1R - 257

GENERAL CORRESPONDENCE

YEAR(S):

2000 - 1998

IR0257

Larson & Associates, Inc.
Environmental Consultants

December 8, 2000

VIA FACSIMILE: (505) 827-8177

Mr. Wayne Price
Petroleum Engineer Specialist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

Re: Scope of Work for Continued Investigation, D. F. Fergason Lease, NE/4 Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico

Dear Mr. Price:

Texaco Exploration and Production Inc. (Texaco) has retained Larson & Associates, Inc. (LA) to prepare a scope of work for continued investigation of a former emergency overflow pit (Site), located at the D. F. Fergason Lease near Hobbs, New Mexico. The Site is located approximately 2 miles east of Hobbs, New Mexico, and is situated in the northeast quarter (NE/4), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico.

Investigations were performed on behalf of Texaco at the Site during April 1997 and May 1999. Soil samples were collected from six (6) shallow hand borings advanced to approximately 2.5 feet below ground surface (BGS) during the April 1997 investigation. Soil samples were collected from eleven (11) rotary-drilled borings advanced from 20 to 53 feet BGS during the May 1999 investigation. The investigation results were reported to the New Mexico Oil Conservation Division (NMOCD) on June 3, 1999, in a report titled, "Pit Closure Investigation Report, Texaco Exploration and Production Inc., D.F. Fergason Lease (J.C. Turner Property), Former Emergency Pit, Northeast Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico".

During a meeting on June 14, 2000, the NMOCD verbally requested Texaco to conduct additional investigation near the southwest corner of the Site. This letter is intended to fulfill that request. A Memorandum of Meeting or Conversation issued by the NMOCD on June 14, 2000, stated that the additional investigation was needed near the southeast corner of the Site. If I am mistaken about the location of the additional investigation, please let me know.

Piper Surveying Company was requested by Texaco to locate the former emergency pits using aerial photographs, landmarks and property boundaries. Figure 1 presents the location of the emergency pits, property boundaries and former borings. Figure 1 suggests that one of the former pits may have extended west of the J. C. Turner property, near the southwest corner of the Site. Upon entering the

Site the surveyor will stake the corners of the westernmost pit. Three additional borings will be drilled in the area of the pit at the approximate locations shown on Figure 1.

The borings will be drilled using a truck-mounted air-rotary drilling rig. Each boring will be continuously cored for a minimum of 20' with soil samples collected every two feet using a split-spoon or core sampler. The recovered core for each sampled interval will be photographed and then split approximately ¼ x ¼ x ½. One quarter of the core will be used to fill a clean glass sample jar that is sealed with a Teflon lined cap. The sample jar will then be labeled, chilled in an ice chest, and delivered under chain-of-custody control to the laboratory. The second quarter of the core will be placed in a clean glass sample jar sealed with aluminum foil and set aside to warm up to ambient temperature for field-screening for petroleum hydrocarbons. The remainder of the core will be available for split samples, etc. The field screening for petroleum hydrocarbons will utilize the Ambient Temperature Headspace (ATH) method. The concentration of organic vapors in the sample jar will be recorded in parts per million (ppm) using a photoionization detector (PID). The probe of the PID will be inserted into the headspace of the jar (through the aluminum foil) after the sample has reached ambient temperature (approximately 15 minutes). The PID will be calibrated prior to use.

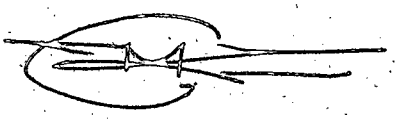
All samples collected from the boring closest to the center of the staked area will be submitted to the laboratory for analysis. The soil sample exhibiting the highest headspace gas reading and the deepest sample, as well as any other samples with apparent highly visible contamination, from each of the other two borings will also be submitted for analysis.

The NMOCD, in accordance with its guidelines ("Guidelines for Unlined Surface Impoundment Closure, February 1993"), allows a PID measurement of less than 100 ppm to be substituted for laboratory analysis of benzene and total BTEX. Using this field screening method the borings will be drilled to a depth where the PID reading is less than 50 ppm or 20', whichever is greater. All samples will be analyzed for total petroleum hydrocarbons (method 8015B), chlorides, and BTEX (method 8260B).

The borings will be filled with portland cement and bentonite grout, and soil cuttings will be placed adjacent to the borings until disposal is arranged, if necessary. All down-hole equipment (i.e., drilling rods, bit, etc.) will be thoroughly decontaminated between each use with high-pressure hot water. All soil sampling equipment (i.e., split-spoon sampler, core sampler, etc.) will be thoroughly washed between events with potable water and laboratory-grade detergent, and rinsed with distilled water.

A report and remediation plan will be prepared following receipt of the laboratory reports. Texaco will provide the NMOCD with 48 hours notice prior to conducting the investigation. Please call Mr. Robert Patterson with Texaco at (915) 688-4836 or myself at (915) 687-0901 if you have questions.

Respectfully yours,
Larson & Associates, Inc.



Mark J. Larson, CPG, CGWP
President

Encl.

cc: Mr. Robert Patterson
Mr. Chris Williams

FIGURES

2501 Learmont Drive ◇ Midland, Texas 79705 ◇ Ph. (915) 687-0901 ◇ Fax (915) 687-0456

U.S. HIGHWAY NO. 62

Surveys and signed by Gary L. Jones, PLS-7977.
Note: Boring locations are located by Map by Basin

SURVEY of TURNER TRACT FENCE,
OUTLINE of PITS, AND BORE HOLES
LOCATED in SECTION 30, T-18-S, R-39-E,
LEA COUNTY, NEW MEXICO

TURNER TRACT

N

50 0 100
SCALE in FEET

LEGEND

BH-1 ○ EXISTING BORING LOCATION

⊙ PROPOSED BORING LOCATION

Pits shown on Aerial
February 14, &
May 12, 1967

BH-2 BH-1 BH-3 BH-4 BH-5 BH-9 BH-8 BH-6 BH-7 BH-11 BH-10

AFTER PIPER SURVEYING, 8/11/2000

FIGURE #1

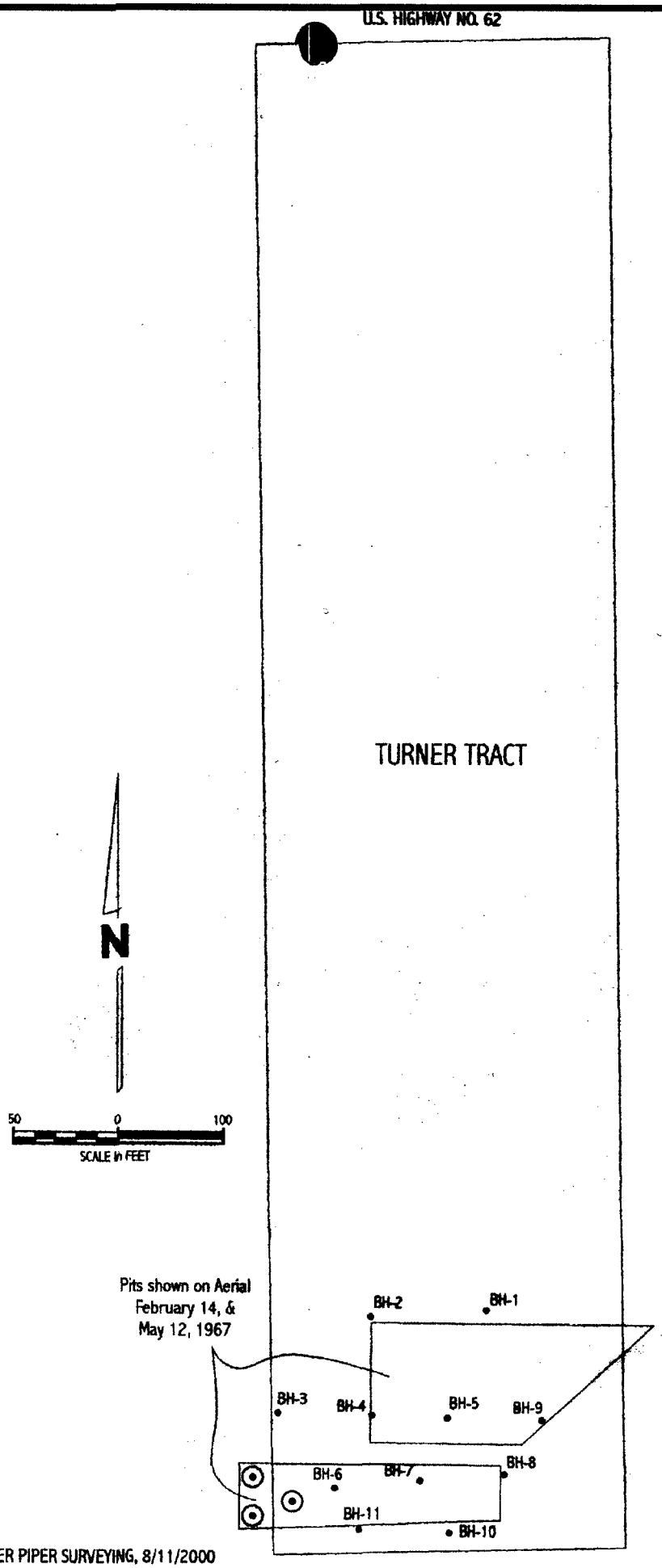
LEA COUNTY, NEW MEXICO

TEXACO
EXPLORATION & PRODUCTION INC.
J.C TURNER PROPERTY

SITE DRAWING

DATE: 9/4/00
NAME:
FILE: 00-0107

Larson & Associates, Inc.
Environmental Consultants



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⊙ PROPOSED BORING LOCATION

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LEA COUNTY, NEW MEXICO

TEXACO
EXPLORATION & PRODUCTION INC.
J.C TURNER PROPERTY

SITE DRAWING

DATE: 9/4/00
NAME:
FILE: 00-0107

Larson & Associates, Inc.
Environmental Consultants

Price, Wayne

From: Price, Wayne

Sent: Friday, October 27, 2000 3:21 PM

To: 'Patterson, Robert H '

Subject: RE: address

Thanks! I discussed the Texaco- Ferguson plan with Mark Larson. OCD would like to see the sampling technique change, our normal procedure requires the sample to be placed directly into the sample jar and not into a bag to be mixed. Our experience is that you can lose volatiles that way. I would also like to see samples taken where there is highly visible contamination. Please re-submit the plan with these changes. If you have any questions please call me!

From: Patterson, Robert H [SMTP:patterh@texaco.com]

Sent: Friday, October 27, 2000 3:17 PM

To: Price, Wayne

Subject: address

My mailing address for now is:

Texaco Exploration and Production, Inc.

P. O. Box 3109

Midland, Texas 79702

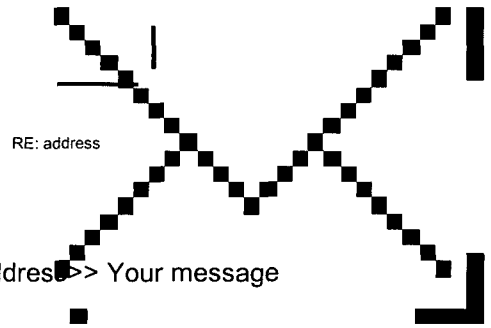
Price, Wayne

From: System Administrator[SMTP:postmaster@texaco.com]

Sent: Friday, October 27, 2000 3:25 PM

To: Price, Wayne

Subject: Delivered: RE: address



<<RE: address>> Your message

To: 'Patterson, Robert H '

Subject: RE: address

Sent: Fri, 27 Oct 2000 16:21:21 -0500

was delivered to the following recipient(s):

Patterson, Robert H on Fri, 27 Oct 2000 16:25:22 -0500

MSEXCH:MSExchangeMTA:MSXUSA:MSX01021

LARSON & Associates, Inc.
Environmental Consultants

RECEIVED
OCT 16 2000

October 10, 2000

Mr. Wayne Price
Petroleum Engineer Specialist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

Re: **Scope of Work for Continued Investigation, D. F. Fergason Lease, NE/4 Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico**

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will be drilled using a truck-mounted air-rotary drilling rig at the approximate locations shown on Figure 1. Soil samples will be collected approximately every 5 or 10 feet using a split-spoon or core sampler for field screening and possible laboratory analysis. Each sample will be collected in a clean plastic sample bag, mixed and immediately placed in a clean glass sample jar. The sample jars will be labeled, chilled in an ice chest, and delivered to the laboratory, under chain-of-custody control to the laboratory. The remainder of the sample will be retained in the sample bag, sealed and field-screened for petroleum hydrocarbons Ambient Temperature Headspace (ATH) method. The concentration of organic vapors in the sample bag headspace will be recorded in parts per million (ppm) using a photoionization detector (PID). The probe of the PID will be inserted into the headspace of the sample bag after the sample has reached ambient temperature (approximately 15 minutes). The PID will be calibrated prior to use, and the soil sample exhibiting the highest headspace gas reading and the deepest sample from each boring will be selected for laboratory analysis. The NMOCD, in accordance with its guidelines ("Guidelines for Unlined Surface Impoundment Closure, February 1993"), allows a PID measurement of 100 ppm to be substituted for laboratory analysis of benzene and total BTEX (sum of benzene, toluene, ethylbenzene and xylene). The samples will be analyzed for total petroleum hydrocarbon (TPH) by method 8015 (gasoline and diesel range hydrocarbons) and chloride. Samples exhibiting PID readings above 100 ppm will also be tested for BTEX by method 8021B.

The borings will be filled with portland cement and bentonite grout, and soil cuttings will be placed adjacent to the borings until disposal is arranged, if necessary. All down-hole equipment (i.e., drilling rods, bit, etc.) will be thoroughly decontaminated between each use with a high-pressure hot water. All soil sampling equipment (i.e., split-spoon sampler, core sampler, etc.) will be thoroughly washed between events with potable water and laboratory-grade detergent, and rinsed with distilled water.

A report and remediation plan will be prepared following receipt of the laboratory reports. Texaco will provide the NMOCD with 48 hours notice prior to conducting the investigation. Please call Mr. Robert Patterson with Texaco at (915) 688-4836 or myself at (915) 687-0901 if you have questions.

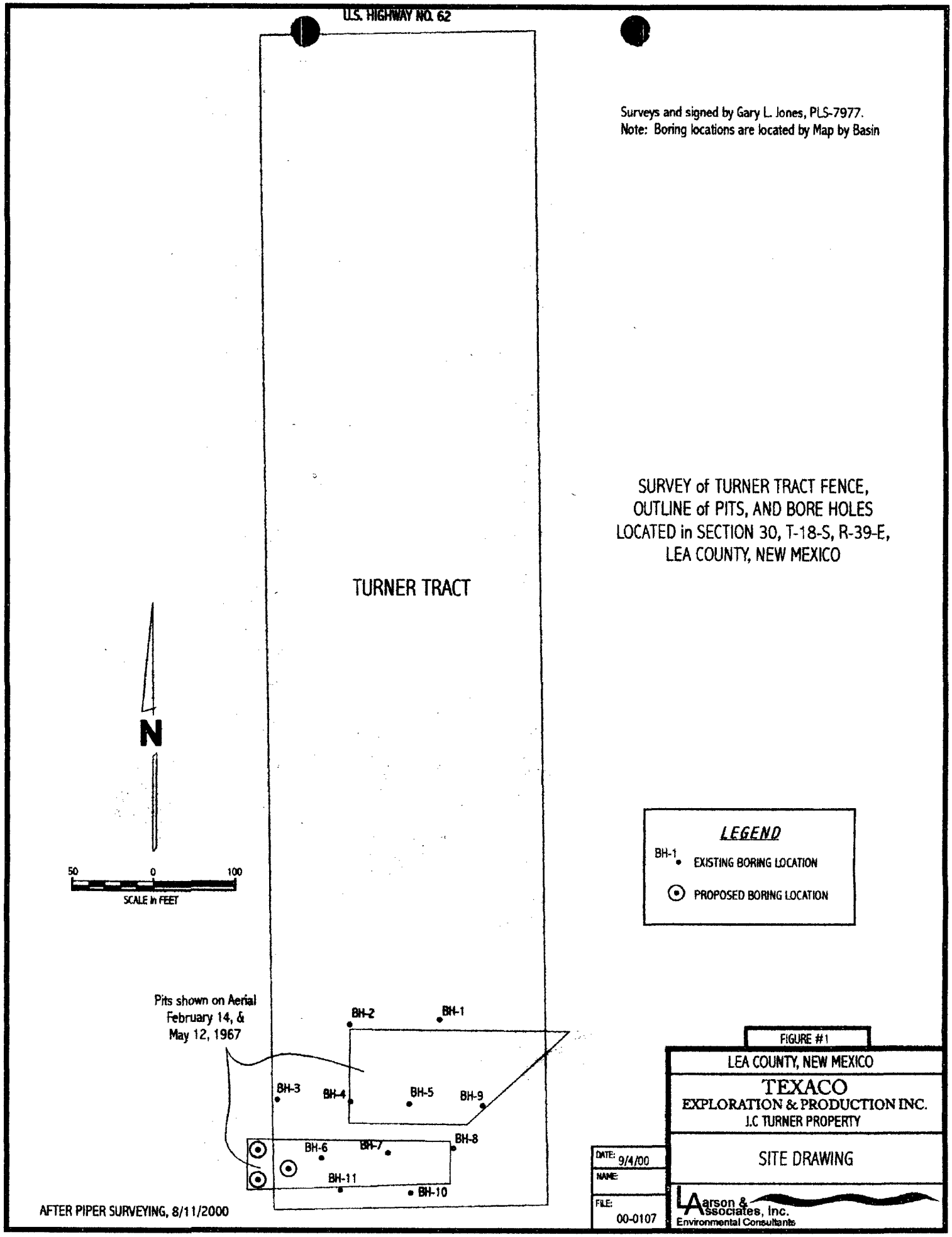
Respectfully yours,
LARSON & Associates, Inc.

Mark J. Larson, CPG, CGWP
President

Encl.

cc: Mr. Robert Patterson

FIGURES



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LEA COUNTY, NEW MEXICO

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LEA COUNTY, NEW MEXICO

TEXACO
EXPLORATION & PRODUCTION INC.
J.C TURNER PROPERTY

SITE DRAWING

DATE: 9/4/00
NAME:
FILE: 00-0107

Larson & Associates, Inc.
Environmental Consultants

Price, Wayne

From: Price, Wayne
Sent: Friday, September 15, 2000 1:15 PM
To: 'patterh@texaco.com'; Price, Wayne
Subject: RE: Texaco Ferguson Battery Pit Closure

From: Price, Wayne
Sent: Friday, September 15, 2000 1:14 PM
To: 'patterh@texaco.com'
Subject: Texaco Ferguson Battery Pit Closure

Please find enclosed a copy of the memorandum of meeting held on 6-14-00.

OCD has not heard from Texaco on this matter. Please submit a plan to address the additional investigation work for the pit closure as discussed during our meeting. Please submit by October 16, 2000.

<<File: 6-14meet.doc>>

Price, Wayne

From: System Administrator[SMTP:postmaster@texaco.com]
Sent: Friday, September 15, 2000 1:17 PM
To: Price, Wayne
Subject: Delivered: RE: Texaco Ferguson Battery Pit Closure

[redacted]

RE: Texaco Ferguson Battery Pit Closure

<<RE: Texaco Ferguson Battery Pit Closure>> Your message

To: 'patterh@texaco.com'; Price, Wayne
Subject: RE: Texaco Ferguson Battery Pit Closure
Sent: Fri, 15 Sep 2000 14:15:36 -0500

was delivered to the following recipient(s):

Patterson, Robert H on Fri, 15 Sep 2000 14:17:41 -0500
MSEXCH:MSExchangeMTA:MSXUSA:MSX01021

Price, Wayne

From: Price, Wayne
Sent: Thursday, June 22, 2000 4:24 PM
To: 'patterh@texaco.com'
Subject: Minutes & Copy of photos from 6/14/00 meeting


Memo.jpg


Scan1.jpg


Scan10.jpg


Scan11.jpg


Scan12.jpg


Scan13.jpg


Scan14.jpg


Scan15.jpg


Scan16.jpg


Scan17.jpg


Scan18.jpg


Scan19.jpg


Scan2.jpg


Scan3.jpg


Scan4.jpg


Scan6.jpg


Scan5.jpg


Scan7.jpg


Scan8.jpg


Scan9.jpg

NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

Memorandum of Meeting or Conversation

Telephone ____
Personal _X_
E-Mail ____

Time: 1 pm
Date: 6-14-00

Originating Party: **Texaco- Robert Patterson, Mark Larson - Highlander**

Other Parties: **Wayne Price, Bill Olson, Roger Anderson-OCD**

Subject: **Texaco Ferguson Battery Pit Closure**

Discussion:

Texaco requested a meeting concerning pit closure investigation and closure plans. OCD presented investigation results from landowners. OCD requested Texaco to perform additional investigation of the SE area of the pit and present remediation plan for the on-site contamination. OCD copied Texaco on landowners findings.

Conclusions or Agreements:

Texaco requested time to discuss issue with their environmental consultant and attorneys. OCD will be notified in the near future concerning a plan to address the pit closure. OCD will E-mail pictures taken by landowners representative.

