

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

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

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

9 **SPECIAL INTERROGATORY NO. 18:**

10 Has 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?

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

14 Yes.

15 **SPECIAL INTERROGATORY NO. 19:**

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

22 **RESPONSE TO SPECIAL INTERROGATORY NO. 19:**

23 Crude oil, cc feed, coker gas oil, cat gas oil, diesel base, jet distillate, platformer
24 feed, jet, diesel, regular and premium gasoline, mid-grade gasoline, platformate,
25 alkylate, light and heavy cat gasoline, mtbe, solvents, clarified oil, flasher feed, sour
26 #20, low sulfur cat feed, normal butane, Iso-butane, mixed butane, straight run
27 gasoline, light coker gas oil C3C4 olefins, aviation gasoline, leaded gasoline (regular,
28

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

2 **SPECIAL INTERROGATORY NO. 20:**

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

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

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

10 **SPECIAL INTERROGATORY NO. 21:**

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

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

16 Shell Oil Company (Dominguez Site), 20945 Wilmington Avenue, Carson, CA
17 90810; Shell Oil Company (Wilmington Site), 1622 Sepulveda Blvd., Carson, CA
18 90810.

19 **SPECIAL INTERROGATORY NO. 22:**

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

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

24 Yes.

25 **SPECIAL INTERROGATORY NO. 23:**

26 If SHELL has ever transported any substance other than petroleum or petroleum
27 products through any of its pipelines that are or ever have been located within the
28

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

3 **RESPONSE TO SPECIAL INTERROGATORY NO. 23:**

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

6 **SPECIAL INTERROGATORY NO. 24:**

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

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

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

16 **SPECIAL INTERROGATORY NO. 25:**

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

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

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

24 **SPECIAL INTERROGATORY NO. 26:**

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

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1 RESPONSE TO SPECIAL INTERROGATORY NO. 26:

2 Yes.

3 SPECIAL INTERROGATORY NO. 27:

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

7 RESPONSE TO SPECIAL INTERROGATORY NO. 27:

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

11 SPECIAL INTERROGATORY NO. 28:

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

15 RESPONSE TO SPECIAL INTERROGATORY NO. 28:

16 All of the devices were installed in or about 1982.

17 SPECIAL INTERROGATORY NO. 29:

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

21 RESPONSE TO SPECIAL INTERROGATORY NO. 29:

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

26 SPECIAL INTERROGATORY NO. 30:

27 If SHELL ever installed any type of leak detection device with respect to any of
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1 the pipelines that it ever installed within the WATSON CENTER, IDENTIFY each
2 and every PERSON who has possession or custody of any records or other
3 DOCUMENTS produced or created with respect to the installation and operation of
4 each such device.

5 **RESPONSE TO SPECIAL INTERROGATORY NO. 30:**

6 Dave Smith, John Fortson, Wilmington Manufacturing Operations.

7 **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:**

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

15 **SPECIAL INTERROGATORY NO. 32:**

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

19 **RESPONSE TO SPECIAL INTERROGATORY NO. 32:**

20 No.

21 **SPECIAL INTERROGATORY NO. 33:**

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

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

26 Not applicable.
27
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1 **SPECIAL INTERROGATORY NO. 34:**

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

5 **RESPONSE TO SPECIAL INTERROGATORY NO. 34:**

6 Not applicable.

7 **SPECIAL INTERROGATORY NO. 35:**

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 which ever detected
10 a leak, state the volume of loss with respect to each such leak.

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

12 Not applicable.

13 **SPECIAL INTERROGATORY NO. 36:**

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

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

19 Not applicable.

20 **SPECIAL INTERROGATORY NO. 37:**

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

25 **RESPONSE TO SPECIAL INTERROGATORY NO. 37:**

26 Not applicable.

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1 **SPECIAL INTERROGATORY NO. 38:**

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

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

6 Not applicable.

7 **SPECIAL INTERROGATORY NO. 39:**

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 which ever detected
10 a leak, were any soils tests ever conducted with respect to any leak?

