

Blow Pit - OK  
Sep - OK

District I  
P.O. Box 1980, Hobbes, NM

District II  
P.O. Drawer DD, Artes, NM 88211

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resource Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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OCT - 7 1999

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APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE  
(Revised 3/9/94)

OIL CON. DIV.  
DIST. 3

**PIT REMEDIATION AND CLOSURE REPORT**

Denial 11/21/96 - BTEX results and LF

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9219  
Address: 200 AMOCO COURT, FARMINGTON, NM 87401  
Facility Or: L.C. KELLY #5  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec NE/SE H Sec 3 T 30 R 12 County SAN JUAN  
Pit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other BLOW DOWN  
Land Type: BLM XX State \_\_\_\_\_ Fee \_\_\_\_\_ Other \_\_\_\_\_

Pit Location: Pit dimensions: Length 50 width 50 depth 6  
(Attach diagram)  
Reference: wellhead X Other \_\_\_\_\_ See Attached  
Footage from reference: 139'  
Direction from reference: 85 Degrees \_\_\_\_\_ 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 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	<u>0</u>
Wellhead Protection Area: (less than 200 feet from a private domestic water source, or, less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points)	<u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Environmental  
Coordinator

Date Remediation Started: 06/17/94 Date Completed: 06/17/94

Remediation Method: Excavation XX Approx. cubic yards 555

Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location: Onsite XX Offsite \_\_\_\_\_  
(ie. landfarmed onsite,  
name and location of  
offsite facility)

General Description of Remediation Action: \_\_\_\_\_

CONTAMINATION WAS REMEDIATED BY DILUTION AND AELIATION.

Ground Water Encountered: No \_\_\_\_\_ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit:

Closure Sampling:  
(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)

Sample location See Attached

Sample depth 6

Sample date 06/17/94 Sample time 10:00:00

Sample Results

Benzene (ppm) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Field headspace (ppm) \_\_\_\_\_

TPH 676

Ground Water Sample: Yes \_\_\_\_\_ No XX (If yes, attach sample results)

I HEREBY CERTIFY THAT INFORMATION ABOVE IS TRUE AND COMPLETE  
TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11-11-95

