contamination at the WATSON CENTER and/or whether such excavation was undertaken to ascertain if any pipelines beneath the WATSON CENTER were leaking.

# **RESPONSE TO SPECIAL INTERROGATORY NO. 17:**

Carson Plant #7 line – maintenance work was performed on the line which included repairs and replacement on the lines; Iso-Butane – pipe replacement was made on the line and a connection was made to Carson Plant #8 line; installed new lines between Carson Plant and Unocal/Tosco Refinery; potholing was conducted to determine elevation on the line.

# SPECIAL INTERROGATORY NO. 18:

Has SHELL ever transported petroleum or petroleum products of any kind through any of its pipelines that are or ever have been located within the WATSON CENTER?

# **RESPONSE TO SPECIAL INTERROGATORY NO. 18:**

Yes.

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# **SPECIAL INTERROGATORY NO. 19:**

If SHELL has ever transported petroleum or petroleum products of any kind through any of its pipelines that are or ever have been located within the WATSON CENTER, describe in detail each such product, including, but not limited to, common names used to describe such products (e.g., crude oil, gasoline, condensate, jet fuel, fuel oil, bunker fuel, etc.), the range within the carbon chain for such products (e.g., C1-C6, C12-C30, etc.) and trade names.

# 22 RESPONSE TO SPECIAL INTERROGATORY NO. 19:

Crude oil, cc feed, coker gas oil, cat gas oil, diesel base, jet distillate, platformer feed, jet, diesel, regular and premium gasoline, mid-grade gasoline, platformate, alkylate, light and heavy cat gasoline, mtbe, solvents, clarified oil, flasher feed, sour #20, low sulfur cat feed, normal butane, Iso-butane, mixed butane, straight run gasoline, light coker gas oil C3C4 olefins, aviation gasoline, leaded gasoline (regular,

premium, mid-grade), #6 fuel oil, hydrogen.

# **SPECIAL INTERROGATORY NO. 20:**

If SHELL has ever-transported-petroleum-or-petroleum-products-of any kind through any of its pipelines that are or ever have been located within the WATSON CENTER, state the time period(s) during which each pipeline transported each such product.

# **RESPONSE TO SPECIAL INTERROGATORY NO. 20:**

Subsequent to the construction of the Wilmington and Dominguez refineries; 8 specific time periods are unknown. 9

### **SPECIAL INTERROGATORY NO. 21:** 10

If SHELL ever transported petroleum or petroleum products of any kind 11 through any of its pipelines that are or ever have been located within the WATSON 12 CENTER which were refined petroleum products, state the name, street address, city 13 and state of the facility at which such products were or are refined. 14

# **RESPONSE TO SPECIAL INTERROGATORY NO. 21:**

Shell Oil Company (Dominguez Site), 20945 Wilmington Avenue, Carson, CA 16 90810; Shell Oil Company (Wilmington Site), 1622 Sepulveda Blvd., Carson, CA 90810. 18

### **SPECIAL INTERROGATORY NO. 22:** 19

Has SHELL ever transported any substance other than petroleum or petroleum 20 products through any of its pipelines that are or ever have been located within the 21 WATSON CENTER? 22

### **RESPONSE TO SPECIAL INTERROGATORY NO. 22:** 23

### Yes. 24

### **SPECIAL INTERROGATORY NO. 23:** 25

If SHELL has ever transported any substance other than petroleum or petroleum 26 products through any of its pipelines that are or ever have been located within the 27

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WATSON CENTER, describe in detail each such substance including, but not limited to, common names, trade names and scientific names.

# RESPONSE TO SPECIAL INTERROGATORY NO. 23:

Sour water was pumped between the two locations on the #1 and #6 lines. Fuel 4 gas was transported between the two locations on the #2 line. 5

# SPECIAL INTERROGATORY NO. 24:

If SHELL has ever transported any substance other than petroleum or petroleum 7 products through any of its pipelines that are or ever have been located within the 8 WATSON CENTER, state the name, street address, city and state of the facility at which each such substance was manufactured, created or processed prior to being 10 placed in such pipeline(s). П

### **RESPONSE TO SPECIAL INTERROGATORY NO. 24:** 12

Shell Oil Company (Dominguez Site), 20945 Wilmington Avenue, Carson, CA 13 90810; Shell Oil Company (Wilmington Site), 1622 Sepulveda Blvd., Carson, CA 14 90810. 15

### **SPECIAL INTERROGATORY NO. 25:** 16

If SHELL has ever transported any substance other than petroleum or petroleum 17 products through any of its pipelines that are or ever have been located within the 18 WATSON CENTER, state the time period(s) during which each pipeline transported 19 each such product. 20

### **RESPONSE TO SPECIAL INTERROGATORY NO. 25:** 21

Subsequent to the construction of the Wilmington and Dominguez refineries; 22 specific time periods are unknown. 23

### SPECIAL INTERROGATORY NO. 26: 24

Did SHELL ever install any type of leak detection device with respect to any of 25 the pipelines that it ever installed within the WATSON CENTER? 26

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# RESPONSE TO SPECIAL INTERROGATORY NO. 26:

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# **SPECIAL INTERROGATORY NO. 27:**

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER, IDENTIFY the pipeline(s) for which each such device was installed.

# <u>RESPONSE TO SPECIAL INTERROGATORY NO. 27:</u>

SHELL responds that its leak detection system is currently being utilized on the following operating pipelines: inter-refinery line #s 01 through 16, 18, 19 and 20; DEA Fat and DEA Lean; the sour water line had turbine meters installed.

# SPECIAL INTERROGATORY NO. 28:

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER, state the date that each such device was installed.

# **RESPONSE TO SPECIAL INTERROGATORY NO. 28:**

All of the devices were installed in or about 1982.

# SPECIAL INTERROGATORY NO. 29:

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER, describe the device(s) installed by manufacturer, model name, model number and serial number.

# 21 RESPONSE TO SPECIAL INTERROGATORY NO. 29:

Controllotron Model 480 Sonic Flow Meters; Rossmount 1151PG8 pressure
 transmitters; and Systronics Supervisory system. On inter-refinery line #s 14 and 18,
 D.P. transmitters and orifice plates were used. The sour water line had turbine meters
 installed.

# 26 SPECIAL INTERROGATORY NO. 30:

If SHELL ever installed any type of leak detection device with respect to any of

the pipelines that it ever installed within the WATSON CENTER, IDENTIFY each and every PERSON who has possession or custody of any records or other DOCUMENTS produced or created with respect to the installation and operation of each such device.

# RESPONSE TO SPECIAL INTERROGATORY NO. 30:

Dave Smith, John Fortson, Wilmington Manufacturing Operations.

# SPECIAL INTERROGATORY NO. 31:

8 If SHELL ever installed any type of leak detection device with respect to any of
9 the pipelines that it ever installed within the WATSON CENTER, IDENTIFY each
10 and every PERSON who has ever had responsibility for monitoring such leak detection
11 devices on behalf of SHELL.

12 || RESPONSE TO SPECIAL INTERROGATORY NO. 31:

Wilmington Manufacturing Dispatch Center (Wilmington), Foreman and
 Operator.

15 || SPECIAL INTERROGATORY NO. 32:

If SHELL ever installed any type of leak detection device with respect to any of
 the pipelines that it ever installed within the WATSON CENTER, did any of the
 devices ever detect a leak?

19 RESPONSE TO SPECIAL INTERROGATORY NO. 32:

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21 SPECIAL INTERROGATORY NO. 33:

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER which ever detected a leak, state the date each leak was detected.

25 **RESPONSE TO SPECIAL INTERROGATORY NO. 33**:

Not applicable.

# SPECIAL INTERROGATORY NO. 34:

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER which ever detected a leak, describe the substance that leaked.

# RESPONSE TO SPECIAL INTERROGATORY NO. 34:

Not applicable.

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# SPECIAL INTERROGATORY NO. 35:

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER which ever detected a leak, state the volume of loss with respect to each such leak.

# 11 **RESPONSE TO SPECIAL INTERROGATORY NO. 35:**

Not applicable.

# 13 SPECIAL INTERROGATORY NO. 36:

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER which ever detected a leak, IDENTIFY each and every DOCUMENT that discusses, mentions or refers to, in whole or in part, each and every such leak.

# 18 **RESPONSE TO SPECIAL INTERROGATORY NO. 36:**

Not applicable.

# 20 SPECIAL INTERROGATORY NO. 37:

If SHELL ever installed any type of leak detection device with respect to any of
 the pipelines that it ever installed within the WATSON CENTER which ever detected
 a leak, IDENTIFY each and every PERSON who currently has possession or custody
 of any DOCUMENTS that in any manner concern each and every such leak.

# 25 RESPONSE TO SPECIAL INTERROGATORY NO. 37:

Not applicable.

# **SPECIAL INTERROGATORY NO. 38:**

If SHELL ever installed any type of leak detection device with respect to any of the pipelines that it ever installed within the WATSON CENTER which ever detected a leak, IDENTIFY each and every PERSON to whom such leaks were reported.