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

12 Not applicable.

13 **SPECIAL INTERROGATORY NO. 40:**

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

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

18 Not applicable.

19 **SPECIAL INTERROGATORY NO. 41:**

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

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

25 Not applicable.

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1 **SPECIAL INTERROGATORY NO. 42:**

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

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

8 Not applicable.

9 **SPECIAL INTERROGATORY NO. 43:**

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

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

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

14 **SPECIAL INTERROGATORY NO. 44:**

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

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

19 Not applicable.

20 **SPECIAL INTERROGATORY NO. 45:**

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

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

25 Not applicable.

26 **SPECIAL INTERROGATORY NO. 46:**

27 Has SHELL ever had any policy, guideline or practice with respect to steps that
28

1 should be taken to detect leaks in its pipelines?

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

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

6 **SPECIAL INTERROGATORY NO. 47:**

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

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

11 See response to no. 46, above.

12 **SPECIAL INTERROGATORY NO. 48:**

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

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

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

22 **SPECIAL INTERROGATORY NO. 49:**

23 If SHELL has ever had any policy, guideline or practice with respect to steps
24 that should be taken to detect leaks in its pipelines, was that policy, guideline or
25 practice applied to any SHELL pipeline ever installed within the WATSON CENTER?
26
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1 RESPONSE TO SPECIAL INTERROGATORY NO. 49:

2 Yes.

3 SPECIAL INTERROGATORY NO. 50:

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

8 RESPONSE TO SPECIAL INTERROGATORY NO. 50:

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

11 SPECIAL INTERROGATORY NO. 51:

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

16 RESPONSE TO SPECIAL INTERROGATORY NO. 51:

17 None.

18
19 DATED: May 15, 1997

LAW OFFICES OF DAVID J. EARLE

20
21 

22 DAVID J. EARLE
23 Attorneys for Defendant
24 SHELL OIL COMPANY
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27
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ORIGINAL VERIFICATION TO FOLLOW

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

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 an Officer a partner ~~XX~~ an agent of defendant SHELL OIL COMPANY, a party to this action, and am 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. 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.



ROBERT DONNELLY

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PROOF OF SERVICE

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 if 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.



Sarah C. Galt

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Monsanto Chemical Company

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Attorneys for Mobil Oil
Corporation

