

AP - 25

STAGE 1 & 2 REPORTS

DATE:

Dec. 13, 2000

P.O. Box 1980, Hobbs, NM

District II

2. Drawer DD, Artesia, NM 88211

strict III

1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Yates Petroleum Corporation **Telephone:** (505) 748-4223

Address: 105 South Fourth Street, Artesia, NM 88210

Facility Or: Scripp Unlined Surface Impoundment (pit)
Well Name _____

Location: Unit or Qtr/Qtr Sec NE $\frac{1}{4}$, NW $\frac{1}{4}$ Sec 25 T 18S R 26E County Eddy

Pit Type: Separator _____ Dehydrator _____ Other _____ Production Disposal Pit _____

Land Type: BLM , State , Fee X, Other

Pit Location: Pit dimensions: length 90', width 65', depth 10'
(Attach diagram)

Reference: wellhead , other Stock tanks at the battery

Footage from reference: 27'

Direction from reference: _____ Degrees X East North _____
of
West South _____

Depth To Ground Water:

(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 Points) 20

RECEIVED

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)

DEC 19 2000

Yes (20 points) 0
No (0 points)

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Distance To Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 20

1305 Stockton Rd.
P. O. Box 494
Brownfield, Texas 79316

1-800-765-3478
Office: 806/637-8033
Fax: 806/637-6926

BIOREMEDIATION CONTRACTORS & CONSULTANTS



Land Reclamation



Weed Control

February 28, 2000

State of New Mexico
Energy And Minerals Department
Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

RECEIVED

DEC 19 2000

ENVIRONMENTAL
OIL CONSERVATION DIVISION

RE: Final Closure of Unlined Surface Impoundments - Eddy County, New Mexico

Closure Report:

Locations:

Yates Petroleum Corporation
Inex Battery Pit
Sec. 26 - T18S - R26E
Eddy County, New Mexico

Yates Petroleum Corporation
Lattion Battery Pit
Sec. 28 - T18S - R26E
Eddy County, New Mexico

Yates Petroleum Corporation
Scripp Battery Pit
Sec. 25 - T18S - R26E
Eddy County, New Mexico

Yates Petroleum Corporation
Williams Battery Pit
Sec. 25 - T18S - R26E
Eddy County, New Mexico

Since satisfying the criteria for final closure, remedial actions have been completed on the above mentioned unlined surface impoundments. The attached soil analysis of these four sites demonstrate the soil remediation levels have been met. Upon approval from the OCD, final closure will begin by backfilling these four sites, contouring them as to provide drainage away from the sites.

For any questions or concerns regarding this matter, please contact Paul Porter at 1-800-765-3478.

Sincerely,

Paul Porter
Vice President

1305 Stockton Rd.
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Brownfield, Texas 79316

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Office: 806/637-8033
Fax: 806/637-6926