Signed: _____

CC: **Robert Patterson-Texaco**
Mr. Bill Robins III
OCD Hobbs Office

NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

Memorandum of Meeting or Conversation

Telephone ____
Personal __X_
E-Mail ____

Time: 1 pm
Date: 6-14-00

Originating Party: **Texaco- Robert Patterson, Mark Larson - Highlander**

Other Parties: **Wayne Price, Bill Olson, Roger Anderson-OCD**

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Signed: Wayne Price

CC: **Robert Patterson-Texaco**
Mr. Bill Robins III
OCD Hobbs Office

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

November 8, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Prep Date: 11/08/99
Analysis Date: 11/08/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Turner

TA#	FIELD CODE	TOTAL Hg (mg/L)
T133578	9910151225	<0.0002
ICV		0.00104
CCV		0.00104
REPORTING LIMIT		0.0002
RPD		0
% Extraction Accuracy		110
% Instrument Accuracy		104

METHODS: EPA 7470A
CHEMIST: BP
TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg.
TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

BL

Director, Dr. Blair Leftwich

11-8-99

Date

Cation-Anion Balance Sheet

Sample # 133578 Date: 10/27/99

Cations

	ppm	meq/L
Calcium	91	4.5409
Magnesium	24	1.97496
Sodium	40	1.74
Potassium	3.9	0.099762

Total Cations
8.35562 in meq/L

Anions

	ppm	meq/L
Alkalinity	146	2.92
Sulfate	100	2.082
Chloride	110	3.1031
Nitrate as N	5.1	0.364089
Fluoride	1.8	0.094752

Total Anions
8.56394 in meq/L

Percentage Error
2.46246 %
(needs to be <10%)

OTHER INFORMATION

TDS	470
EC	820

Measure EC and Cation Sums	835.5622	Range should be:	738	to	902
Measure EC and Anion Sums	856.3941	Range should be:	738	to	902
Calculated TDS/Conductivity	0.5731707	Range should be:	0.55	to	0.77
Measure TDS and Cation Sums	0.5624955	Range should be:	0.55	to	0.77
Measure TDS and Anion Sums	0.5488127	Range should be:	0.55	to	0.77

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Extraction Date: 10/18/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Turner

FIELD CODE: 9910151225

TA #: T133578

EPA 8270 COMPOUNDS	Reporting Limit (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
N-Nitrosodimethylamine	0.005	ND				
2-Picoline	0.005	ND				
Methyl methanesulfonate	0.005	ND				
Ethyl methanesulfonate	0.005	ND				
Phenol	0.005	ND	63	0	46	105
Aniline	0.005	ND				
bis(2-Chloroethyl)ether	0.005	ND				
2-Chlorophenol	0.005	ND		2	111	
1,3-Dichlorobenzene	0.005	ND				
1,4-Dichlorobenzene	0.005	ND	59	0	79	98
Benzyl alcohol	0.005	ND				
1,2-Dichlorobenzene	0.005	ND				
2-Methylphenol	0.005	ND				
bis(2-chloroisopropyl)ether	0.005	ND				
4-Methylphenol/3-Methylphenol	0.005	ND				
Acetophenone	0.005	ND				
n-Nitrosodi-n-propylamine	0.005	ND		2	138	
Hexachloroethane	0.005	ND				
Nitrobenzene	0.005	ND				
N-Nitrosopiperidine	0.005	ND				
Isophorone	0.005	ND				
2-Nitrophenol	0.005	ND	59			98
2,4-Dimethylphenol	0.005	ND				
bis(2-Chloroethoxy)methane	0.005	ND				
Benzoic acid	0.005	ND				
2,4-Dichlorophenol	0.005	ND	61			102
1,2,4-Trichlorobenzene	0.005	ND		1	83	
a,a-Dimethylphenethylamine	0.005	ND				
Naphthalene	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151225

TA #: T133578

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Chloroaniline	0.005	ND				
2,6-Dichlorophenol	0.005	ND				
Hexachlorobutadiene	0.005	ND	59			99
N-Nitroso-di-n-butylamine	0.005	ND				
4-Chloro-3-methylphenol	0.005	ND	62	4	114	104
2-Methylnaphthalene/1-Methylnaphthalene	0.005	ND				
1,2,4,5-Tetrachlorobenzene	0.005	ND				
Hexachlorocyclopentadiene	0.005	ND				
2,4,6-Trichlorophenol	0.005	ND	62			103
2,4,5-Trichlorophenol	0.005	ND				
2-Chloronaphthalene	0.005	ND				
1-Chloronaphthalene	0.005	ND				
2-Nitroaniline	0.005	ND				
Dimethylphthalate	0.005	ND				
Acenaphthylene	0.005	ND				
2,6-Dinitrotoluene	0.005	ND				
3-Nitroaniline	0.005	ND				
Acenaphthene	0.005	ND	60	1	116	100
2,4-Dinitrophenol	0.005	ND				
Dibenzofuran	0.005	ND				
Pentachlorobenzene	0.005	ND				
4-Nitrophenol	0.005	ND		16	37	
1-Napthylamine	0.005	ND				
2,4-Dinitrotoluene	0.005	ND		12	112	
2-Napthylamine	0.005	ND				
2,3,4,6-Tetrachlorophenol	0.005	ND				
Fluorene	0.005	ND				
Diethylphthalate	0.005	ND				
4-Chlorophenyl-phenylether	0.005	ND				
4-Nitroaniline	0.005	ND				
4,6-Dinitro-2-methylphenol	0.005	ND				
n-Nitrosodiphenylamine & Diphenylamine	0.005	ND	62			103
Diphenylhydrazine	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151225
TA #: T133578

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidine	0.005	ND				
Pyrene	0.005	ND		3	103	
p-Dimethylaminoazobenzene	0.005	ND				
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	ND				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			97
Benzo[b]fluoranthene	0.005	ND				
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzo[g,h,i]perylene	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151225
TA #: T133578

SURROGATES	% RECOVERY
2-Fluorophenol SURR	61
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	107
2-Fluorobiphenyl SURR	118
2,4,6-Tribromophenol SURR	94
Terphenyl-d14 SURR	106

METHODS: EPA SW 846-3510C, 8270C
CHEMIST: MA

Director, Dr. Blair Leftwich

10-27-95
Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

Prep Date: 10/19/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Turner

FIELD CODE: 9910151225
TA #: T133578

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dichlorodifluoromethane	2	ND				
Chloromethane	2	ND				
Vinyl chloride	2	ND	97			97
Bromomethane	5	ND				
Chloroethane	2	ND				
Trichlorofluoromethane	2	ND				
1,1-Dichloroethene	2	ND	95	1	96	95
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	2	ND				
1,1-Dichloroethane	2	ND				
cis-1,2-Dichloroethene	2	ND				
Chloroform	2	ND	93			93
2,2-Dichloropropane	2	ND				
Bromochloromethane	2	ND				
1,2-Dichloroethane	2	ND				
1,1,1-Trichloroethane	2	ND				
Carbon Tetrachloride	2	ND				
1,1-Dichloropropene	2	ND				
Benzene	2	ND		1	92	
1,2-Dichloropropane	2	ND	103			103
Trichloroethene	2	ND		0	93	
Dibromomethane	2	ND				
Bromodichloromethane	2	ND				
cis-1,3-Dichloropropene	2	ND				
trans-1,3-Dichloropropene	2	ND				
Toluene	2	ND	101	2	94	101
1,1,2-Trichloroethane	2	ND				
1,3-Dichloropropane	2	ND				
MTBE	2	ND				

FIELD CODE: 9910151225
TA #: T133578

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND				
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
Isopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chlorotoluene	2	ND				
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

	% Recovery
Dibromofluoromethane	108
Toluene-d8	11
4-Bromofluorobenzene	90

ND = Not Detected
Methods: EPA SW 846-5035, 8260B
CHEMIST: JG

Director, Dr. Blair Leftwich

10-27-95

Date

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Bill Olson
OCD
2040 S. Pacheco
Santa Fe, NM 87505

Report Date: 10/27/99

Project Number: N/A
Project Name: Texaco-Turner
Project Location: East Hobbs Pool Area

Order ID Number: 99101604

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133578	9910151225	Water	10/15/99	12:25	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 133578
Description: 9910151225

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Bicarbonate Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Total Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Conductivity (uMHOS/cm)										
Specific Conductance		820	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		110	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.8	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.1	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		100	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
* Nitrate-N - Sample ran out of holding time for NO3.										
pH (s.u.)										
pH	*	7.3	1	E 150.1	10/16/99	10/16/99	RS	PB02741	QC03443	1
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		470	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Arsenic		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Barium		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Boron		0.17	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Cadmium		<0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.01
Total Calcium		91	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Chromium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Copper		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Lead		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Magnesium		24	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Manganese		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Molybdenum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Nickel		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Potassium		3.9	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Selenium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Silica		22	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.5
Total Silver		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Sodium		40	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Zinc		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Specific Conductance (uMHOS/cm)		17.2		10/20/99	PB02766	QC03472

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
CL (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		<0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		<0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Aluminum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Arsenic (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Barium (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Boron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Cadmium (mg/L)		<0.01	0.01	10/21/99	PB02751	QC03544
Total Calcium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Chromium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Cobalt (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Copper (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Iron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Lead (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Magnesium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Manganese (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Molybdenum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Nickel (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Potassium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Selenium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Silica (mg/L)		<0.50	0.5	10/21/99	PB02751	QC03544
Total Silver (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Sodium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Zinc (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544

Quality Control Report
Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	1	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	1	62.5	168.25	109	1	80 - 120	0 - 20	QC03457

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	QC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	<0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	<0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	106		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	<0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	<0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report
Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance (uMHOS/cm)		1353	1400	1	3	0 - 20	QC03472

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)		7.3	7.3	1	0	0 - 20	QC03443

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids (mg/L)		449	440	1	2	0 - 20	QC03455

Quality Control Report
Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Total Aluminum (mg/L)	<0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	<0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	<0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	<0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	<0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	<0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	<0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	<0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	<0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	<0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
ICV	Bicarbonate Alkalinity (mg/L as CaCo3)		0	110	0	80 - 120	10/22/99	QC03559
ICV	Total Alkalinity (mg/L as CaCo3)		2400	2110	88	80 - 120	10/22/99	QC03559
CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
CCV (1	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3)		0	220	0	80 - 120	10/22/99	QC03559
CCV (1	Total Alkalinity (mg/L as CaCo3)		2400	2220	93	80 - 120	10/22/99	QC03559

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Specific Conductance (uMHOS/cm)		1413	1306	92	80 - 120	10/20/99	QC03472
CCV (1	Specific Conductance (uMHOS/cm)		1413	1331	94	80 - 120	10/20/99	QC03472

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	CL (mg/L)		12.5	11.76	94	80 - 120	10/18/99	QC03457
ICV	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
ICV	Nitrate-N (mg/L)		5	4.84	97	80 - 120	10/18/99	QC03457
ICV	Sulfate (mg/L)		12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1	CL (mg/L)		12.5	11.75	94	80 - 120	10/18/99	QC03457
CCV (1	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
CCV (1	Nitrate-N (mg/L)		5	4.85	97	80 - 120	10/18/99	QC03457
CCV (1	Sulfate (mg/L)		12.5	12.45	100	80 - 120	10/18/99	QC03457

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
CCV (1	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Dissolved Solids (mg/L)		1000	987	99	80 - 120	10/19/99	QC03455
CCV (1	Total Dissolved Solids (mg/L)		1000	1004	100	80 - 120	10/19/99	QC03455

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Aluminum (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Arsenic (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	QC03544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	QC03544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Cobalt (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
ICV	Total Selenium (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	QC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (1	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544

133578

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99101604

Company Name: OCD
Phone #: (505) 827-7154
Address: (Street, City, Zip) 2040 S. Pacheco Santa Fe NM 87505
Fax #: (505) 827-8177
Contact Person: BILL OLSON
Invoice to: (If different from above)
Project #:
Project Name: Texaco - Turney
Project Location: East Hobbs Pool Area
Sampler Signature: WAYNE PRICE

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	NaHSO4	SAMPLING: DATE	TIME
133578	9910151225	2	40ml	X						X		X	10/15/99	1225
	9910151225	1	40ml	X					X	X			10/15/99	1226
	9910151225	1	1000ml	X						X			10/15/99	1227
	9910151225	1	1gt	X						X			10/15/99	1227

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	X 8260	X OCD METALS + CV Hg	X 8270	X OCD GEN CHEM	Turn Around Time If different from standard	Hold

Relinquished by: Wayne Price Date: 10/15/99 Time: 1:39pm
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Jennifer Schmidt Date: 10/16/99 Time: 1000

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2°
Log-in Review

REMARKS: 10/28

Carrier # Bus 902-259-2568

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

November 8, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Prep Date: 11/08/99
Analysis Date: 11/08/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Rodriquez

TA#	FIELD CODE	TOTAL Hg (mg/L)
T133577	9910151303	0.00036
ICV		0.00104
CCV		0.00104
REPORTING LIMIT		0.0002
RPD		0
% Extraction Accuracy		110
% Instrument Accuracy		104

METHODS: EPA 7470A
CHEMIST: BP
TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg.
TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

Director, Dr. Blair Leftwich

11-8-99
Date

Cation-Anion Balance Sheet

Sample # 133577 Date: 10/27/99

Cations

	ppm	meq/L
Calcium	163	8.1337
Magnesium	44	3.62076
Sodium	60	2.61
Potassium	5	0.1279

Total Cations
14.4924 in meq/L

Anions

	ppm	meq/L
Alkalinity	119	2.38
Sulfate	160	3.3312
Chloride	290	8.1809
Nitrate as N	5	0.35695
Fluoride	1.6	0.084224

Total Anions
14.3333 in meq/L

Percentage Error
1.10378 %
(needs to be <10%)

OTHER INFORMATION

TDS	740
EC	1400

Measure EC and Cation Sums	1449.236	Range should be:	1260	to	1540
Measure EC and Anion Sums	1433.3274	Range should be:	1260	to	1540
Calculated TDS/Conductivity	0.5285714	Range should be:	0.55	to	0.77
Measure TDS and Cation Sums	0.5106139	Range should be:	0.55	to	0.77
Measure TDS and Anion Sums	0.5162812	Range should be:	0.55	to	0.77

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

Prep Date: 10/19/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303
TA #: T133577

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dichlorodifluoromethane	2	ND				
Chloromethane	2	ND				
Vinyl chloride	2	ND	97			97
Bromomethane	5	ND				
Chloroethane	2	ND				
Trichlorofluoromethane	2	ND				
1,1-Dichloroethene	2	ND	95	1	96	95
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	2	ND				
1,1-Dichloroethane	2	ND				
cis-1,2-Dichloroethene	2	ND				
Chloroform	2	ND	93			93
2,2-Dichloropropane	2	ND				
Bromochloromethane	2	ND				
1,2-Dichloroethane	2	ND				
1,1,1-Trichloroethane	2	ND				
Carbon Tetrachloride	2	ND				
1,1-Dichloropropene	2	ND				
Benzene	2	ND		1	92	
1,2-Dichloropropane	2	ND	103			103
Trichloroethene	2	ND		0	93	
Dibromomethane	2	ND				
Bromodichloromethane	2	ND				
cis-1,3-Dichloropropene	2	ND				
trans-1,3-Dichloropropene	2	ND				
Toluene	2	ND	101	2	94	101
1,1,2-Trichloroethane	2	ND				
1,3-Dichloropropane	2	ND				
MTBE	2	ND				

FIELD CODE: 9910151303
TA #: T133577

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND				
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
Isopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chlorotoluene	2	ND				
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

	% Recovery
Dibromofluoromethane	109
Toluene-d8	111
4-Bromofluorobenzene	89

ND = Not Detected
Methods: EPA SW 846-5035, 8260B
CHEMIST: JG

Director, Dr. Blair Leftwich

10-27-99
Date

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Extraction Date: 10/18/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303
TA #: T133577

EPA 8270 COMPOUNDS	Reporting Limit (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
N-Nitrosodimethylamine	0.005	ND				
2-Picoline	0.005	ND				
Methyl methanesulfonate	0.005	ND				
Ethyl methanesulfonate	0.005	ND				
Phenol	0.005	ND	63	0	46	105
Aniline	0.005	ND				
bis(2-Chloroethyl)ether	0.005	ND				
2-Chlorophenol	0.005	ND		2	111	
1,3-Dichlorobenzene	0.005	ND				
1,4-Dichlorobenzene	0.005	ND	59	0	79	98
Benzyl alcohol	0.005	ND				
1,2-Dichlorobenzene	0.005	ND				
2-Methylphenol	0.005	ND				
bis(2-chloroisopropyl)ether	0.005	ND				
4-Methylphenol/3-Methylphenol	0.005	ND				
Acetophenone	0.005	ND				
n-Nitrosodi-n-propylamine	0.005	ND		2	138	
Hexachloroethane	0.005	ND				
Nitrobenzene	0.005	ND				
N-Nitrosopiperidine	0.005	ND				
Isophorone	0.005	ND				
2-Nitrophenol	0.005	ND	59			98
2,4-Dimethylphenol	0.005	ND				
bis(2-Chloroethoxy)methane	0.005	ND				
Benzoic acid	0.005	ND				
2,4-Dichlorophenol	0.005	ND	61			102
1,2,4-Trichlorobenzene	0.005	ND		1	83	
a,a-Dimethylphenethylamine	0.005	ND				
Naphthalene	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151303

TA #: T133577

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Chloroaniline	0.005	ND				
2,6-Dichlorophenol	0.005	ND				
Hexachlorobutadiene	0.005	ND	59			99
N-Nitroso-di-n-butylamine	0.005	ND				
4-Chloro-3-methylphenol	0.005	ND	62	4	114	104
2-Methylnaphthalene/1-Methylnaphthalene	0.005	ND				
1,2,4,5-Tetrachlorobenzene	0.005	ND				
Hexachlorocyclopentadiene	0.005	ND				
2,4,6-Trichlorophenol	0.005	ND	62			103
2,4,5-Trichlorophenol	0.005	ND				
2-Chloronaphthalene	0.005	ND				
1-Chloronaphthalene	0.005	ND				
2-Nitroaniline	0.005	ND				
Dimethylphthalate	0.005	ND				
Acenaphthylene	0.005	ND				
2,6-Dinitrotoluene	0.005	ND				
3-Nitroaniline	0.005	ND				
Acenaphthene	0.005	ND	60	1	116	100
2,4-Dinitrophenol	0.005	ND				
Dibenzofuran	0.005	ND				
Pentachlorobenzene	0.005	ND				
4-Nitrophenol	0.005	ND		16	37	
1-Napthylamine	0.005	ND				
2,4-Dinitrotoluene	0.005	ND		12	112	
2-Napthylamine	0.005	ND				
2,3,4,6-Tetrachlorophenol	0.005	ND				
Fluorene	0.005	ND				
Diethylphthalate	0.005	ND				
4-Chlorophenyl-phenylether	0.005	ND				
4-Nitroaniline	0.005	ND				
4,6-Dinitro-2-methylphenol	0.005	ND				
n-Nitrosodiphenylamine & Diphenylamine	0.005	ND	62			103
Diphenylhydrazine	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151303
TA #: T133577

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidine	0.005	ND				
Pyrene	0.005	ND		3	103	
p-Dimethylaminoazobenzene	0.005	ND				
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	ND				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			97
Benzo[b]fluoranthene	0.005	ND				
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzo[g,h,i]perylene	0.005	ND				

OCD
Attention: Bill Olson
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Santa Fe, New Mexico 87505

FIELD CODE: 9910151303
TA #: T133577

SURROGATES	% RECOVERY
2-Fluorophenol SURR	63
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	116
2-Fluorobiphenyl SURR	121
2,4,6-Tribromophenol SURR	100
Terphenyl-d14 SURR	101

METHODS: EPA SW 846-3510C, 8270C
CHEMIST: MA

Director, Dr. Blair Leftwich

10-27-95
Date

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Bill Olson
OCD
2040 S. Pacheco
Santa Fe, NM 87505

Report Date: 10/27/99

Project Number: N/A
Project Name: Texaco-Rodriquez
Project Location: East Hobbs Pool Area

Order ID Number: 99101603

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133577	9910151303	Water	10/15/99	13:03	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 133577
Description: 9910151303

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Bicarbonate Alkalinity		119	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Total Alkalinity		119	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Conductivity (uMHOS/cm)										
Specific Conductance		1400	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		290	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.6	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.0	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		160	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
* Nitrate-N - Sample ran out of holding time for NO3.										
pH (s.u.)										
pH	*	7.3	1	E 150.1	10/16/99	10/16/99	RS	PB02741	QC03443	1
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		740	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Arsenic		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Barium		0.12	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Boron		0.18	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Cadmium		<0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.01
Total Calcium		163	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Chromium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Copper		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Lead		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Magnesium		44	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Manganese		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Molybdenum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Nickel		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Potassium		5.0	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Selenium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Silica		21	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.5
Total Silver		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Sodium		60	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Zinc		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Specific Conductance (uMHOS/cm)		17.2		10/20/99	PB02766	QC03472

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
CL (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		<0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		<0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Aluminum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Arsenic (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Barium (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Boron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Cadmium (mg/L)		<0.01	0.01	10/21/99	PB02751	QC03544
Total Calcium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Chromium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Cobalt (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Copper (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Iron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Lead (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Magnesium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Manganese (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Molybdenum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Nickel (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Potassium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Selenium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Silica (mg/L)		<0.50	0.5	10/21/99	PB02751	QC03544
Total Silver (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Sodium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Zinc (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544

Quality Control Report
Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	1	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	1	62.5	168.25	109	1	80 - 120	0 - 20	QC03457

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	QC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	<0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	<0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	106		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	<0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	<0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report
Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance (uMHOS/cm)		1353	1400	1	3	0 - 20	QC03472

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)		7.3	7.3	1	0	0 - 20	QC03443

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids (mg/L)		449	440	1	2	0 - 20	QC03455

Quality Control Report
Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Total Aluminum (mg/L)	<0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	<0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	<0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	<0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	<0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	<0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	<0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	<0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	<0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	<0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
ICV	Bicarbonate Alkalinity (mg/L as CaCo3)		0	110	0	80 - 120	10/22/99	QC03559
ICV	Total Alkalinity (mg/L as CaCo3)		2400	2110	88	80 - 120	10/22/99	QC03559
CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
CCV (1	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3)		0	220	0	80 - 120	10/22/99	QC03559
CCV (1	Total Alkalinity (mg/L as CaCo3)		2400	2220	93	80 - 120	10/22/99	QC03559

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Specific Conductance (uMHOS/cm)		1413	1306	92	80 - 120	10/20/99	QC03472
CCV (1	Specific Conductance (uMHOS/cm)		1413	1331	94	80 - 120	10/20/99	QC03472

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	CL (mg/L)		12.5	11.76	94	80 - 120	10/18/99	QC03457
ICV	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
ICV	Nitrate-N (mg/L)		5	4.84	97	80 - 120	10/18/99	QC03457
ICV	Sulfate (mg/L)		12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1	CL (mg/L)		12.5	11.75	94	80 - 120	10/18/99	QC03457
CCV (1	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
CCV (1	Nitrate-N (mg/L)		5	4.85	97	80 - 120	10/18/99	QC03457
CCV (1	Sulfate (mg/L)		12.5	12.45	100	80 - 120	10/18/99	QC03457

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
CCV (1	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Dissolved Solids (mg/L)		1000	987	99	80 - 120	10/19/99	QC03455
CCV (1	Total Dissolved Solids (mg/L)		1000	1004	100	80 - 120	10/19/99	QC03455

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Aluminum (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Arsenic (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	QC03544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	QC03544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Cobalt (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
ICV	Total Selenium (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	QC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (1	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544

133577

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99101603

Company Name: OCD
Phone #: (505) 827-7154
Address: (Street, City, Zip) 2040 S. PACHECO SANTA FE
Fax #: 505 827-8177
Contact Person: BILL OLSON
Invoice to: (If different from above)
Project #:
Project Name: Texaco - Rodriquez
Project Location: EAST Hobbs Pool Area
Sampler Signature: WAYNE PRICE

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	mal H2SO4	SAMPLING: DATE	TIME
133577	9910151303	2	40ml	X						X		X	10/15/99	1303
	9910151303	1	400ml	X					X	X			10/15/99	1304
	9910151303	1	1000ml	X						X			10/15/99	1306
	9910151303	1	1qt	X						X			10/15/99	1308

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	8260	OCD METALS + CV Hg	8270	OCD GW CHEM	Turn Around Time if different from standard	Hold
															X	X	X	X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Wayne Price	10/15/99	1:34 PM			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Jennifer Schmidt	10/16/99	1000

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 1 °
Log-in Review

REMARKS: 10/28

Carrier # Bus - 902 259 2579

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

January 13, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. Z 142 564 924

MR. Eddie Seay
601 W. Illinois
Hobbs, NM 88240

Re: Texaco/Turner/Rodriquez

Subject: Analytical Results from Water Wells

Dear Mr. Seay:

Please find enclosed a copy of the analytical results from the recent water well sampling which was conducted by the New Mexico Oil Conservation Division (NMOCD) on 10/15/99. Pursuant to our telephone conversation NMOCD understands you will distribute copies to the Turners' and Rodriquezs'. If they have any specific questions please do not hesitate to contact the NMOCD.