EXHIBIT P

PLUMES B1 AND B2 - GASOLINE: MAP OF EDC/EDB GROUNDWATER CONCENTRATIONS

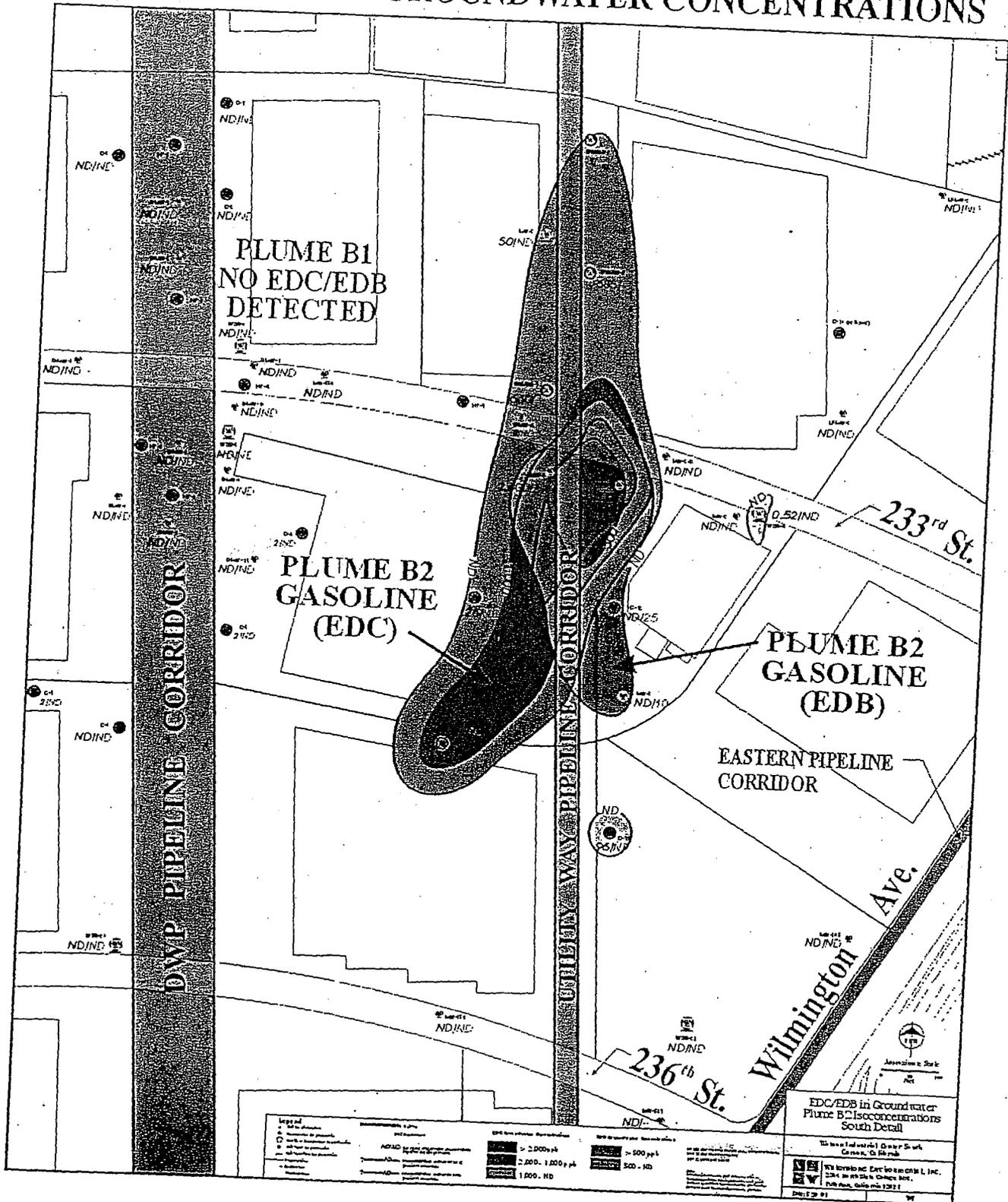


EXHIBIT Q



SHELL OIL COMPANY

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

AMV

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,

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

AMV:db

Enclosures

8001238

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No. _____

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded
 (b) Leaded, premium
 (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Super Shell; Premium Grade Gasoline (Unbranded); Specification Gasoline - Premium Grade

6. Production in this 3-month period of the gasoline covered by this report: 275,562,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	DuPont Oil Red B Liquid	5.30	2.87	4.12
	Ethyl Automate Liquid Dye-Red B	0	0	0
	Ethyl Automate Liquid Dye-Red G	0	0	0
	Ethyl Liqui-Di Red B	0	0	0
	Morton Automate Red B	0	0	0
	Calco Oil Red Y Liquid	0	0	0
	DuPont Tel Motor 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" 75 Antiknock Red-01	0	0	0
	DuPont "Tetramix" 50 Antiknock Orange-62	0	0	0
	Ethyl Antiknock Compound-MLA 500 Motor Mix (White No. 1)	1580.03	0	20.95
	Ethyl Antiknock Compound-TEL Motor Mix (White No. 1)	0	0	0

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	Ethyl MLA 750 Motor Mix	1570.31	0	476.28
	Nalkyl ME-50-1 Motor Mix	0	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 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.

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

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY

2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK

Fuel ID No.