BIOREMEDIATION CONTRACTORS & CONSULTANTS



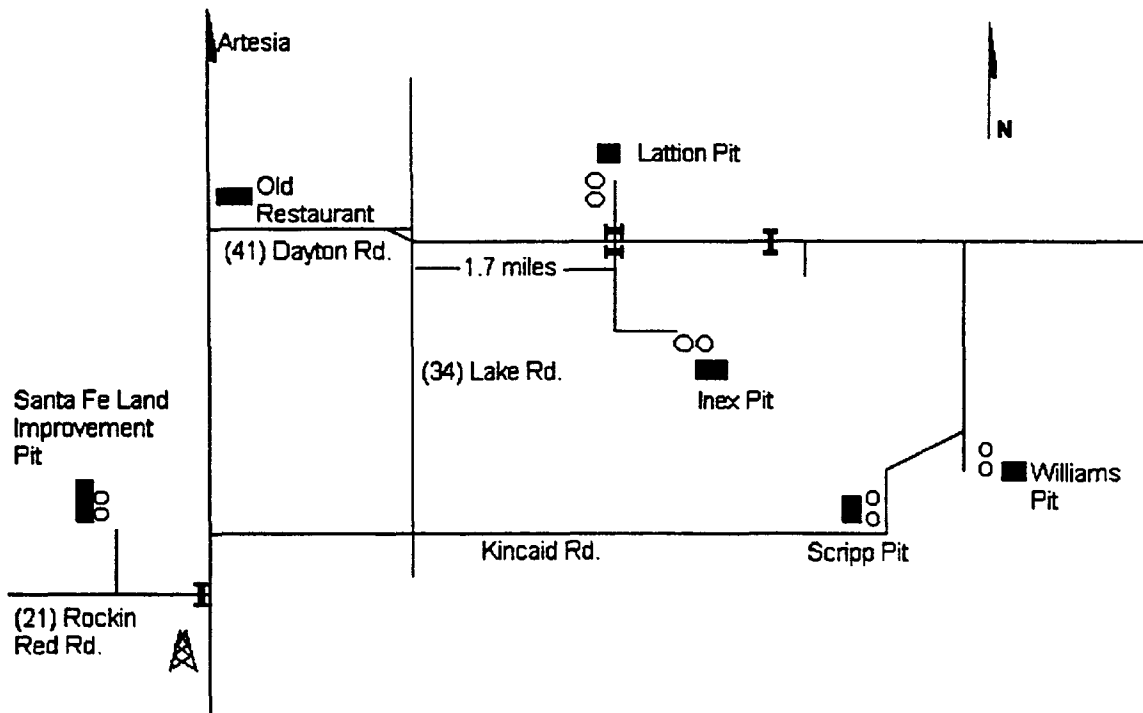
Land Reclamation



Weed Control

Yates Petroleum Corporation
Unlined Surface Impoundment Closures
(Pit Closures)
on old H & S Battery Sites

1999



YATES PETROLEUM CORPORATION

1305 Stockton Rd.
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Brownfield, Texas 79316

1-800-765-3478
Office: 806/637-8033
Fax: 806/637-8928

BIOREMEDIATION CONTRACTORS & CONSULTANTS



Land Reclamation



Weed Control

May 20, 1998

Mr. Darrell Atkins
YATES PETROLEUM CORPORATION
105 South 4th Street
Artesia, New Mexico 88210

RE: Pit Closures On Old H & S Battery Sites

Dear Darrell,

The following is the costs and procedure for complete pit closures on the old H & S battery sites. I have made the necessary site assessments and rankings required by the OCD. The total cost includes all monitoring, documentation and soil sampling that will be required in order to be in complete compliance with the OCD.

If you have any further questions, please call me at 1 800 765 - 3478. Thank you for the opportunity to price this project.

Sincerely,

A handwritten signature in cursive script that reads "Paul Porter".

Paul Porter
Vice President

1305 Stockton Rd.
P. O. Box 494
Weld, Texas 79316

1-800-785-3478
Office: 806/637-803
Fax: 806/637-6928

BIOREMEDIATION CONTRACTORS & CONSULTANTS



**** LAND RECLAMATION PROPOSAL ****
YATES PETROLEUM CORPORATION
PIT CLOSURES

Procedure:

After excess fluids have been vacuumed off pit areas, BCC, Inc. would begin work with the clearing of bird netting and debris from each pit. Backhoe work would then begin in order to make pits accessible for treatment procedures. Affected areas would be deep ripped and power tilled to prepare the soil for treatment. BCC SOP 3 microbial solution would be spray applied over the sites and nutrients added to promote the hydrocarbon degradation process. Sufficient watering will be maintained throughout the project as well as periodic tilling to promote degradation. Once degradation has occurred (TPH levels at 5000 ppm or less - BTEX levels at 50 ppm or less), pit areas would be layered with 10 inches of manure, backfilled, layered with 10 more inches of manure and tanded smooth.

Cost:

Inex Pit	(based on 250 cubic yards)	\$5,354.98
Lattion Pit	(based on 196 cubic yards)	\$4,217.48
Williams Pit	(based on 196 cubic yards)	\$4,217.48
Scripp Pit	(based on 299 cubic yards)	\$6,378.98
Santa Fe Land	(based on 311 cubic yards)	\$6,622.93
Improvement Pit		
Total Project: (5 pits - complete site closures)		\$26,791.85
(plus any applicable taxes)		

Note: This proposal is for treating hydrocarbon damage only. If affected area needs treatment for produced water damage, additional costs would be incurred.