The only water quality constituent that exceed the Water Quality Control Commission (WQCC) regulation limits was chlorides found at 290 mg/l for the Rodriquez well. The WQCC limit is 250 mg/l.

Please note the NMOCD had requested information in our October 1, 1999 letter to Mr. Bill Robins concerning the D.F. Fergason Oil Battery located in Unit H, Sec 30-Ts18s-R39e. As of this date, we have not received the requested information. Would you please check the progress of this request and inform NMOCD within 30 days.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec.
Environmental Bureau

cc: OCD Hobbs Office

attachments-2

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

November 8, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Prep Date: 11/08/99
Analysis Date: 11/08/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Rodriquez

TA#	FIELD CODE	TOTAL Hg (mg/L)
T133577	9910151303	0.00036
ICV		0.00104
CCV		0.00104
REPORTING LIMIT		0.0002
RPD		0
% Extraction Accuracy		110
% Instrument Accuracy		104

METHODS: EPA 7470A
CHEMIST: BP
TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg.
TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

Director, Dr. Blair Leftwich

11-8-99
Date

Cation-Anion Balance Sheet

Sample # 133577 Date: 10/27/99

Cations

	ppm	meq/L
Calcium	163	8.1337
Magnesium	44	3.62076
Sodium	60	2.61
Potassium	5	0.1279

Total Cations
14.4924 in meq/L

Anions

	ppm	meq/L
Alkalinity	119	2.38
Sulfate	160	3.3312
Chloride	290	8.1809
Nitrate as N	5	0.35695
Fluoride	1.6	0.084224

Total Anions
14.3333 in meq/L

Percentage Error
1.10378 %
(needs to be <10%)

OTHER INFORMATION

TDS	740
EC	1400

Measure EC and Cation Sums	1449.236	Range should be:	1260	to	1540
Measure EC and Anion Sums	1433.3274	Range should be:	1260	to	1540
Calculated TDS/Conductivity	0.5285714	Range should be:	0.55	to	0.77
Measure TDS and Cation Sums	0.5106139	Range should be:	0.55	to	0.77
Measure TDS and Anion Sums	0.5162812	Range should be:	0.55	to	0.77

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

Prep Date: 10/19/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303
TA #: T133577

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dichlorodifluoromethane	2	ND				
Chloromethane	2	ND				
Vinyl chloride	2	ND	97			97
Bromomethane	5	ND				
Chloroethane	2	ND				
Trichlorofluoromethane	2	ND				
1,1-Dichloroethene	2	ND	95	1	96	95
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	2	ND				
1,1-Dichloroethane	2	ND				
cis-1,2-Dichloroethene	2	ND				
Chloroform	2	ND	93			93
2,2-Dichloropropane	2	ND				
Bromochloromethane	2	ND				
1,2-Dichloroethane	2	ND				
1,1,1-Trichloroethane	2	ND				
Carbon Tetrachloride	2	ND				
1,1-Dichloropropene	2	ND				
Benzene	2	ND		1	92	
1,2-Dichloropropane	2	ND	103			103
Trichloroethene	2	ND		0	93	
Dibromomethane	2	ND				
Bromodichloromethane	2	ND				
cis-1,3-Dichloropropene	2	ND				
trans-1,3-Dichloropropene	2	ND				
Toluene	2	ND	101	2	94	101
1,1,2-Trichloroethane	2	ND				
1,3-Dichloropropane	2	ND				
MTBE	2	ND				

FIELD CODE: 9910151303
TA #: T133577

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND				
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
Isopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chlorotoluene	2	ND				
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

	% Recovery
Dibromofluoromethane	109
Toluene-d8	111
4-Bromofluorobenzene	89

ND = Not Detected
Methods: EPA SW 846-5035, 8260B
CHEMIST: JG

Director, Dr. Blair Leftwich

10-22-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Extraction Date: 10/18/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Rodriquez

FIELD CODE: 9910151303
TA #: T133577

EPA 8270 COMPOUNDS	Reporting Limit (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
N-Nitrosodimethylamine	0.005	ND				
2-Picoline	0.005	ND				
Methyl methanesulfonate	0.005	ND				
Ethyl methanesulfonate	0.005	ND				
Phenol	0.005	ND	63	0	46	105
Aniline	0.005	ND				
bis(2-Chloroethyl)ether	0.005	ND				
2-Chlorophenol	0.005	ND		2	111	
1,3-Dichlorobenzene	0.005	ND				
1,4-Dichlorobenzene	0.005	ND	59	0	79	98
Benzyl alcohol	0.005	ND				
1,2-Dichlorobenzene	0.005	ND				
2-Methylphenol	0.005	ND				
bis(2-chloroisopropyl)ether	0.005	ND				
4-Methylphenol/3-Methylphenol	0.005	ND				
Acetophenone	0.005	ND				
n-Nitrosodi-n-propylamine	0.005	ND		2	138	
Hexachloroethane	0.005	ND				
Nitrobenzene	0.005	ND				
N-Nitrosopiperidine	0.005	ND				
Isophorone	0.005	ND				
2-Nitrophenol	0.005	ND	59			98
2,4-Dimethylphenol	0.005	ND				
bis(2-Chloroethoxy)methane	0.005	ND				
Benzoic acid	0.005	ND				
2,4-Dichlorophenol	0.005	ND	61			102
1,2,4-Trichlorobenzene	0.005	ND		1	83	
a,a-Dimethylphenethylamine	0.005	ND				
Naphthalene	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151303

TA #: T133577

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Chloroaniline	0.005	ND				
2,6-Dichlorophenol	0.005	ND				
Hexachlorobutadiene	0.005	ND	59			99
N-Nitroso-di-n-butylamine	0.005	ND				
4-Chloro-3-methylphenol	0.005	ND	62	4	114	104
2-Methylnaphthalene/1-Methylnaphthalene	0.005	ND				
1,2,4,5-Tetrachlorobenzene	0.005	ND				
Hexachlorocyclopentadiene	0.005	ND				
2,4,6-Trichlorophenol	0.005	ND	62			103
2,4,5-Trichlorophenol	0.005	ND				
2-Chloronaphthalene	0.005	ND				
1-Chloronaphthalene	0.005	ND				
2-Nitroaniline	0.005	ND				
Dimethylphthalate	0.005	ND				
Acenaphthylene	0.005	ND				
2,6-Dinitrotoluene	0.005	ND				
3-Nitroaniline	0.005	ND				
Acenaphthene	0.005	ND	60	1	116	100
2,4-Dinitrophenol	0.005	ND				
Dibenzofuran	0.005	ND				
Pentachlorobenzene	0.005	ND				
4-Nitrophenol	0.005	ND		16	37	
1-Napthylamine	0.005	ND				
2,4-Dinitrotoluene	0.005	ND		12	112	
2-Napthylamine	0.005	ND				
2,3,4,6-Tetrachlorophenol	0.005	ND				
Fluorene	0.005	ND				
Diethylphthalate	0.005	ND				
4-Chlorophenyl-phenylether	0.005	ND				
4-Nitroaniline	0.005	ND				
4,6-Dinitro-2-methylphenol	0.005	ND				
n-Nitrosodiphenylamine & Diphenylamine	0.005	ND	62			103
Diphenylhydrazine	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151303
TA #: T133577

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidine	0.005	ND				
Pyrene	0.005	ND		3	103	
p-Dimethylaminoazobenzene	0.005	ND				
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	ND				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			97
Benzo[b]fluoranthene	0.005	ND				
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzo[g,h,i]perylene	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151303
TA #: T133577

SURROGATES	% RECOVERY
2-Fluorophenol SURR	63
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	116
2-Fluorobiphenyl SURR	121
2,4,6-Tribromophenol SURR	100
Terphenyl-d14 SURR	101

METHODS: EPA SW 846-3510C, 8270C
CHEMIST: MA

Director, Dr. Blair Leftwich

10-27-99
Date

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Bill Olson
OCD
2040 S. Pacheco
Santa Fe, NM 87505

Report Date: 10/27/99

Project Number: N/A
Project Name: Texaco-Rodriquez
Project Location: East Hobbs Pool Area

Order ID Number: 99101603

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133577	9910151303	Water	10/15/99	13:03	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 133577
Description: 9910151303

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Bicarbonate Alkalinity		119	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Total Alkalinity		119	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Conductivity (uMHOS/cm)										
Specific Conductance		1400	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		290	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.6	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.0	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		160	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
* Nitrate-N - Sample ran out of holding time for NO3.										
pH (s.u.)										
pH	*	7.3	1	E 150.1	10/16/99	10/16/99	RS	PB02741	QC03443	1
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		740	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Arsenic		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Barium		0.12	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Boron		0.18	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Cadmium		<0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.01
Total Calcium		163	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Chromium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Copper		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Lead		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Magnesium		44	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Manganese		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Molybdenum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Nickel		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Potassium		5.0	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Selenium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Silica		21	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.5
Total Silver		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Sodium		60	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Zinc		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Specific Conductance (uMHOS/cm)		17.2		10/20/99	PB02766	QC03472

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
CL (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		<0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		<0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Aluminum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Arsenic (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Barium (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Boron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Cadmium (mg/L)		<0.01	0.01	10/21/99	PB02751	QC03544
Total Calcium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Chromium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Cobalt (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Copper (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Iron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Lead (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Magnesium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Manganese (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Molybdenum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Nickel (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Potassium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Selenium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Silica (mg/L)		<0.50	0.5	10/21/99	PB02751	QC03544
Total Silver (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Sodium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Zinc (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544

Quality Control Report
Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	1	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	1	62.5	168.25	109	1	80 - 120	0 - 20	QC03457

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	QC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	<0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	<0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	106		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	<0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	<0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report
Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance (uMHOS/cm)		1353	1400	1	3	0 - 20	QC03472

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)		7.3	7.3	1	0	0 - 20	QC03443

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids (mg/L)		449	440	1	2	0 - 20	QC03455

Quality Control Report
Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Total Aluminum (mg/L)	<0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	<0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	<0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	<0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	<0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	<0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	<0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	<0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	<0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	<0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
ICV	Bicarbonate Alkalinity (mg/L as CaCo3)		0	110	0	80 - 120	10/22/99	QC03559
ICV	Total Alkalinity (mg/L as CaCo3)		2400	2110	88	80 - 120	10/22/99	QC03559
CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
CCV (1	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3)		0	220	0	80 - 120	10/22/99	QC03559
CCV (1	Total Alkalinity (mg/L as CaCo3)		2400	2220	93	80 - 120	10/22/99	QC03559

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Specific Conductance (uMHOS/cm)		1413	1306	92	80 - 120	10/20/99	QC03472
CCV (1	Specific Conductance (uMHOS/cm)		1413	1331	94	80 - 120	10/20/99	QC03472

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	CL (mg/L)		12.5	11.76	94	80 - 120	10/18/99	QC03457
ICV	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
ICV	Nitrate-N (mg/L)		5	4.84	97	80 - 120	10/18/99	QC03457
ICV	Sulfate (mg/L)		12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1	CL (mg/L)		12.5	11.75	94	80 - 120	10/18/99	QC03457
CCV (1	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
CCV (1	Nitrate-N (mg/L)		5	4.85	97	80 - 120	10/18/99	QC03457
CCV (1	Sulfate (mg/L)		12.5	12.45	100	80 - 120	10/18/99	QC03457

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
CCV (1	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Dissolved Solids (mg/L)		1000	987	99	80 - 120	10/19/99	QC03455
CCV (1	Total Dissolved Solids (mg/L)		1000	1004	100	80 - 120	10/19/99	QC03455

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Aluminum (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Arsenic (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	QC03544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	QC03544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Cobalt (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
ICV	Total Selenium (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	QC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (1	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544

133577

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99101603

Company Name: OCD
Phone #: (505) 827-7154
Address: (Street, City, Zip) 2040 S. PACHECO SANTA FE
Fax #: 505 827-8177
Contact Person: BILL OLSON
Invoice to: (If different from above)
Project #:
Project Name: Texaco - Rodriguez
Project Location: EAST Hobbs Pool Area
Sampler Signature: WAYNE PRICE

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	H2SO4	SAMPLING: DATE	TIME
133577	99101513 03	2	40ml	X						X		X	10/15/99	1303
	99101513 04	1	400ml	X					X	X			10/15/99	1304
	99101513 06	1	1000ml	X						X			10/15/99	1306
	99101513 08	1	1qt	X						X			10/15/99	1308

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	X 8260	X OCD METALS + CV Hg	X 8270	X OCD GEN CHEM	Turn Around Time if different from standard	Hold
															X	X	X	X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Wayne Price	10/15/99	1:34 PM			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Jennifer Schmidt	10/16/99	1500

LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 1 °
Log-in Review

REMARKS: 10/28

Carrier # Bus - 902259 2579

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

November 8, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Prep Date: 11/08/99
Analysis Date: 11/08/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Turner

TA#	FIELD CODE	TOTAL Hg (mg/L)
T133578	9910151225	<0.0002
ICV		0.00104
CCV		0.00104
REPORTING LIMIT		0.0002
RPD		0
% Extraction Accuracy		110
% Instrument Accuracy		104

METHODS: EPA 7470A
CHEMIST: BP
TOTAL Hg SPIKE: 0.0010 mg/L TOTAL Hg.
TOTAL Hg CV: 0.0010mg/L TOTAL Hg.

Director, Dr. Blair Leftwich

11-8-99
Date

Cation-Anion Balance Sheet

Sample # 133578 Date: 10/27/99

Cations	ppm	meq/L
Calcium	91	4.5409
Magnesium	24	1.97496
Sodium	40	1.74
Potassium	3.9	0.099762

Total Cations
8.35562 in meq/L

Anions	ppm	meq/L
Alkalinity	146	2.92
Sulfate	100	2.082
Chloride	110	3.1031
Nitrate as N	5.1	0.364089
Fluoride	1.8	0.094752

Total Anions
8.56394 in meq/L

Percentage Error
2.46246 %
(needs to be <10%)

OTHER INFORMATION

TDS	470
EC	820

Measure EC and Cation Sums	835.5622	Range should be:	738	to	902
Measure EC and Anion Sums	856.3941	Range should be:	738	to	902
Calculated TDS/Conductivity	0.5731707	Range should be:	0.55	to	0.77
Measure TDS and Cation Sums	0.5624955	Range should be:	0.55	to	0.77
Measure TDS and Anion Sums	0.5488127	Range should be:	0.55	to	0.77

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

Extraction Date: 10/18/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Turner

FIELD CODE: 9910151225

TA #: T133578

EPA 8270 COMPOUNDS	Reporting Limit (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
N-Nitrosodimethylamine	0.005	ND				
2-Picoline	0.005	ND				
Methyl methanesulfonate	0.005	ND				
Ethyl methanesulfonate	0.005	ND				
Phenol	0.005	ND	63	0	46	105
Aniline	0.005	ND				
bis(2-Chloroethyl)ether	0.005	ND				
2-Chlorophenol	0.005	ND		2	111	
1,3-Dichlorobenzene	0.005	ND				
1,4-Dichlorobenzene	0.005	ND	59	0	79	98
Benzyl alcohol	0.005	ND				
1,2-Dichlorobenzene	0.005	ND				
2-Methylphenol	0.005	ND				
bis(2-chloroisopropyl)ether	0.005	ND				
4-Methylphenol/3-Methylphenol	0.005	ND				
Acetophenone	0.005	ND				
n-Nitrosodi-n-propylamine	0.005	ND		2	138	
Hexachloroethane	0.005	ND				
Nitrobenzene	0.005	ND				
N-Nitrosopiperidine	0.005	ND				
Isophorone	0.005	ND				
2-Nitrophenol	0.005	ND	59			98
2,4-Dimethylphenol	0.005	ND				
bis(2-Chloroethoxy)methane	0.005	ND				
Benzoic acid	0.005	ND				
2,4-Dichlorophenol	0.005	ND	61			102
1,2,4-Trichlorobenzene	0.005	ND		1	83	
a,a-Dimethylphenethylamine	0.005	ND				
Naphthalene	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151225

TA #: T133578

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Chloroaniline	0.005	ND				
2,6-Dichlorophenol	0.005	ND				
Hexachlorobutadiene	0.005	ND	59			99
N-Nitroso-di-n-butylamine	0.005	ND				
4-Chloro-3-methylphenol	0.005	ND	62	4	114	104
2-Methylnaphthalene/1-Methylnaphthalene	0.005	ND				
1,2,4,5-Tetrachlorobenzene	0.005	ND				
Hexachlorocyclopentadiene	0.005	ND				
2,4,6-Trichlorophenol	0.005	ND	62			103
2,4,5-Trichlorophenol	0.005	ND				
2-Chloronaphthalene	0.005	ND				
1-Chloronaphthalene	0.005	ND				
2-Nitroaniline	0.005	ND				
Dimethylphthalate	0.005	ND				
Acenaphthylene	0.005	ND				
2,6-Dinitrotoluene	0.005	ND				
3-Nitroaniline	0.005	ND				
Acenaphthene	0.005	ND	60	1	116	100
2,4-Dinitrophenol	0.005	ND				
Dibenzofuran	0.005	ND				
Pentachlorobenzene	0.005	ND				
4-Nitrophenol	0.005	ND		16	37	
1-Napthylamine	0.005	ND				
2,4-Dinitrotoluene	0.005	ND		12	112	
2-Napthylamine	0.005	ND				
2,3,4,6-Tetrachlorophenol	0.005	ND				
Fluorene	0.005	ND				
Diethylphthalate	0.005	ND				
4-Chlorophenyl-phenylether	0.005	ND				
4-Nitroaniline	0.005	ND				
4,6-Dinitro-2-methylphenol	0.005	ND				
n-Nitrosodiphenylamine & Diphenylamine	0.005	ND	62			103
Diphenylhydrazine	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151225
TA #: T133578

EPA 8270 COMPOUNDS	Reporting Limits (mgL)	Concentration (mg/L)	QC	RPD	%EA	%IA
4-Bromophenyl-phenylether	0.005	ND				
Phenacetin	0.005	ND				
Hexachlorobenzene	0.005	ND				
4-Aminobiphenyl	0.005	ND				
Pentachlorophenol	0.005	ND	51	11	103	85
Pentachloronitrobenzene	0.005	ND				
Pronamide	0.005	ND				
Phenanthrene	0.005	ND				
Anthracene	0.005	ND				
Di-n-butylphthalate	0.005	ND				
Fluoranthene	0.005	ND	62			103
Benzidine	0.005	ND				
Pyrene	0.005	ND		3	103	
p-Dimethylaminoazobenzene	0.005	ND				
Butylbenzylphthalate	0.005	ND				
Benzo[a]anthracene	0.005	ND				
3,3-Dichlorobenzidine	0.005	ND				
Chrysene	0.005	ND				
bis(2-Ethylhexyl)phthalate	0.005	ND				
Di-n-octlphthalate	0.005	ND	58			97
Benzo[b]fluoranthene	0.005	ND				
7,12-Dimethylbenz(a)anthracene	0.005	ND				
Benzo[k]fluoranthene	0.005	ND				
Benzo[a]pyrene	0.005	ND	63			106
3-Methylcholanthrene	0.005	ND				
Dibenzo(a,j)acridine	0.005	ND				
Indeno[1,2,3-cd]pyrene	0.005	ND				
Dibenz[a,h]anthracene	0.005	ND				
Benzo[g,h,i]perylene	0.005	ND				