3. Period of this report (check one and fill in year):

(a) January through March 1979 year (c) July through September _____ year

_____ (b) April through June _____ year (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):

_____ (a) Unleaded (b) Leaded, premium _____ (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):

Super Shell; Premium Grade Gasoline (Unbranded); Specification Gasoline-Premium Grade

6. Production in this 3-month period of the gasoline covered by this report: 275,562.000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	HCC Antiknock Compound-MAF Motor Mix-50R-TRA	0	0	0
	PPG MAF 25 R Antiknock	1,153.67	0	121.51
	Ethyl MMT	18.68	0	1.97
	Shell Code 08142 Additive	145.00	0	113.48
	"Tolad" 286 Fuel Emulsion Preventive	0	0	0
	"Tolad" 318 Fuel Emulsion Preventive	0	0	0
	"Tolad" 326 Fuel Emulsion Preventive	7.20	0	0.82
	Nalco 5 RD-650 Fuel Emulsion Preventive	7.20	0	2.52
	Hexylene Glycol	0	0	0
	Ethyl Antioxidant 733	8.59	0	1.43
	Ethyl Antioxidant 733-MDA-67	0	0	0
	Ethyl Antioxidant 733 - Toluene 60	2.84	0	0.10
	Ethyl Antioxidant 733 - Toluene 80	0	0	0

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	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 AO-22	0	0	0
	DuPont Antioxidant AO-23	4.08	0	0.90
	DuPont Antioxidant AO-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.

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

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded (b) Leaded, premium (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Super Shell; Premium Grade Gasoline (Unbranded); Specification Gas. line-Premium

6. Production in this 3-month period of the gasoline covered by this report: 275,562,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	DuPont Antioxidant AO-33	0	0	0
	DOP 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%V	0	0.05%V

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(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? 6, 7
(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 its authorized agent H. H. Williams, Manager
Title Logistics - Quality 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 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.

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):

(a) January through March, 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):

(a) Unleaded
 (b) Leaded, premium
 (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):

Shell Super Unleaded Gasoline; Specification Unleaded Gasoline - Premium Grade;
Unleaded Premium Grade Gasoline (Unbranded)

6. Production in this 3-month period of the gasoline covered by this report: 21,420,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	Ethyl Automate Liquid Purple Dye	0	0	0
	DuPont Oil Liquid Purple Dye	0	0	0
	Shell Code 08142 Additive	145.00	0	62.30
	"Tolad" 286 Fuel Emulsion Preventative	0	0	0
	"Tolad" 318 Fuel Emulsion Preventative	0	0	0
	"Tolad" 326 Fuel Emulsion Preventative	7.20	0	0.46
	Nalco 5RD-650 Fuel Emulsion Preventative	7.20	0	1.41
	Hexylene Glycol	0	0	0
	Ethyl Antioxidant 733	2.42	0	1.99
	Ethyl Antioxidant 733-MDA-67	0	0	0
	Ethyl Antioxidant 733 - Toluene 60	0	0	0
	Ethyl Antioxidant 733 - Toluene 80	0	0	0
	Ethyl Antioxidant 733 - Toluene 90	0	0	0

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(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	0
	DuPont Antioxidant A0-33	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.

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

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year (c) July through September _____ year
 (b) April through June _____ year (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded (b) Leaded, premium (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Shell Super Unleaded Gasoline; Specification Unleaded Gasoline - Premium Grade; Unleaded Premium Grade Gasoline (Unbranded)

6. Production in this 3-month period of the gasoline covered by this report: 21,420,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(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	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	0	0	0
	ROKON	0	0	0
	Methyl Tertiary Butyl Ether (MTBE)	0	0	0
	Tertiary Butyl Alcohol (TBA)	0	0	0
	Diisopropyl Ether (DIPE)	0	0	0

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(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? 6, 7
(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 its authorized agent H. H. Williams
Title H. H. Williams, Manager
Logistics - Quality Assurance
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.