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BIOREMEDIATION CONTRACTORS & CONSULTANTS



Land Reclamation



Weed Control

**** LAND RECLAMATION PROPOSAL ****
YATES PETROLEUM CORPORATION
PIT CLOSURES

Cost Breakdown: (5 pits - complete site closures)

Materials -

11.5 drums BCC SOP 3 @ \$1,031.25/drum	\$11,859.38
635 lbs. Nutrients @ \$4.00/lb.	\$ 2,540.00
Water	\$ 250.00

Total Materials..... \$14,649.38

Labor & Equipment -

Backhoe / Dump Trucks for Hauling Manure / Operators	\$6,492.47
Application Truck / Equipment / Personnel	\$2,250.00
Tractor & Equipment / Personnel	\$1,400.00

Total Labor & Equipment..... \$10,142.47

Soil Sampling / Monitoring / Documentation..... \$ 2,000.00

Total Project: (5 pits).....\$26,791.85
(plus any applicable taxes)

Groundwater

190' H.

Williams Battery

SE / NW

Sec. 25 - T18S - R26E

Eddy Co., NM

Scripps Battery

SW / SW

Sec. 25 - T18S - R26E

Eddy Co., NM

Inex Battery

NW / NE

Sec. 26 - T18S - R26E

Eddy Co., NM

Lutton Battery

SW / SE

Sec. 23 - T18S - R26E

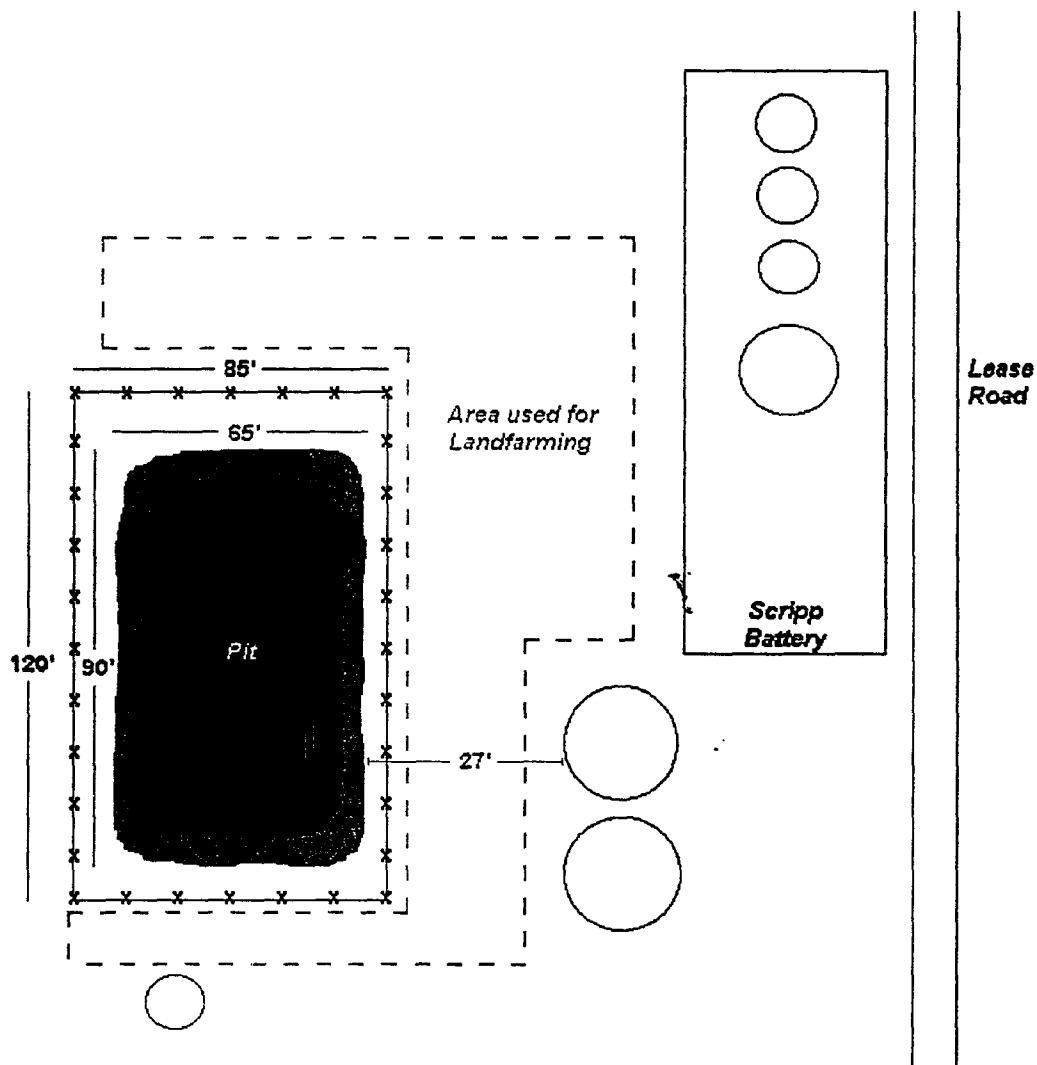
Eddy Co., NM

Yates Petroleum Corporation

Scripp Battery Pit

Sec. 25 - T18S - R26E
Eddy County, New Mexico

Yates Petroleum Corporation
Scripp Battery Pit
Unlined Surface Impoundment
Affected Surface Area - 5,850 sq. ft. / .13 acre