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

FIELD CODE: 9910151225
TA #: T133578

SURROGATES	% RECOVERY
2-Fluorophenol SURR	61
Phenol-d6 SURR	36
Nitrobenzene-d5 SURR	107
2-Fluorobiphenyl SURR	118
2,4,6-Tribromophenol SURR	94
Terphenyl-d14 SURR	106

METHODS: EPA SW 846-3510C, 8270C
CHEMIST: MA

Director, Dr. Blair Leftwich

10-27-95
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

October 27, 1999
Receiving Date: 10/16/99
Sample Type: Water
Project No:
Project Loc: East Hobbs Pool Area

OCD
Attention: Bill Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

Prep Date: 10/19/99
Analysis Date: 10/19/99
Sampling Date: 10/15/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Texaco-Turner

FIELD CODE: 9910151225
TA #: T133578

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dichlorodifluoromethane	2	ND				
Chloromethane	2	ND				
Vinyl chloride	2	ND	97			97
Bromomethane	5	ND				
Chloroethane	2	ND				
Trichlorofluoromethane	2	ND				
1,1-Dichloroethene	2	ND	95	1	96	95
Methylene chloride	5	ND				
trans-1,2-Dichloroethene	2	ND				
1,1-Dichloroethane	2	ND				
cis-1,2-Dichloroethene	2	ND				
Chloroform	2	ND	93			93
2,2-Dichloropropane	2	ND				
Bromochloromethane	2	ND				
1,2-Dichloroethane	2	ND				
1,1,1-Trichloroethane	2	ND				
Carbon Tetrachloride	2	ND				
1,1-Dichloropropene	2	ND				
Benzene	2	ND		1	92	
1,2-Dichloropropane	2	ND	103			103
Trichloroethene	2	ND		0	93	
Dibromomethane	2	ND				
Bromodichloromethane	2	ND				
cis-1,3-Dichloropropene	2	ND				
trans-1,3-Dichloropropene	2	ND				
Toluene	2	ND	101	2	94	101
1,1,2-Trichloroethane	2	ND				
1,3-Dichloropropane	2	ND				
MTBE	2	ND				

FIELD CODE: 9910151225
TA #: T133578

8260 Compounds	Reporting Limit (ug/L)	Concentration (ug/L)	QC	RPD	EA	IA
Dibromochloromethane	2	ND				
1,2-Dibromoethane	2	ND				
Tetrachloroethene	2	ND				
Chlorobenzene	2	ND	101	2	99	101
1,1,1,2-Tertachloroethane	2	ND				
Ethylbenzene	2	ND	110			110
m & p-Xylene	2	ND				
Bromoform	2	ND				
Styrene	2	ND				
o-Xylene	2	ND				
1,1,2,2-Tetrachloroethane	2	ND				
1,2,3-Trichloropropane	2	ND				
Isopropylbenzene	2	ND				
Bromobenzene	2	ND				
2-Chlorotoluene	2	ND				
n-Propylbenzene	2	ND				
4-Chlorotoluene	2	ND				
1,3,5-Trimethylbenzene	2	ND				
tert-Butylbenzene	2	ND				
1,2,4-Trimethylbenzene	2	ND				
1,4-Dichlorobenzene	2	ND				
sec-Butylbenzene	2	ND				
1,3-Dichlorobenzene	2	ND				
4-Isopropyltoluene	2	ND				
1,2-Dichlorobenzene	2	ND				
n-Butylbenzene	2	ND				
1,2-Dibromo-3-chloropropane	5	ND				
1,2,3-Trichlorobenzene	5	ND				
Naphthalene	2	ND				
1,2,4-Trichlorobenzene	5	ND				
Hexachlorobutadiene	5	ND				

	% Recovery
Dibromofluoromethane	108
Toluene-d8	11
4-Bromofluorobenzene	90

ND = Not Detected
Methods: EPA SW 846-5035, 8260B
CHEMIST: JG

Director, Dr. Blair Leftwich

10-27-95

Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Bill Olson
OCD
2040 S. Pacheco
Santa Fe, NM 87505

Report Date: 10/27/99

Project Number: N/A
Project Name: Texaco-Turner
Project Location: East Hobbs Pool Area

Order ID Number: 99101604

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133578	9910151225	Water	10/15/99	12:25	10/16/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 133578
Description: 9910151225

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Alkalinity (mg/L as CaCo3)										
Hydroxide Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Carbonate Alkalinity		<1.0	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Bicarbonate Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Total Alkalinity		146	1	E 310.1	10/22/99	10/22/99	JS	PB02818	QC03559	1
Conductivity (uMHOS/cm)										
Specific Conductance		820	1	SM 2510B	10/19/99	10/20/99	MD	PB02766	QC03472	
Ion Chromatography (IC) (mg/L)										
CL		110	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
Fluoride		1.8	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.1
Nitrate-N	*	5.1	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.2
Sulfate		100	1	E 300.0	10/18/99	10/18/99	JS	PB02756	QC03457	0.5
* Nitrate-N - Sample ran out of holding time for NO3.										
pH (s.u.)										
pH	*	7.3	1	E 150.1	10/16/99	10/16/99	RS	PB02741	QC03443	1
* pH - Out of holding time.										
TDS (mg/L)										
Total Dissolved Solids		470	1	E 160.1	10/18/99	10/19/99	MD	PB02755	QC03455	10
Total Metals (mg/L)										
Total Aluminum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Arsenic		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Barium		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Boron		0.17	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Cadmium		<0.01	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.01
Total Calcium		91	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Chromium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Cobalt		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Copper		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Iron		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Lead		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Magnesium		24	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Manganese		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Molybdenum		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Nickel		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1
Total Potassium		3.9	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Selenium		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Silica		22	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.5
Total Silver		<0.05	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.05
Total Sodium		40	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.2
Total Zinc		<0.10	1	E 200.7	10/19/99	10/21/99	RR	PB02751	QC03544	0.1

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Hydroxide Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Carbonate Alkalinity (mg/L as CaCo3)		<1.0	1	10/22/99	PB02818	QC03559
Bicarbonate Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559
Total Alkalinity (mg/L as CaCo3)		<4.0	1	10/22/99	PB02818	QC03559

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Specific Conductance (uMHOS/cm)		17.2		10/20/99	PB02766	QC03472

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
CL (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457
Fluoride (mg/L)		<0.1	0.1	10/18/99	PB02756	QC03457
Nitrate-N (mg/L)		<0.2	0.2	10/18/99	PB02756	QC03457
Sulfate (mg/L)		<0.5	0.5	10/18/99	PB02756	QC03457

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Dissolved Solids (mg/L)		<10	10	10/19/99	PB02755	QC03455

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Total Aluminum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Arsenic (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Barium (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Boron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Cadmium (mg/L)		<0.01	0.01	10/21/99	PB02751	QC03544
Total Calcium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Chromium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Cobalt (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Copper (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Iron (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Lead (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Magnesium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Manganese (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Molybdenum (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Nickel (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544
Total Potassium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Selenium (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Silica (mg/L)		<0.50	0.5	10/21/99	PB02751	QC03544
Total Silver (mg/L)		<0.05	0.05	10/21/99	PB02751	QC03544
Total Sodium (mg/L)		<0.20	0.2	10/21/99	PB02751	QC03544
Total Zinc (mg/L)		<0.10	0.1	10/21/99	PB02751	QC03544

Quality Control Report
Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	CL (mg/L)	110	1	62.5	168.93	94		80 - 120	0 - 20	QC03457
MS	Fluoride (mg/L)	1.8	1	12.5	13.17	91		80 - 120	0 - 20	QC03457
MS	Nitrate-N (mg/L)	5.1	1	25	28.55	94		80 - 120	0 - 20	QC03457
MS	Sulfate (mg/L)	100	1	62.5	167.90	109		80 - 120	0 - 20	QC03457
MSD	CL (mg/L)	110	1	62.5	169.24	95	1	80 - 120	0 - 20	QC03457
MSD	Fluoride (mg/L)	1.8	1	12.5	13.04	90	1	80 - 120	0 - 20	QC03457
MSD	Nitrate-N (mg/L)	5.1	1	25	28.63	94	0	80 - 120	0 - 20	QC03457
MSD	Sulfate (mg/L)	100	1	62.5	168.25	109	1	80 - 120	0 - 20	QC03457

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Total Aluminum (mg/L)	<0.10	1	1	1.05	79		75 - 125	0 - 20	QC03544
MS	Total Calcium (mg/L)	163	1	1000	1239	108		75 - 125	0 - 20	QC03544
MS	Total Copper (mg/L)	<0.10	1	1	1.01	101		75 - 125	0 - 20	QC03544
MS	Total Lead (mg/L)	<0.05	1	1	0.99	99		75 - 125	0 - 20	QC03544
MS	Total Magnesium (mg/L)	44	1	1000	1122	108		75 - 125	0 - 20	QC03544
MS	Total Potassium (mg/L)	5.0	1	1000	1062	106		75 - 125	0 - 20	QC03544
MS	Total Sodium (mg/L)	60	1	1000	1134	107		75 - 125	0 - 20	QC03544
MSD	Total Aluminum (mg/L)	<0.10	1	1	1.01	75	5	75 - 125	0 - 20	QC03544
MSD	Total Calcium (mg/L)	163	1	1000	1220	106	2	75 - 125	0 - 20	QC03544
MSD	Total Copper (mg/L)	<0.10	1	1	0.97	97	4	75 - 125	0 - 20	QC03544
MSD	Total Lead (mg/L)	<0.05	1	1	0.95	95	4	75 - 125	0 - 20	QC03544
MSD	Total Magnesium (mg/L)	44	1	1000	1091	105	3	75 - 125	0 - 20	QC03544
MSD	Total Potassium (mg/L)	5.0	1	1000	1044	104	2	75 - 125	0 - 20	QC03544
MSD	Total Sodium (mg/L)	60	1	1000	1094	103	4	75 - 125	0 - 20	QC03544

Quality Control Report
Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Hydroxide Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Carbonate Alkalinity (mg/L as CaCo		<1.0	<1.0	1	0	0 - 20	QC03559
Duplicate	Bicarbonate Alkalinity (mg/L as CaC		38	38	1	0	0 - 20	QC03559
Duplicate	Total Alkalinity (mg/L as CaCo3)		38	38	1	0	0 - 20	QC03559

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Specific Conductance (uMHOS/cm)		1353	1400	1	3	0 - 20	QC03472

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	pH (s.u.)		7.3	7.3	1	0	0 - 20	QC03443

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Total Dissolved Solids (mg/L)		449	440	1	2	0 - 20	QC03455

Quality Control Report
Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Total Aluminum (mg/L)	<0.10	1	2	2.00	100		75 - 125	0 - 20	QC03544
LCS	Total Calcium (mg/L)	<0.20	1	1000	1044	104		75 - 125	0 - 20	QC03544
LCS	Total Copper (mg/L)	<0.10	1	1	2.06	103		75 - 125	0 - 20	QC03544
LCS	Total Lead (mg/L)	<0.05	1	1	2.08	104		75 - 125	0 - 20	QC03544
LCS	Total Magnesium (mg/L)	<0.20	1	1000	1061	106		75 - 125	0 - 20	QC03544
LCS	Total Potassium (mg/L)	<0.20	1	1000	1067	107		75 - 125	0 - 20	QC03544
LCS	Total Sodium (mg/L)	<0.20	1	1000	1052	105		75 - 125	0 - 20	QC03544
LCSD	Total Aluminum (mg/L)	<0.10	1	2	2.00	100	0	75 - 125	0 - 20	QC03544
LCSD	Total Calcium (mg/L)	<0.20	1	1000	1051	105	1	75 - 125	0 - 20	QC03544
LCSD	Total Copper (mg/L)	<0.10	1	1	2.06	103	0	75 - 125	0 - 20	QC03544
LCSD	Total Lead (mg/L)	<0.05	1	1	2.08	104	0	75 - 125	0 - 20	QC03544
LCSD	Total Magnesium (mg/L)	<0.20	1	1000	1059	106	0	75 - 125	0 - 20	QC03544
LCSD	Total Potassium (mg/L)	<0.20	1	1000	1081	108	1	75 - 125	0 - 20	QC03544
LCSD	Total Sodium (mg/L)	<0.20	1	1000	1061	106	1	75 - 125	0 - 20	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
ICV	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
ICV	Bicarbonate Alkalinity (mg/L as CaCo3)		0	110	0	80 - 120	10/22/99	QC03559
ICV	Total Alkalinity (mg/L as CaCo3)		2400	2110	88	80 - 120	10/22/99	QC03559
CCV (1	Hydroxide Alkalinity (mg/L as CaCo3)		0	<1.0	0	80 - 120	10/22/99	QC03559
CCV (1	Carbonate Alkalinity (mg/L as CaCo3)		0	2000	0	80 - 120	10/22/99	QC03559
CCV (1	Bicarbonate Alkalinity (mg/L as CaCo3)		0	220	0	80 - 120	10/22/99	QC03559
CCV (1	Total Alkalinity (mg/L as CaCo3)		2400	2220	93	80 - 120	10/22/99	QC03559

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Specific Conductance (uMHOS/cm)		1413	1306	92	80 - 120	10/20/99	QC03472
CCV (1	Specific Conductance (uMHOS/cm)		1413	1331	94	80 - 120	10/20/99	QC03472

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	CL (mg/L)		12.5	11.76	94	80 - 120	10/18/99	QC03457
ICV	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
ICV	Nitrate-N (mg/L)		5	4.84	97	80 - 120	10/18/99	QC03457
ICV	Sulfate (mg/L)		12.5	12.56	100	80 - 120	10/18/99	QC03457
CCV (1	CL (mg/L)		12.5	11.75	94	80 - 120	10/18/99	QC03457
CCV (1	Fluoride (mg/L)		2.5	2.40	96	80 - 120	10/18/99	QC03457
CCV (1	Nitrate-N (mg/L)		5	4.85	97	80 - 120	10/18/99	QC03457
CCV (1	Sulfate (mg/L)		12.5	12.45	100	80 - 120	10/18/99	QC03457

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443
CCV (1	pH (s.u.)		7	7.0	100	80 - 120	10/16/99	QC03443

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Dissolved Solids (mg/L)		1000	987	99	80 - 120	10/19/99	QC03455
CCV (1	Total Dissolved Solids (mg/L)		1000	1004	100	80 - 120	10/19/99	QC03455

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	Total Aluminum (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Arsenic (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Barium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Boron (mg/L)		1	1.04	104	75 - 125	10/21/99	QC03544
ICV	Total Cadmium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Calcium (mg/L)		20	20.0	100	75 - 125	10/21/99	QC03544
ICV	Total Chromium (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Cobalt (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Copper (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Iron (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Lead (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Magnesium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Manganese (mg/L)		1	1.0	100	75 - 125	10/21/99	QC03544
ICV	Total Molybdenum (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Nickel (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
ICV	Total Selenium (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
ICV	Total Silica (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
ICV	Total Silver (mg/L)		0.2	0.197	99	75 - 125	10/21/99	QC03544
ICV	Total Sodium (mg/L)		20	20.4	102	75 - 125	10/21/99	QC03544
ICV	Total Zinc (mg/L)		1	0.99	99	75 - 125	10/21/99	QC03544
CCV (1	Total Aluminum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Arsenic (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Barium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Boron (mg/L)		1	1.02	102	75 - 125	10/21/99	QC03544
CCV (1	Total Cadmium (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Calcium (mg/L)		20	20.1	101	75 - 125	10/21/99	QC03544
CCV (1	Total Chromium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Cobalt (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Copper (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Iron (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Lead (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Magnesium (mg/L)		20	20.6	103	75 - 125	10/21/99	QC03544
CCV (1	Total Manganese (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544
CCV (1	Total Molybdenum (mg/L)		1	0.94	94	75 - 125	10/21/99	QC03544
CCV (1	Total Nickel (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Potassium (mg/L)		20	20.3	102	75 - 125	10/21/99	QC03544
CCV (1	Total Selenium (mg/L)		1	0.95	95	75 - 125	10/21/99	QC03544
CCV (1	Total Silica (mg/L)		1	0.98	98	75 - 125	10/21/99	QC03544
CCV (1	Total Silver (mg/L)		0.2	0.188	94	75 - 125	10/21/99	QC03544

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV (1	Total Sodium (mg/L)		20	19.6	98	75 - 125	10/21/99	QC03544
CCV (1	Total Zinc (mg/L)		1	0.96	96	75 - 125	10/21/99	QC03544

133578

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99101604

Company Name: OCD
Phone #: (505) 827-7154
Address: (Street, City, Zip) 2040 S. Pacheco Santa Fe NM 87505
Fax #: (505) 827-8177
Contact Person: BILL OLSON
Invoice to: (If different from above)
Project #:
Project Name: Texaco - Turney
Project Location: East Hobbs Pool Area
Sampler Signature: WAYNE PRICE

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	NaHSO4	SAMPLING: DATE	TIME
133578	9910151225	2	40ml	X						X		X	10/15/99	1225
	9910151225	1	500ml	X					X	X			10/15/99	1226
	9910151225	1	1000ml	X						X			10/15/99	1227
	9910151225	1	1gt	X						X			10/15/99	1227

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	8260	OCD METALS + CV Hg	8270	OCD GEN CHEM	Turn Around Time if different from standard	Hold
															X	X	X	X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Wayne Price	10/15/99	1:34pm			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Jennifer Schmidt	10/16/99	1000

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 2°
Log-in Review

REMARKS: 10/28

Carrier # Bus 902-259-2556-8

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

October 1, 1999

CERTIFIED MAIL
RETURN RECEIPT NO.Z 357 870 139

Mr. Bill Robins III
Robins, Cloud & Lubel, L.L.P.
ATTORNEYS AT LAW
910 Travis, Suite 2020
Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec. 30-Ts18s-R39e

Dear Mr. Robbins:

The New Mexico Oil Conservation Division (NMOCD) has received Texaco Exploration and Productions, Inc. pit closure report dated June 3, 1999 and technical information from your law firm dated February 11th and 26th, 1999 for the above captioned site. NMOCD has reviewed the information submitted and there appears to be substantial variation of data results. In order for NMOCD to properly evaluate the information submitted by Robins, Cloud & Lubel, L.L.P. and Texaco Exploration and Productions, Inc. we have the following request:

1. Please provide a detailed scaled site map depicting where soil samples were collected in reference to Texaco's samples. Please find enclosed a copy of the site map submitted by Texaco for reference.

2. NMOCD is requesting permission to sample the water wells in question. Please make arrangements and notify NMOCD on an agreed time and date. The first three weeks in October of this year is open on our schedule at this time.

The NMOCD appreciates your cooperation in this matter. If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price

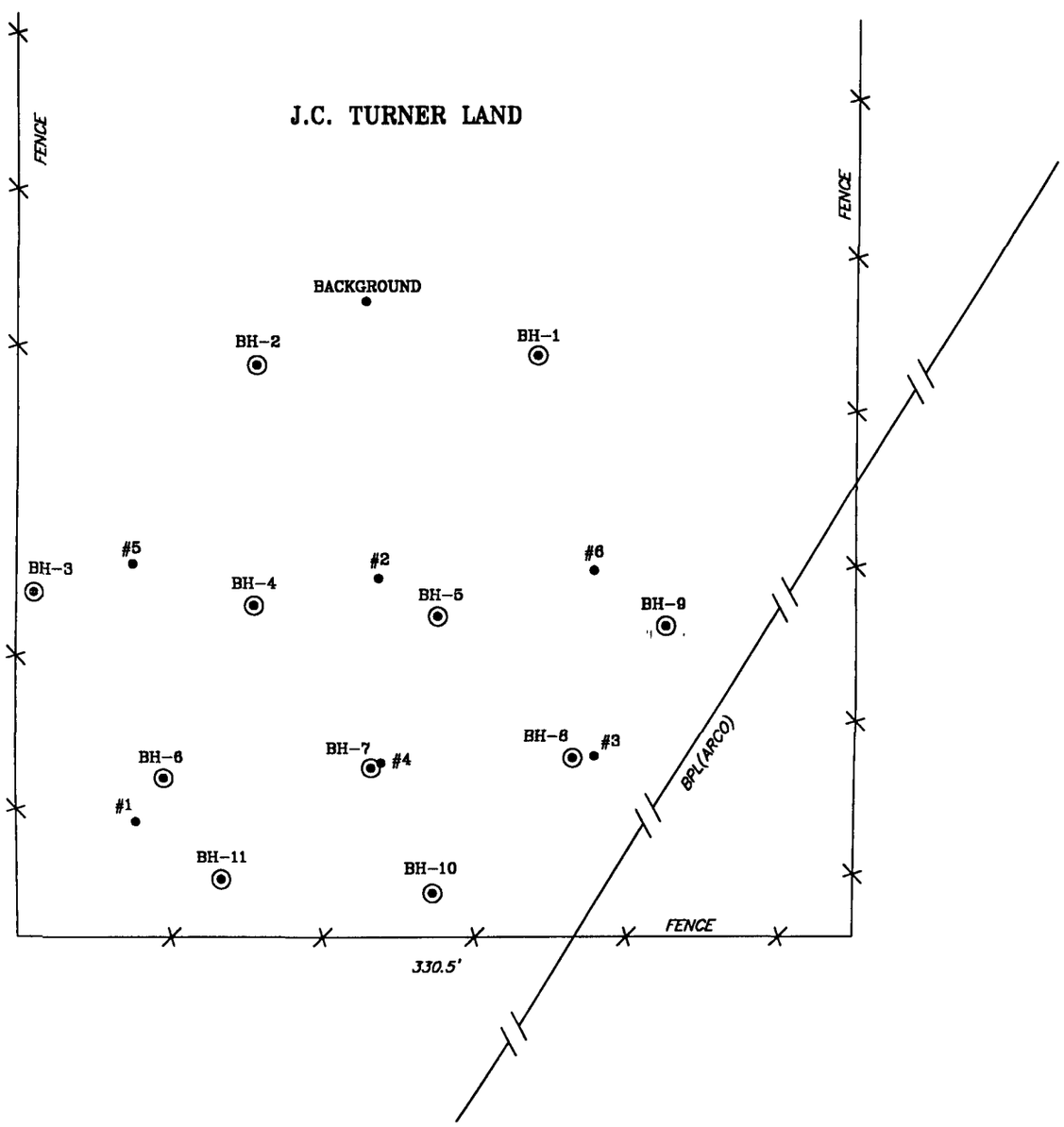
Wayne Price-Pet. Engr. Spec.
Environmental Bureau

cc: OCD Hobbs Office

attachments-1

BOREHOLE DATA

BOREHOLE NUMBER	GROUND ELEVATION FEET AMSL
BH-1	3593.1
BH-2	3593.9
BH-3	3594.7
BH-4	3594.7
BH-5	3594.3
BH-6	3595.1
BH-7	3594.7
BH-8	3594.8
BH-9	3594.0
BH-10	3595.3
BH-11	3595.6



SCALE (FEET)

50 0 50 100

LEGEND

- #1 — HAND AUGER BOREHOLE LOCATION (4/10/97)
- BH-1 — ROTARY DRILLED BOREHOLE LOCATION (4/26-28/99)
- FENCE
- PIPELINE

FIGURE NO. 2

LEA COUNTY, NEW MEXICO

TEXACO EXPLORATION & PRODUCTION, INC.