SIGNATURE

*BS Shaw*

PRINTED NAME  
AND TITLE

*Environmental  
Coordinator*

# FINAL PIT CLOSURE SAMPLING REPORT

OPERATOR: AMOCO PRODUCTION COMPANY

ADDRESS: 200 AMOCO COURT FARMINGTON, NM

WELL NAME

OR FACILITY: L.C. KELLY #5

PIT TYPE: BLOW PIT

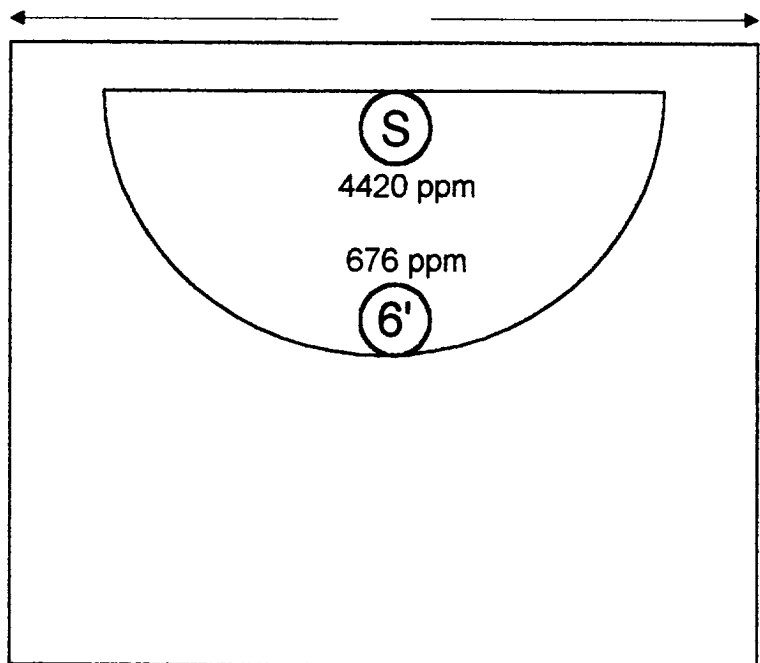
LEGALS: NE/SE SEC.3 T30N R12W

DEPTH

TPH/PPM

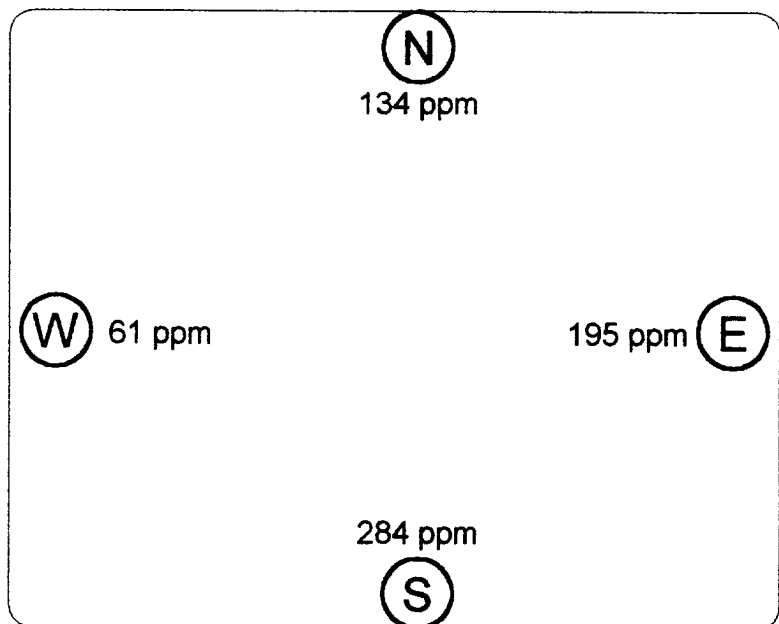
SURFACE	4420
6'	676

SIDE VIEW



TOP VIEW

WALL	DEPTH	TPH
NORTH	6'	134
WEST	6'	61
SOUTH	6'	284
EAST	6'	195



# THE HISTORY OF THE UNITED STATES

OF THE UNITED STATES OF AMERICA

BY HENRY REEVE

IN TWO VOLUMES

LONDON: PUBLISHED BY J. JOHNSON, ST. PAULS CHURCH-YARD, 1755.

1795.