# **RESPONSE TO SPECIAL INTERROGATORY NO. 38:**

Not applicable.

### SPECIAL INTERROGATORY NO. 39: 7

If SHELL ever installed any type of leak detection device with respect to any of 8 the pipelines that it ever installed within the WATSON CENTER which ever detected 9 a leak, were any soils tests ever conducted with respect to any leak? 10

### **RESPONSE TO SPECIAL INTERROGATORY NO. 39:** 11

Not applicable.

### SPECIAL INTERROGATORY NO. 40: 13

If SHELL ever conducted any soils test with respect to any leak detected by any 14 leak detection device installed with respect to any of the pipelines that SHELL ever 15 installed within the WATSON CENTER, state the date of each such test. 16

### **RESPONSE TO SPECIAL INTERROGATORY NO. 40:** 17

Not applicable.

### SPECIAL INTERROGATORY NO. 41: 19

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If SHELL ever conducted any soils test with respect to any leak detected by any type of leak detection device installed with respect to any of the pipelines that SHELL 21 ever installed within the WATSON CENTER, state the name of each and every 22 PERSON who conducted the tests. 23

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### **RESPONSE TO SPECIAL INTERROGATORY NO. 41:** 24

Not applicable.

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If SHELL ever conducted any soils test with respect to any leak detected by any 2 type of leak detection device installed with respect to any of the pipelines that SHELL 3 ever installed within the WATSON CENTER, IDENTIFY each and every PERSON 4 who currently has possession or custody of any DOCUMENTS that discuss, mention 5 or refer to, in whole or in part, such tests. 6

**RESPONSE TO SPECIAL INTERROGATORY NO. 42:** 

Not applicable.

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# SPECIAL INTERROGATORY NO. 43:

Has SHELL ever had any policy, guideline or practice with respect to the 10 circumstances under which a pipeline should be replaced?

**RESPONSE TO SPECIAL INTERROGATORY NO. 43:** 12

No. SHELL's replacement of its pipelines is based upon engineering judgment.

### SPECIAL INTERROGATORY NO. 44: 14

If SHELL has ever had any policy, guideline or practice with respect to the 15 circumstances under which a pipeline should be replaced, state each and every such 16 policy, guideline or practice in full.

### **RESPONSE TO SPECIAL INTERROGATORY NO. 44:** 18

Not applicable.

### **SPECIAL INTERROGATORY NO. 45:** 20

IDENTIFY each and every DOCUMENT which constitutes or describes any 21 policy, guideline or practice of SHELL with respect to the circumstances under which 22 a pipeline should be replaced. 23

**RESPONSE TO SPECIAL INTERROGATORY NO. 45:** 24

Not applicable.

### SPECIAL INTERROGATORY NO. 46: 26

Has SHELL ever had any policy, guideline or practice with respect to steps that

should be taken to detect leaks in its pipelines?

# **RESPONSE TO SPECIAL INTERROGATORY NO. 46:**

SHELL's normal practice of testing for leaks is performed on a more frequent basis than is required by industry standards since implementation of the requirements set by the California Safety Act.

SPECIAL INTERROGATORY NO. 47: 6

If SHELL has ever had any policy, guideline or practice with respect to steps 7 that should be taken to detect leaks in its pipelines, state each and every such policy, guideline or practice in full.

### **RESPONSE TO SPECIAL INTERROGATORY NO. 47:** 10

See response to no. 46, above.

**SPECIAL INTERROGATORY NO. 48:** 12

IDENTIFY each and every DOCUMENT which constitutes or describes any 13 policy, guideline or practice of SHELL with respect to steps that should be taken to 14 detect leaks in its pipelines. 15

### **RESPONSE TO SPECIAL INTERROGATORY NO. 48:** 16

SHELL responds that it is producing all relevant documents in its files in 17 response to plaintiff's first and second demand for production of documents. Any and 18 all information falling within the parameters of this interrogatory is readily 19 ascertainable in SHELL's Pipeline Inspection and Maintenance Manual which is 20 contained in SHELL's production of documents. 21

### **SPECIAL INTERROGATORY NO. 49:** 22

If SHELL has ever had any policy, guideline or practice with respect to steps 23 that should be taken to detect leaks in its pipelines, was that policy, guideline or 24 practice applied to any SHELL pipeline ever installed within the WATSON CENTER? 25

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# RESPONSE TO SPECIAL INTERROGATORY NO. 49:

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# SPECIAL INTERROGATORY NO. 50:

If SHELL has ever applied any policy, guideline or practice with respect to steps that should be taken to detect leaks in any SHELL pipeline ever installed within the WATSON CENTER, IDENTIFY each and every PERSON with knowledge of such application.

# RESPONSE TO SPECIAL INTERROGATORY NO. 50:

Roger Underwood, Manager, Shell Pipe Line; Chuck Paine, Remediation
Manager, Shell Oil Products Company.

# 11 SPECIAL INTERROGATORY NO. 51:

If SHELL has ever applied any policy, guideline or practice with respect to steps that should be taken to detect leaks in any SHELL pipeline ever installed within the WATSON CENTER, IDENTIFY each and every DOCUMENT that discusses, mentions, or refers to, in whole or in part, any such application.

**RESPONSE TO SPECIAL INTERROGATORY NO. 51:** 

None.

19 **DATED:** May 15, 1997

# LAW OFFICES OF DAVID J. EARLE

DAVID J. EARLE Attorneys for Defendant SHELL OIL COMPANY

# ORIGINAL VERIFICATION TO FOLLOW

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# VERIFICATION

# STATE OF CALIFORNIA, COUNTY OF LOS ANGELES

I have reviewed the foregoing SHELL OIL COMPANY'S RESPONSE TO PLAINTIFF AND CROSS-DEFENDANT WATSON LAND COMPANY'S FIRST SET OF SPECIAL INTERROGATORIES and know its contents.

# CHECK APPLICABLE PARAGRAPH

 $\Box$  I am a party to this action. The matters stated in the foregoing document are true of my own knowledge except as to those matters which are stated on information and belief, and as to those matters, I believe them to be true.

**XX** I am  $\Box$  an Officer  $\Box$  a partner <u>XX</u> an agent of defendant SHELL OIL COMPANY, a party to this action, and an authorized to make this verification for and on its behalf, and I make this verification for that reason. **XX** I am informed and believed and on that ground allege that the matters stated in the foregoing document are true.  $\Box$  The matters stated in the foregoing document are true of my own knowledge except as to those matters which are stated on information and belief, and as to those matters I believe them to be true.

☐ I am one of the attorneys for \_\_\_\_\_\_ A party to this action. Such party is absent from the county of aforesaid where such attorneys have their offices, and I make this verification for and on behalf of that party for that reason. I am informed and believe and on that ground allege that the matters stated in the foregoing document are true.

Executed on May 15, 1997 at Carson, California.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

# PROOF OF SERVICE

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I am employed in the County of Los Angeles, State of California. I am over the age of 18 and not a party to the within action; my business address is 138 North Brand Blvd., Suite 303, Glendale, CA 91203.

On May 15, 1997, I served the foregoing document described as SHELL OIL COMPANY'S RESPONSE TO PLAINTIFF AND CROSS-DEFENDANT WATSON LAND COMPANY'S FIRST SET OF SPECIAL INTERROGATORIES on the interested parties in this action by placing a true copy thereto enclosed in a sealed envelope addressed as follows:

# SEE ATTACHED SERVICE LIST

I caused such envelope to be deposited in the mail at Glendale, California.

The envelope was mailed with postage thereon fully prepaid.

I am "readily familiar" with the firm's practice of collection and processing correspondence for mailing. It is deposited with U.S. postal service on that same day in the ordinary course of business. I am aware that on motion of party served, service is presumed invalid of postal cancellation date or postage meter date is more than 1 day after date of deposit for mailing affidavit.

Executed on May 15, 1997, at Glendale, California.

I declare under penalty of perjury under the laws of the State of California that the above is true and correct.

19

sall Galt

Sarah C. Galt

James S. Bright BRIGHT AND BROWN 550 North Brand Blvd., suite 2100 Glendale, CA 91203-1414 (818) 243-2121 fax (213) 489-1414

Jeffrey R. Witham, Esq. DEWEY BALLANTINE 333 S. Hope St., 30th Flr. Los Angeles, CA 90071-1406 (213) 626-3399 Fax No. (213) 625-0562

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Attomeys for Plaintiffs

Attorneys for Texaco Refining and Marketing, Inc., TRMI holdings, Inc., Mohawk Petroleum Corporation, Mohawk Energy, Inc., and Getty Refining and Marketing Company

Attorneys for Atlantic Richfield Company

Atlantic Richfield Company

Attorneys for George Pearson dba G&M Oil Company, Inc.