SITE DRAWING

HIGHLANDER ENVIRONMENTAL
MIDLAND, TEXAS

DATE: 5/17/99
DRWN. BY: JDA
FILE: C:\TEXACO\1181 SITE

Highlander Environmental Corp.

Midland, Texas

April 29, 1999

Mr. Wayne Price
Environmental Engineer
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: Request for Extension and Use of EPA Method 8015 (Modified) D. F. Fergason Lease (J. C. Turner Property), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) has been retained by Texaco Exploration and Production, Inc. (Texaco) to investigate alleged environmental impacts from a suspect oilfield pit(s) at the above-referenced location (Site). The purpose of this letter is to confirm our telephone conversation today pertaining to an extension for submittal of a report, and use of EPA test method 8015 (Modified) for total petroleum hydrocarbons (TPH), in connection with the above-referenced matter.

On April 26 - 28, 1999, Highlander personnel conducted an investigation at the Site. The investigation was conducted in accordance with a work plan approved by the New Mexico Oil Conservation Division (NMOCD) on February 4, 1999. In its approval letter, the NMOCD requested submittal of a comprehensive investigation report by May 3, 1999. Highlander personnel discussed an extension with Ms. Donna L. Williams of the NMOCD on April 28, 1999, which was followed up by our telephone call today. Based on our telephone call, a comprehensive investigation report will be submitted to the NMOCD on or before June 4, 1999. Also, you approved the use of EPA method 8015 modified (GRO and DRO) for TPH, rather than method 418.1, as presented in your February 4, 1999 approval letter.

Please call me at (9915) 682-4559 if you have any questions.

Sincerely,
Highlander Environmental Corp.

Mark J. Larson
Senior Project Manager

cc: Rodney Bailey - Texaco
Robert Patterson - Texaco
Donna Williams - NMOCD Hobbs

Texaco E & P
305 E. Bender Blvd.
Hobbs NM 88240
505 393 7191

Date: April 7, 1999

Donna Williams
Environmental Engineer
New Mexico Oil Conservation Division
Hobbs NM 88240

Re: Pit Closure Investigation
D.F. Fergason Lease
NE/4 Sec 30-T 18S-R 39E

This is notice to inform the NMOCD Texaco has received permission to enter the J.C Turner property and conduct the investigation of the old pit area, formally known as the D.F. Fergason lease. Texaco will began drilling on this property the week of April 19, 1999. Texaco will be on site April 14, 1999 to stake the areas to be drilled.

If you have any questions call me at 505-397-0422.

Sincerely,

Rodney Bailey

Rodney Bailey
SH&E Professional
Hobbs Operating Unit

Copy: Wayne Price

Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

April 5, 1999

Ms. Donna Williams
New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241

Re: Pit Closure Investigation Work Plan
D. F. Fergason Lease
NE/4 Section 30, T-18-S, R-39-E

Dear Ms. Williams:

In reference to your letter of February 4, 1999 to Mr. Rodney Bailey approving our proposed plan for the subject property, you stated that Texaco must submit a report to the NMOCD by May 3, 1999. This is to advise you that we will not be able to complete the investigation by that date due to our inability to gain access to the property in a timely manner. However, since my conversation on March 31st with you and Mr. Price, our attorney received a call granting access on April 1, 1999.

The Turners, who currently own the subject property, have retained an attorney, Mr. Bill Robbins III (713-222-8080), and filed suit against Texaco and others. Since the property is in litigation, Texaco's access to the property must be obtained from the Turners' through Mr. Robbins. After writing two letters and making phone calls to Mr. Robbins requesting access, our attorney was contacted by Mr. Robbins on April 1, 1999, allowing access.

Now that access has been granted, we anticipate the project being initiated in the next two weeks. We will keep you apprised of our progress.

We appreciate your patience in this matter.

Sincerely,

Robert H. Patterson
Business Unit Coordinator

RHP:cfb

Mr. Chris Williams
New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241

Mr. Wayne Price
New Mexico Oil Conservation Division
Oil Contracts Division
2040 S Pacheco St
Santa Fe, NM 87505

Miller, Stratvert & Torgerson, P.A.
Ms. Marte Lightstone
500 Marquette N.W., Suite 1100
P. O. Box 25687
Albuquerque, NM 87102

Mr. Robert Plumb, Texaco Legal, Houston
Mr. Tim Miller, Texaco, Hobbs
Mr. Rodney Bailey, Texaco, Hobbs

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

February 4, 1999

Rodney Bailey
Texaco E&P
205 E. Bender Blvd.
Hobbs, NM 88240

Wayne, Price
& this the
one you
wanted. Donna

Re: Pit Closure Investigation Work Plan
D.F. Fergason Lease
NE/4 Sec 30-Ts18s-R39e

Dear Mr. Bailey:

New Mexico Oil Conservation Division (NMOCD) is in receipt of the investigation work plan dated September 28, 1998 for the above referenced facility submitted by Highlander Environmental Corp. **NMOCD hereby approves of the plan with the following conditions:**

1. NMOCD will allow field screening techniques as mentioned in the plan to delineate the migration of oilfield contaminants, except all bottom hole samples shall be collected and analyzed pursuant to EPA approved laboratory methods. Each bottom hole soil sample shall be analyzed at a minimum for BTEX (method 8020), TPH (418.1) and Chlorides.

2. Texaco shall notify the NMOCD Hobbs District office at least 48 hours in advance of all scheduled activities such that the NMOCD has the opportunity to witness the events and/or split samples.

3. Upon discovery of groundwater contamination Texaco shall notify NMOCD pursuant to Rule 116.

4. NMOCD approves of Texaco's initial groundwater sampling plan as contained in Appendix B, except metals shall be those listed in the New Mexico Water Quality Control Commission (WQCC) regulation standards, not RCRA metals as proposed.

Texaco shall submit a comprehensive investigation report to the NMOCD by May 3, 1999. The report shall be submitted to the NMOCD Hobbs District Office with a copy to the NMOCD Environmental Bureau.

Please be advised that NMOCD approval of this plan does not relieve Texaco of liability should their operations fail to adequately investigate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Texaco of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-393-6161).

Sincerely,

Donna Williams
Environmental Engineer
Cc: Wayne Price; Chris Williams;

Price, Wayne

From: Price, Wayne
Sent: Tuesday, March 16, 1999 11:06 AM
To: Williams, Donna
Cc: Bill Olson
Subject: Texaco Fergson approval letter

Donna!

Please send us a copy so we may put in our files!

ROBINS, CLOUD & LUBEL, L.L.P.
ATTORNEYS AT LAW
910 TRAVIS, SUITE 2020
HOUSTON, TEXAS 77002
TELEPHONE 713/650-1200
TELECOPY 713/650-1400

BILL ROBINS III
Board Certified-Personal Injury Trial Law
Texas Board of Legal Specialization

E-MAIL: robins@rcllaw.com

February 26, 1999

Mr. Roger Anderson
Environmental Bureau Chief
Oil Conservation Division
State of New Mexico
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: D.F. Fergason Oil Battery located in Unit H, Sec. 30, T.18, R.39E

No. D 0101-CV-9801302; *J.C. Turner, et al. vs. Texaco, Inc., et al.*; In the First Judicial District Court - State of New Mexico - County of Santa Fe

Dear Mr. Anderson:

Enclosed please find the results of our recent soil testing. I would appreciate your considering this information, along with the other information that we have previously provided to you, in evaluating any plans submitted by Texaco.

Thank you for your cooperation.

Very truly yours,

Bill Robins III

BRR:vjw
Enclosure

cc: Hobbs

cc: Mr. and Mrs. J.C. Turner (w/encl.)
4601 East Seminole Highway
Hobbs, New Mexico 88240

E C D

Mr. Bill Robbins
Robbins, Cloud & Lewbel
910 Travis
Suite 2020
Houston, TX 77002

2/19/99

Dear Mr. Robbins,

Enclosed are the chemical analysis and photographs of soil samples taken on January 27, 1999 from the pit area between the Turner and Rodriguez water wells. The photographs were taken by Mr. Eddie Seay.

Please feel free to contact me if you have any questions.

Sincerely,

Greg Bybee
ECD Environmental, Inc.

Soil samples were taken using a backhoe. Samples were taken at two depths and analyzed for the following compounds: TPH (total petroleum hydrocarbons) and BTEX (benzene, toluene, ethylbenzene and xylene). Background soil and decon water samples were also analyzed for anions and cations. The backhoe bucket was steam cleaned before the backhoe was moved to a new sample site. All sample sites were marked with a flag and a GPS position taken.

Background Sample
A background soil sample was taken from the front of the Turner home, far away from the pit area to the south. A soft calechee layer was encounter at six feet. Sample taken at six feet. Soil was a light brown and the calechee was a bright white. There was no hydrocarbon odor.
GPS reading: 31° 43.51n, 102° 04.67w

Sample #2
Southeast corner of pit area. Samples were taken at 12" and at 4'. Discolored calechee was encountered at 3'10". Strong hydrocarbon odor.
GPS reading: 32° 43.31n, 103° 04.73w

Sample #3
Center of pit area. Samples taken at 14" and 32". Calechee was discolored and encountered at 30". Soil discolored with hydrocarbon odor.
GPS reading: 32° 43.34n, 103° 04.74w

Sample #4
Samples taken from the west side of the pit. VERY strong hydrocarbon odor. Calechee was highly discolored and very powdery. Calechee did not seem to have any structure. Samples taken at 16", 6'5" and 13'5" (the limit of the backhoe arm). Discoloration was still present at backhoe limit.
GPS reading: 32° 43.44n, 103° 04.79w

All samples were taken to Hall Environmental Laboratory for chemical analysis .

Hall Environmental
Analysis Laboratory

February 18, 1999

Hall Environmental Analysis Laboratory
4901 Hawkins NE, Ste. A
Albuquerque, NM 87109

ECD Environmental
P. O. Box 9328
Albuquerque, NM 87119

Dear Mr. Greg Bybee:

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

2/10/99

Scott Hallenbeck
Laboratory Manager

Project: 9901106/Turner Rodriguez

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Soil
Project Number:	-	**Date Extracted:**	1/27/99

EPA Method - 8021

Units: PPM(mg/kg) Methanol Field Extraction/Dry Weight Basis

HEAL LAB ID	Sample ID	Benzene	Toluene	Ethyl-benzene	Total Xylenes	BFB % Recovery	Dilution Factor	Date Analyzed
9901106-1	Background 6'	ND	ND	ND	ND	93	1	1/28/99
9901106-3	#2-12"	ND	ND	ND	ND	95	1	1/28/99
9901106-4	#2-4'	ND	ND	ND	ND	95	1	1/28/99
9901106-6	#3-32"	ND	ND	ND	ND	97	1	1/28/99
9901106-8	#4-6.5	<1.3	2.9	26	31	101	25	1/28/99
9901106-9	#4-13.5	<1.3	3.7	31	46	99	25	1/28/99

MRL	0.05	0.05	0.05	0.05	

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:	-	**Date Extracted:**	NA

EPA Method - 8021

Units: PPB(ug/L)

HEAL LAB ID	Sample ID	Benzene	Toluene	Ethyl-benzene	Total Xylenes	BFB % Recovery	Dilution Factor	Date Analyzed
-	Reagent Blank	ND	ND	ND	ND	103	1	1/28/99

MRL	0.5	0.5	0.5	0.5

Turner 00165

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Soil
Project Number:	-	**Extraction Date:**	1/27/99

EPA Method - 8015B GRO

Units: PPM (mg/kg) - Methanol Field Extraction - Dry Weight Basis

HEAL ID	Client ID	Dilution	Gasoline Range (mg/kg)	% BFB	Analysis Date
9901106-3	#2-12"	1	42	95	1/28/99
9901106-8	#4-6.5	25	1,900	112	1/28/99
Reagent Blank	-	1	ND	103	1/28/99

MRL	5.0

QA/QC: BS/BSD

Sample ID:	Sample Amt.	Spike	Rec.	%	Dup.	%	RPD
BS/BSD 1/28	<5.0	25.0	23.8	95	22.9	92	4

Turner 00166

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Soil
Project Number:	-	**Extraction Date:**	2/1/99

EPA Method - 8015B Modified DRO

HEAL ID	Client ID	Dilution	Diesel Range (mg/kg)	Motor Oil Range (mg/kg)	% DNOP	Analysis Date
9901106-3	#2-12"	100	23,000	14,000	**	2/7/99
9901106-8	#4-6.5	40	16,000	6,000	**	2/7/99
Extracton Blank	-	1	ND	ND	96	2/7/99

**Surrogate not recoverable due to matrix interference and sample dilution.

MRL	5.0	50

QA/QC

Sample ID:	Sample Amt.	Spike	Rec.	%	Dup.	%	RPD
Blank Spike 2/1	<5.0	50	47	94	44	88	7

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505)345-3975, Fax (505) 345-4107

Turner 00167

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Soil
Project Number:		**Extraction Date**	1/28/99

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/kg)	Analysis Date
9901106-1	Background 6'	1	ND	1/29/99
9901106-3	#2 12"	50	38,000	1/29/99
9901106-4	#2 4'	5	910	1/29/99
9901106-5	#3 14"	20	3,100	1/29/99
9901106-6	#3 32"	50	7,000	1/29/99
9901106-7	#4 16"	20	2,700	1/29/99
9901106-8	#4 6.5	40	30,000	1/29/99
9901106-9	#4 13.5	100	28,000	1/29/99
Extraction Blank	-	1	ND	1/29/99

MRL	20

QA/QC

Sample ID:	Sample Amount	Spike	Recovery	% Recovery
BS 1/28	<20	100	100	100

Sample ID:	Sample Amount	Duplicate	RPD
Ext. Blk. Dup 1/28	<20	<20	NA

Sincerely:

Andy Freeman
Assistant Lab Manager

4901 Hawkins NE Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Turner 00168

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:		**Extraction Date:**	2/2/99

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/L)	Analysis Date
9901106-2	Decon H2O	1	ND	2/3/99
Extraction Blank	-	1	ND	2/3/99

	MRL	1.0

QA/QC

Sample ID:	Sample Amount	Spike	Recovery	% Recovery
BS 2/2	<1.0	5.0	4.6	92

Sample ID:	Sample Amount	Duplicate	RPD
Ext. Blk. Dup	<1.0	<1.0	NA

Sincerely:

Andy Freeman
Assistant Lab Manager

Turner 00169

Hall Environmental Analysis Laboratory

Client: ECD Environmental
Project: Turner/Rodriguez
Project Manager: Greg Bybee
Project Number: -

Date Collected: 1/27/99
Date Received: 1/28/99
Sample Matrix: Soil

Inorganic Compounds

HEAL LAB ID	Sample ID	Fluoride (mg/kg)	Chloride (mg/kg)	Nitrite (mg/kg)	Bromide (mg/kg))	Nitrate (mg/kg)	Sulfate (mg/kg)	o-Phosphate-P (mg/kg)
9901106-1	Background 6'	1.4	3.3	<0.6	<0.6	3.6	7.8	<3.0
9901106-1 Dup	Background 6'	1.5	3.3	<0.6	<0.6	3.5	6.6	<3.0
Detection Limits		0.3	0.3	0.3	0.3	0.3	1.5	1.5
Method		300.0	300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed		2/4/99	2/4/99	2/4/99	2/4/99	2/4/99	2/4/99	2/4/99

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner/Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Soil
Project Number:			

Inorganic Compounds

HEAL LAB ID	Sample ID	Sodium (mg/kg)	Potassium (mg/kg)	Magnesium (mg/kg)	Calcium (mg/kg)
9901106-1	Background 6'	1.4	17	7.0	120
9901106-1 Dup	Background 6'	-	-	-	130
Detection Limits		0.3	0.3	0.3	0.3
Method		300.0	300.0	300.0	300.0
Date Analyzed		2/17/99	2/17/99	2/17/99	2/17/99

Turner 00171

Hall Environmental Analysis Laboratory

Client: ECD Environmental
Project: Turner/Rodriguez
Project Manager: Greg Bybee
Project Number: -

Date Collected: 1/27/99
Date Received: 1/28/99
Sample Matrix: Aqueous

Inorganic Compounds

HEAL LAB ID	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Nitrite (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	o-Phosphate-P (mg/L)
9901106-2	Decon H_2O	0.8	90	ND	0.6	4.4	96	ND
Detection Limits		0.1	0.1	0.1	0.1	0.1	0.5	0.5
Method		300.0	300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed		1/28/99	2/9/99	1/28/99	1/28/99	1/28/99	2/9/99	1/28/99

Turner 00172

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	1/27/99
Project:	Turner Rodriguez	**Date Received:**	1/28/99
Project Manager:	Greg Bybee	**Sample Matrix:**	Soil
Project Number:	-	**Date Extracted:**	NA

8021 QC: BS/BSD 1/28

Compound	Sample Amount (mg/kg)	Spike	Recovery	% Rec	Dup	% Dup	RPD
Benzene	<0.05	1.00	1.02	102	1.00	100	2
Toluene	<0.05	1.00	1.04	104	1.02	102	2
Ethylbenzene	<0.05	1.00	1.03	103	1.02	102	1
Total Xylenes	<0.05	3.00	3.14	105	3.07	102	2

4901 Hawkins NE, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

CHAIN-OF-CUSTODY RECORD

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
505.345.3975
Fax 505.345.4107

Client: ECD Environmental

Project Name: Turner Rodeyer

Address: P.O. Box 9328 Albuquerque N.M. 87119

Project #:

Project Manager:

Phone #: (505) 768-7686

Sampler: GB

Fax #:

Samples Cold?: ☒ Yes ☐ No

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HCl	Preservative	HEAL No.
1/27/99	8:00	soil	Backsoil 6'					9901106-1
"	8:10	H_2O	Decon H_2O					-2
"	8:20	soil	#2 12"					-3
"	8:30	soil	#2 4'					-4
"	8:45	soil	#3 14"					-5
"	8:45	soil	#3 32"					-6
"	9:20	soil	#4 16"					-7
"	9:30	soil	#4 6.5					-8
"	9:45	soil	#4 13.5					-9

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B MOD (Gas/Diesel)	TPH (Method 418.1)	Volatiles Full List (8021)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4) BC	8081 Pesticides / PCB's (8082)	8260 (VOA)	8270 (Semi-VOA)			Air Bubbles or Headspace (Y or N)
X			X						X	X						
~~X~~			X							X						
X		X	X													
X			X													
~~X~~			X													
X			X													
			X													
X		X	X													
X			X													

Remarks:

Date: 1/27/99 Time: 11:00 Relinquished By: (Signature)

Received By: (Signature) Jayce Mollem

Date: Time: Relinquished By: (Signature)

Received By: (Signature)

Turner 00174

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 The customer may order services by submitting a written purchase order to HEAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotiated contract. Any such order constitutes a) an acceptance by the Customer of HEAL'S offer to do business with the Customer under these Terms and Conditions, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to proceed with work at any time based upon an unfavorable customer credit report.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 Services performed by HEAL will be in accordance with prices quoted and later confirmed in writing or as stated on the Price Schedule, which prices are subject to change periodically without notice. The Customer should confirm with HEAL the current price prior to placing an order for work.

3.2 Payment terms are net 30 days from the date of invoice by HEAL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State currency

3.3 The prices stated on the Price Schedule do not include any sales, use or other taxes unless specifically stated. Such taxes will be added to invoice prices when required.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 Prior to HEAL'S Acceptance of any sample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will remain with the Customer. In no event will HEAL have any responsibility or liability for the action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance or, any sample which in the sole judgement of HEAL a) is of unsuitable volume, b) unsuitable containers as required for the requested analysis, or c) may be or become unsuitable for, or may pose a risk in, handling, transport or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer.

4.3 Where applicable, HEAL will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these methodologies, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and/ or HEAL'S Standard Operating Procedures.

4.4 Upon timely delivery of samples, HEAL will use its best efforts to comply with storage, processing and analytical holding time limits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or set forth on the Price Schedule. However, unless specifically made part of a written agreement between HEAL and the Customer, such time limits cannot be guaranteed. Unless specifically indicated on the Price Schedule or expressly made part of a written agreement between HEAL and the Customer, analytical turnaround times are not guaranteed.

4.5 At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results. Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S standard quality assurance review procedures.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 HEAL warrants only that its services will fulfill obligations set forth in Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty given by HEAL in connection with any such services, and HEAL gives and makes no other representation or warranty of any kind, express or implied. No representative of HEAL is authorized to give or make any other representation or warranty or modify the warranty in any way.

5.2 The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, refunding in full or in part fees paid by the Customer for such services. HEAL'S obligation to repeat any services with respect to any sample will be contingent on the Customer's providing, at the request of HEAL and at the Customer's expense, an additional sample if necessary. Any reanalysis generating Results consistent with the Original Results will be at the Customer's expense. Except as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability to the Customer for any failure or delay in performance by HEAL, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disputes, difficulties or delays in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.