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BIOREMEDIATION CONTRACTORS & CONSULTANTS



INVOICE TO:

YATES PETROLEUM CORPORATION
105 South 4th Street
Artesia, New Mexico 88210

INVOICE #: 10218B
DATE: 5/20/99

LOCATION:

Scripp Pit

CNTY/STATE: Eddy Co., NM

AUTHORIZED BY:

Darrell Atkins/Ron Beasley

JOB DATE:

5/19/99

DESCRIPTION

QUANTITY

UNIT PRICE

AMOUNT

Phase I
Excavated Pit for Land Farming,
Ripped, Power Tilled, Treated
and Watered to Promote
Hydrocarbon Degradation

1.5 Drums BCC SOP 3	1.5	\$1,031.25	\$1,546.88
83 Lbs. Nutrients	83	\$4.00	\$332.00
1 Water	1	\$10.00	\$10.00
1 Backhoe/Equipment/Operators	1	\$598.77	\$598.77
3 Hours Application Truck/Equipment/Operator	3	\$50.00	\$150.00
5 Hours Tractor/Equipment/Operators	5	\$35.00	\$175.00
Subtotal			\$2,812.65
NM Gross Receipts Tax (5.625%)			\$158.21
			\$2,970.86

INVOICE TOTAL: (NET 30)

\$2,970.86

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BIOREMEDIATION CONTRACTORS & CONSULTANTS



Land Reclamation

Weed Control

INVOICE TO:

YATES PETROLEUM CORPORATION INVOICE #:
105 South 4th Street
Artesia, New Mexico 88210

11352B
DATE: 3/31/00

LOCATION:

Scripp Pit

CNTY/STATE: Eddy, NM

AUTHORIZED BY:

Darrell Atkins/Ron Beasley

JOB DATE:

3/31/00

DESCRIPTION

QUANTITY

UNIT PRICE

AMOUNT

Phase II

**Treated & watered to prepare Pit for Close Out.
Samples, Backfilled, Layered with Manure and Closed Pit**

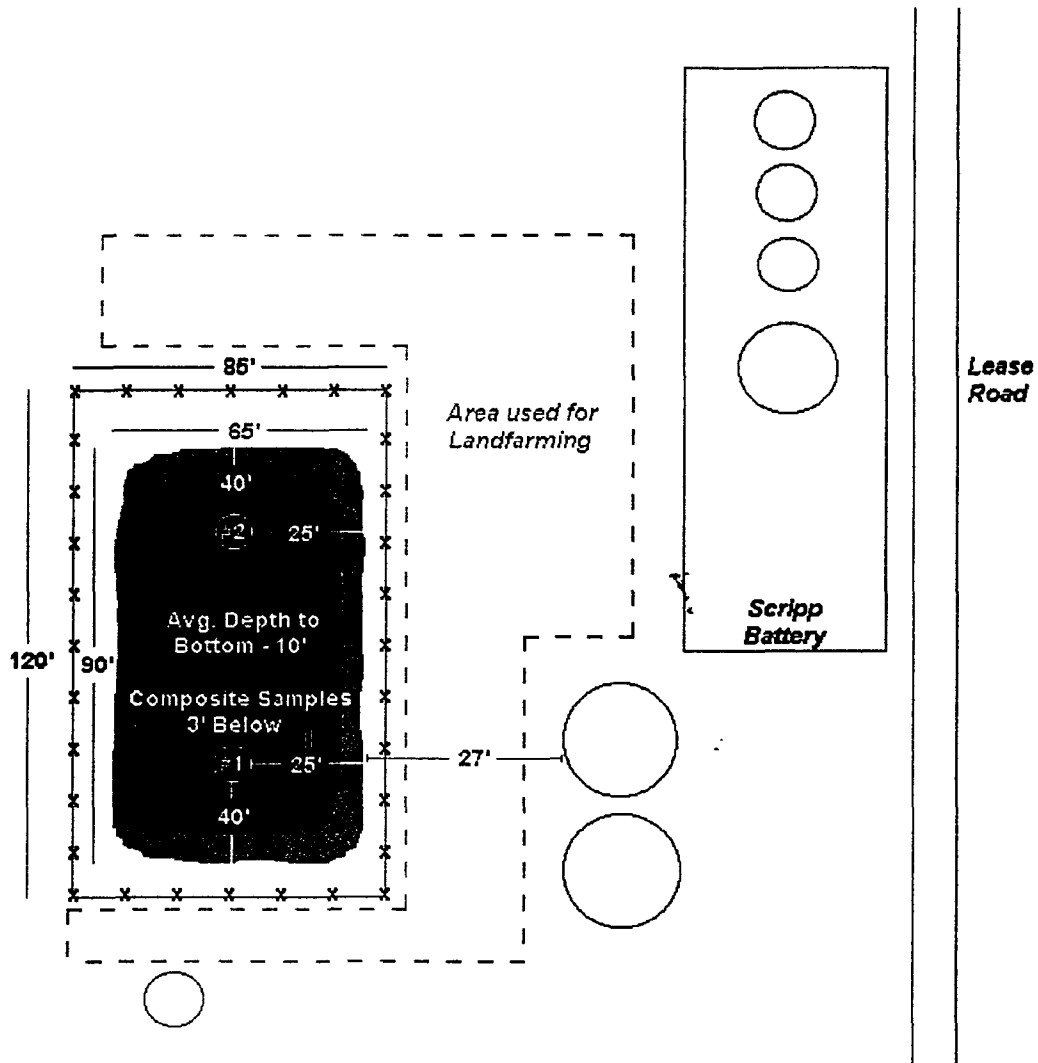
1.5 Drums	BCC SOP 3	1.5	\$1,031.25	\$1,546.88
83 Lbs.	Nutrients	83	\$4.00	\$332.00
1	Water			\$40.00
1	Backhoe/Equipment/Operators			\$757.45
7 Hours	Application Truck/Equipment/Operator	7	\$50.00	\$350.00
4 Hours	Tractor/Equipment/Operators	4	\$35.00	\$140.00
1 Soil	Sampling/Documentation			<u>\$400.00</u>
Subtotal				\$3,566.33
NM Gross Receipts Tax (5.625%)				<u>\$200.61</u>
				\$3,766.94

INVOICE TOTAL:

(NET 30)

\$3,766.94

Yates Petroleum Corporation
Scripp Battery Pit
Unlined Surface Impoundment
Affected Surface Area - 5,850 sq. ft. / .13 acre



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424
El Paso, Texas 79922

800•378•1296
888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Paul Porter
BCC, Inc.
P. O. Box 494
Brownfield, TX 79316

Report Date: 9/29/99

Project Number: N/
Project Name: Yates Petroleum
Project Location: Scripp Pit

Order ID Number: 99092314

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
132208	Sample #1	Soil	9/22/99	12:10	9/23/99
132209	Sample #2	Soil	9/22/99	12:15	9/23/99
132210	Sample #3	Soil	9/22/99	12:20	9/23/99

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 6 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: 132208
Description: Sample #1

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Benzene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Toluene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Ethylbenzene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
M.P.O-Xylene (mg/Kg)		0.099	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Total BTEX (mg/Kg)		<u>0.099</u>	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001

Surrogate	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
TFT (mg/Kg)	5.01	50	0.1	100	72 - 128	RC	PB02443	QC03075
4-BFB (mg/Kg)	5.01	50	0.1	100	72 - 128	RC	PB02443	QC03075

TRPHC (mg/Kg) * 25400 1 E 418.1 9/28/99 9/29/99 MF PB02486 QC03130 10

* TRPHC - Used LCS/LCSD for %EA and %RPD due to matrix interference in the spiked sample.

C6-C10 (mg/Kg)		<1000	20	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50
>C10-C28 (mg/Kg)	*	7640	20	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50
C6-C28 (mg/Kg)	*	<u>7640</u>	20	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50

* >C10-C28 - Hydrocarbons >C28 present.

* C6-C28 - Hydrocarbons >C28 present.