G&M Oil Company

Monsanto Chemical Company

28

Edward E. Wallace, Esq. WILNER, KLEIN & SIEGEL 9601 Wilshire Blvd., Ste. 700 Beverly Hills, CA 90210-8631 (213) 272-8631 Fax No. (213) 272-4339

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Charles E. Shelton, Esq. McCutchen, Doyle, Brown, Emerson, LLP 355 South Grand Ave., Ste. 4400 Los Angeles, CA 90071-1560

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-2-

Attorneys for Unocal Corporation and Unocal Oil Company of California dba UNOCAL.

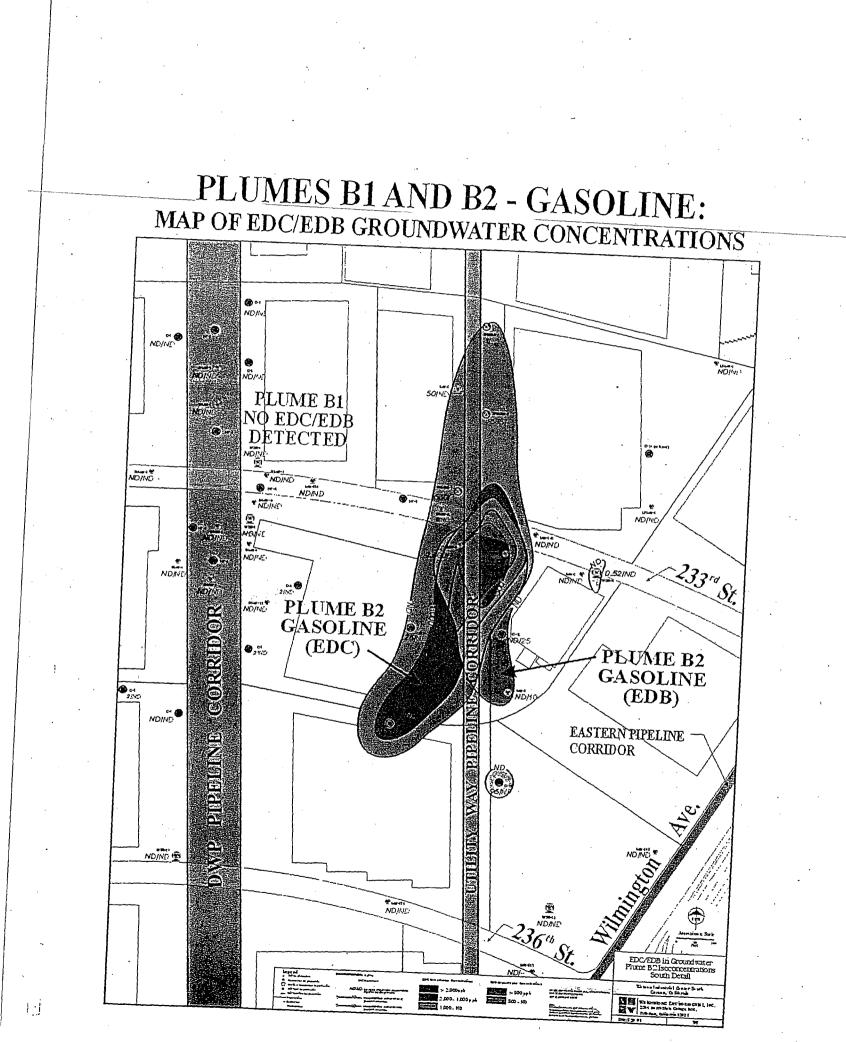
Stauffer Management Co. and Rhone-Poulenc Basic Chemicals Co.

Remediation Capital Corp.

Attorneys for Mobil Oil Corporation

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EXHIBIT P				
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# EXHIBIT Q

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# SHELL OIL COMPANY

ONE SHELL PLAZA P.O. BOX 2463 HOUSTON, TEXAS 77001

May 11, 1979

Administrator, Environmental Protection Agency Attention Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

Gentlemen:

In accordance with the regulations applicable to registration of fuel additives and your letter of November 30, 1978, we are submitting the completed forms for the motor vehicle gasoline for the 1st quarter of 1979.

We have updated the brand names of our motor gasolines covered in this report. Also, refer to our letter of March 23, 1979 registering DIPE as a component. Correct the name to Diisopropyl Ether (DIPE).

Please feel free to contact us if you have any questions concerning the information provided.

Yours very truly

illiams

H. H. Williams, Manager Quality Assurance -Logistics - Operations

AMV:db

Enclosures

•		FUEL MANUFACTURER QUA FOR MOTOR VEHICLE	GASOLINE	RT	FORM APPROVED Office of Management and Budget No. 158-R0135
·· 1.		SHELL OIL COMPANY		<b>_</b> _	LEAVE BLANK
2.		P. O. BOX 2463		<u>}</u>	Euel-ID-No.
	······································	HOUSTON, TEXAS 77001		<u> </u>	FUEI_IU_NO
3.	Period of this report (ch	eck one and fill in year):	÷ .		,
	X (a) January through	March 1979 (c) J	uly through Septen	nber	· .
-		year		year	
·	(b) April through Ju	ne(d) (	ctober through De	icember	
		year		year	
4.	Designated motor vahic	e gasoline covered by this report (check one	}:		
	{a} Unleaded	X (b) Leaded, premium	(c)	Leaded, non-p	remium
5.	Brand namelal of motor	vehicle gasoline covered by this report (list)	•		
	uper Shell; Prem	ium Grade Casoline (Unbran	ded); Specif	fication G	asoline - Premiu
7 6.		nth period of the gasoline covered by this re			
	•	•			ui.
7.	Additives previously rep	orted for use in the gasoline covered by this	report:		
		(a) Commercial			ntration, mg/liter
·	Leave Blank	Name of Additive	(b) Highest	(c) Lowes	d) Average
		DuPont Oil Red B Liquid	5.30	2.87	4.12
	· · · · · · · · · · · · · · · · · · ·	Ethyl Automate Liquid		1	
		Dye-Red B	0	0	0
	• · · · ·	Ethyl Automate Liquid	. · · ·	_	
		Dye-Red G	0	<u> </u>	0.
	a series and a series of the s	Ethyl Liqui-Di Red B	0	0	0 -
<del>-</del>	<u> </u>			<u> </u>	
		Morton Automate Red B	0	0	0
	·	Calco Oil Red Y Liquid	0	0	0
		DuPont Tel Motor			0
		Antiknock Red-01	0	0.	0
	•	DuPont "Tetramix"			
	, 	25 Antiknock Red-01	0	0	0
	•	DuPont "Tetramix" 50 Antiknock Red-01	825.59	0.	291.69
		DuPont "Tetramix"	023.33		
		75 Antiknock Red-01	o	0	0
		DuPont "Tetramix" 50	[	<u>+</u>	
<u>.</u>		Antiknock Orange-62	0	• 0 •	. 0
		Ethyl Antiknock Compound-MI			
		500 Motor Mix (White No. 1)		0	20.95
		Ethyl Antiknock Compound-TE	t. T		
<b>_</b>		Motor Mix (White No. 1)	0	0	0

EPA(DUR)368 (Rev. 11-77)

(List Additional Additives on Reverse)

s 001239

	(a) Commercial	Range of Additive Concentration, mg/liter		
Leave Blank	Name of Additive	(b) Highest	(c) Lowest	(d) Average
	Ethyl MLA 750 Motor Mix	1570.31	0	476.28
	Nalkyl ME-50-1 Motor Mix	00	0	0
÷	Nalkyl ME-75-1 Motor Mix	0	· 0	0
	HCC Antiknock Compound-MAF-50R-TR	1608.53	0	226.06
	HCC Antiknock Compound-TEF Motor Mix-TR	1376.86	0	46.38
	HCC Antiknock Compound-TEF Motor Mix-TRA	0	0	0

8. This report is required by law (42 U.S.C. 7545 and 7501, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available, to the public by EPA without lurther notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any?