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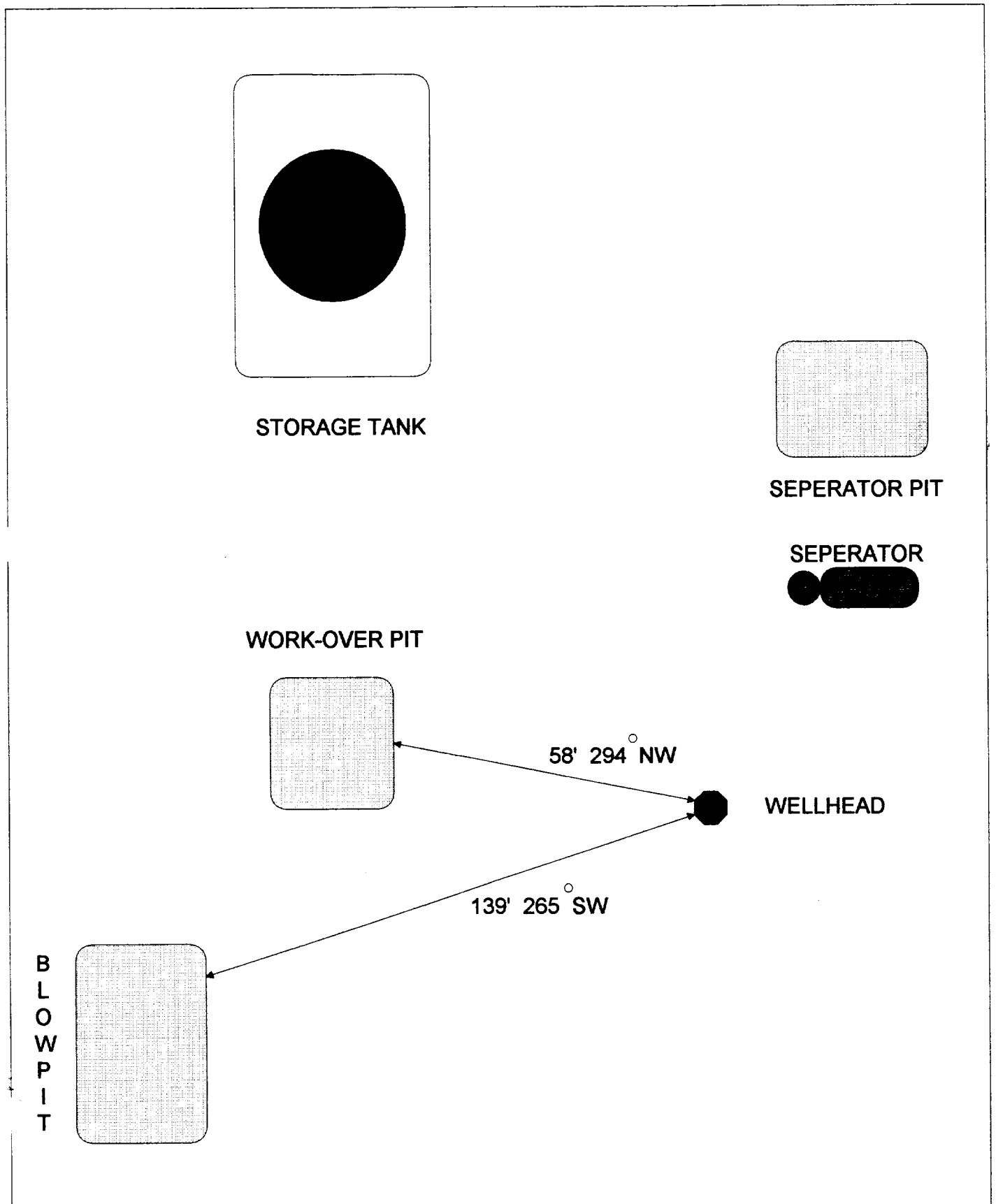
IN TWO VOLUMES

LONDON: PUBLISHED BY J. JOHNSON, ST. PAULS CHURCH-YARD, 1755.

1795.

# AMOCO PRODUCTION COMPANY

## L.C. KELLY #5



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

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: L. C. KELLY #5

Well Name \_\_\_\_\_

Location: Unit or Qtr/Qtr Sec I Sec 3 T 30N R 12W County SAN JUAN

Pit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other Blow

Land Type: BLM X, State \_\_\_\_\_, Fee \_\_\_\_\_, Other \_\_\_\_\_

Pit Location: Pit dimensions: length 80', width 18', depth 17'  
(Attach diagram)

Reference: wellhead X, other \_\_\_\_\_

Footage from reference: 145

Direction from reference: 60 Degrees \_\_\_\_\_ East North \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_  
X West South X

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) 0

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

Yes (20 points)  
No (0 points) 0

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): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 5-12-95

Remediation Method: Excavation X Approx. cubic yards 900 - 1200  
(Check all appropriate sections) Landfarmed X Insitu Bioremediation \_\_\_\_\_  
Other Compost

Remediation Location: Onsite X Offsite X Crouch Mesa - Compost  
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: \_\_\_\_\_

Excavation Bedrock BottomGround Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_Final Pit: Sample location see Attached DocumentsClosure Sampling:  
(if multiple samples, attach sample results and diagram of sample locations and depths)Sample depth 15'Sample date 5-12-95 Sample time \_\_\_\_\_Sample Results - ADDITIONAL ATTACHED

Benzene (ppm) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Field headspace (ppm) 361TPH 1490 ppmGround Water Sample: Yes \_\_\_\_\_ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 8-8-95

SIGNATURE

B. ShawPRINTED NAME  
AND TITLEBuddy D. Shaw  
ENVIRONMENTAL COORDINATOR



CLIENT: <u>AMOCO</u>	<b>ENVIROTECH INC.</b> ENVIRONMENTAL SCIENTISTS & ENGINEERS 5798 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	LOCATION NO: <u>A0118</u> C.O.C. NO: <u>4195</u> <u>4196</u>
----------------------	--	--