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No. _____

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded
 (b) Leaded, premium
 (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Shell Super Regular - Unleaded; Specification Unleaded Gasoline - Intermediate Grade Unleaded Intermediate Grade Gasoline (Unbranded)

6. Production in this 3-month period of the gasoline covered by this report: 683,424,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	Shell Code 08142 Additive	145.00	0	115.08
	"Tolad" 286 Fuel Emulsion Preventive	0	0	0
	"Tolad" 318 Fuel Emulsion Preventive	0	0	0
	"Tolad" 326 Fuel Emulsion Preventive	7.20	0	0.84
	Nalco 5RD-650 Fuel Emulsion Preventive	7.20	0	2.55
	Hexylene Glycol	0	0	0
	Ethyl Antioxidant 733	3.27	0	1.56
	Ethyl Antioxidant 733 - MDA - 67	0	0	0
	Ethyl Antioxidant 733 - Toluene 60	0	0	0
	Ethyl Antioxidant 733 - Toluene 80	0	0	0
	Ethyl Antioxidant 733 - Toluene 90	0	0	0
	Ethyl Antioxidant PDA	0	0	0
	Pitt Consol M-56	3.07	0	0.12

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	DuPont Antioxidant AO-22	0	0	0
	DuPont Antioxidant AO-23	3.45	0	0.66
	DuPont Antioxidant AO-31	0	0	0
	DuPont Antioxidant EO-33	0	0	0
	UPO No. 5-S Antioxidant	0.64	0	0.18
	Ethyl Metal Deactivator MDA-50	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 know edge, correct.

Signed for Shell Oil Company
by its authorized agent H. H. Williams
Title Logistics - Quality 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 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.

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded
 (b) Leaded, premium
 (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Shell Super Regular - Unleaded; Specification Unleaded Gasoline - Intermediate Grade
Unleaded Intermediate Grade Gasoline (Unbranded)
6. Production in this 3-month period of the gasoline covered by this report: 683,424,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	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	4.44	0	0.18
	ROKON	0	0	0
	Methyl Tertiary Butyl Ether (MTBE)	0	0	0
	Tertiary Butyl Alcohol (TBA)	0	0	0
	Diisopropyl Ether (DIPE)	0.11%V	0	0.02%V

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(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? 6, 7
(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 its authorized agent H. H. Williams, Manager
Title Logistics - Quality 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 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.

FUEL MANUFACTURER QUARTERLY REPORT
FOR-MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE-BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded (b) Leaded, premium (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Shell Regular; Regular Grade Gasoline (Unbranded); Specification Gasoline - Regular Grade

6. Production in this 3-month period of the gasoline covered by this report: 921,018,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	DuPont Oil Bronze Y Liquid Dye	4.70	0	2.78
	DuPont Oil Bronze Dye	0	0	0
	DuPont Oil Bronze S-2 Liquid Dye	4.00	0	1.09
	Ethyl Automate Liquid Dye-Bronze	0	0	0
	DuPont Tel Motor Antiknock Red-01	0	0	0
	DuPont "Tetramix" 25 Antiknock Red-01	0	0	0
	DuPont "Tetramix" 50 Antiknock Red-01	770.23	0	173.54
	DuPont "Tetramix" 75 Antiknock Red-01	0	0	0
	DuPont "Tetramix" 50 Antiknock Orange-62	0	0	0
	Ethyl Antiknock Compound-MLA 500 Motor Mix (White No. 1)	562.67	0	13.44
	Ethyl Antiknock Compound-TEL Motor Mix (White No. 1)	0	0	0
	Ethyl MLA 750 Motor Mix	0	0	0
	Nalkyl ME-50-1 Motor Mix	0	0	0

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(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	0	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? 6, 7
(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 its authorized agent H. H. Williams
H. H. Williams, Manager
Title Logistics - Quality 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 Carolina 27711

8 001254

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.

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded (b) Leaded, premium (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Shell Regular; Regular Grade Gasoline (Unbranded); Specification Gasoline - Regular Grade

6. Production in this 3-month period of the gasoline covered by this report: 921,018,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(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 Emulsion Preventive	0	0	0
	"Tolad" 318 Fuel Emulsion Preventive	0	0	0
	"Tolad" 326 Fuel Emulsion Preventive	7.20	0	0.41
	Nalco 5RD-650 Fuel Emulsion Preventive	7.20	0	1.26
	Hexylene 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	0	0	0
	Ethyl Antioxidant 733 - Toluene 90	0	0	0
	Ethyl Antioxidant PDA	0	0	0