(question numbers)

\$001240

6,

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct,

Shell Company Signed for \_ by its authorized agent Jilliams Manager Logistics -Quality Assurance Title . May 11, 1979 Date

### INSTRUCTIONS

Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA (DUR) 367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

# Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

Form 2 of 3 FUEL MANUFACTURER QUARTERLY REPORT FORM APPROVED Office of Management FOR-MOTOR VEHICLE GASOLINE and Budget No. 158-R0135 SHELL OIL COMPANY LEAVEBLANK 1. Fuel Manufacturer: P. O. BOX 2463 2 Address: \_ Fuel ID No. HOUSTON, TEXAS 77.001 Period of this report (check one and fill in year): 3. \_ (c) July through September\_ X. (a) January through March 1979 vear Year \_(b) April through June (d) October through December vear YEB Designated motor vehicle gasoline covered by this report (check one): 4 X (b) Leaded, premium \_(c) Leaded, non-premium (a) Unleaded Brand name(s) of motor vehicle gasoline covered by this report (list): 5. Super Shell; Premium Grade Gasoline (Unbranded); Specification Gasoline-Premium Grade 275,562,000 Production in this 3-month period of the gasoline covered by this report: gal. 6. 7. Additives previously reported for use in the pasoline covered by this report: Range of Additive Concentration, mg/liter (a) Commercial Leave Blank Name of Additive (b) Highest (c) Lowest (d) Average HCC Antiknock Compound-MAF 0 Ø 0 Motor Mix-50R-TRA 121.51 0 1.153.67 PPG MAF 25 R Antiknock 0 1.97 18.68 Ethyl MMT 0 113.48. 145.00 Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion 0 0 0 Preventive "Tolad" 318 Fuel Emulsion 0 0 · 0 Preventive "Tolad" 326 Fuel Emulsion 0.82 0 7.20 Preventive. Nalco 5 RD-650 2.52 7.20 0. Fuel Emulsion Prevencive 0 . 0 Ω Hexylene Glycol 1.43 8.59 0 Ethyl Antioxidant 733 0 0 Ethyl Antioxidant 733-MDA-67 0 Ethyl Antioxidant 733 -0.10 2.84 0 Toluene 60 Ethyl Antioxidant 733 -0 0 0 Toluene 80

(List Additional Additives on Reverse)

EPA(DUR)368 (Rev. 11-77)

\$ 001241

	t (a) Commercial	Range of Addi	tive Concentration	. ma/liter
Leave Blank	Name of Additive	(b) Highest	(c) Lowest	(d) Avarage
	Ethyl Antioxidant 733 - Toluene 90	0	0	0
	Ethyl Antioxidant PDA	0	0	· 0
· · · · · · · · · · · · · · · · · · ·	Pitt Consol M-56	3.33	0	0.41
	DuPont Antioxidant A0-22	0	0	0
	DuPont Antioxidant A0-23	4.08	0	0.90
	DuPont Antioxidant A0-31	. 0	0	0

8. This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any? \_\_\_\_\_6, 7 \_\_\_\_\_(question numbers)

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

Shell 011 Sinned for its authorized agent Manager Williams .c.s 1979

s 001242

### INSTRUCTIONS

### Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

### Method of Submission\_

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park; North Carolina 27711

### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification,

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

EPA(DUR)368 (Rev. 11-77)

Form 3 of 3

	FUEL MANUFACTURER QUAI FOR MOTOR VEHICLE	ATERLY.REPOI GASOLINE	ЗТ 	FORM APPROVED Office of Management and Budget No. 158-RD135
	P. O. BOX 2463		······	LEAVE BLANK
2. Address:	HOUSTON, TEXAS 77001			Fuel-ID-No.
	· · · · · · · · · · · · · · · · · · ·		( <u>`</u>	
· ,	(check one and fill in year):			
X (a) January three	Jgh March <u>1979</u> (c) Ju year	Jy through Septem	beryear	-
	June{0} 0	ctober through Dec	ember	
· · · .	Year	•	year	
<ol> <li>Designated motor ve</li> </ol>	hicle gasoline covered by this report (check one)	12	· · ·	
(a) Unleaded	(b) Leaded, premium		Leaded, non-pri	emium
5. Brand name(s) of mo	otor vehicle gasokine covered by this report (list); emium Grade Gasoline (Unbrandec	); Specifica	tion Gas.	Line-Premium
	month period of the gasoline covered by this rep			
•	reported for use in the gasoline covered by this		¥a	
7. Additives previously	,			·····
Leave Blank	(a) Commercial Name of Additive	(b) Highest	(c) Lowest	tration, mg/liter (d) Average
	DuPont Antioxidant A0-33	0 · ·	·. 0	0
·	UOP No. 5-S Antioxidant	1.17	0	0.13
	Ethyl Metal Deactivator MDA-50	0	• 0	0
	Ethyl Metal Deactivator MDA-80	0	0	0 -
	DuPont Metal Deactivator (DMD)	0	0	0
	DuPont Metal Deactivator 50	0	0	0
	DuPont Metal Deactivator 75	0	0	0
	Cardinal Metal Deactivator CDA-50	0.	0	0
	Nalco 5403	4.43	0	0.55
	ROKON	0	0	0
	Methyl Tertiary Butyl Ether (MTBE)	0	. 0	0
	Tertiary Butyl Alcohol (TBA	) 0	0	0
	Diisopropyl Ether (DIPE)	0.16%	0 V	0.05%V

EPA(DUR)368 (Rev. 11-77)

(List Additional Additives on Reverse)

\$ 001243

:

# FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued) [a] Commercial Range of Additive Concentration, mg/liter Leave Blank Name of Additive [b] Highes\* [c] Lowest [c] [d] Average

8. This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any? \_\_\_\_\_6, 7\_\_\_\_\_(question numbers)

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

Shell Oil Company Signed for by its authorized agent mag Title Logistics -Quality Assurance 1979 May 11. Date

\$001244

### INSTRUCTIONS

Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a tuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

•				Form 1	. of 2
	• • •	FUEL MANUFACTURER QUAF FOR MOTOR VEHICLE C	SASOLINE	RT	FORM APPROVED Office of Management and Budget No. 158-R0135
1.	Fuel Manufacturer:	SHELL OIL COMPANY		「	LEAVE BLANK
2.	Address:	P. O. BOX 2463			
	· · · · · · · · · · · · · · · · · · ·	HOUSTON, TEXAS 77001			Fuel-ID-No.
~	Desite of a fill and a fall	heck one and fill in year):			
3.			· · · · ·		
	X (a) January through	March 1979 (c) Ju	lly through Septem	vear	
	1. 1. a. 71 at	•	ctober through De	,	
-	(b) April through J	year(d) Of	rtoner miteilier De	year	
4.	Designated motor vehic	cle gasoline covered by this report (check one):	•		
	X_(a) Unleaded	(b) 'Leaded, premium	(c)	Leaded, non-pr	emitim
-				Leader, notr pi	
5. ch	Brand name(s) of moto	or vehicle gasoline covered by this report (list): ed Gasoline; Specification Un	leaded Gaso.	Line - Pre	mium Grade;
sn	Unleaded Premium	Grade Gasoline (Unbranded) onth period of the gasoline covered by this rep	ott: 21,420	000	•
6.	Production in this 3-me	onth period of the gasoline covered by this rep	on:	, 000 ga	A.
7.	Additives previously re	ported for use in the gasoline covered by this r	eport:		
		(a) Commercial	Range of A	Additive Concen	tration, mg/liter
-	Leave Blank	Name of Additive	(b) Highest	(c) Lowest	(d) Average
		Ethyl Automate Liquid	0	0	0
		Purple Dye DuPont Oil Liquid			
		Purple Dye	0	);.0.	. 0
			1/5 00.	·	62.30
	· · ·	Shell Code 08142 Additive	145.00	· 0	02.30
		"Tolad" 286 Fuel Emulsion Preventative	0	0	0
- <u></u>		"Tolad" 318 Fuel Emulsion		<u> </u>	
		Preventative	. 0	0΄	0
		"Tolad" 326 Fuel Emulsion			
		Preventative	7.20	0	0.46
	· · · · · · · · ·	Nalco 5RD-650 Fuel Emulsion	7 00		7 41
<b></b>		Preventative	7.20	· 0	1.41
		Hexylene Glycol	0 .	Q	0
				÷	
		Ethyl Antioxidant 733	2.42	0	1.99
				0	0
·		Ethyl Antioxidant 733-MDA-6	7 0	U U	
		Ethyl Antioxidant 733 - Toluene 60	0	0	0
			U		
	· · ·	Ethyl Antioxidant 733 - Toluene 80	0	- 0	0.
				<u> </u>	
		Ethyl Antioxidant		ł	

EPA(DUR)368 (Rev. 11-77)

(List Additional Additives on Reverse)

\$ 001245

	(a) Commercial	Range of Add	tive Concentration	, mg/liter
Leave Blank	Name of Additive	(b) Highest	(c) Lowest	(d) Average
	Ethyl Antioxidant PDA	0	0 ·	0.
:	Pitt Consol M-56	0	0	0
	DuPont Antioxidant A0-22	0,	0	0
	DuPont Antioxidant A0-23	0.	0	-0
	DuPont Antioxidant A0-31	0	0	D
	DuPont Antioxidant AO-33	0	0	0

This report is required by law (42 U.S.C. 7545 and 7601, 4D CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions I through 7 do you consider trade secret, if any?