Sample Number: 132209
Description: Sample #2

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Benzene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Toluene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Ethylbenzene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
M.P.O-Xylene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Total BTEX (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001

Surrogate	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
TFT (mg/Kg)	5.16	50	0.1	103	72 - 128	RC	PB02443	QC03075
4-BFB (mg/Kg)	5.08	50	0.1	102	72 - 128	RC	PB02443	QC03075

C6-C10 (mg/Kg)		<500	10	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50
>C10-C28 (mg/Kg)	*	17400	10	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50
C6-C28 (mg/Kg)	*	<u>17400</u>	10	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50

* >C10-C28 - Hydrocarbons >C28 present.

* C6-C28 - Hydrocarbons >C28 present.

Sample Number: 132210
Description: Sample #3

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Benzene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Toluene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Ethylbenzene (mg/Kg)		<0.05	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001

Report Date: 9/29/99

Order ID Number: 99092314

Page Number: 3 of 6

N/

Yates Petroleum

Scripp Pit

M,P,O-Xylene (mg/Kg)	0.256	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001
Total BTEX (mg/Kg)	0.256	50	S 8021B	9/23/99	9/23/99	RC	PB02443	QC03075	0.001

Surrogate	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
TFT (mg/Kg)	5.14	50	0.1	103	72 - 128	RC	PB02443	QC03075	
4-BFB (mg/Kg)	5.18	50	0.1	104	72 - 128	RC	PB02443	QC03075	

C6-C10 (mg/Kg)		<1000	20	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50
>C10-C28 (mg/Kg)	*	32400	20	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50
C6-C28 (mg/Kg)	*	32400	20	TX1005	9/23/99	9/23/99	MF	PB02435	QC03067	50

* >C10-C28 - Hydrocarbons >C28 present.

* C6-C28 - Hydrocarbons >C28 present.

Quality Control Report Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Benzene (mg/Kg)		<0.050	0.001	9/23/99	PB02443	QC03075
Toluene (mg/Kg)		<0.050	0.001	9/23/99	PB02443	QC03075
Ethylbenzene (mg/Kg)		<0.050	0.001	9/23/99	PB02443	QC03075
M,P,O-Xylene (mg/Kg)		<0.050	0.001	9/23/99	PB02443	QC03075
Total BTEX (mg/Kg)		<0.050	0.001	9/23/99	PB02443	QC03075
Surrogate		Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
TFT (mg/Kg)		5.16	0.1	103	72 - 128	QC03075
4-BFB (mg/Kg)		5.03	0.1	101	72 - 128	QC03075

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TRPHC (mg/Kg)		<10.0	10	9/29/99	PB02486	QC03130

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
C6-C10 (mg/Kg)		<50	50	9/23/99	PB02435	QC03067
>C10-C28 (mg/Kg)		<50	50	9/23/99	PB02435	QC03067
C6-C28 (mg/Kg)		<50	50	9/23/99	PB02435	QC03067

Quality Control Report

Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike	Matrix	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
				Amount Added	Spike Result					
MS	C6-C10 (mg/Kg)	<50	1	250	251	100		70 - 130	0 - 30	QC03067
MS	>C10-C28 (mg/Kg)	<50	1	250	240	96		70 - 130	0 - 30	QC03067
MS	C6-C28 (mg/Kg)	<50	1	500	491	98		70 - 130	0 - 30	QC03067
MSD	C6-C10 (mg/Kg)	<50	1	250	253	101	1	70 - 130	0 - 30	QC03067
MSD	>C10-C28 (mg/Kg)	<50	1	250	249	100	4	70 - 130	0 - 30	QC03067
MSD	C6-C28 (mg/Kg)	<50	1	500	502	100	2	70 - 130	0 - 30	QC03067