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

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

B. 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.

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

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):
 (a) January through March 1979 year (c) July through September _____ year
 (b) April through June _____ year (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded (b) Leaded, premium (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Shell Regular; Regular Grade Gasoline (Unbranded); Specification Gasoline - Regular Grade

6. Production in this 3-month period of the gasoline covered by this report: _____ gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	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	4.44	0	0.35
	ROKON	0	0	0
	Methyl Tertiary Butyl Ether (MTBE)	0	0	0
	Tertiary Butyl Alcohol (TBA)	0	0	0
	Diisopropyl Ether (DIPE)	.20%V	0	.05%V

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(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? 6, 7
(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 its authorized agent H. H. Williams
Title H. H. Williams, Manager
Logistics - Quality 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 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.

FUEL MANUFACTURER QUARTERLY REPORT
FOR MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. Box 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):
 (a) January through March, 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):
 (a) Unleaded
 (b) Leaded, premium
 (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):
Shell Unleaded Gasoline; Specification Unleaded Gasoline - Regular Grade; Unleaded Regular Grade Gasoline (Unbranded)

6. Production in this 3-month period of the gasoline covered by this report: 118,062,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	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-67	0	0	0
	Ethyl Antioxidant 733 - Toluene 60	2.85	0	0.50
	Ethyl Antioxidant 733 - Toluene 80	0	0	0
	Ethyl Antioxidant 733 - Toluene 90	0	0	0
	Ethyl Antioxidant PDA	0	0	0
	Pitt Consol M-56	0	0	0

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

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

B. 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.

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

\$ 001260

FUEL MANUFACTURER QUARTERLY REPORT
FOR-MOTOR VEHICLE GASOLINE

FORM APPROVED
Office of Management
and Budget
No. 158-R0135

1. Fuel Manufacturer: SHELL OIL COMPANY
2. Address: P. O. BOX 2463
HOUSTON, TEXAS 77001

LEAVE BLANK
Fuel ID No.

3. Period of this report (check one and fill in year):

(a) January through March 1979 year
 (b) April through June _____ year
 (c) July through September _____ year
 (d) October through December _____ year

4. Designated motor vehicle gasoline covered by this report (check one):

(a) Unleaded (b) Leaded, premium (c) Leaded, non-premium

5. Brand name(s) of motor vehicle gasoline covered by this report (list):

Shell Unleaded Gasoline; Specification Unleaded Gasoline - Regular Grade; Unleaded Regular Grade Gasoline (Unbranded)

6. Production in this 3-month period of the gasoline covered by this report: 118,062,000 gal.

7. Additives previously reported for use in the gasoline covered by this report:

Leave Blank	(a) Commercial Name of Additive	Range of Additive Concentration, mg/liter		
		(b) Highest	(c) Lowest	(d) Average
	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	0	0	0
	ROKON	0	0	0
	Methyl Tertiary Butyl Ether (MTBE)	0	0	0
	Tertiary Butyl Alcohol (TBA)	0	0	0
	Diisopropyl Ether (DIPE)	.28%V	0	.02%V

(List Additional Additives on Reverse)

FUEL MANUFACTURER QUARTERLY REPORT FOR MOTOR VEHICLE GASOLINE (continued)

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

B. 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.

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(question numbers)

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

INSTRUCTIONS

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Administrator, Environmental Protection Agency
Attn: Office of Fuel and Fuel Additive Registration (MD-791)
Research Triangle Park, North Carolina 27711