6, 7 (question numbers)

s 001246

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

Shell Oil Company Signed for by its authorized agen Ħ. Logistics - Quality Assurance Table May 11, 1979

INSTRUCTIONS

Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

•				Fo	rm 2 of 2
		FUEL MANUFACTURER QUAN FOR MOTOR VEHICLE (			FORM APPROVED Office of Management and Budget No. 158-B0135
٤.	Fuel Manufacturer:	SHELL OIL COMPANY		[ <sup>-i</sup>	EAVEBLANK
2.	Address	P. O. BOX 2463			· · · ·
	· · · · · · · · · · · · · · · · · · ·	HOUSTON, TEXAS 77001			Fuel-ID-No.
3.	Period of this report (ch	eck one and fill in year):			
	$X_{a}$ January through 1	March <u>1979</u> (c) Ju year	ly through Septem	ber Year	
-	(b) April through Jun	year	ctober through Dec	emberyear	-
· 4_	Designated motor vehicl	e gasoline covered by this report (check one)	•	•	· · ·
-	X (a) Unleaded	(b) Leaded, premium	(c)	Leaded, non-prer	muin
5. 9 6. 7.	Shell Super Unlead Unleaded Premium Production in this 3 mon	vehicle gasoline covered by this report (list): ed Gasoline: Specification I Grade Gasoline (Unbranded) th period of the gasoline covered by this rep orted for use in the gasoline covered by this i	<u>Jnleaded Gase</u>	olíne — Pre DOOgal.	
-	•	(a) Commercial	Range of A	dditive Concentr	ation, mg/liter
	Leave Blank	Name of Additive	(b) Highess	(c) Lowest	(d) Average
		UOP No. 5-S Antioxidant	0.68	.0	· · 0.31
		Ethyl Metal Deactivator MDA-50	`0	0	0
	•	Ethyl Metal			
		Deactivator MDA-80	0	0	
		Deactivator (DDD)	0	0	0
	••• •	DuPont Metal			
·		Deactivator 50 DuPont Metal	0	0.	0
		Deactivator 75	0	0	0
-		Cardinal Metal			
		Deactivator CDA-50	0	0	0
		Nalco 5403	0	0	0
	· ·	ROKON	0	0	0 ·
		Methyl Tertiary Butyl Ether (MTBE)	0	0	0
·		Tertiary Butyl Alcohol (TB.	) 0	0	0
_		Diisopropyl Ether (DIPE)	0	0 .	0
	······································				

EPA(DUR)358 (Rev. 11-77)

(List Additional Additives on Reverse)

\$ 001247

	(a) Commercial	Range of Additive Concentration, mg/liter
Leave Blank	. Name of Additive	(b) Highest (c) Lowest (d) Average.
······		
	· · · · · · · · · · · · · · · · · · ·	
·····		

This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notica. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any?

(question numbers)

\$001248

This fuel manufacturer assures that all information submitted herewith it complete and, to the best of his knowledge, correct.

Signed for Shell Oil Company	
by its authorized approx H.H. IDULU	amo
H. H. Williams, Manar Title Logistics - Quality	ser Ssurance
Date	

### Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

INSTRUCTIONS

### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

### Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notily this office in writing.

			FORM L OF	
	FUEL MANUFACTURER QUA FOR MOTOR VEHICLE	RTERLY REPO GASOLINE	( 2	ORM APPROVED Office of Management ind Budget No. 158-R0135
Fuel Manufacturer:	SHELL OIL COMPANY	· · · · ·	•	EAVE BLANK
	P. O. BOX 2463			•
	HOUSTON, TEXAS 77001			-Fuel ID-No
	heck one and fill in year):	· · · · · · · · · · · · · · · · · · ·		
	•		. <b>L</b>	
X (a) January through	year	uly through Septem	year	
(b) April through Ju	une(d) C	ctober through Dec	cembe:	<b>_</b>
	year		year	
Designated motor vehic	le gasoline covered by this report (check one)	):	•	
X (a) Unleaded	(b) Leaded, premium	(c)	Leaded, non-prem	ររ័បកា
Brand name(s) of moto	r vehicle gasoline covered by this report (list)	:		
Shell Super Regul	ar - Unleaded; Specification	Unleaded Ga	soline - In	termediate Grad
Unleaded Intermed	late Grade Gasoline (Unbrand onth period of the gasoline covered by this rep	ed)	000 gal	
	•			_
Additives previously re	ported for use in the gasoline covered by this			
	(a) Commercial	I Range of A	dditive Concentra	ition, mg/liter
f Anna Rianta	Same at Ardeting			
Leave Blank	Name of Additive	(b) Highest	(c) Lowest	(d) Average
Leave Blank			(c) Lowest	115.08
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel	(b) Highest 145.00	0	115.08
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive	(b) Highest	0	115.08
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel	(b) Highest 145.00 0	0 1 1 0	115.08 ; ··· 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive	(b) Highest 145.00 0	0	115.08 
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel	(b) Highest 145.00 0	0 1 1 0	115.08 ; ··· 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion	(b) Highest 145.00 0 0 7.20		115.08 
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive	(b) Highest 145.00 0 7.20	0 1 1 0 0	115.08 
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion	(b) Highest 145.00 0 0 7.20		115.08 
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive	(b) Highest 145.00 0 7.20 7.20		115.08 0 0 0.84 2.55
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol	(b) Highest 145.00 0 0 7.20 7.20 0		115.08 0 0 0.84 2.55 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733	(b) Highest 145.00 0 7.20 7.20 0 3.27		115.08 0 0 0.84 2.55 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733 Ethyl Antioxidant 733 - MDA - 67 Ethyl Antioxidant	(b) Highest 145.00 0 7.20 7.20 0 3.27 0		115.08 0 0 0.84 2.55 0 1.56 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733 Ethyl Antioxidant 733 - MDA - 67 Ethyl Antioxidant 733 - Toluene 60	(b) Highest 145.00 0 7.20 7.20 0 3.27		115.08 0 0 0.84 2.55 0 1.56
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733 Ethyl Antioxidant 733 - MDA - 67 Ethyl Antioxidant 733 - Toluene 60 Ethyl Antioxidant	(b) Highest 145.00 0 7.20 7.20 0 3.27 0 0		115.08 0 0 0.84 2.55 0 1.56 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733 Ethyl Antioxidant 733 - MDA - 67 Ethyl Antioxidant 733 - Toluene 60 Ethyl Antioxidant 733 - Toluene 80	(b) Highest 145.00 0 7.20 7.20 0 3.27 0		115.08 0 0 0.84 2.55 0 1.56 0 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733 Ethyl Antioxidant 733 - MDA - 67 Ethyl Antioxidant 733 - Toluene 60 Ethyl Antioxidant	(b) Highest 145.00 0 7.20 7.20 0 3.27 0 0		115.08 0 0 0.84 2.55 0 1.56 0 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733 Ethyl Antioxidant 733 - MDA - 67 Ethyl Antioxidant 733 - Toluene 60 Ethyl Antioxidant 733 - Toluene 80 Ethyl Antioxidant	(b) Highest 145.00 0 7.20 7.20 0 3.27 0 0 0 0 0 0		115.08 0 0 0.84 2.55 0 1.56 0 0 0
Leave Blank	Shell Code 08142 Additive "Tolad" 286 Fuel Emulsion Preventive "Tolad" 318 Fuel Emulsion Preventive "Tolad" 326 Fuel Emulsion Preventive Nalco 5RD-650 Fuel Emulsion Preventive Hexylene Glycol Ethyl Antioxidant 733 Ethyl Antioxidant 733 - MDA - 67 Ethyl Antioxidant 733 - Toluene 60 Ethyl Antioxidant 733 - Toluene 80 Ethyl Antioxidant 733 - Toluene 90	(b) Highest 145.00 0 7.20 7.20 0 3.27 0 0 0 0 0 0 0 0		115.08 0 0 0.84 2.55 0 1.56 0 0 0 0 0 0 0

PA(DUR)368 (Rev. 11-77)

(List Additional Additives on Reverse)

\$ 001249

·		(a) Commercial	Range of Additive Concentration, mg/liter		
- <u></u>	- Lezve Blank	Name of Additive	(b) Highest	- (c). Lowest	(d) Average
		DuPont Antioxidant A0-22	0	0	0 .
		DuPont Antioxidant A0-23	3.45	0	0.66
		DuPont Antioxidant A0-31	0	0	0
		DuPont Antioxidant EO-33	0	0	0
· .		UPO No. 5-S Antioxidant	0.64	0	0.18
		Ethyl Metal Deactivator NDA-50	0	0	0

3. This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any?

(question numbers)

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his know edge, correct.