Standard	Param	Sample Result	Dil.	Spike	Matrix	% Rec.	RPD	% Rec. Limit	RPD	QC
				Amount Added	Spike Result					
MS	Benzene (mg/Kg)	<0.05	50	0.1	4.93	99		80 - 120	0 - 20	QC03075
MS	Toluene (mg/Kg)	<0.05	50	0.1	4.76	95		80 - 120	0 - 20	QC03075
MS	Ethylbenzene (mg/Kg)	<0.05	50	0.1	4.7	94		80 - 120	0 - 20	QC03075
MS	M,P,O-Xylene (mg/Kg)	<0.05	50	0.3	13.7	87		80 - 120	0 - 20	QC03075
Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.		% Rec. Limit	Prep Batch #	QC Batch #
MS	TFT (mg/Kg)	4.39	50	0.1	RC	88		72 - 128	PB02443	QC03075
MS	4-BFB (mg/Kg)	4.65	50	0.1	RC	89		72 - 128	PB02443	QC03075
MSD	Benzene (mg/Kg)	<0.05	50	0.1	4.92	98	0	80 - 120	0 - 20	QC03075
MSD	Toluene (mg/Kg)	<0.05	50	0.1	4.99	100	5	80 - 120	0 - 20	QC03075
MSD	Ethylbenzene (mg/Kg)	<0.05	50	0.1	4.73	95	1	80 - 120	0 - 20	QC03075
MSD	M,P,O-Xylene (mg/Kg)	<0.05	50	0.3	14.4	96	5	80 - 120	0 - 20	QC03075
Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.		% Rec. Limit	Prep Batch #	QC Batch #
MSD	TFT (mg/Kg)	4.59	50	0.1	RC	88		72 - 128	PB02443	QC03075
MSD	4-BFB (mg/Kg)	4.68	50	0.1	RC	94		72 - 128	PB02443	QC03075

Standard	Param		Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	TRPHC (mg/Kg)	*	25400	1	250	25,400	-480		70 - 130	0 - 20	QC03130
* TRPHC - Unacceptable % Recovery due to high TRPHC concentration in sample.						LCS/LCSD show analysis in control.					
MSD	TRPHC (mg/Kg)	*	25400	1	250	25,400	-960	-67	70 - 130	0 - 20	QC03130
* TRPHC - Unacceptable % Recovery due to high TRPHC concentration in sample.						LCS/LCSD show analysis in control.					

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 MTBE (mg/Kg)	<0.050	50	0.1	4.7	94		80 - 120	0 - 20	QC03075
LCS Benzene (mg/Kg)	<0.050	50	0.1	4.6	92		80 - 120	0 - 20	QC03075
LCS Toluene (mg/Kg)	<0.050	50	0.1	4.48	89		80 - 120	0 - 20	QC03075
LCS Ethylbenzene (mg/Kg)	<0.050	50	0.1	4.4	88		80 - 120	0 - 20	QC03075
LCS M,P,O-Xylene (mg/Kg)	<0.050	50	0.3	12.7	85		80 - 120	0 - 20	QC03075
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS TFT (mg/Kg)		50	0.1	5.01	100		72 - 128		QC03075
LCS 4-BFB (mg/Kg)		50	0.1	4.95	99		72 - 128		QC03075
LCSD MTBE (mg/Kg)	<0.050	50	0.1	4.47	89	5	80 - 120	0 - 20	QC03075
LCSD Benzene (mg/Kg)	<0.050	50	0.1	4.21	84	9	80 - 120	0 - 20	QC03075
LCSD Toluene (mg/Kg)	<0.050	50	0.1	4.12	82	8	80 - 120	0 - 20	QC03075
LCSD Ethylbenzene (mg/Kg)	<0.050	50	0.1	4.03	81	9	80 - 120	0 - 20	QC03075
LCSD M,P,O-Xylene (mg/Kg)	<0.050	50	0.3	11.6	77	9	80 - 120	0 - 20	QC03075
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCSD TFT (mg/Kg)		50	0.1	4.91	98		72 - 128		QC03075
LCSD 4-BFB (mg/Kg)		50	0.1	4.9	98		72 - 128		QC03075

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS TRPHC (mg/Kg)	<10.0	1	250	246	98		70 - 130	0 - 20	QC03130
LCSD TRPHC (mg/Kg)	<10.0	1	250	259	104	5	70 - 130	0 - 20	QC03130

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS C6-C10 (mg/Kg)	<50	1	250	223	89		70 - 130	0 - 30	QC03067
LCS >C10-C28 (mg/Kg)	<50	1	250	220	88		70 - 130	0 - 30	QC03067
LCS C6-C28 (mg/Kg)	<50	1	500	443	89		70 - 130	0 - 30	QC03067
LCSD C6-C10 (mg/Kg)	<50	1	250	200	80	27	70 - 130	0 - 30	QC03067
LCSD >C10-C28 (mg/Kg)	<50	1	250	199	80	23	70 - 130	0 - 30	QC03067
LCSD C6-C28 (mg/Kg)	<50	1	500	398	80	25	70 - 130	0 - 30	QC03067