<b>FIELD REPORT: CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>J.C. Kelley</u> WELL #: <u>5</u> PIT: <u>Blow Down</u>	DATE STARTED: <u>5-9-95</u> DATE FINISHED: <u>5-12-95</u>	
QUAD/UNIT: <u>NE4SE4 SEC: 3</u> TWP: <u>30N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>HMB</u>	
QTR/FOOTAGE:	CONTRACTOR: <u>ENVIROTECH</u>	

EXCAVATION APPROX. 18 FT. x 80 FT. x 17' FT. DEEP. CUBIC YARDAGE: 900-1200 yd<sup>3</sup>  
DISPOSAL FACILITY: CLAY MESA - AMOCO FACILITY 915 REMEDIATION METHOD: Surface Land Farm  
LAND USE: Grazing LEASE: Federal FORMATION: Ucciamento

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 145 FT. WSW FROM WELLHEAD.  
DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: 11,000  
NMDC RANKING SCORE: 0 NMDC TPH CLOSURE STD: 5000 PPM

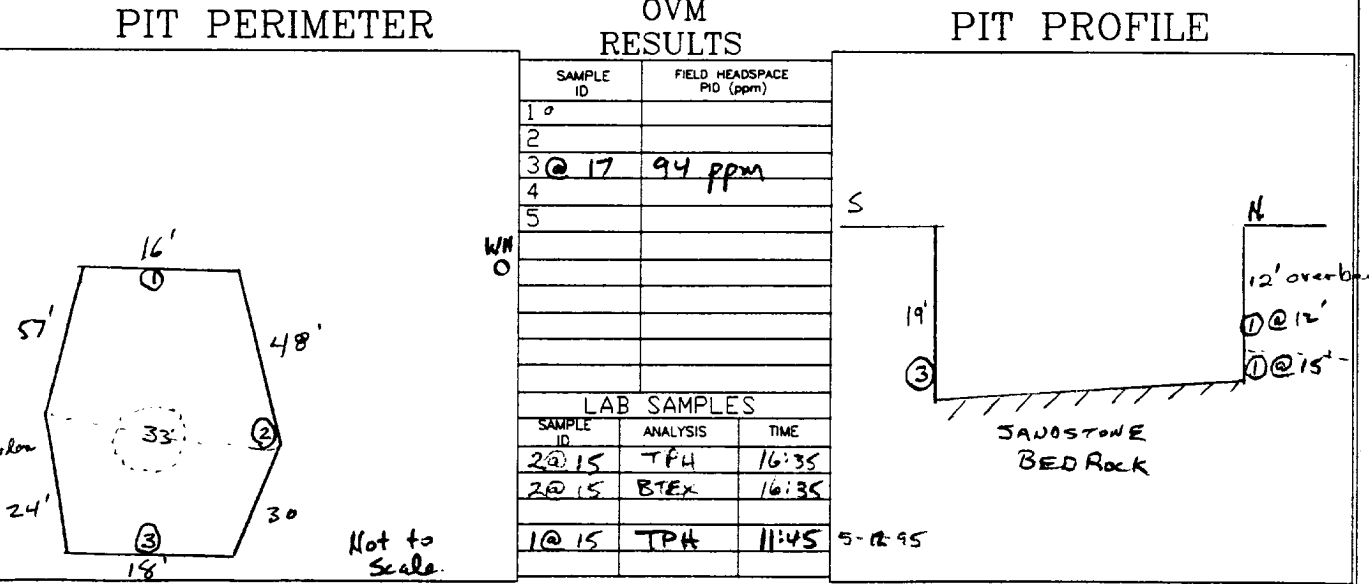
SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE:  
☒ PIT ABANDONED  
☐ STEEL TANK INSTALLED

- ① @ 15' 361
  - ② @ 15' 938
  - ③ @ 8' 45.1
  - ③ @ 12' - 15 ppm
  - ③ @ 15' - 537 ppm
  - ④ @ 17' - 411 ppm
  - ④ @ 10' - 59.4 ppm
- Well sorted Blue gray silty sand  
contaminated soil pyramids below blow pit.

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5-11 16:35	2 @ 15'	8487					187
5-12 11:45	1 @ 15'	8492					1490



TRAVEL NOTES: CALLOUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_

PERM.