Shell Signed for by its authorized agent Williams, Manager H. H. Logistics - Quality Assurance May 11, 1979 Date

6, 7

### INSTRUCTIONS

### Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

## Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even it usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

		M 2 OF 2	
FUEL MANUFACTURER QUART FOR MOTOR VEHICLE GA	FORM APPROVED Office of Management and Budget No. 158-R0135		
1. Fuel Manufacturer:	•		LEAVE BLANK
2. Address: P. O. BOX 2463			
HOUSTON, TEXAS 77001			Fuel ID No.
3. Period of this report (check one and fill in year):	•		
(a) January through March (c) July	through Septemb	vear	•
,	abor aboreinate Dag	•	
(b) April through June(d) Octo	Der inrougn Dec	ember <u>year</u>	
<ol> <li>Designated motor vahicle gasoline covered by this report (check one):</li> </ol>			•
	(c)	and an are	<b>mi</b> um
<ol> <li>Brand name(s) of motor vehicle gasoline covered by this report (list): Shell Super Regular - Unleaded; Specification</li> </ol>	Unleaded G	soline - 1	Intermediate Gra
Unleaded Intermediate Grade Gasoline (Unbrande F. Production in this 3 month period of the gasoline covered by this report	d)		
5. Production in this 3 month period of the gasoline covered by this repor	t:683,4	424,000 gal.	
Additives previously reported for use in the gasoline covered by this rep	sort:		
(a) Commercial	Banne of A	dditive Concent	ration.mo/liter
Leave Blank Name of Additive	(b) Highest	(c) Lowest	(d) Average
Ethyl Metal		0	0
Deactivator MDA-80	.0		······
DuPont Metal		· · · · ·	0
Deacrivator (DMD) DuPont Metal	0	0	· · · · · ·
Deactivator 50	0	0	0
DuPont Metal			
Deactivator 75	0	0	0
Cardinal Metal	1. <u>1. 1. 1.</u>		,
Deactivator CDA-50	0	0	0
No.1 5402	4.44	0	0.18
Nalco 5403	4.44	······	
ROKON	0	0	0
Methyl Tertiary Butyl Ether			
(MTBE)	0	0	0 .
Tertiary Butyl Alcohol (TBA)	0	D	0
			· ·
	0.11%V	0	0.02%V
Diisopropyl Ether (DIPE)	0.11%		
	ł		
		<u> </u>	

EPA(DUR)368 (Rev. 11-77)

(List Additional Additives on Reverse)

\$ 001251

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ı	(a) Commercial	Range of Additive Concentration, mg/liter			
Leave Blank	Name of Additive	(b) Highest (c) Lowest (d) Average.			
· · ·					
· .					

8. This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any? \_\_\_\_

(question numbers)

s ad1252

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

Shell Oil Company Signed for by its authorized agent - Ouality Assurance Logistics Title May 11, 1979

6, 7

### Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No, EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force,

INSTRUCTIONS

### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

### Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was D in the particular guarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

	FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE SHELL OIL COMPANY			RT	FORM APPROVED Office of Management and Budget No. 158-R0135	
.1. Fue	Manufacturer:				LEAVEBLANK	
2. Ad	dress:	P. 0. BOX 2463				
	•	HOUSION, TEXAS 77001		L	Fuel ID No.	
3. Per	iod of this report (che	ck one and fill in year):				
<u> </u>	(a) January through h	March <u>1979</u> (c) Ju year	rly through Septem	ber	•	
	(b) April through Jun		ctober through Dec			
	OF ADLIE LELONBE TOUR	Year(u) O	ctoper an oppo per	YEAT		
4. De	ionated motor vehicle	gasoline covered by this report (check one)	;	·		
	(a) Unleaded	{b) 'Leaded, premium		Leaded, non-pre	ការែបា	
Shel.	L Regular; Reg	vehicle gasoline covered by this report (list): ular Grade Gasoline (Unbrand	led); Specif:		— <u> </u>	
		th period of the gasoline covered by this rep orted for use in the gasoline covered by this r		<u>, 000                                  </u>		
	Leave Blank	(a) Commercial Name of Additive	Bange of A (b) Highest	dditive Concent (c) Lowest	ration, mg/liter (d) Average	
		DuPont Oil Bronze	4.70	0	2.78	
		Y Liquid Dye	4.70			
		DuPont Oil Bronze Dye	0	0	<u>`</u> `	
	· •	DuPont Oil Bronze S-2 Liguid Dye	. 4.00	0	1.09	
·		Ethyl Automate	4.00			
e Al tra		Liquid Dye-Bronze	0.	ана и <b>О</b> — 44	0 -	
· · · · · · · · · · · · · · · · · · ·		DuPont Tel Motor			•	
		Antiknock Red-01	0	0	0	
		DuPont "Tetramix"	-	~		
·		25 Antiknock Red-01	0	0	0	
	1	DuPont "Tetramix"			1	
		50 Antiknock Red-01	770.23	Ö	173.54	
•		DuPont "Tetramix"		•		
		75 Antiknock Red-01	0	0	0	
		DuPont "Tetramix"	·	~		
		50 Antiknock Orange-62	0	0	0	
_		Ethyl Antiknock Compound-MI 500 Motor Mix (White No. 1)	A 56 <b>2.6</b> 7	°0	13.44	
		Ethyl Antiknock Compound-TH Motor Mix (White No. 1)	L O	0	. 0	
		Ethyl MLA 750 Notor Mix	0	0	0	
		Nalkyl ME-50-1 Motor Mix	0	Ô.	0	

EPA(DUR)368 (Rev. 11-77)

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(List Additional Additives on Reverse)

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<u>\*</u>•

	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter_		
Leave Blank		. (b) Highest	(c) Lowest	(d) Average
•	Nalkyl ME-75-1 Motor Mix	0	. 0	0
· · · · · · · · · · · · · · · · · · ·	HCC Antiknock Compound-MAF-50R-TR	1292.48	8	530.68
•	HCC Antiknock Compound-TEF Motor Mix-TR	1301.35	0	65.10
· · · · · · · · · · · · · · · · · · ·	HCC Antiknock Compound-TEF Motor MIX-TRA	0	0	0
·	HCC Antiknock Compound-MAF Motor Mix-50R-TRA	0	0	0
	PPG MAF 25 R Antiknock	929.78	D	215.26

8. This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any? \_\_\_\_

(question numbers)

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

	Signed for Shell Oil Company
•	by as authorized agens H. H. WW Lams
	H. H. Williams, Manager TuleLogistics - Quality Assurance
	DateMay 11, 1979

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### INSTRUCTIONS

Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

### Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

# s 001254

Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Objection 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

### EPA(DUR)368 (Rev. 11-77)

# FORM 2 OF 3

### FUEL MANUFACTURER QUARTERLY REPORT FORM APPROVED FOR-MOTOR VEHICLE GASOLINE Office of Management and Budget No. 158-R0135 LEAVE BLANK SHET.I. OTT. COMPANY Fuel Manufacturer: P. O. BOX 2463 Address: Fuel ID No. 77001 HOUSTON, TEXAS Period of this report (check one and fill in year): З. 1979 X (a) January through March (c) July through September Year year (d) October through December. (b) April through June year yeat Designated motor vehicle gasoline covered by this report (check one): X (c) Leaded, non-premium \_\_\_(b) Leaded, premium (a) Unleaded Brand name(s) of motor vehicle gasoline covered by this report (list): 5. Shell Regular; Regular Grade Casoline (Unbranded); Specification Gasoline -Regular Grade 5. Production in this 3-month period of the gasoline covered by this report: 921,018,000 . gzl. 6. Additives previously reported for use in the gasoline covered by this report: 7.

(a) Commercial		Range of Additive Concentration, mg/liter		
Leave Blank	Name of Additive	(b) Highest	(c) Lowest	(d) Average
	Ethyl MMT	15.04 .	0.	3.54
	Shell Code 08142 Additive	145.00	0	56.74
	"Tolad" 286 Fuel Fmulsion Preventive	0	0	. 0
	"Tolad" 318 Fuel Emulsion Preventive	0	0	0
	"Tolad" 326 Fuel Fmulsion Preventive	7.20	0	0.41
	Nalco 5RD-650 Fuel Emulsion Preventive	7.20	0	1.26
	Nexylene Glycol	0	0	0
	Ethyl Antioxidant 733	8.56	0	1.46
	Ethyl Antioxidant 733 - MDA - 67	0	0	0
	Ethyl Antioxidant 733 - Toluene 60	2.85	0	0.14
-	Ethyl Antioxidant 733 - Toluene 80	D	0	0
	Ethyl Antioxidant 733 - Toluene 90	0	0	0
	Ethyl Antioxidant PDA	0	0	0

(List Additional Additives on Reverse)

EPA(DUR)368 (Rev. 11-77)

2.

