Client: SHELL OIL COMPANY
P.O. BOX 4023
CONCORD , CA 94524
Attn: KAREN CLARK

Site: SHELL #204-5510-0303
5755 BROADWAY
OAKLAND , CA 94618

The following tests were conducted at the site described above in accordance with all applicable portions of Federal, NFPA, and Local regulations.

TANK SYSTEM INFORMATION

Tank No.	Tank Capacity Gallons	Tank Diameter Inches	Product	Product Level Inches	Tank Material	Vapor Recovery	
						Stage I	Stage II
1	10,000	99	SU 2000	57.00	FIBERGLASS	DUAL	BALANCE
2	10,000	99	SR 2000	67.00	FIBERGLASS	DUAL	BALANCE
3	10,000	99	RU 2000	55.00	FIBERGLASS	DUAL	BALANCE

TESTING RESULTS

Tank No.	VPLT Volume Change (gph)	Wetted Portion of Tank Pass/fail	Ullage Test Pass/Fail	Vent & Vapor Lines Pass/Fail	Product Lines Pass/Fail	Leak Detector Present? Yes/no	Leak Detector Results Pass/Fail
1	0.033	PASS	PASS	PASS	PASS	YES	PASS
2	0.043	PASS	PASS	PASS	PASS	YES	PASS
3	0.036	PASS	PASS	PASS	PASS	YES	PASS

NDE appreciates the opportunity to serve you, and looks forward to working with you in the future. Please call any time, day or night, when you need us.

NDE Customer Service Representative

F. MILLER

Reviewed by:

Benjamin Alicea

Testing conducted by

J. CONGER

Technician certification no.:

93-1116

Test Date: 5 Jan 1993 Work Order#: 960712

TANK TESTING DATA

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Product:	SU 2000	SR 2000	RU 2000			
True Capacity-gal:	10,000	10,000	10,000			
Manifolded tanks:	NO	NO	NO			
Manifolded Vents:	NO	NO	NO			
Tank Bottom to top of fill-in:	150	149	146			
Fill pipe length-in:	51	50	47			
Tank diameter-in:	99	99	99			
Tank Bottom to top of grade-in:	154	155	151			
Fill pipe diameter-in	4	4	4			
Fluid Level-in:	57.00	67.00	55.00			
Fluid Volume-gal:	6,509	7,795	6,241			
Water in tank-in:	0	0	0			
Specific Gravity:	0.755	0.748	0.740			
Tank Construction:	FIBERGLAS	FIBERGLA	FIBERGLA			
OFT/UFT:	UFT	UFT	UFT			
No. thermistor:	5	5	5			
Ground Water level-in	63	63	63			
How determined:	WELL	WELL	WELL			
Test start time: Test finish time:	23:49 02:16	23:52 02:30	18:45 22:43	: :	: :	: :
Total temperature change (degrees F):	0.061	0.069	0.142			
Total fluid level change (inches):	0.000	0.000	0.000			
Leak Rate (GPH):	0.033	0.043	0.036			
Pass/Fail:	PASS	PASS	PASS			

Test Date: 5 Jan 1993 Work Order#: 960712

ULLAGE TESTING DATA

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Product:	SU 2000	SR 2000	RU 2000			
True Capacity-gal:	10,000	10,000	10,000			
Ullage volume-gal:	3,491	2,205	3,759			
Fluid pressure on tank bottom(psi):	-0.93	-0.68	-0.88			
Ullage test pressure:	4	4	4			
Stabilization time:	18	11	19			
Fill start time:	02:40	02:40	23:03	:	:	:
Time to 1 PSI:	5	3	3			
Time to test pressure:	14	12	11			
Start time - test 1:	03:13	03:04	23:34	:	:	:
Nitrogen flow (cfh):	0.20	0.20	0.20			
Ullage temperature-F:	59.4	57.8	60.9			
Finish time - test 1:	03:23	03:14	23:44	:	:	:
Nitrogen flow (cfh):	1.00	0.70	0.80			
Start time - test 2:	03:24	03:15	23:45	:	:	:
Nitrogen flow (cfh):	0.20	0.20	0.20			
Ullage temperature:	59.5	57.7	60.9			
Finish time - test 2:	03:34	03:25	23:55	:	:	:
Nitrogen flow (cfh):	0.20	0.00	0.20			
Start time - test 3:	03:35	03:26	23:56	:	:	:
Nitrogen flow (cfh):	0.20	0.20	0.20			
Ullage temperature-F:	59.5	57.8	60.9			
Finish time - test 3:	03:45	03:36	00:06	:	:	:
Nitrogen Flow (cfh):	0.20	0.00	0.00			
Pass/Fail:	PASS	PASS	PASS			