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS


Client:	Amoco	Project #:	92140
Sample ID:	1 @ 15'	Date Reported:	05-12-95
Laboratory Number:	8492	Date Sampled:	05-12-95
Chain of Custody No:	4196	Date Received:	05-12-95
Sample Matrix:	Soil	Date Extracted:	05-12-95
Preservative:	Cool	Date Analyzed:	05-12-95
Condition:	Cool and Intact	Analysis Needed:	TPH

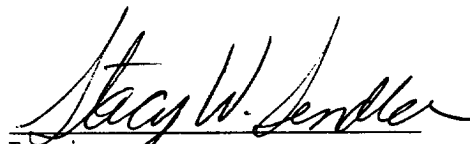
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	1490	10.0

ND = Parameter not detected at the stated detection limit.

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978.

Comments: A0118 - L.C. Kelly #5.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	2 @ 15'	Date Reported:	05-12-95
Laboratory Number:	8487	Date Sampled:	05-11-95
Chain of Custody No:	4195	Date Received:	05-11-95
Sample Matrix:	Soil	Date Extracted:	05-12-95
Preservative:	Cool	Date Analyzed:	05-12-95
Condition:	Cool and Intact	Analysis Needed:	TPH

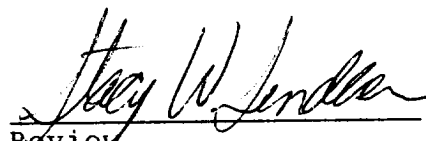
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	187	10.0

ND = Parameter not detected at the stated detection limit.

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978.

Comments: A0118 - L.C. Kelly #5.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	2 @ 15'	Date Reported:	05-12-95
Laboratory Number:	8487	Date Sampled:	05-11-95
Chain of Custody:	4195	Date Received:	05-11-95
Sample Matrix:	Soil	Date Analyzed:	05-11-95
Preservative:	Cool	Date Extracted:	05-11-95
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.3
Toluene	36.5	20.0
Ethylbenzene	47.5	20.0
p,m-Xylene	346	39.9
o-Xylene	171	20.0


SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	116 %
	Bromofluorobenzene	105 %

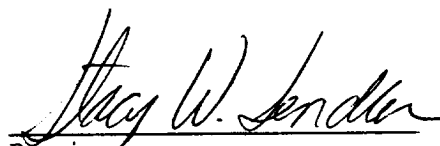
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND = Parameter not detected at the stated detection limit.

Comments: A0188 - L. C. Kelly #5.

  
Analyst

  
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District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District III  
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Energy, Minerals and Natural Resources Department

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## PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: L.C. KELLY #5  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec I Sec 3 T30N R 12W County SAN JUAN  
Pit Type: Separator X Dehydrator \_\_\_\_\_ Other \_\_\_\_\_  
Land Type: BLM X, State \_\_\_\_\_, Fee \_\_\_\_\_, Other \_\_\_\_\_

Pit Location: Pit dimensions: length 50', width 24', depth 15'  
Attach diagram) Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: 130  
Direction from reference: 0 Degrees \_\_\_\_\_ East North X  
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) 0

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

Yes (20 points)  
No (0 points) 0

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): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 5-5-95Remediation Method: Excavation X Approx. cubic yards 660  
(Check all appropriate sections) Landfarmed X Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location: Onsite X Offsite X CROUCH MESA - AMOCO  
(ie. landfarmed onsite, name and location of offsite facility) COMPOST FACILITY:

General Description Of Remedial Action: \_\_\_\_\_

Excavation BELOCK BOTTOM -Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_Final Pit: Sample location see Attached DocumentsClosure Sampling:  
(if multiple samples, attach sample results and diagram of sample locations and depths)  
Sample depth 9'Sample date 5-5-95 Sample time \_\_\_\_\_

## Sample Results

Benzene(ppm) 0.643Total BTEX(ppm) 13.908Field headspace(ppm) 1235TPH 2590 ppmGround Water Sample: Yes \_\_\_\_\_ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 8-8-95 5/23/98 gntSIGNATURE B. Shaw PRINTED NAME AND TITLE Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