5.4 All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by Customers or third parties. All results should be considered in their entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by the customer. The Customer further warrants that any sample containing any hazardous substance, which is to be delivered to HEAL'S premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

5.6 It is understood and agreed that all samples and cuttings of materials containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laboratory byproducts will be returned to the Customer for disposal. It is understood and agreed that HEAL is not, and has no responsibility as, a generator, treater, storer, or disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, duties, fines and/or other costs (including but not limited to liability to a third party) arising out of a) the presence of hazardous substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5.5 hereof b) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence by the Customer in the use, evaluation, or application of Results provided by HEAL.

5.8 Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any HEAL instrumentation to be reduced, stopped, or altered, HEAL is entitled to compensation by the Customer for any loss of revenue due to the instrument's downtime, and/or the parts and labor necessary to bring the instruments back to its former operating condition. The amount of compensation is negotiable upon acceptance of these Terms and Conditions and the individual circumstances warranting the reimbursement

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by HEAL as provided in Section 7.1, embodied the whole agreement of the parties. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, unless made in accordance with Section 7.1, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.

7. AMENDMENTS AND WAIVERS

7.1 HEAL shall not be subject to or bound by any provision, term or condition which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and provision, term or condition, or have given any required consent or approval, or to have waived any breach by the Customer of any of these Terms and Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duly authorized officer. No other employee, servant, agent or representatives of HEAL has any authority whatsoever to add to, delete, alter or vary any of these Terms and Conditions in any manner, or to give any consent, approval or waiver, and HEAL shall not be bound by any such purported addition, deletion, alteration, variation, consent, approval or waiver.

7.2 No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the Customer hereunder shall constitute a waiver of such provision, term or condition on any other occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance. Storage of samples or extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material may be returned at the client's expense. Materials, which are identified as hazardous, will be returned to the client or disposed of as hazardous waste and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

9.1 The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These Terms and Conditions or their interpretations.

10. GOVERNING LAW

10.1 These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.

ROBINS, CLOUD & LUBEL, L.L.P.
ATTORNEYS AT LAW
910 TRAVIS, SUITE 2020
HOUSTON, TEXAS 77002
TELEPHONE 713/650-1200
TELECOPY 713/650-1400

BILL ROBINS III
Board Certified-Personal Injury Trial Law
Texas Board of Legal Specialization

E-MAIL: robins@rcllaw.com

February 11, 1999

FEB 16 1999

Mr. Roger Anderson
Environmental Bureau Chief
Oil Conservation Division
State of New Mexico
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: D.F. Fergason Oil Battery located in Unit H, Sec. 30, T.18, R.39E

No. D 0101-CV-9801302; *J.C. Turner, et al. vs. Texaco, Inc., et al.*; In the First Judicial District Court - State of New Mexico - County of Santa Fe

Dear Mr. Anderson:

Enclosed please find recent test results from the water wells on my clients' property. As you will determine from these test results, it appears that our clients' water wells have been impacted by toluene and other contaminants. My clients are very concerned about the health affects of their exposure to these substances. They have been using these water wells for many years. Upon receipt of these test results, we immediately instructed our clients to cease using these water wells for consumption. We have also recently taken additional soil samples and will provide those to you upon receipt.

It is my understanding that the OCD has requested that Texaco provide it with a plan to remedy the situation at or near my clients' property with respect to the large pit associated with the D.F. Fergason Oil Battery. My clients would very much appreciate your considering these test results in evaluating any plan Texaco may submit regarding the clean-up operations.

Thank you very much for your cooperation in this matter. If I need to take any further action, please do not hesitate to contact me.

Very truly yours,

Bill Robins III

BRR:vjw
Enclosure

cc: Mr. and Mrs. J.C. Turner (w/encl.)
4601 East Seminole Highway
Hobbs, New Mexico 88240

ECD

ECD Environmental, Inc.

P.O. Box 9328
Albuquerque, NM 87119-9328
Telephone 505 / 768-7686
Fax 505 / 768-7601

Mr. Bill Robbins
Robbins, Cloud & Lewbel
910 Travis
Suite 2020
Houston, TX 77002

11/16/98

Dear Mr. Robbins,

Enclosed is the chemical analysis data on the water samples obtained from the Turner and Rodriguez water wells. The samples were taken 10/28/98. Please feel free to contact me if you have any questions.

Sincerely,

Greg Bybee
ECD Environmental

Hall Environmental
Analysis Laboratory

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite A
Albuquerque, NM 87109

11/12/98

ECD Environmental
P. O. Box 9328
Albuquerque, NM 87119

Dear Mr. Greg Bybee,

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely:

Andy Freeman
Assistant Lab Manager

Project: 9810128 - Turner/Rodriguez

Hall Environmental Analysis Laboratory

Client:	ECD	**Date Collected:**	10/28/98
Project:	Turner/Rodriguez	**Date Received:**	10/30/98
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:		**Extraction Date:**	11/4/98

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/L)	Analysis Date
9810128-5	Background	1	ND	11/5/98
Extraction Blank	-	1	ND	11/5/98

	MRL	1.0

QA/QC

Sample ID:	Sample Amount	Spike	Recovery	% Recovery
Blank Spike 11/4	<1.0	5.0	3.9	78

Sample ID:	Sample Amount	Duplicate	RPD
Blank Duplicate 11/4	<1.0	<1.0	NA

Sincerely:

Andy Freeman
Semi Volatiles Supervisor

4901 Hawkins NE Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Client: ECD Environmental
Project: Turner/Rodriguez
Project Manager: Greg Bybee
Project Number:

Date Collected: 10/28/98
Date Received: 10/30/98
Sample Matrix: Aqueous

Inorganic Compounds

HEAL LAB ID	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrate/Nitrite (mg/L)	Sulfate (mg/L)	o-Phosphate-P (mg/L)
9810128-5	Background	1.6	44	0.4	2.8	78	ND
9810128-5	Background Dup	1.6	45	0.4	2.8	-	ND
Detection Limits		0.1	0.1	0.1	0.1	0.5	0.5
Method		300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed		10/29/98	10/29/98	10/29/98	10/29/98	11/9/98	10/29/98

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	10/28/98
Project:	Turner/Rodriguez	**Date Received:**	10/30/98
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:			

Inorganic Compounds

HEAL LAB ID	Sample ID	Sodium (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Calcium (mg/L)
9810128-5	Background	36	2.7	20	70
9810128-5	Background Dup	37	-	21	72
Detection Limits		0.1	0.1	0.1	0.1
Method		300.0	300.0	300.0	300.0
Date Analyzed		11/11/98	11/11/98	11/11/98	11/11/98

Hall Environmental
Analysis Laboratory

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite A
Albuquerque, NM 87109

11/12/98

ECD Environmental
P. O. Box 9328
Albuquerque, NM 87119

Dear Mr. Greg Bybee,

Enclosed are the results for the analyses that were requested. These were done according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely:

Andy Freeman
Assistant Lab Manager

Project: 9810128 - Turner/Rodriguez

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax (505) 345-4107

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	10/28/98
Project:	Turner/Rodriguez	**Date Received:**	10/30/98
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:		**Date Extracted:**	NA

EPA Method - 8021

Units: PPB(ug/L)

HEAL LAB ID	Sample ID	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	1,3,5-TMB	1,2,4-TMB	BFB % Recovery	Dilution Factor	Date Analyzed
9810128-1	TH Well #11st Purge	ND	ND	ND	ND	ND	ND	ND	98	1	11/2/98
9810128-2	TH Well #1	ND	ND	1.8	ND	ND	ND	ND	101	1	11/2/98
9810128-3	RH Well #11st Purge	ND	ND	ND	ND	ND	ND	ND	92	1	11/2/98
9810128-4	RH Well #1	ND	ND	1.6	ND	ND	ND	ND	95	1	11/2/98
9810128-6	Trip Blank	ND	ND	0.5	ND	ND	ND	ND	97	1	11/2/98
	Reagent Blank	ND	ND	ND	ND	ND	ND	ND	100	1	11/2/98

MRL	2.5	0.5	0.5	0.5	0.5	0.5	0.5

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	10/28/98
Project:	Turner/Rodriguez	**Date Received:**	10/30/98
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:		**Extraction Date:**	11/4/98

EPA Method - 418.1

HEAL ID	Client ID	Dilution	TPH (mg/L)	Analysis Date
9810128-2	Turner House Well #1	1	19	11/5/98
9810128-4	Rodriguez House Well	1	2.6	11/5/98
Extraction Blank	-	1	ND	11/5/98

MRL	1.0

QA/QC

Sample ID:	Sample Amount	Spike	Recovery	% Recovery
Blank Spike 11/4	<1.0	5.0	3.9	78

Sample ID:	Sample Amount	Duplicate	RPD
Blank Dup. 11/4	<1.0	<1.0	NA

Sincerely:

Andy Freeman
Semi Volatiles Supervisor

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	10/28/98
Project:	Turner/Rodriguez	**Date Received:**	10/30/98
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:			

Inorganic Compounds

HEAL LAB ID	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrate/Nitrite (mg/L)	Sulfate (mg/L)	o-Phosphate-P (mg/L)
9810128-2	TH Well #1	1.0	94	0.9	3.6	88	ND
9810128-4	RH Well	0.8	270	2.4	3.4	130	ND

Detection Limits		0.1	0.1	0.1	0.1	0.5	0.5
Method		300.0	300.0	300.0	300.0	300.0	300.0
Date Analyzed		10/29/98	10/29/98	10/29/98	10/29/98	11/9/98	10/29/98

Hall Environmental Analysis Laboratory

Client:	ECD Environmental	**Date Collected:**	10/28/98
Project:	Turner/Rodriguez	**Date Received:**	10/30/98
Project Manager:	Greg Bybee	**Sample Matrix:**	Aqueous
Project Number:			

Inorganic Compounds

HEAL LAB ID	Sample ID	Sodium (mg/L)	Potassium (mg/L)	Magnesium (mg/L)	Calcium (mg/L)
9810128-2	TH Well #1	48	2.5	21	87
9810128-4	RH Well	64	3.3	40	150

Detection Limits		0.1	0.1	0.1	0.1
Method		300.0	300.0	300.0	300.0
Date Analyzed		11/11/98	11/11/98	11/11/98	11/11/98

4901 Hawkins NE, Suite A, Albuquerque, NM 87109
Ph (505) 345-3975, Fax 345-4107

Hall Environmental Analysis Laboratory

Client: ECD Environmental
Project: Turner/Rodriguez
Project Manager: Greg Bybee
Project Number:

Date Collected: 10/28/98
Date Received: 10/30/98
Sample Matrix: Aqueous
Date Extracted: NA

8021 QC: 9810128-3 MS/MSD 11/2/98

Compound	Sample Amount (ug/L)	Spike	Recovery	% Rec	Dup	% Dup	RPD
MTBE	<2.5	40.0	40.0	94	40.4	101	1
Benzene	<0.5	20.0	20.1	102	20.1	101	0
Toluene	<0.5	20.0	19.8	99	20.0	100	1
Ethylbenzene	<0.5	20.0	20.0	100	20.1	101	0
Total Xylenes	<0.5	60.0	60.7	101	60.8	101	0
1,3,5-TMB	<0.5	20.0	20.8	104	21.0	105	1
1,2,4-TMB	<0.5	20.0	20.9	105	20.7	104	1

CHAIN-OF-CUSTODY RECORD

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
505.345.3975
Fax 505.345.4107

Client: ECD Environmental

Address: P.O. Box 9328
Albuquerque, N.M. 87119

Phone #: (505) 768-7686

Fax #: (505) 768-7601

Project Name: Turner/Rodriguez

Project #:

Project Manager: Greg Byrd

Sampler: Greg Byrd

Samples Cold?: ☑ Yes ☐ No

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HCl	HEAL No.
10/28/98	11:40	H_2O	Turner House well #1 1st pump				9810128-1
"	12:30	H_2O	Turner House well #1				-2
"	3:45	H_2O	Rodriguez House well #1 1st pump				-3
"	4:10	H_2O	Rodriguez House well				-4
"	5:00	H_2O	Background				-5
			Trip Blk				-6

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B MOD (Gas/Diesel)	TPH (Method 418.1)	Volatiles Full List (8021)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260 (VOA)	8270 (Semi-VOA)			Air Bubbles or Headspace (Y or N)
X																
X			X						X	X						
X																
X			X						X	X						
			X						X	X						
X																

Turner/Rodriguez

Remarks:

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
10/29/98			10/30
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Price, Wayne

From: Price, Wayne
Sent: Tuesday, February 02, 1999 2:48 PM
To: Williams, Donna
Cc: 'Chris Williams'
Subject: Texaco Fergason Draft

Donna! This is in word!

texferga.doc

Texaco E & P
205 E. Bender Blvd.
Hobbs NM 88240
505 393 7191

October 1, 1998

Chris Williams
District 1 Supervisor
Oil Conservation Division
Hobbs, New Mexico

Re: D.F. Fergason Work plan

Dear Mr. Williams:

In response to your letter of August 25, 1998, Texaco Exploration and Production Inc. (TEPI) requested Highlander Environmental Corp. to prepare a work plan to investigate the pit closure on the D.F. Fergason lease. Attached is the work plan for the site as developed by Highlander.

TEPI is submitting this work plan in the spirit of cooperation with the Oil Conservation Division (OCD) and will continue to cooperate with the OCD to gather data regarding the pit closure. However, by submitting this work plan, TEPI does not admit responsibility for any remedial action.

Should you desire to discuss this work plan please advise. If you approve of the plan we are prepared to start with the assessment as soon as we make arrangements with the landowner for access.

Rodney Bailey

Rodney Bailey
EHS Professional
Hobbs Operating Unit

Wayne,
I have received this and am waiting For your response. Thanks
Donna

Highlander Environmental Corp.

Midland, Texas

September 28, 1998

Mr. Chris Williams
District 1 Supervisor
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
P. O. Box 1980
Hobbs, New Mexico 88241

Re: Scope of Work for Pit Closure Investigation, Texaco Exploration and Production, Inc., D. F. Fergason Lease, Northeast Quarter, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico

Dear Mr. Williams:

Texaco Exploration and Production, Inc. (Texaco) has requested Highlander Environmental Corp. (Highlander) to prepare a scope of work to investigate a former emergency overflow pit (Site) at the D. F. Fergason Lease, located approximately two mile east of Hobbs, New Mexico. The Site is located in the northeast quarter (NE/4), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico. Figure 1 presents a Site location and topographic map.

1.0 Background

On August 25, 1998, the New Mexico Oil Conservation Division (OCD) requested that Texaco submit a work plan to investigate closure of the pit. Appendix A presents correspondence from the OCD. On July 7, 1998 and July 16, 1998, Texaco had submitted correspondence to the OCD regarding its operation of the Site. Prior to about 1969, Texaco operated the Site for temporary containment of oil and gas waste (i.e., oil, produced water, etc.) during upset conditions or unscheduled shutdown of its tank battery. Texaco sold its interest at the D. F. Fergason Lease in 1969, and aerial photographs indicate that the Site may have been closed at that time. The Site is mainly covered by caliche and measures approximately 200 x 300 feet.

2.0 Scope of Work

The purpose of the investigation is to assess the presence and extent of oil and gas wastes at the Site, and to determine the potential for impact to subsurface soil and groundwater. The investigation will include installation of rotary drilled borings and collection of soil samples for laboratory tests. Monitoring wells may be installed for collection of groundwater samples if the investigation suggests that oil and gas wastes, if present, have affected groundwater.

Three (3) to five (5) soil borings may be installed at the Site to determine the presence of oil and gas wastes and to evaluate the potential for impacts to groundwater. The borings will be drilled using a truck-mounted air rotary drilling rig and soil samples will be collected approximately every ten (10) feet for field and possible laboratory analysis. The soil samples may be collected using a split-spoon sampler, if possible. However, if soil conditions prohibit use of the split-spoon sampler, or equivalent devise, the samples will be collected as drill cuttings exit the borehole. The soil samples will be placed in clean glass sample containers, and a portion of the sample will be retained in a clean sample bag for soil headspace gas analysis. Should the concentration of petroleum hydrocarbons observed from the soil headspace analysis decrease below measurable levels prior to encountering groundwater, drilling will cease, and the soil boring will be plugged. If plugged, the boring(s) will be filled to ground surface with cement and bentonite grout. However, if soil headspace analysis suggest that oil and gas wastes have migrated to groundwater, monitoring wells may be installed. Texaco will work with the OCD to select monitoring well locations. Soil cuttings from drilling will be placed on plastic adjacent to the borings and covered until disposal is arranged.

The soil samples will be field screened for petroleum hydrocarbons using the Ambient Temperature Headspace (ATH) method. The ATH method consists of collecting a discrete or composite soil sample and placing the sample in a clean plastic sample bag, leaving a vacant headspace in the top of the bag. The bag is sealed and after approximately fifteen minutes at ambient temperature storage, the concentration of organic vapors in the sample bag headspace is measured using a photoionization detector (PID). A Thermo Environmental Instruments, Model 580B, Organic Vapor Meter, calibrated to a 75 parts per million (ppm) isobutylene standard, will be used to measure the headspace. The PID has a detection limit of 0.1 ppm. The soil headspace gas analysis will be used to evaluate soil samples for possible laboratory tests.

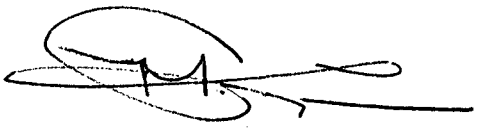
According to OCD guidelines (Guidelines for Unlined Surface Impoundment Closure, February 1993), a soil headspace gas measurement of 100 ppm may be substituted for laboratory analysis of benzene and total BTEX (sum of benzene, toluene, ethylbenzene and xylene). However, a headspace gas analysis cannot be substituted for total petroleum hydrocarbon (TPH) analysis. The soil sample exhibiting the highest headspace gas reading and the lower most sample collected from the borings will be selected for laboratory analysis. If the soil samples exhibit headspace gas readings above 100 ppm, the samples will be analyzed for benzene, total BTEX and TPH. However, if the samples exhibit headspace gas readings below 100 ppm, then the samples will only be tested for TPH.

If soil sample field screening strongly suggests that groundwater has been affected from oil and gas waste, and it is determined that one or more groundwater monitoring wells may be required, the monitoring wells will be installed in accordance with procedures presented in Appendix B. All down-hole equipment (i.e., drilling rods, bit, etc.) will be thoroughly decontaminated between each use with a high-pressure hot water wash and rinse. All soil sampling equipment (i.e., split-spoon sampler, samples trowels, etc.) will be thoroughly washed between events with potable water and

laboratory-grade detergent and rinsed with distilled water.

Upon receipt of analytical data from the laboratory, Highlander will review all data and prepare a report for submittal to Texaco and the OCD summarizing the investigation results. Please call if you have questions.

Respectfully yours,
Highlander Environmental Corp.



Mark J. Larson
Senior Project Manager

Encl.

cc: Mr. Rodney Bailey, Texaco
Mr. Larry Hall, Texaco

FIGURES

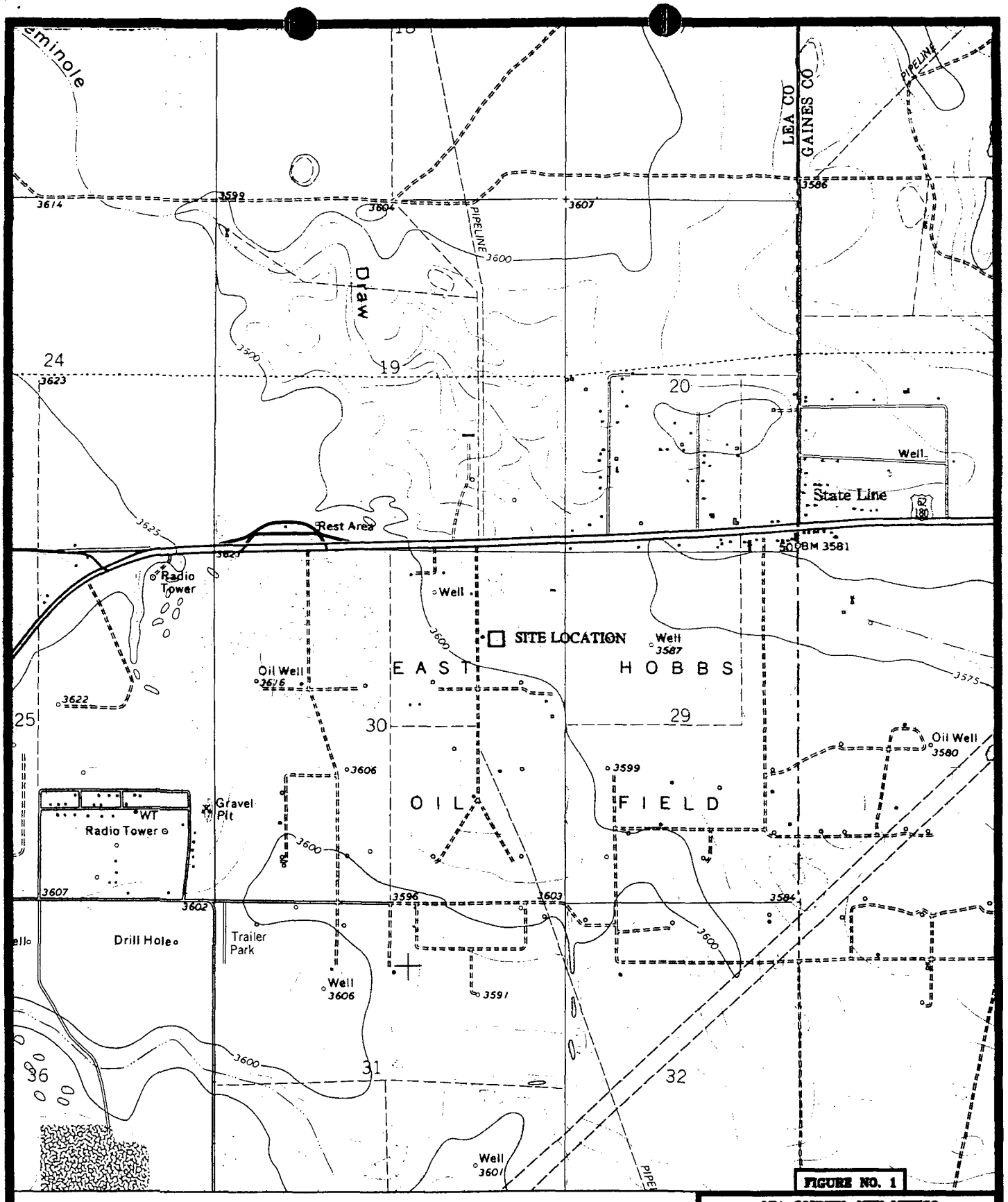


FIGURE NO. 1

LEA COUNTY, NEW MEXICO

TEXACO EXPLORATION & PRODUCTION, INC.