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	Benzene (mg/Kg)		0.1	0.092	92	80 - 120	9/23/99	QC03075
ICV	Toluene (mg/Kg)		0.1	0.09	90	80 - 120	9/23/99	QC03075
ICV	Ethylbenzene (mg/Kg)		0.1	0.089	89	80 - 120	9/23/99	QC03075
ICV	M,P,O-Xylene (mg/Kg)		0.3	0.258	86	80 - 120	9/23/99	QC03075
CCV (1	Benzene (mg/Kg)		0.1	0.098	98	80 - 120	9/23/99	QC03075
CCV (1	Toluene (mg/Kg)		0.1	0.099	99	80 - 120	9/23/99	QC03075
CCV (1	Ethylbenzene (mg/Kg)		0.1	0.099	99	80 - 120	9/23/99	QC03075
CCV (1	M,P,O-Xylene (mg/Kg)		0.3	0.278	93	80 - 120	9/23/99	QC03075

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TRPHC (mg/Kg)		100	104	104	70 - 130	9/29/99	QC03130
CCV (1	TRPHC (mg/Kg)		100	102	102	70 - 130	9/29/99	QC03130

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	C6-C10 (mg/Kg)		250	232	93	70 - 130	9/23/99	QC03067
ICV	>C10-C28 (mg/Kg)		250	244	98	70 - 130	9/23/99	QC03067
ICV	C6-C28 (mg/Kg)		500	476	95	70 - 130	9/23/99	QC03067
CCV (1	C6-C10 (mg/Kg)		250	298	119	70 - 130	9/23/99	QC03067
CCV (1	>C10-C28 (mg/Kg)		250	287	115	70 - 130	9/23/99	QC03067
CCV (1	C6-C28 (mg/Kg)		500	585	117	70 - 130	9/23/99	QC03067
CCV (2	C6-C10 (mg/Kg)		250	294	118	70 - 130	9/23/99	QC03067
CCV (2	>C10-C28 (mg/Kg)		250	309	124	70 - 130	9/23/99	QC03067
CCV (2	C6-C28 (mg/Kg)		500	604	121	70 - 130	9/23/99	QC03067

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Analytical and Quality Control Report

Paul Porter
BCC, Inc.
P. O. Box 494
Brownfield, TX 79316

Report Date: 1/28/00

Project Number: N/
Project Name: Yates Petroleum
Project Location: Scripp Pit

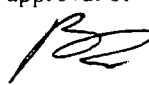
Order ID Number: A00012414

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
139310	Sample #1	Soil	1/11/00	14:30	1/24/00
139311	Sample #2	Soil	1/11/00	14:35	1/24/00
139312	Sample #3	Soil	1/11/00	14:40	1/24/00

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 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Report Date: 1/28/00

Order ID Number: A00012414

Page Number: 2 of 3

N/

Yates Petroleum

Scripp Pit

Analytical Results ReportSample Number: 139310
Description: Sample #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH (mg/Kg)									
TRPHC	113	1	E 418.1	1/25/00	1/26/00	MA	PB00454	QC00589	10

Sample Number: 139311
Description: Sample #2

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH (mg/Kg)									
TRPHC	1110	1	E 418.1	1/25/00	1/26/00	MA	PB00454	QC00589	10

Sample Number: 139312
Description: Sample #3

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TPH (mg/Kg)									
TRPHC	29	1	E 418.1	1/25/00	1/26/00	MA	PB00454	QC00589	10

**Quality Control Report
Method Blanks**

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TRPHC (mg/Kg)		<10.0	10	1/26/00	PB00454	QC00589

**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	TRPHC (mg/Kg)	<10.0	1	250	282	113		70 - 130	0 - 20	QC00589
MSD	TRPHC (mg/Kg)	<10.0	1	250	322	129	13	70 - 130	0 - 20	QC00589

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 TRPHC (mg/Kg)	<10.0	1	250	221	88		70 - 130	0 - 20	QC00589
LCSD TRPHC (mg/Kg)	<10.0	1	250	233	93	5	70 - 130	0 - 20	QC00589

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	TRPHC (mg/Kg)		100	111	111	70 - 130	1/26/00	QC00589
CCV 1	TRPHC (mg/Kg)		100	117	117	70 - 130	1/26/00	QC00589
CCV 2	TRPHC (mg/Kg)		100	111	111	70 - 130	1/26/00	QC00589