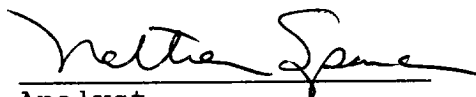
Client:	Amoco	Project #:	92140
Sample ID:	4 @ 9'	Date Reported:	05-03-95
Laboratory Number:	8447	Date Sampled:	05-02-95
Chain of Custody No:	4177	Date Received:	05-02-95
Sample Matrix:	Soil	Date Extracted:	05-03-95
Preservative:	Cool	Date Analyzed:	05-03-95
Condition:	Cool and Intact	Analysis Needed:	TPH

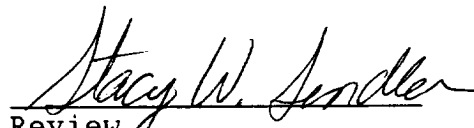
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	2590	15.0

ND = Parameter not detected at the stated detection limit.

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978.

Comments: A0118 - L. C. Kelly #5 Separator Pit.

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	4 @ 9'	Date Reported:	05-03-95
Laboratory Number:	8447	Date Sampled:	05-02-95
Chain of Custody:	4177	Date Received:	05-02-95
Sample Matrix:	Soil	Date Analyzed:	05-03-95
Preservative:	Cool	Date Extracted:	05-03-95
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	643	13.2
Toluene	665	13.2
Ethylbenzene	4050	26.4
p,m-Xylene	6320	26.4
o-Xylene	2230	19.8

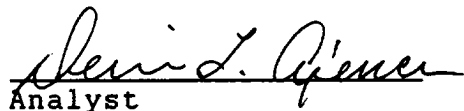
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	93 %
	Bromofluorobenzene	94 %

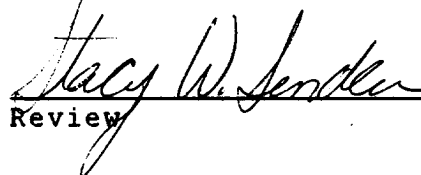
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: A0118 - L. C. Kelly #5 Separator Pit.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

Client/Project Name <b>Amoco</b>		Project Location <b>L.C. Rally #5 A-0118</b>		ANALYSIS/PARAMETERS							
Sampler: (Signature) <i>Harold M. Brown</i>		Chain of Custody Tape No.									
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	418.1	8020			Remarks	
Q @ 15'	5-12-95	11:45	8497	Soil	1	✓	✓			<del>Hold</del>	
										OK To Run 418.1	
										5-12-95 13:45 <i>Handy</i>	
										QC verification	
										Non-Billable	
Relinquished by: (Signature) <i>Harold M. Brown</i>			Date 5-12-95	Time 13:00	Received by: (Signature) <i>Nathan Sp...</i>		Date 5-12-95				Time 13:00
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

**ENVIROTECH INC.**  
 5796 U.S. Highway 64-3014  
 Farmington, New Mexico 87401  
 (505) 632-0615



Form 572-811

District I  
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(Revised 3/9/94)

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Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9219  
Address: 200 AMOCO COURT, FARMINGTON, NM 87401  
Facility Or: L.C. KELLY #5  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec NE/SE Sec 3 T 30 R 12 County SAN JUAN  
Pit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other WORK OVER  
Land Type: BLM XX State \_\_\_\_\_ Fee \_\_\_\_\_ Other \_\_\_\_\_

Pit Location: Pit dimensions: Length 15 width 15 depth 6  
(Attach diagram)  
Reference: wellhead X Other \_\_\_\_\_ See Attached  
Footage from reference: 58'  
Direction from reference: 66 Degrees \_\_\_\_\_ East North X 915  
of  
X 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)	<u>0</u>
Wellhead Protection Area: (less than 200 feet from a private domestic water source, or, less than 1000 feet from all other water sources)	Yes	(20 points)	
	No	(0 points)	<u>0</u>
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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/17/94 Date Completed: 06/17/94

Remediation Method: Excavation XX Approx. cubic yards 50

Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location: Onsite XX Offsite \_\_\_\_\_  
(ie. landfarmed onsite,  
name and location of  
offsite facility)

General Description of Remediation Action: \_\_\_\_\_

CONTAMINATION WAS REMEDIATED BY DILUTION AND AERATION.