ULLAGE TEST COMMENTS:

NOTE: [2 consecutive test @ < 0.275 constitute a PASS] [3 consecutive test @ > 0.275 constitute a FAIL]

Test Date: 5 Jan 1993 Work Order#: 960712

LINE TEST DATA

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Product:	SU 2000	SR 2000	RU 2000			
Pump type:	PRESS	PRESS	PRESS			
Pump Make:	REDJACKET	REDJACKET	REDJACKET			
Isolator:	BULLET	BULLET	BULLET			
Line Material:	FIBERGLAS	FIBERGLAS	FIBERGLAS			
Line Length (ft):						
Line Diameter(in):	2	2	2			
Test pressure(psi)	50	50	50			
Bleed Back (cc):	105	110	110			
Test start time:	20:11	22:45	21:35	:	:	:
Time (1):	20:21	22:55	21:45	:	:	:
Finish PSI:	50	50	50			
Vol Change (cc):	0	0	0			
Time (2):	20:31	23:05	21:55	:	:	:
Finish PSI:	50	50	50			
Vol Change (cc):	0	0	0			
Time (3):	20:41	23:15	22:05	:	:	:
Finish PSI:	50	50	50			
Vol Change (cc):	0	0	0			
Volume change-GPH:	0.000	0.000	0.000			
Pass/Fail:	PASS	PASS	PASS			

LINE TEST COMMENTS:

Test Date: 5 Jan 1993 Work Order#: 960712

LEAK DETECTOR DATA

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Serial number:	1	2	3			
Product:	SU 2000	SR 2000	RU 2000			
Leak Detector manufacturer:	REDJACKET	REDJACKET	REDJACKET			
Leak detector model:	116-030	116-017	116-036			
Leak detector serial number:	412895441	303866498	404920013			
Open time - sec:	2	2	3			
Element holding-psi:	12	15	15			
Resiliency - cc:	275	110	115			
Leak calibration-cc:	180	180	180			
Leak Rate - GPH:	2.86	2.86	2.86			
Metering PSI:	10	10	10			
Detected Leak (Y/N):	YES	YES	YES			
Pass/Fail:	PASS	PASS	PASS			

FAILED LEAK DETECTORS

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Leak Detector manufacturer:						
Leak detector model:						
Leak detector serial number:						
Leak Rate - GPH:						
Pass/Fail:						

LEAK DETECTOR TEST COMMENTS:

Test Date: 5 Jan 1993 Work Order#: 960712

COMMENTS

SITE CONDITIONS, NECESSARY REPAIRS:

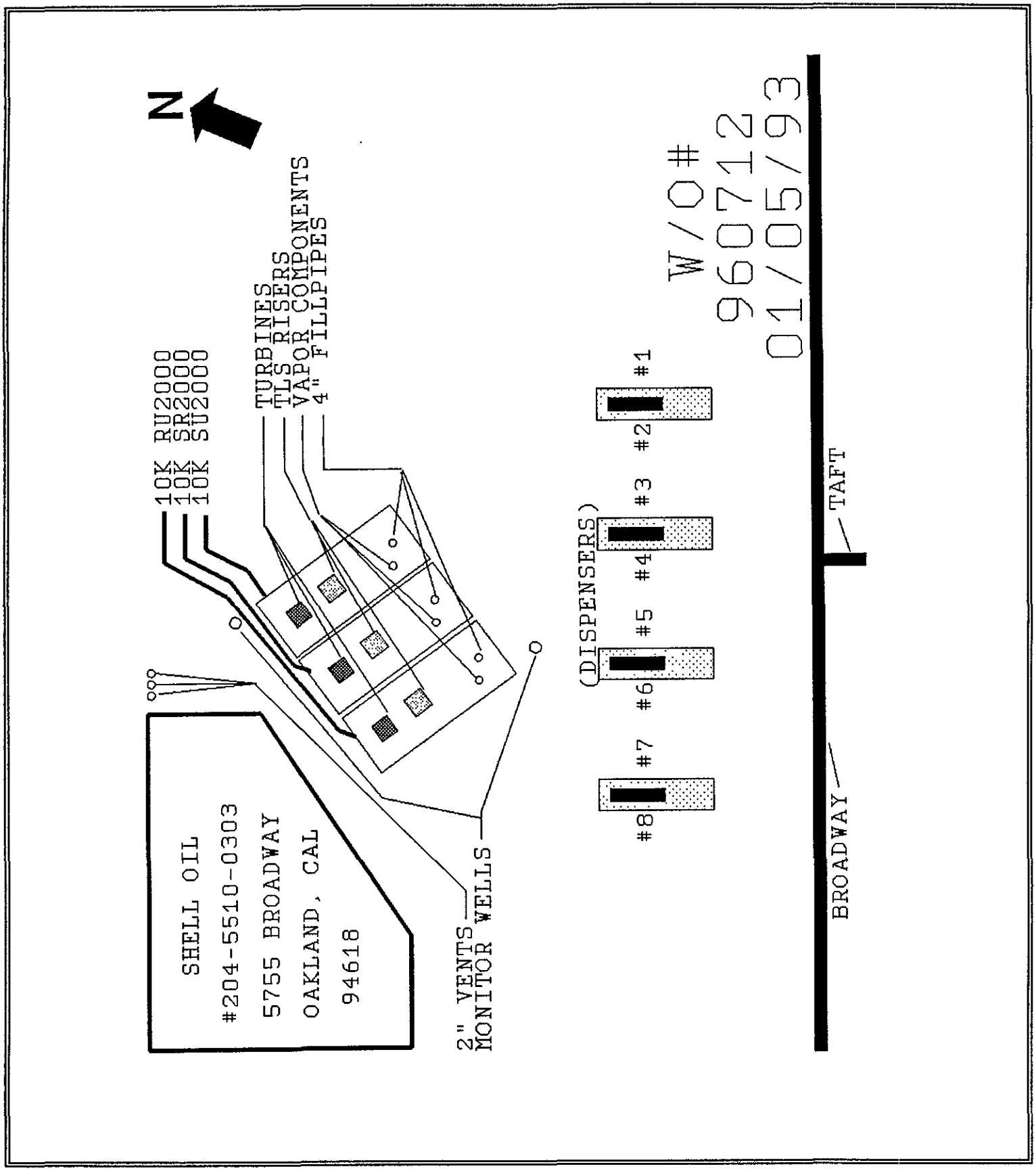
ADDITIONAL WORK PERFORMED:

PARTS/EQUIPMENT PROVIDED:

Was lock-out/tag-out procedure used?: **YES**
Was location fully operational upon leaving site?: **YES**
Was a visual inspection of all submersible pumps, leak detectors, dispensers, etc. conducted while on-site?: **YES**
Was station manager or attendant present during final inspection?: **YES**

Test Date: 5 Jan 1993 **Work Order#:** 960712

SITE DIAGRAM



SHELL OIL COMPANY - CERTIFICATION OF FILL TUBES & INSPECTION OF SPILL BOXES

WO#: 960712 Staion WIC Number: 204-5510-0303 Distict:

Station Address: 5755 BROADWAY

City: OAKLAND State: CA Zip: 94618

Purpose of Vist: TANK TEST

SPILL BOXES			
Product	Type	Condition	Drain Operational?
SU	: OPW	: GOOD	Yes: X No:
RU	: OPW	: GOOD	Yes: X No:
REG	: OPW	: GOOD	Yes: X No:
:	:	:	Yes: No:
DSL	:	:	Yes: No:

FILL TUBES					
Product	Distance From Tank Bottom	Overfill		Condition of Overfill Flapper	Stick Shield Present?
		Installed?	Type		
SU	: 6 inches	:	:	: N/A	Yes: No: X
RU	: 6.5 inches	:	:	: N/A	Yes: No: X
REG	: 5 inches	:	:	: N/A	Yes: No: X
:	: inches	:	:	:	Yes: No:
DSL	: inches	:	:	:	Yes: No:

* ARE PRODUCT IDENTIFICATION TAGS/COLLARS INSTALLED? Yes: X No:

ADDITIONAL REMARKS:

:

:

:

CERTIFICATION OF UNDERGROUND STORAGE TANK MONITORING SYSTEM

SYSTEM PROFILE

Tank Material Steel: : X Fiberglass

Line Material Steel: : X Fiberglass

Product Tanks Single Wall: : X Double Wall

Product Lines Single Wall: X : Double Wall

Waste Oil Tank Single Wall: : Double Wall : None

PRODUCT TANK MONITORING SYSTEM

QTY TYPE

: X Interstitial Monitor : X Wet : Dry

: Electronic Tank Level Monitor (X76-ETM)

: Vadose Zone Monitor

: Fill/Vapor Recovery Risers

: Monitored Visually (Daily Inventory)

Manufaturer : API Reservoir : API IR(VADOSE) : X Other

: API MOS(VADOSE) : Geneico : Leakalert

: OC reservoir : Pollualert : Red Jacket

: Soil Sentry : Spearhead : API X76-ETM

Model(s): OWENS CORNING

Arriving Status	:	X Operational	:	Non-operational
Corrective Action	:	Performed	:	Required
Departing Status	:	X Operational	:	Non-operational

Remarks:
:

PRODUCT LINE MONITORING SYSTEM

QTY	TYPE
:	Electronic Line Pressure Monitor w/Mech. Leak Detector
:	Electronic Line Pressure Monitor w/o Mech. Leak Dector
:	Interstitial Monitor w/ Mech. Leak Detector
: X	Mechanical Leak Detector Alone

Electronic Line Pressure or Interstitial Monitor Manufacturer

: API Pressure	:	API SUMP	:	Other:

Model:

Arriving Status	:	Operational	:	Non-operational
Corrective Action	:	Performed	:	Required
Departing Status	:	Operational	:	Non-operational

Mechanical Leak Detoctor Manufacturer

RJ Slow Flow	:	Round Diaphragm	:2X	Hex Diaphragm
RJ Shut Off	:1X	PLD Piston	:	XLP Piston
Vaporless LD 2000	:	Piston	:	Other:

Model:

Arriving Status	: X	Operational	:	Non-operational
Corrective Action	:	Performed	:	Required
Departing Status	: X	Operational	:	Non-operational

Remarks:
:

Waste Oil Tank Monitoring System

QTY	TYPE			
:	Visually Monitored (Daily Inventory)			
:	Site Well Vapor Probes			
:	Insterstitial Monitor	:	Wet	: Dry
:	Sump			

Manufacturer

: API	:	Leakalert	:	Other:
: OC Reservoir	:	Pollualert		

Model:

Arriving Status	:	Operational	:	Non-operational
Corrective Action	:	Performed	:	Required
Departing Status	:	Operational	:	Non-operational

Remarks:
:

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

NAME: JEFF CONGER DATE: 5 Jan 1993
NDE ENVIRONMENTAL CORP.

Impact Valve Report

Please answer Yes or No to the following

Dispenser Number	Product	Lever Functions	Correct Height	Base Anchored	Seal Internally
1	SU	Y	Y	Y	Y
1	RU	Y	Y	Y	Y
1	SR	Y	Y	Y	Y
2	SU	Y	Y	Y	Y
2	RU	Y	Y	Y	Y
2	SR	Y	Y	Y	Y
3	SU	Y	Y	Y	Y
3	RU	Y	Y	Y	Y
3	SR	Y	Y	Y	Y
4	SU	Y	Y	Y	Y
4	RU	Y	Y	Y	Y
4	SR	Y	Y	Y	Y
5	SU	Y	Y	Y	Y

Impact Valve Report

Please answer Yes or No to the following

Dispenser Number	Product	Lever Functions	Correct Height	Base Anchored	Seal Internally
5	RU	Y	Y	Y	Y
5	SR	Y	Y	Y	Y
6	SU	Y	Y	Y	Y
6	RU	Y	Y	Y	Y
6	SR	Y	Y	Y	Y
7	SU	Y	Y	Y	Y
7	RU	Y	Y	Y	Y
7	SR	Y	Y	Y	Y
8	SU	Y	Y	Y	Y
8	RU	Y	Y	Y	Y
8	SR	Y	Y	Y	Y