TOPOGRAPHIC MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

TAKEN FROM U.S.G.S.
HOBBS EAST, TEX.-N. MEX.
7.5' QUADRANGLES

LEGEND

☐ SITE LOCATION

SCALE: 1"=2,000'

APPENDIX A

OCD CORRESPONDENCE

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

August 25, 1998

Mr. L.R. Hall
Texaco-North America Production (TNAP)
P.O. Box 3109
Midland, Tx 79702

Re: D.F. Fergason Lease
NE/4 Sec 30-Ts18s-R39e

Dear Mr. Hall:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your correspondence dated July 7 and July 16, 1998 concerning the above referenced site. It appears that TNAP closed the pit located on the above location.

In order to ensure protection of public health, fresh water and the environment, NMOCD is requiring TNAP to submit within 30 days of receipt of this letter a pit closure investigation and work plan for NMOCD approval. The NMOCD will review the plan and approve as is or with conditions. Please note the NMOCD can allow additional time for a good cause shown.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Chris Williams

Chris Williams-NMOCD District I Supervisor

file: wp98/ferpit

cc: Gallagher, Lewis & Downey-Houston, Tx

APPENDIX B

Procedures
for
Monitoring Well Installation, Development and Groundwater Sample Collection

Procedures
for
Monitoring Well Installation, Development and Groundwater Sample Collection

---

Groundwater monitoring wells may be installed at the Site to evaluate groundwater quality. Records of the New Mexico State Engineer's office indicate that groundwater occurs in the vicinity of the Site, and varies from about 70 to 80 feet below ground surface (BGS). If installed, the monitoring wells will be drilled approximately 15 feet into the upper groundwater zone. The wells will be constructed using two (2) inch diameter schedule 40 PVC threaded casing and factory slotted screen. The well screen, approximately twenty (20) feet in length, will be installed in the drilled boring with about five (5) feet of screen above the groundwater and about fifteen (15) feet into the groundwater. The well screen will be surrounded with a graded silica sand to a depth approximately 2 feet above the screen. A layer of bentonite pellets, approximately 2 feet thick, will be placed in the annulus above the sand and hydrated with potable water. The remainder of the annulus will be filled with cement and bentonite grout to about one foot below ground. The well will be secured with a locking cap and steel protector anchored in a concrete pad measuring approximately 3 feet by 3 feet.

The wells will be developed following installation to remove fine-grained sediment disturbed during drilling, and prior to collection of groundwater samples. The well will be developed by bailing or pumping with a submersible pump. Water removed from the wells will be placed in an appropriate container (i.e., 55-gallon drums, portable tank, etc.) and stored at the Site until disposal is arranged. After well development, groundwater samples will be collected and analyzed for BTEX, major cations and anions, total dissolved solids (TDS), dissolved metals (RCRA 8) and polynuclear aromatic hydrocarbons (PAH). Samples for metals will be filtered in the field prior to submittal to the laboratory. The well will be inspected for the presence of phase-separated hydrocarbons (PSH) and, if present, a sample will be collected and analyzed by gas chromatography (GC) to determine composition and possible source. If PSH is detected in a monitor well groundwater samples will not be collected from the well. All samples will be delivered to the laboratory via overnight delivery and under chain-of-custody control. Quality Assurance/Quality Control (QA/QC) samples (i.e., duplicate, trip blank, field blank, etc.) will be collected during the investigation for data validation.

All groundwater sampling equipment (i.e., water level indicator, interface probe, submersible pump, etc.) will be thoroughly washed between events with potable water and laboratory-grade detergent and rinsed with distilled water.

Texaco E & P
205 E. Bender Blvd.
Hobbs NM 88240
505 393 7191

September 21, 1998

Mr. Chris Williams
NMOCD
District I Supervisor

Re: D.F. Fergason Lease
NE/4 Sec 30-T 18S-R 39E

Dear Mr. Williams

In response to your letter dated August 25, 1998, Texaco is in receipt of a draft copy of a work plan for investigating the pit closure on the D.F. Fergason lease. This plan is being developed by Highlander Environmental Corp. Texaco is currently reviewing the draft copy. It is apparent we can not meet the September 25, 1998 deadline. Texaco would like to ask for a 10-day extension to complete the review and final copy printing.

Thank you for your understanding and assistance in this matter. If you have any questions please call me at 505-397-0422.

Rodney Bailey

O K Chris Williams

Rodney Bailey
EHS Professional
Hobbs Operating Unit

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

August 25, 1998

Mr. L.R. Hall
Texaco North America Production (TNAP)
P.O. Box 3109
Midland, Tx 79702

Re: D.F. Fergason Lease
NE/4 Sec 30-Ts18s-R39e

Dear Mr. Hall:

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If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Chris Williams

Chris Williams-NMOCD District I Supervisor

file: wp98/ferpit

cc: Gallagher, Lewis & Downey-Houston, Tx

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

June 11, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-288

Mr. Bill Robins III
Gallagher, Lewis & Downey
40th Floor, Nations Bank Center
700 Louisiana
Houston, Texas 77002

RE: FORMER UNLINED PIT AND SPILL AREA
TEXACO FERGASON TANK BATTERY/ARCO PIPELINE SPILL

Dear Mr. Robins:

The New Mexico Oil Conservation Division (OCD) has reviewed Gallagher, Lewis & Downey's January 29, 1998 correspondence which states that the water wells of Mr. J.C. Turner and Ms. Idolina Rodriguez have been sampled and found to be contaminated as a result of a former Texaco unlined pit at the D.F. Fergason Tank Battery and a former Arco Pipeline spill located in Unit H, Sec. 30, T18N, R39E, NMPM, Lea County, New Mexico.

In order to initiate a ground water assessment and to be able to assess potential health impacts from contaminants in these water wells, the OCD requests that you provide a copy of the laboratory analytical data sheets of all water quality samples taken from the Turner and Rodriguez water wells.

If you have any questions, please call me at (505) 827-7152 or Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

xc: Wayne Price, OCD Hobbs District Office

Z 235 437 288

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail *(See reverse)*

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

Price, Wayne

From: Price, Wayne
Sent: Wednesday, February 11, 1998 2:18 PM
To: Roger Anderson; Carroll, Rand
Cc: Chris Williams; Bill Olson
Subject: Law firm inquiry concerning Groundwater contamination

Dear Roger,

Please note I am dropping in the US Mail today a copy of a letter and my response to a law firm making an inquiry concerning an old Texaco Pit and groundwater contamination out in the East Hobbs Pool Water Study Area.

This area is located just east of Hobbs, NM and adjacent to the NM-Texas State line.

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5950

Jennifer A. Salisbury
CABINET SECRETARY

February 11, 1998

Bill Robins III
Gallagher, Lewis & Downey
NationsBank Center 40th Floor
700 Louisiana
Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec 30-T18s-R39e

Dear Mr. Robins III:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated January 29, 1998 concerning groundwater and oilfield contamination at and/or near the above referenced site.

Please note groundwater contamination cases are normally handled by the NMOCD Environmental Bureau located at 2040 S. Pacheco, Santa Fe, NM 87505. The NMOCD District I office in Hobbs, NM is forwarding your letter to the NMOCD Environmental Bureau Chief, Mr. Roger Anderson. Mr. Anderson can be contacted by telephone at 505-827-7152.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

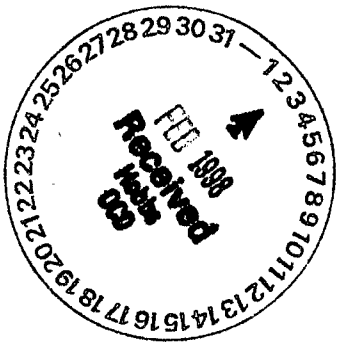
Sincerely Yours,

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Rand Carroll-NMOCD Legal Counsel
File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY
ATTORNEYS AT LAW

40th Floor
NationsBank Center
700 Louisiana
Houston, Texas 77002
Telephone 713/222-8080
Telecopy 713/222-0066



Bill Robins III
Board Certified-Personal Injury Trial Law
Texas Board of Legal Specialization

Direct Line 713/238-7880

January 29, 1998

Mr. Wayne Price
Environmental
State of New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

Re: D.F. Fergason Oil Battery located in Unit H, Sect. 30, T. 18, R. 39 E.

Dear Mr. Price:

Our law firm represents J.C. Turner and his wife, Donna Turner, as well as Idolina Rodriguez. Mr. and Mrs. Turner own a property located at 4601 East Seminole Highway, Hobbs, New Mexico 88240. Mr. and Mrs. Turner have been living at this address since 1987. During the last approximately ten years, Mr. Turner has been attempting to grow crops on his land. However, on an approximately five acre portion of his property, Mr. Turner was unable to successfully grow any crops or vegetation, despite extensive efforts at discing, tilling, plowing, and also, by adding many kinds of fertilizer. In fact, despite his efforts, the land appeared to be sterile.

This sterile area actually was a large pit associated with the D.F. Fergason Oil Battery located in Unit H, Section 30, T. 18, R. 39 E. This property was drilled and operated by Texaco for many years. It was subsequently operated by Martindale Petroleum Corporation, Hillin-Simon Oil Company, Marshall R. Young Oil Company, and Fredonia Resources, Inc., as well as possibly others.

Recently, Mr. Turner learned the old pit posed a serious health hazard to him and his family. In December, 1996, Mr. Turner filed a complaint about the pit area with the State of New Mexico - Oil Conservation Division. In addition, Mr. Turner also notified the above-listed operators by letter dated January 27, 1997. Water wells on Mr. and Mrs. Turner's property were sampled and have been impacted by contaminants. In addition, the water well of Ms. Rodriguez, who lives adjacent to the old pit area, has also been impacted.

In April, 1997, Texaco's environmental person, Rodney Bailey, came to the property with consultants from Highlander Environmental and did sampling of the soil. Eddie Seay, with Eddie Seay Consulting, also met with Rodney Bailey about the environmental report and analysis. Mr. Bailey admitted there was a problem but told Mr. Seay that Texaco was not going to do anything about the problem. In fact, Mr. Bailey told Mr. Seay that if the Turners and Ms. Rodriguez wanted anything from Texaco, they had no choice but to get a lawyer.

In addition, Arco Pipeline Company has a pipeline that runs across the Turner property in the vicinity of the old pit. Arco recently had a substantial spill in this area. Arco began efforts to attempt to clean up its spill, but when it encountered the remnants of the old pit, refused to do any further remediation. As a result, Mr. and Mrs. Turner's property has also been significantly impacted by Arco's operations.

The purpose of this letter is to request that your department take whatever action is necessary to compel Texaco, Arco, and any and all other responsible parties to clean up the environmental damage that has taken place on Mr. Turner's property and which is impacting the health, safety, and welfare of the Turners and their neighbor, Ms. Rodriguez. We would certainly appreciate any cooperation that you could provide to us in this regard.

We look forward to working with you. If you have any questions, or need any additional information, please do not hesitate to contact me.

Very truly yours,

Bill Robins III

BRR:vjw
126916/97-26444

cc: Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

Ms. Idolina Rodriguez
c/o Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

GALLAGHER, LEWIS & DOWNEY
ATTORNEYS AT LAW
40TH FLOOR
NATIONSBANK CENTER
700 LOUISIANA
HOUSTON, TEXAS 77002
Telephone: 713/222-8080
Telecopy: 713/222-0066

BILL ROBINS III
Board Certified-Personal Injury Trial Law
Texas Board of Legal Specialization

DIRECT LINE 713/238-7880

July 9, 1998

Mr. Roger Anderson
Environmental Bureau Chief
Oil Conservation Division
State of New Mexico
2040 South Pacheco
Santa Fe, New Mexico 87505

CERTIFIED MAIL:RRR
#P 436 345 757

Re: Former Unlined Pit in Spill Area at Texaco Ferguson Battery/ARCO Pipeline Spill

Dear Mr. Anderson:

Thank you for your letter dated June 11, 1998 regarding the complaint made by my clients, J.C. Turner and Ms. Idolina Rodriguez. Pursuant to your request, enclosed please find copies of the analytical results for Ms. Rodriguez' water well, and for J.C. Turner's water wells. The samples for Mr. Turner's water wells were taken by Eddie Seay Consulting on January 5, 1997, and the sample for Ms. Rodriguez' water well was taken on June 11, 1997. We would anticipate that additional sampling will be necessary.

Thank you very much for your attention to this matter. If you need any additional information, or if I can be of any further assistance to you, please do not hesitate to contact me.

Very truly yours,

Bill Robins III

BRR:vjw
Enclosure
134074/97-26444

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88240
FAX TO:

Receiving Date: 01/06/97
Reporting Date: 01/09/97
Project Number: NOT GIVEN
Project Name: J.C. TURNER
Project Location: EAST HOBBS

Sampling Date: 01/05/97
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: GP/BC

LAB NUMBER	SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	pH (s u.)
ANALYSIS DATE		1/7/97	1/7/97	1/7/97	1/7/97	1/7/97	1/7/97
H2751-2	DEEP WATER	0	144	360	160	108	7.57
	WELL						
Quality Control		NR	NR	NR	496	99.5	7.00
True Value QC		NR	NR	NR	500	100	7.00
% Accuracy		NR	NR	NR	99.2	99.5	100
Relative Percent Difference		NR	NR	NR	0.0	0.5	0.1
METHODS:	EPA 600/4-79-020,	-	-	130.2	325.3	375.4	150.1
	Standard Method	2320 B	2320 B	-	-	-	-

LAB NUMBER	SAMPLE ID	Hydroxides (mg/L)	Carbonates (mg/L)	Bicarbonates (mg/L)	Conductivity (umhos/cm)	TDS (mg/L)
ANALYSIS DATE		1/7/97	1/7/97	1/7/97	1/7/97	1/8/97
H2751-2	DEEP WATER	0	0	176	875	640
	WELL					
Quality Control		NR	NR	NR	1413	NR
True Value QC		NR	NR	NR	1413	NR
% Accuracy		NR	NR	NR	100	NR
Relative Percent Difference		NR	NR	NR	0.0	6.8
METHODS:	EPA 600/4-79-020,	-	-	-	120.1	160.1
	Standard Method	2320 B	2320 B	2320 B	-	-

Chemist

01/09/97
Date

H2751-2.XLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88240
FAX TO:

Receiving Date: 01/06/97
Reporting Date: 01/09/97
Project Number: NOT GIVEN
Project Name: J.C. TURNER
Project Location: EAST HOBBS

Sampling Date: 01/05/97
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/L)	Cl (mg/L)
ANALYSIS DATE:		1/9/97	1/7/97
H2751-1	SHALLOW WATER WELL	<1	160
Quality Control		214	496
True Value QC		200	500
% Accuracy		107	99.2
Relative Percent Difference		1.3	0
METHODS: EPA 600/4-79-02		418.1	325.3

Chemist

1/9/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88240
FAX TO:

Receiving Date: 06/11/97
Reporting Date: 06/12/97
Project Number: NOT GIVEN
Project Name: RODRIQUEZ WATER WELL
Project Location: 2012 WAYLON DR.

Sampling Date: 06/11/97
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	TPH (mg/L)	Cl (mg/L)
ANALYSIS DATE:		6/11/97	6/11/97
H2987-1	#1 WATER WELL	<10	260
Quality Control		204	500
True Value QC		200	500
% Recovery		102	100
Relative Percent Difference		0.3	0

METHODS: EPA 600/4-79-02	418.1	325.3

Chemist

06/12/97
Date

H2987.XLS

Price, Wayne

From: Price, Wayne
Sent: Wednesday, February 11, 1998 2:18 PM
To: Roger Anderson; Carroll, Rand
Cc: Chris Williams; Bill Olson
Subject: Law firm inquiry concerning Groundwater contamination

Dear Roger,

Please note I am dropping in the US Mail today a copy of a letter and my response to a law firm making an inquiry concerning an old Texaco Pit and groundwater contamination out in the East Hobbs Pool Water Study Area.

This area is located just east of Hobbs, NM and adjacent to the NM-Texas State line.

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5950

Jennifer A. Salisbury
CABINET SECRETARY

February 11, 1998

Bill Robins III
Gallagher, Lewis & Downey
NationsBank Center 40th Floor
700 Louisiana
Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec 30-T18s-R39e

Dear Mr. Robins III:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated January 29, 1998 concerning groundwater and oilfield contamination at and/or near the above referenced site.

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If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Rand Carroll-NMOCD Legal Counsel
File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY
ATTORNEYS AT LAW

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NationsBank Center
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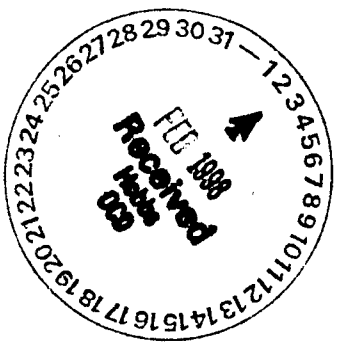
Houston, Texas 77002
Telephone 713/222-8080
Telecopy 713/222-0066



Bill Robins III
Board Certified-Personal Injury Trial Law
Texas Board of Legal Specialization

Direct Line 713/238-7880

January 29, 1998

Mr. Wayne Price
Environmental
State of New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

Re: D.F. Fergason Oil Battery located in Unit H, Sect. 30, T. 18, R. 39 E.

Dear Mr. Price:

Our law firm represents J.C. Turner and his wife, Donna Turner, as well as Idolina Rodriguez. Mr. and Mrs. Turner own a property located at 4601 East Seminole Highway, Hobbs, New Mexico 88240. Mr. and Mrs. Turner have been living at this address since 1987. During the last approximately ten years, Mr. Turner has been attempting to grow crops on his land. However, on an approximately five acre portion of his property, Mr. Turner was unable to successfully grow any crops or vegetation, despite extensive efforts at discing, tilling, plowing, and also, by adding many kinds of fertilizer. In fact, despite his efforts, the land appeared to be sterile.

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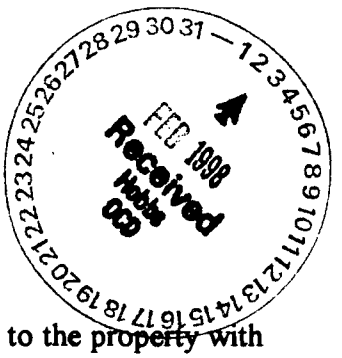

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The purpose of this letter is to request that your department take whatever action is necessary to compel Texaco, Arco, and any and all other responsible parties to clean up the environmental damage that has taken place on Mr. Turner's property and which is impacting the health, safety, and welfare of the Turners and their neighbor, Ms. Rodriguez. We would certainly appreciate any cooperation that you could provide to us in this regard.

We look forward to working with you. If you have any questions, or need any additional information, please do not hesitate to contact me.

Very truly yours,

Bill Robins III

BRR:vjw
126916/97-26444

cc: Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

Ms. Idolina Rodriguez
c/o Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

Texaco North America Production
Permian Business Unit

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

July 16, 1998

Wayne

Mr. Chris Williams, District I Supervisor
NMOCD
Post Office Box 1980
Hobbs, New Mexico 88241

RE: D. F. Fergason Lease
NE/4 Sec. 30, T-18-S, R-39-E

Dear Mr. Williams:

In my letter to you dated July 7, 1998, I stated "that according to our information, we sold the lease in August, 1969, and Texaco did not close the pit(s). It is our understanding that it was closed by the current landowner."

Recently obtained aerial photographs (copies attached), show that there was evidence of a pit on Mr. Turner's property in the 1967 survey. In the 1971 survey, it appears that the pit(s) have been closed. This was before Mr. Turner acquired the property. We have not been able to locate any information regarding the closure of the pit(s), but we are continuing with our search.

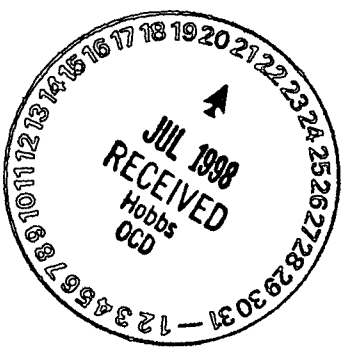
Should you need additional information please advise.