\$001255

	(a) Commercial	Range of Additive Concentration, mg/liter		
Leave Blank	Name of Additive	- (b) Highest	· (c) Lowest.	(d) Average.
	Pitt Consol M-56	3.19	. <b>O</b> ,	0.25
	DuPont Antioxidant A0-22	0	0	0
	DuPont Antioxidant A0-23	3.85	0	0.56
	DuPont Antioxidant AO-31	0	0	0
	DuPont Antioxidant A0-33	0	0	0
	UOP No. 5-S Antioxidant	1.53	0	0.23

### FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any? \_\_\_\_\_6, /

(question numbers)

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

Signed for <u>Shell</u>	0il Company	
by its authorized agent	H.H. 11	Till cam
. •	H. H William	s, Manager uality Assurance
Date	May 11, 1979	

#### **INSTRUCTIONS**

#### Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

#### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

#### Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carotina 27711

Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification,

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular a quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

s 001256

•			•	FORM 3 0	F 3
		FUEL MANUFACTURER QUAI FOR MOTOR VEHICLE	TERLY REPOR	· · ·	FORM APPROVED Office of Management and Budget No. 158-R0135
1.	Fuel Manufacturer:	SHELL OIL COMPANY		· · · · · · · · · · · · · · · · · · ·	EAVEBLANK
	Address:	P. O. BOX 2463			
2.	Address.	HOUSTON, TEXAS 77001			-Fuel ID-No
_	······			(	<u>_</u>
3.		eck one and fill in year):			
	X (a) January through	March 1979 (c) Ju year	ily through Septem	year	
	(b) April through Ju		ctober through Dec		<del></del> .
	· · · · · · · · · · · · · · · · · · ·	year	_	Yesr	
4.	Designated motor vahic	le gasoline covered by this report (check one)			
	(a) Unleaded	(b) Leaded, premium	<u>    X     (c)</u>	Leaded, non-prer	muin
5.	Shell Regular; Re	vehicle gasoline covered by this report (list) gular Grade Gasoline (Unbran	ded); Specif	ication Gas	soline -
6.	Regular Grade	nth period of the gasoline covered by this rep		gal.	•
· 7.		ported for use in the gasoline covered by this		/	
	Leave Blank	(a) Commercial Name of Additive	Range of A (b) Highest	dditive Concentr (c) Lawest	ation, mg/liter {d} Average
•		Ethyl Metal		0	0
· _		Deactivator MDA-50	0	0	
		Ethyl Metal Deactivator MDA-80	σ	н н. тэ О	́ о
	· · ·	DuPont Metal		·	+
_		Deactivator (DMD)	0	• 0	0
		DuPont Metal Deactivator 50	<b>0</b>	0	0 :
		DuPont Metal			0.
		Deactivator 75	0	0	0
		Cardinal Metal	0	· 0	D
		Deactivator CDA-50			·
	·	Nalco 5403	4.44	0	0.35
-		ROKON	0	0	0
		Methyl Tertiary Butyl Ether (MTBE)	0	0	Ö.
	•	Tertiary Butyl Alcohol (TB	A) Ö	0	0
		Diisopropyl Ether (DIPE)	.20%V	0	.05%
	· .				
		· · · · · · · · · · · · · · · · · · ·		L	<u> </u>
	•				1
		I		l .	1

EPAIDUR1368 (Rev. 11-77)

(List Additional Additives on Reverse)

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أ يس م		Range of Add		1 - 1
Leave Blank	Name of Additive	(b) Highest	(c) Lowest	d Average
			ł	ł
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
			<b>1</b> .	
			<u> </u>	·}
	·		<u> </u>	
				{
		-+		
			ļ .	
part or all of the informa may be made available to pursuant to 40 CFR Part	i and 7601). The business may, if it desire tion submitted. If no such claim accompan the public by EPA without further notice 2. ons I through 7 do you consider trade secr	nies the information All questions of co	when it is received	by EPA, it be handled
			Iquestion number	5)
	Signed fo		11 Company F. H. Wi 1111ams, Ma	Neams nager vesurance
Anglicability		horized agent H. H. W. H. Logisti Date May 11.	F. H. Wi Illiams, Ma cs - Qualit	M (Am) nager y Assurance
through submission of a Fuel 1	by its aut	horized agent H. H. H. H. Logisti Date May 11,	Agency who has t	nad a fuel registered
Any manufacturer of a fuel de through submission of a Fuel f	by its aut <u>INSTRUCTIC</u> signated by the Administrator of the Envi Manufacturer Notification(Form No, EPA	horized agent H. H. H. H. Logisti Date May 11,	Agency who has t	nad a fuel registered
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order to Date of Submission	by its aut <u>INSTRUCTIC</u> signated by the Administrator of the Envi Manufacturer Notification(Form No, EPA	horized agent H. H. H. H. Logisti Date May 11, Date May 11,	Agency who has t nit Fuel Manufact	nad a fuel registered urer Quarterly
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order to Date of Submission Fuel Manufacturer Quarterly I quarter).	by its aut INSTRUCTIO signated by the Administrator of the Envi Manufacturer Notification (Form No, EPA to keep such registration in force.	horized agent H. H. H. H. Logisti Date May 11, Date May 11,	Agency who has t nit Fuel Manufact	nad a fuel registered urer Quarterly
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order t Date of Submission Fuel Manufacturer Quarterly I quarter). Method of Submission	by its aut <u>INSTRUCTIO</u> signated by the Administrator of the Envi Manufacturer Notification (Form No. EPA to keep such registration in force. Reports are to be submitted within 45 days	horized agent H. H. W. Title Logisti Date May 11, Date May 11, DNS commental Protection (DUR) 367) must sub	Agency who has the first fuel Manufactor ch reporting period	had a fuel registered urer Quarterly d (i.e., calendar
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order t Date of Submission Fuel Manufacturer Quarterly I quarter). Method of Submission	instruction of the Environmentation of the Environment	horized agent H. H. W. Title Logisti Date May 11. Date May 11. DNS ronmental Protection (DUR) 367) must sub a after the close of ea each designated fuel	Agency who has the first fuel Manufactor ch reporting period	had a fuel registered urer Quarterly d (i.e., calendar
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order t Date of Submission Fuel Manufacturer Quarterly I quarter). Method of Submission	by its aut <u>INSTRUCTIO</u> signated by the Administrator of the Envi Manufacturer Notification (Form No. EPA to keep such registration in force. Reports are to be submitted within 45 days	horized agent H. H. H. Title Logisti Date May 11, Date May 11, DNS ronmental Protection (DUR) 367) must sub a after the close of ea each designated fuel on Agency Registration (MD-75	Agency who has t nit Fuel Manufactor Completed forme	had a fuel registered urer Quarterly d (i.e., calendar
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order t Date of Submission Fuel Manufacturer Quarterly I quarter). Method of Submission	instrator, Environmental Protection Administrator, North Carolina	horized agent H. H. H. Title Logisti Date May 11, Date May 11, DNS ronmental Protection (DUR) 367) must sub a after the close of ea each designated fuel on Agency Registration (MD-75	Agency who has t nit Fuel Manufactor Completed forme	had a fuel registered urer Quarterly d (i.e., calendar
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order to Date of Submission Fuel Manufacturer Quarterly I quarter). Method of Submission One copy of a Quarterly Repo	instrator, Environmental Protection Administrator, North Carolina Manufacturer Notification (Form No, EPA to keep such registration in force.	horized agent H. H. W. Title Logisti Date May 11, Date May 11, DNS ronmental Protection (DUR) 367) must sub a after the close of ea each designated fuel on Agency Registration (MD-75 27711	Agency who has h nit Fuel Manufactor Completed form	had a fuel registered urer Quarterly d (i.e., calendar
Any manufacturer of a fuel de through submission of a Fuel f Reports for that fuel in order to Date of Submission Fuel Manufacturer Quarterly I quarter). Method of Submission One copy of a Quarterly Repo Definitions and Specific Instru- Definitions and Specific Instru Question 7. Note that all add	instrator, Environmental Protection Administrator, North Carolina	horized agent H. H. W. Title Logisti Date May 11. Date	Agency who has t nit Fuel Manufactor Completed formo	had a fuel registered urer Quarterly d (i.e., calendar (s) should be sent to:

### FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

EPA(DUR)368 (Rev. 11-77)

FORM 1 OF 2

					01 2			
		FORM APPROVED Office of Management and Budget No, 158-R0135						
1.	. Fuel Manufacturer:	LEAVE BLANK						
2.		P. O. Box 2463						
		HOUSTON, TEXAS 77001			Fuel-ID-No.			
3.	Period of this report (ch	Period of this report (check one and fill in year):						
	X (a) January through	March 1979 (c) Ju	ly through Septem	nber				
	X (a) January through	Year		уезг				
_	(b) April through Ju	ne(d) O	ctober through De	cember				
		Year		year				
4.	Designated motor vahicl	e gasoline covered by this report (check one)		•	,			
	X (a) Unleaded	(b) Leaded, premium		Leaded, non-p	remium			
5.	Brand name(s) of motor	vehicle gasoline covered by this report (list):	,		,			
	Shell Unleaded Ca	asoline; Specification Unlead	ied Gasoline	- Regular	Grade; Unleaded			
6.	Regular Grade Gas Production in this 3-mon	soline (Unbranded) hth period of the gasoline covered by this rep	ort: 118,062,	000 9	at.			
7.		orted for use in the gasoline covered by this i			•			
	Leave Blank	(a) Commercial Name of Additive	Range of A (b) Highest	Additive Concer (c) Lowest	tration, mg/liter			
	· · · · · · · · · · · · · · · · · · ·	Shell Code 08142 Additive	145.00	0	56.76			
•		"Tolad" 286 Fuel Emulsion Preventative	0	· 0	0			
		"Tolad" 318 Fuel Emulsion	•					
	· · · · · · · · · · · · · · · · · · ·	Preventative	0	0	0			
		"Tolad" 326 Fuel Emulsion Preventative	7.20	. 0	0.41 ·			
		Nalco 5RD-650 Fuel Emulsion						
		Preventative	7.20	0	1.31			
		Hexylene Glycol	0	0	0			
		Ethyl Antioxidant 733	3.28	0	1.83			
		Ethyl Antioxidant 733-MDA-6	7 0	. 0	0			
		Ethyl Antioxidant 733 - Toluene 60	2.85	0	0.50			
		Ethyl Antioxidant			0			
		<u>733 - Toluene 80</u> Ethyl Antioxidant	0	0				
·	·	733 - Toluene 90	0	0	0			
		Ethyl Antioxidant PDA	Ø	0	0			