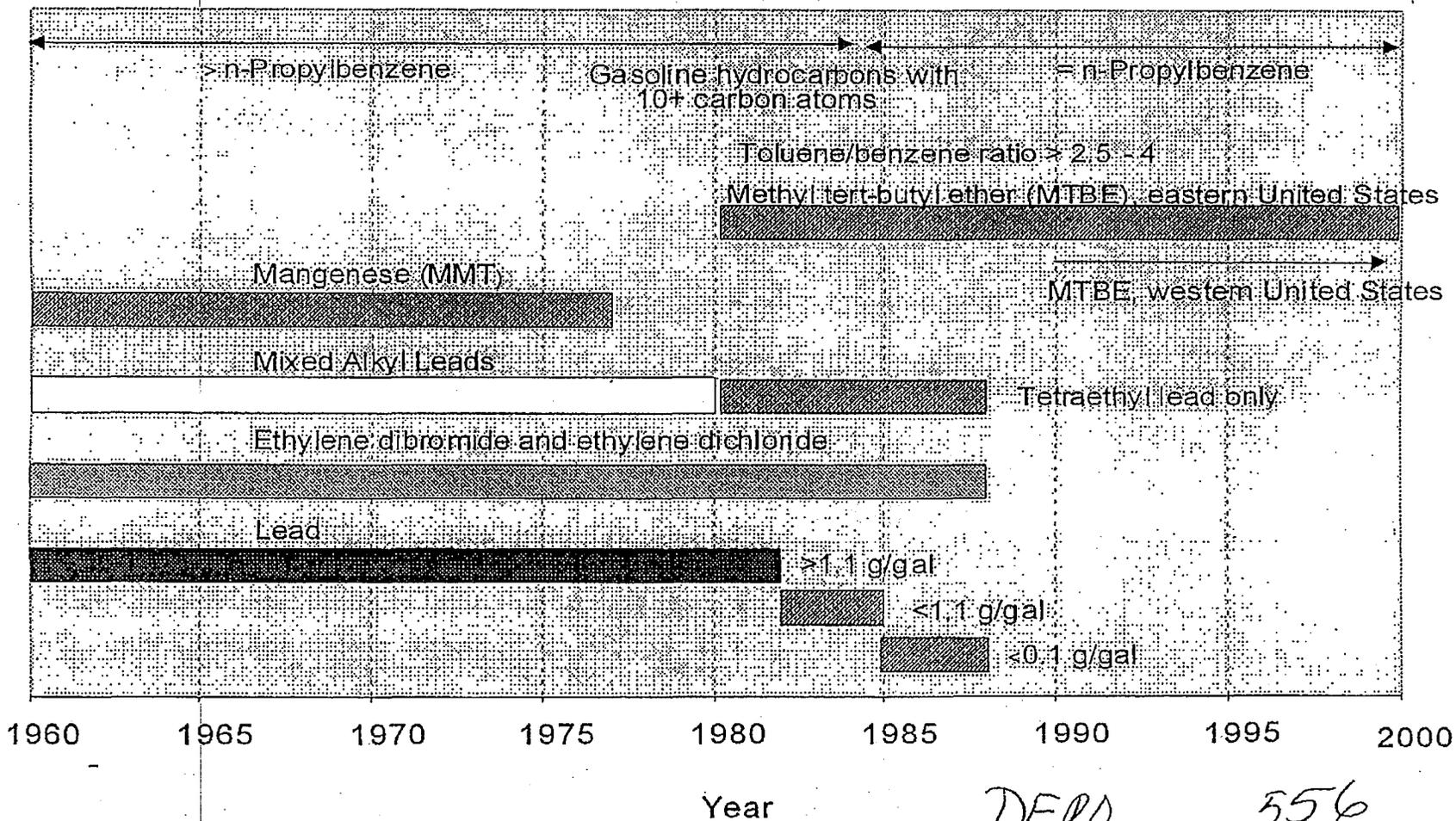
Definitions and Specific Instructions

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

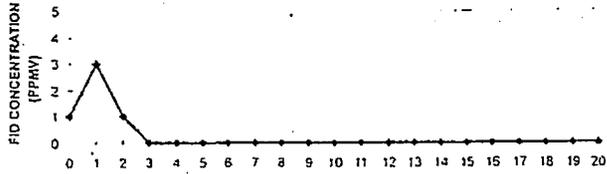
Chronology of Gasoline Additives



DEPO EXHIBIT 356
 FOR IDENTIFICATION
 WITNESS F. Knoder
 DATE 3-22-01
 NIKKI ROY, CSR #3052

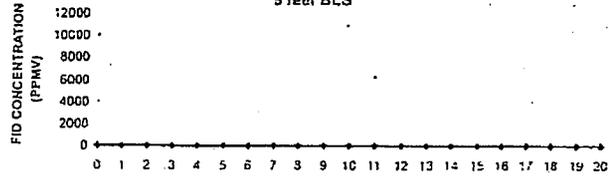
VAPOR FLUX RESULTS FOR WSB-27

5 feet BLS

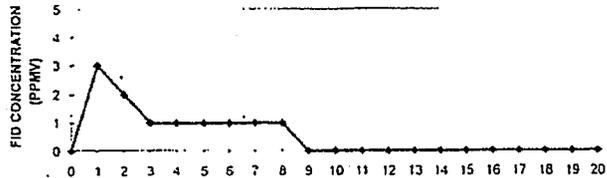


Same-Concentration Scales

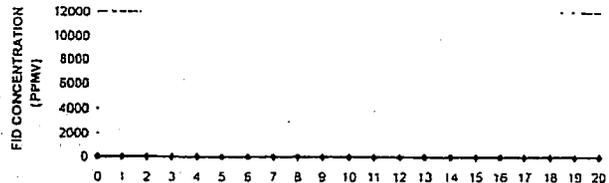