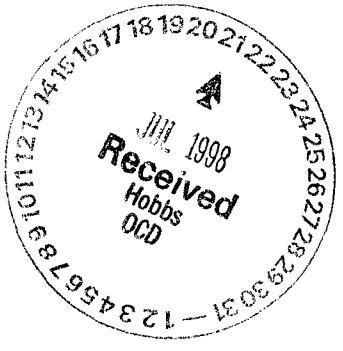
Sincerely yours,

L. R. Hall
Operations Support Manager

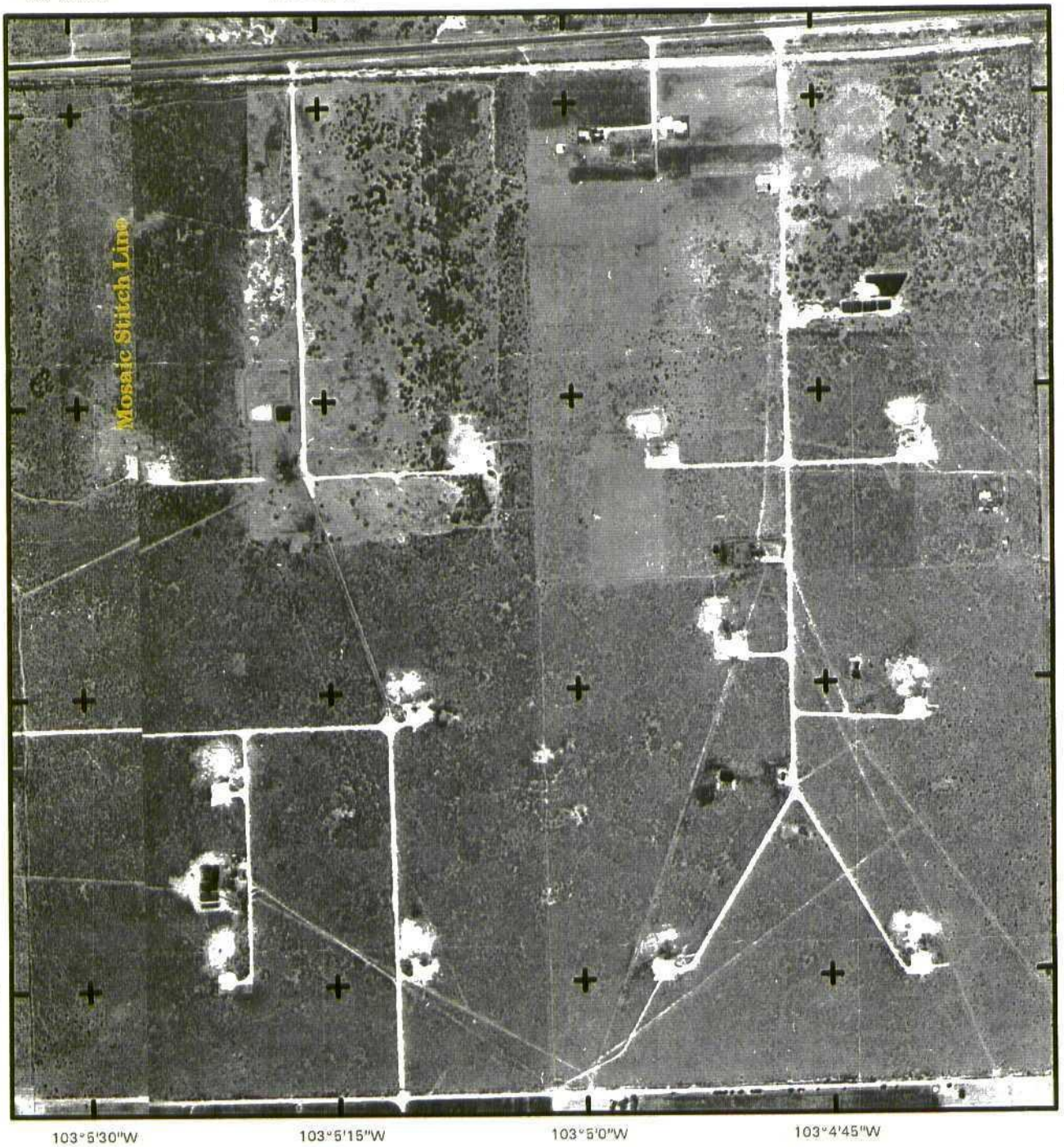
LRH:cfb

Brian West - Houston
Rodney Bailey - Hobbs




JUL 1998
Received
Hobbs
OCD

February 14 & May 12, 1967



Black-and-white photo mosaic

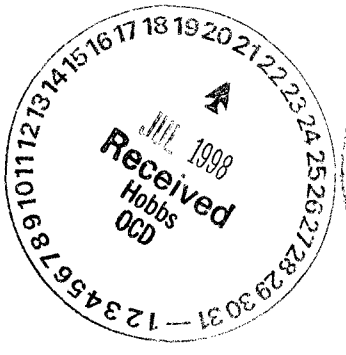
UTM Zone 13
Clarke 1866 Spheroid
NAD 27

1000 0 1000 Feet

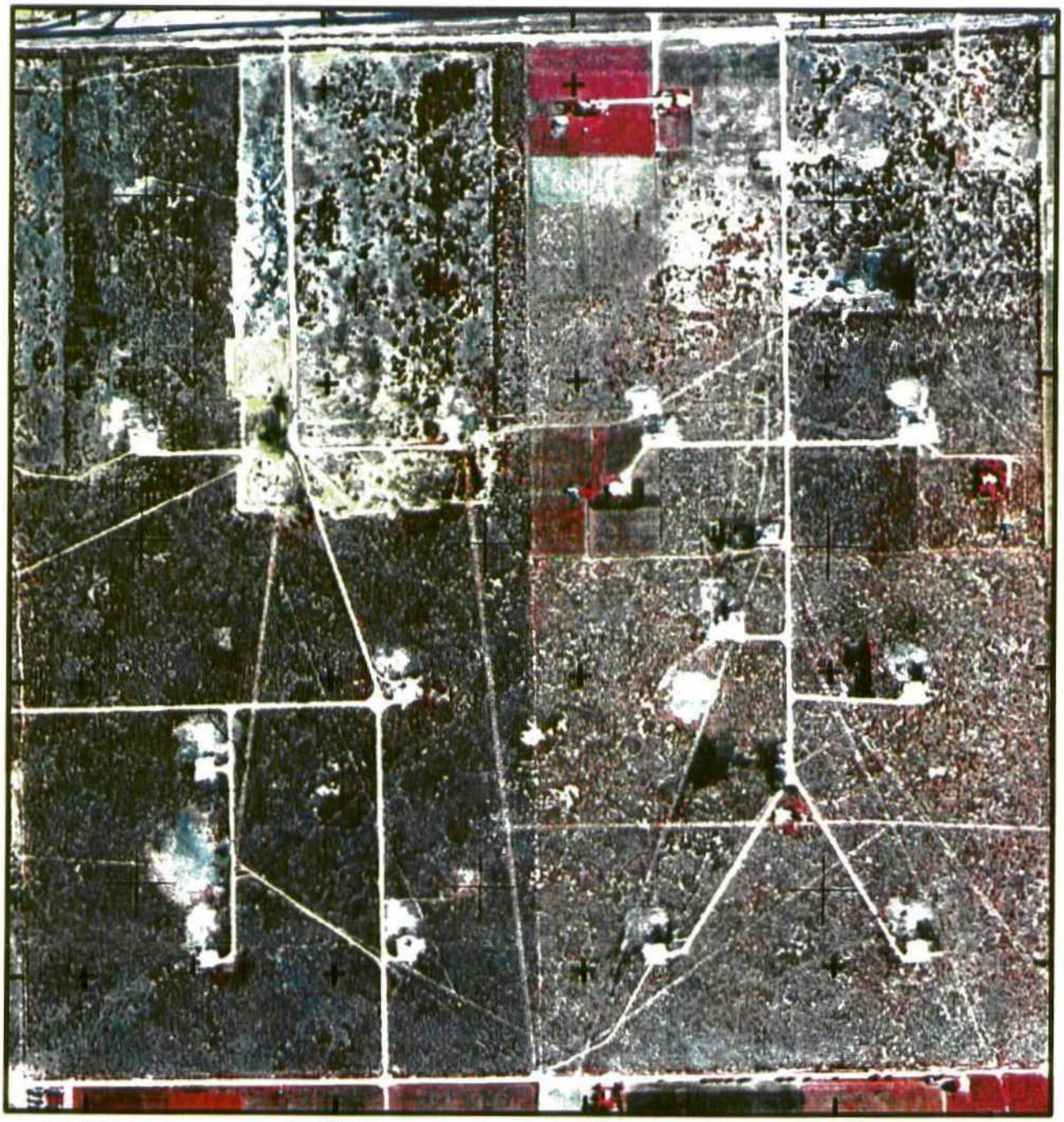
200 0 200 400 Meters

Section 30
Hobbs East Quadrangle

Texaco Remote Sensing Laboratory


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
JUL 1998
Received
Hobbs
OCD

July 9, 1971



Color Infrared Photograph

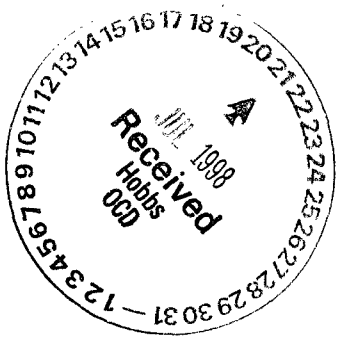
1000 0 1000 Feet

200 0 400 Meters

Section 30
Hobbs East Quadrangle

UTM Zone 13
Clarke 1866 Spheroid
NAD 27

Texaco Remote Sensing Laboratory


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
JUL 1998
Received
Hobbs
OCD

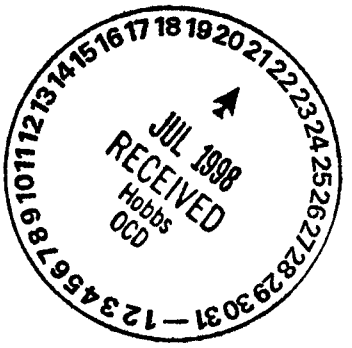
Texaco North America Production
Permian Business Unit

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

July 7, 1998

Mr. Chris Williams, District I Supervisor
New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241



RE: D. F. Fergason Lease
NE/4 Sec. 30, T-18-S, R-39-E

Dear Mr. Williams:

I am in receipt of your letter of June 12, 1998, addressed to Mr. Rodney Bailey, in which you requested Texaco to provide pit closure information on an "Old Pit" on property owned by Mr. J. C. Turner.

This is to advise that according to our information, we sold the lease in August, 1969, and Texaco did not close the pit(s). It is our understanding that it was closed by the current landowner.

Should you need additional information, please advise.

Sincerely yours,

L. R. Hall
Operations Support Manager

LRH:cfb

B. S. West – Legal - Houston
R. G. Bailey - Hobbs


Received

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

June 12, 1998

Mr. Rodney Bailey
Texaco E & P
205 E. Bender Blvd.
Hobbs, NM 88240

Re: D.F. Fergason Lease NE/4 SE/4 Sec 30-Ts18s-R39e.

Dear Mr. Bailey:

New Mexico Oil Conservation Division (NMOCD) is making an inquiry into the "Old Pit" area located on the above referenced lease on property owned by Mr. J.C. Turner. Due to the presence of shallow groundwater in the area which is being used as a source of drinking water the NMOCD is requesting that Texaco provide pit closure information so as NMOCD can evaluate if this pit is a present or future threat to public health, groundwater, and/or the environment.

Please provide this information to the NMOCD District I office within 30 days of receipt of this letter.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Chris Williams

Chris Williams-NMOCD District I Supervisor

CW/wp98:texferg

cc: Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Mr. JC Turner-Property Owner

7/16/98 1:25PM
LARRY HALL! TEXACO
(letter of July 7) will amend
sent TO CW to reflect
neg-data drift
+ all photo's
+ DATES!
LP

Price, Wayne

From: Bill Olson
Sent: Friday, June 12, 1998 12:13 PM
To: Price, Wayne
Subject: Read: DF Fergason Lease Old Texaco Pit

Your message

To:	Roger Anderson
Cc:	Chris Williams; Bill Olson
Subject:	DF Fergason Lease Old Texaco Pit
Sent:	6/12/98 11:44:02 AM

was read on 6/12/98 12:13:58 PM

Price, Wayne

From: Roger Anderson
Sent: Monday, June 15, 1998 4:20 PM
To: Price, Wayne
Subject: Read: DF Fergason Lease Old Texaco Pit

Your message

To: Roger Anderson
Cc: Chris Williams; Bill Olson
Subject: DF Fergason Lease Old Texaco Pit
Sent: 6/12/98 11:44:02 AM

was read on 6/15/98 4:20:56 PM

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

June 11, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-288

Mr. Bill Robins III
Gallagher, Lewis & Downey
40th Floor, Nations Bank Center
700 Louisiana
Houston, Texas 77002

RE: FORMER UNLINED PIT AND SPILL AREA
TEXACO FERGASON TANK BATTERY/ARCO PIPELINE SPILL

Dear Mr. Robins:

The New Mexico Oil Conservation Division (OCD) has reviewed Gallagher, Lewis & Downey's January 29, 1998 correspondence which states that the water wells of Mr. J.C. Turner and Ms. Idolina Rodriguez have been sampled and found to be contaminated as a result of a former Texaco unlined pit at the D.F. Fergason Tank Battery and a former Arco Pipeline spill located in Unit H, Sec. 30, T18N, R39E, NMPM, Lea County, New Mexico.

In order to initiate a ground water assessment and to be able to assess potential health impacts from contaminants in these water wells, the OCD requests that you provide a copy of the laboratory analytical data sheets of all water quality samples taken from the Turner and Rodriguez water wells.

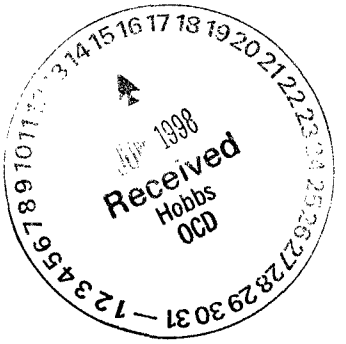
If you have any questions, please call me at (505) 827-7152 or Bill Olson of my staff at (505) 827-7154.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

xc: Wayne Price, OCD Hobbs District Office

c/c: Chris Williams


1998
Received
Hobbs
OCD

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5950

Jennifer A. Salisbury
CABINET SECRETARY

February 11, 1998

Bill Robins III
Gallagher, Lewis & Downey
NationsBank Center 40th Floor
700 Louisiana
Houston, Texas 77002

Re: D.F. Fergason Oil Battery located in Unit H, Sec 30-T18s-R39e

Dear Mr. Robins III:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated January 29, 1998 concerning groundwater and oilfield contamination at and/or near the above referenced site.

Please note groundwater contamination cases are normally handled by the NMOCD Environmental Bureau located at 2040 S. Pacheco, Santa Fe, NM 87505. The NMOCD District I office in Hobbs, NM is forwarding your letter to the NMOCD Environmental Bureau Chief, Mr. Roger Anderson. Mr. Anderson can be contacted by telephone at 505-827-7152.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Rand Carroll-NMOCD Legal Counsel
File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY
ATTORNEYS AT LAW

40th Floor
NationsBank Center
700 Louisiana
Houston, Texas 77002
Telephone 713/222-8080
Telecopy 713/222-0066

Bill Robins III
Board Certified-Personal Injury Trial Law
Texas Board of Legal Specialization

Direct Line 713/238-7880

January 29, 1998

Mr. Wayne Price
Environmental
State of New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

Re: D.F. Fergason Oil Battery located in Unit H, Sect. 30, T. 18, R. 39 E.

Dear Mr. Price:

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We look forward to working with you. If you have any questions, or need any additional information, please do not hesitate to contact me.

Very truly yours,

Bill Robins III

BRR:vjw
126916/97-26444

cc: Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

Ms. Idolina Rodriguez
c/o Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

Price, Wayne

From: Price, Wayne
Sent: Wednesday, February 11, 1998 2:18 PM
To: Roger Anderson; Carroll, Rand
Cc: Chris Williams; Bill Olson
Subject: Law firm inquiry concerning Groundwater contamination

Dear Roger,

Please note I am dropping in the US Mail today a copy of a letter and my response to a law firm making an inquiry concerning an old Texaco Pit and groundwater contamination out in the East Hobbs Pool Water Study Area.

This area is located just east of Hobbs, NM and adjacent to the NM-Texas State line.

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-6950

Jennifer A. Salisbury
CABINET SECRETARY

February 11, 1998

Bill Robins III
Gallagher, Lewis & Downey
NationsBank Center 40th Floor
700 Louisiana
Houston, Texas 77002

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Sincerely Yours,

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Rand Carroll-NMOCD Legal Counsel
File- East Hobbs Pool Water Study

GALLAGHER, LEWIS & DOWNEY
ATTORNEYS AT LAW

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Houston, Texas 77002
Telephone 713/222-8080
Telecopy 713/222-0066

Bill Robins III
Board Certified-Personal Injury Trial Law
Texas Board of Legal Specialization

Direct Line 713/238-7880

January 29, 1998

Mr. Wayne Price
Environmental
State of New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

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Very truly yours,

Bill Robins III

BRR:vjw
126916/97-26444

cc: Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

Ms. Idolina Rodriguez
c/o Mr. and Mrs. J.C. Turner
4601 East Seminole Highway
Hobbs, New Mexico 88240

GARY WINK

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

* 1:30 PM

Name WAYNE PRICE Date 10/14/97 Miles _____ District I

Time of Departure 7 AM Time of Return 4 PM Car No. G 0472

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS

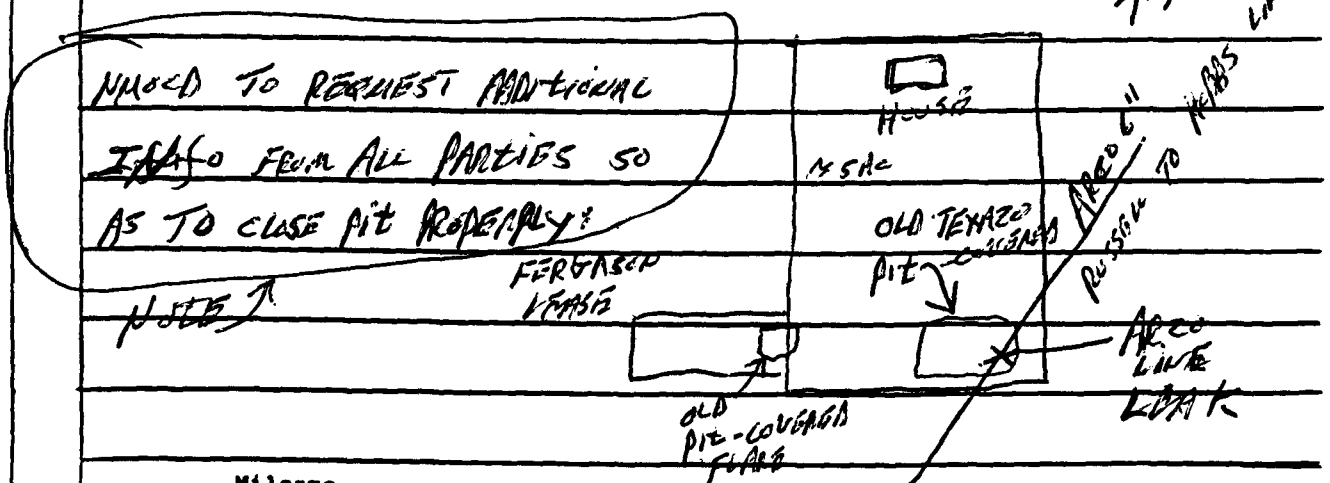
In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [signature]

RE: ARCO P.L. LEAK - TURNER PROPERTY
SEMINOLE HWY NEAR ST LINE
OLD DEFERGASON LEASE NE/4 SE/4 30-18-39
LEA CO. N.M.

MET: ARCO PL - HASSAN AHMADHAND
TEXACO - ROB BAILEY
ED SEAY - CONSULTANT FOR LANDOWNER

NEED TO REQUEST ADDITIONAL
INFO FROM ALL PARTIES SO
AS TO CLOSE PIT PROPERLY!



Mileage		Per Diem		Hours	
UIC		UIC		UIC	
RFA		RFA		RFA	
Other		Other		Other	

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
R = Inspections relating to Reclamation Fund Activity
O = Other - Inspections not related to injection or The Reclamation Fund
E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meeting
O = Other

12/19/96
cc: J SEXTON
G WINK
P. ANDERSON
JC TURNER

MILEAGE
UIC: _____
OTHER: _____

OIL CONSERVATION DIVISION
COMPLAINT FORM

PERSON COMPLAINING:

NAME: JC TURNER JR.

ADDRESS: 9601 E. SEMINOLE
HOBBS NM 88240

PHONE: 393-1681

INFORMATION TAKEN BY:

TAKEN BY: WAYNE PRICE

DATE: 12/19/96 TIME: 2:30 pm

IN PERSON: YES BY PHONE: _____

COMPLAINT: OLD BS&W PIT LEFT ON PROPERTY AND WATER WELL IS CONTAMINATED, PIT AREA STILL CONTAMINATED,

COMMENTS: IS EFFECTING FAMILY'S HEALTH, FATHER DIED OF CANCER, WIFE HAS JUST RECENTLY (6 YR) DIAGNOSED WITH CANCER.

- INVESTIGATION -

INVESTIGATOR: _____

DATE: _____

TIME: _____

DESCRIBE INVESTIGATION AND FINDINGS: _____

- FOLLOW-UP -

DATE: _____

TIME: _____

ACTION TAKEN: _____

*ATTACH ADDITIONAL SHEETS, IF NECESSARY

cc: J Sexton
G Wink
P. Atkinson
JC Turner

MILEAGE
UIC:
OTHER:

OIL CONSERVATION DIVISION
COMPLAINT FORM

PERSON COMPLAINING:

NAME: JC TURNER JR.
ADDRESS: 4601 E. SEMINOLE
HOBBS NM 88240

PHONE: 393-1681

INFORMATION TAKEN BY:

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DATE: 12/19/96 TIME: 2:30 pm
IN PERSON: YES BY PHONE:

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COMMENTS: IS EFFECTING FAMILY'S HEALTH, FATHER DIED OF CANCER, WIFE HAS JUST RECENTLY (6 YR) DIALYSIS WITH CANCER.

- INVESTIGATION -

INVESTIGATOR:
DATE:
TIME:
DESCRIBE INVESTIGATION AND FINDINGS:

- FOLLOW-UP -

DATE:
TIME:
ACTION TAKEN:

*ATTACH ADDITIONAL SHEETS, IF NECESSARY