EPA(DUR)368 (Rev. 11-77)

(List Additional Additives on Reverse)

0

Pitt Consol M-56

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0

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0

#### Range of Additive Concentration, mg/liter. (b) Highest | (c) Lowest | (d) Average (a) Commercial Leave Blank Name of Additive (b) Highest D ß 0 DuPont Antioxidant A0-22 0 0 0 DuPont Antioxidant A0-23 DuPont Antioxidant A0-31 0 0 0 Ô٠ 0 n DuPont Antioxidant A0-33 0.38 0 0.23 UOP No. 5-S Antioxidant

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

This report is required by law (42 U.S.C. 7545 and 7601, 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any? \_\_\_\_\_6

(question numbers)

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

Signed for Shell Oil Company K.U by its authorized agent. H. Williams, Manager Logistics - Quality Assurance Title

May 11, 1979 Date

#### INSTRUCTIONS

Applicability

R.

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

#### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

#### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

FORM 2 OF 2

`		•	FUEL MANUFACTURER QUA FOR MOTOR VEHICLE		•** •	FORM APPROVED Office of Management and Budget No. 158-R0135
·	1.	•	SHELL OIL COMPANY P. O. BOX 2463		· · · · · · · · · · · · · · · · · · ·	LEAVE BLANK
	2.	Address:	HOUSTON, TEXAS 77001			
	•		· · · · · · · · · · · · · · · · · · ·		<b>-</b>	
	3.	•	eck one and fill in year):	1 A.	•	. •
	-	X (a) January through	March(c) J year	uly through Septen	nber year	· .
	_	(b) April through Ju		october through Da		
	4.	Designated motor vehicl	year e gasoline covered by this report (check one	):	. year	
i -	-	X_(a) Unleaded	{b} Leaded, premium	{c}	Leaded, non-pre	mium
	5. 5, 6,	Shell Unleaded Gas Regular Grade Gas Production in this 3-mos	vehicle gasoline covered by this report (list) soline: Specification Unlead oline: (Unbranded) oth period of the gasoline covered by this rep	ed Gasoline	- Regular ( ,000	Grade; Unleaded
	7.	Additives previously rep	orted for use in the gasoline covered by this	report: •		
		Leave Blank	(a) Commercial Name of Additive	Range of A (b) Highest	dditive Concentr (c) Lowest	ation, mg/liter (d) Average
			Ethyl Metal Deactivator MDA-50	0	0	0
			Ethyl Metal Deactivator MDA-80	0.	. 0	0
•		¢	DuPont Metal Deactivaotr (DMD)	0	0	0
			DuPont Metal Deactivator 50		• 0	0 -
			DuPont Metal Deactivator 75	0	0	0
			Cardinal Metal Deactiavtor CDA-50	0	0	0
		: . : .	Nalco 5403	0	0	0
			ROKON	0	0	0
			Methyl Tertiary Butyl Ether (MTBE)	0	0	0
			Tetiary Butyl Alcohol (TBA	0	, 0	0
			Diisopropyl Ether (DIPE)	.28%7	0	.027V
		•				
				-	· · · ·	

EPA(DUR)368 (Rev. 11-77)

(List Additional Additives on Reverse)

<u>s001261</u>

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#### FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

	. · .	(a) Commerciał	Range of Additive Concentration, mg/liter		
•	Leave Blank	Name of Additive	(b) Highest	(c) Lowest	(d) Average.
		· · · · · · · · · · · · · · · · · · ·			
·					
•		······································			

3. This report is required by law (42 U.S.C. 7545 and 7601: 40 CFR 79). Failure to register fuels and fuel additives or to furnish the required information can result in a fine of \$10,000 for each and every day of the continuance of such violation (42 U.S.C. 7545 and 7601). The business may, if it desires, assert a business confidentiality claim covering part or all of the information submitted. If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2.

Which answers to Questions 1 through 7 do you consider trade secret, if any?

6, 7 (question numbers)

\$ 001262

This fuel manufacturer assures that all information submitted herewith is complete and, to the best of his knowledge, correct.

Shell Oil Company Signed for by its authorized agent Williams, Manager н. н. Quálity Logistics Assurance Title Date May 11. 1979

#### INSTRUCTIONS

Applicability

Any manufacturer of a fuel designated by the Administrator of the Environmental Protection Agency who has had a fuel registered through submission of a Fuel Manufacturer Notification (Form No. EPA(DUR)367) must submit Fuel Manufacturer Quarterly Reports for that fuel in order to keep such registration in force.

#### Date of Submission

Fuel Manufacturer Quarterly Reports are to be submitted within 45 days after the close of each reporting period (i.e., calendar quarter).

Method of Submission

One copy of a Quarterly Report should be completed and submitted for each designated fuel. Completed form(s) should be sent to:

Administrator, Environmental Protection Agency Attn: Office of Fuel and Fuel Additive Registration (MD-79) Research Triangle Park, North Carolina 27711

#### Definitions and Specific Instructions

Definitions and Specific Instructions are the same as those provided for the Fuel Manufacturer Notification.

Question 7. Note that all additives previously reported for a designated fuel must be listed, even if usage was 0 in the particular quarter. If you desire to have an additive dropped from your listing, you should notify this office in writing.

EXHIBIT R

### Chronology of Gasoline Additives

Sn-Propylbenzene Gasoline hydrocarpons with = n-Propylbenzene 10+ carbon atoms Toluene/benzene ratio > 2.5 - 4 <u>Methyl tert-butyl ether (MTBE), eastern United Sta</u>tes

MTBE, westem United States

Tetraethyl lead only

<1.1 g/gal

<0.1.g/gal

Mixed Alkyl Leads

Mangenese (MMT):

Ethylene dibromide and ethylene dichlonde

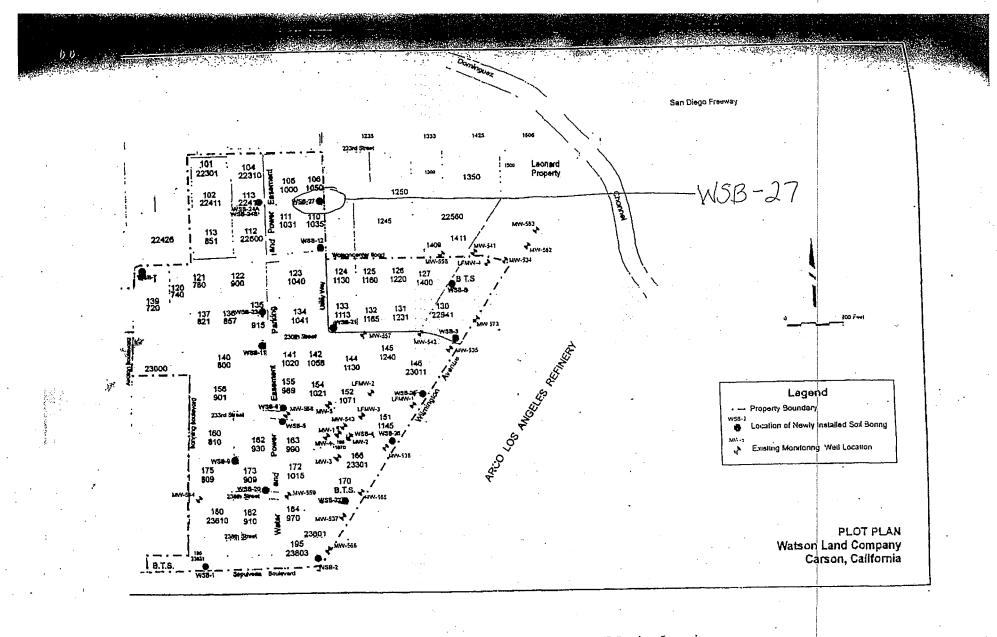
1960 1995 1965 1970 1975 1980 1985 1990 2000 Year EXHIBIT FOR IDENTIFICATION WITNESS DATE NIKKI ROY, CSR #3052 When the Party of the second second

## EXHIBIT S

# VAPOR FLUX RESULTS FOR WSB-27

-1

Under statistical from the sta



WICS Plot Map Showing DHF Boring Locations.

ATTACHMENT 6

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EVI

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EXHIBIT T