Ground Water Encountered: No \_\_\_\_\_ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit:

Closure Sampling:  
(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)

Sample location See Attached

Sample depth 6

Sample date 06/17/94

Sample time 10:00:0

Sample Results

Benzene (ppm) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Field headspace (ppm) 0.0 @ 7' 11/20/97 915

TPH 55

Ground Water Sample: Yes \_\_\_\_\_ No XX (If yes, attach sample results)

I HEREBY CERTIFY THAT INFORMATION ABOVE IS TRUE AND COMPLETE

TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11-11-95 5/23/98 915

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Environmental  
Coordinator

Date Remediation Started: 06/17/94 Date Completed: 06/17/94  
Remediation Method: Excavation XX Approx. cubic yards 50

Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_  
\_\_\_\_\_

Remediation Location: Onsite XX Offsite \_\_\_\_\_  
(ie. landfarmed onsite,  
name and location of  
offsite facility)

General Description of Remediation Action: \_\_\_\_\_  
CONTAMINATION WAS REMEDIATED BY DILUTION AND AERIATION.

Ground Water Encountered: No \_\_\_\_\_ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit:  
Closure Sampling:  
(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)

Sample location See Attached

Sample depth 6

Sample date 06/17/94 Sample time 10:00:0

Sample Results

Benzene (ppm) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Field headspace (ppm) 0.0 @ 7' 11/20/97 915

TPH 55

Ground Water Sample: Yes \_\_\_\_\_ No XX (If yes, attach sample results)