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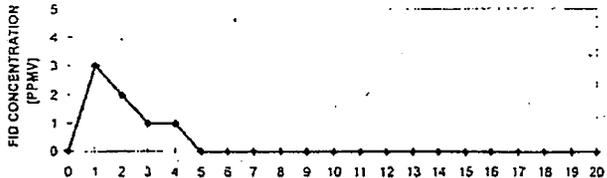
10 feet BLS



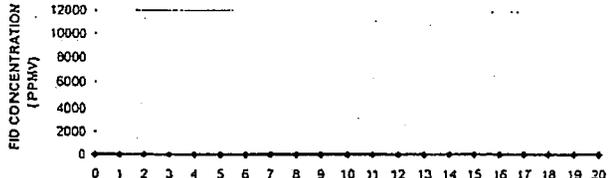
10 feet BLS



20 feet BLS

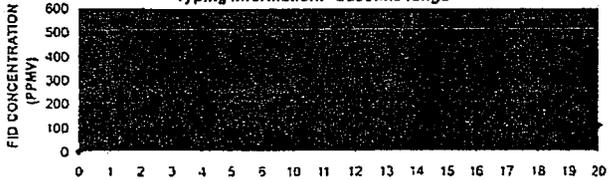


20 feet BLS

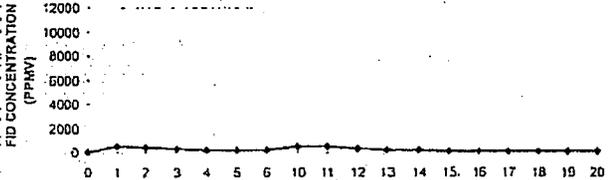


40 feet BLS

Typing Information: Gasoline range

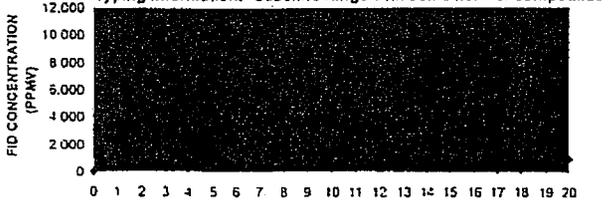


40 feet BLS

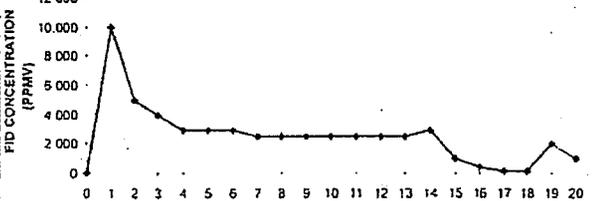


60 feet BLS

Typing Information: Gasoline range with some heavier compounds



60 feet BLS



PLUMES B1 AND B2 - GASOLINE: MAP OF BENZENE GROUNDWATER CONCENTRATIONS