I HEREBY CERTIFY THAT INFORMATION ABOVE IS TRUE AND COMPLETE

TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11-11-95 5/23/98 915

SIGNATURE

BDS Law

PRINTED NAME  
AND TITLE

Environmental  
Coordinator

# **FINAL PIT CLOSURE SAMPLING REPORT**

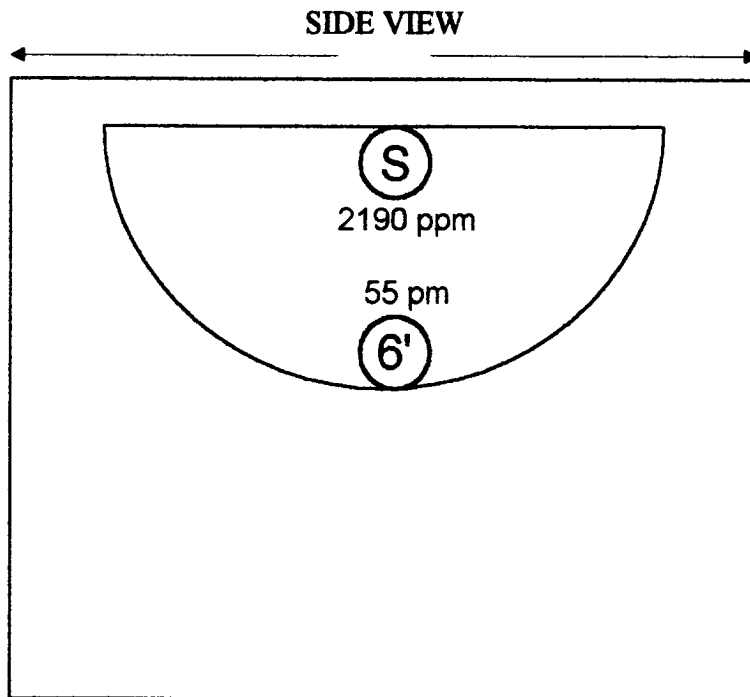
**OPERATOR: AMOCO PRODUCTION COMPANY**

ADDRESS: 200 AMOCO COURT FARMINGTON, NM

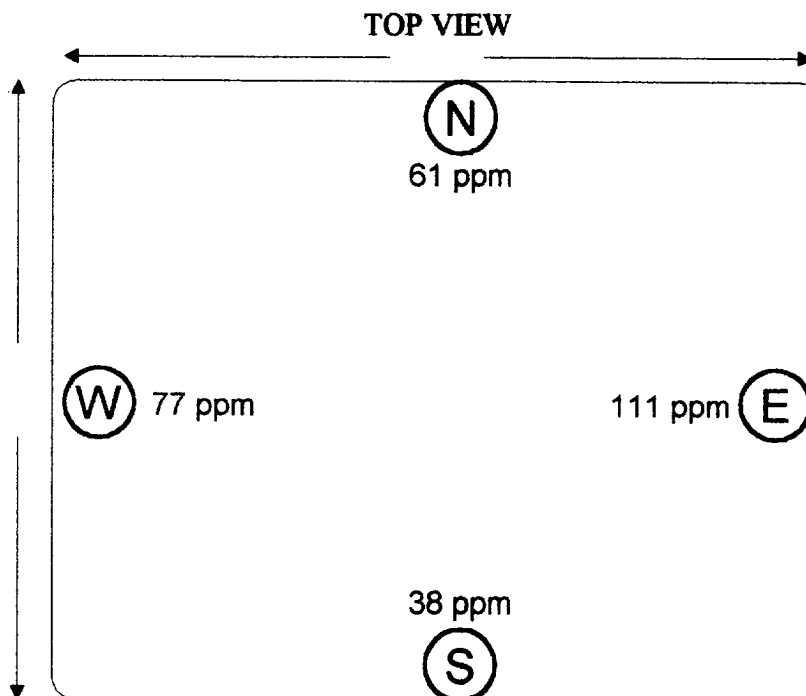
WELL NAME  
OR FACILITY : L.C. KELLY #5

**PIT TYPE :** WORK OVER      **LEGALS :** NE/SE SEC.3 T30N R12W

DEPTH	TPH/PPM
SURFACE	2190
6'	55
	0.0
7	0.0



WALL	DEPTH	TPH
NORTH	6'	61
WEST	6'	77
SOUTH	6'	38
EAST	6'	111





CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>WEE</u> C.O.C. NO: <u>5565</u>
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## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>L.C. KELLY</u> WELL #: <u>5</u> PITS: <u>WORKOVER</u>	DATE STARTED: <u>11/20/97</u> DATE FINISHED: _____
QUAD/UNIT: <u>I</u> SEC: <u>3</u> TWP: <u>30N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV/JCB</u>
QTP/FOOTAGE: <u>NE/4 SE/4</u> CONTRACTOR: <u>WHOLE EARTH</u>	

### SOIL REMEDIATION:

REMEDICATION SYSTEM: DILUTION & AERATION

APPROX. CUBIC YARDAGE: 50

LAND USE: RANGE

LIFT DEPTH (ft): NA

### FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

BORING CONDUCTED @ PIT CENTER ACCORDING TO PIT CLOSURE REPORT, REACHED 7' DEPTH FROM GRADE, SOIL CONSIST OF DK. YELL. BROWN SAND w/ NO DISCOLORATION OR HC ODOR THROUGHOUT ENTIRE BORING, COLLECTED SAMPLE PTS. @ 2', 4' & 6' DEPTHS BELOW GRADE, COLLECTED 2 SAMPLE PTS. USING HAND AUGER (1'-3' DEPTHS BELOW GRADE), 5 FT. COMPOSITE COLLECTED FOR LAB ANALYSIS OF SUPPOSEDLY DILUTED & AERATED SOIL PLACED BACK INTO EXCAVATED AREA.

### FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

### SKETCH/SAMPLE LOCATIONS

SEE SITE MAP

### OVM RESULTS

### LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
DA-1	0.0	DA-1	TPH (8015)	1140	2.3
SE 7'	0.0				

### SCALE



0 FT

### TRAVEL NOTES:

CALLOUT: NA

ONSITE: 11/20/97

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

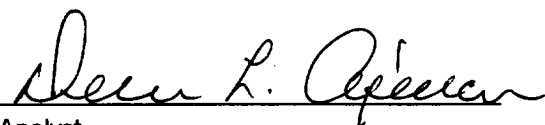
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	DA - 1	Date Reported:	11-25-97
Laboratory Number:	C539	Date Sampled:	11-20-97
Chain of Custody No:	5565	Date Received:	11-21-97
Sample Matrix:	Soil	Date Extracted:	11-21-97
Preservative:	Cool	Date Analyzed:	11-24-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.3	0.1
Total Petroleum Hydrocarbons	2.3	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: L. C. Kelly # 5 Workover Pit. 5 Pt. Composite.

  
Analyst

  
Review

[illegible]