

District I  
P O Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District 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

**PIT REMEDIATION AND CLOSURE REPORT**

A0080

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JC Gordon "D" # 2E  
Well Name

Location: Unit or Qtr/Qtr Sec M Sec 22 T 24N R 10W County SAN JUAN

Pit Type: Separator    Dehydrator    other BLOW

Land Type: BLM ✓, State   , Fee   , Other   

Pit ~~Location~~ Dimensions: length 45, width 45, depth 8  
(Attach diagram)

DEPUTY OIL & GAS ~~Inspector~~ wellhead ✓, other   

DEC 19 1996 Stage from reference: 150'

Direction from reference: 30 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 (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 Points) 10

**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) 0  
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: \_\_\_\_\_ Date Completed: 14 July 1994

Remediation Method: Excavation ☒ Approx. cubic yards 600  
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

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

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

Excavation

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

Final Pit: Sample location see Attached Documents

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

Sample depth 8'

Sample date 14 July 1994 Sample time \_\_\_\_\_

Sample Results

Benzene(ppm) 0.28

Total BTEX(ppm) 11.43

Field headspace(ppm) 647

TPH 4860 ppm

Ground Water Sample: Yes \_\_\_\_\_ No ☒ (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 14 July 1994

SIGNATURE B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

CLIENT: Ameco

ENVIROTECH Inc.

PIT NO: 90080

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

C.E.C. NO: 3805

## FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 7 of 7

LOCATION: NAME: 1st Gordon "D" WELL #: 2E PIT: Blow

DATE STARTED: \_\_\_\_\_

DATE FINISHED: 14 July 74

QUAD/UNIT: M SEC: 22 TWP: 27N RNG: 10W BM: NM CNTY: SI ST: NM

QTR/FOOTAGE: 5w/4 5w/4

CONTRACTOR: - E-PC

ENVIRONMENTAL  
SPECIALIST: *FM*

SOIL REMEDIATION: EXCAVATION APPROX. 45 FT. x 45 FT. x 8 FT. DEEP.

DISPOSAL FACILITY: Land Farm- Del Site CUBIC YARDAGE: 600

LAND USE: RANGE - BLM LEASE: 3F-077952

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150 FEET 30° W of S FROM WELLHEAD.

DEPTH TO GROUNDWATER: 100' GW 50 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMCCD RANKING SCORE: 10 NMCCD TPH CLOSURE STD: 1000 ppm

SOIL AND EXCAVATION DESCRIPTION: 0-8' : Soil is yellow-brown Silty Sand.  
Soil is slightly moist, with brown & grey staining on west wall @ approx 6'.  
TD @ 8' - Bedrock

## FIELD 418.1 CALCULATIONS

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

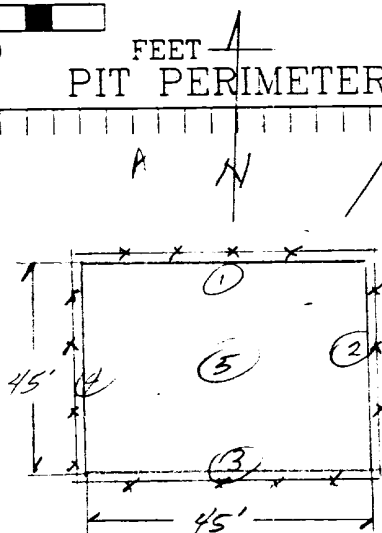
SCALE

0

FEET 4  
PIT PERIMETER

## OVM RESULTS

PIT PROFILE



| SAMPLE<br>ID | FIELD HEADSPACE<br>PID (ppm) |
|--------------|------------------------------|
| 106'         | 0.8                          |
| 205          | 11.1                         |
| 306          | 7.8                          |
| 406          | 5.8                          |
| 508'         | 649                          |

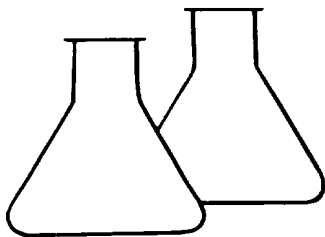
LAB SAMPLES

(508' TTH (4181))  
ETEX (P020)

TRAVEL NOTES

2000

— 12 —



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

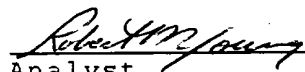
|                    |                 |                  |          |
|--------------------|-----------------|------------------|----------|
| Client:            | Amoco           | Project #:       | 92140    |
| Sample ID:         | 5 @ 8'          | Date Sampled:    | 07-14-94 |
| Laboratory Number: | 7722            | Date Received:   | 07-14-94 |
| Sample Matrix:     | Soil            | Date Analyzed:   | 07-19-94 |
| Preservative:      | Cool            | Date Reported:   | 07-21-94 |
| Condition:         | Cool and Intact | Analysis Needed: | TPH      |

| Parameter                       | Concentration<br>(mg/kg) | Det.<br>Limit<br>(mg/kg) |
|---------------------------------|--------------------------|--------------------------|
| -----                           | -----                    | -----                    |
| Total Petroleum<br>Hydrocarbons | 4860                     | 10.0                     |

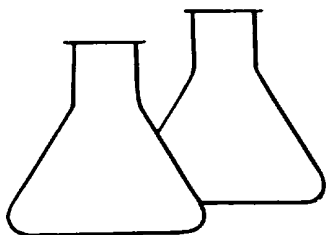
ND = Parameter not detected at the stated detection limit.  
N/A = Not applicable

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

Comments: JC Gordon "D" #2E Blow Pit A0080

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

|                    |               |                     |          |
|--------------------|---------------|---------------------|----------|
| Client:            | Amoco         | Project #:          | 92140    |
| Sample ID:         | 508'          | Date Reported:      | 07-27-94 |
| Laboratory Number: | 7722          | Date Sampled:       | 07-13-94 |
| Sample Matrix:     | Soil          | Date Received:      | 07-13-94 |
| Preservative:      | Cool          | Date Extracted:     | 07-18-94 |
| Condition:         | Cool & Intact | Date Analyzed:      | 07-26-94 |
|                    |               | Analysis Requested: | BTEX     |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 280                      | 19.7                     |
| Toluene      | 1260                     | 19.7                     |
| Ethylbenzene | 1270                     | 13.1                     |
| p,m-Xylene   | 6200                     | 19.7                     |
| o-Xylene     | 2420                     | 19.7                     |

| SURROGATE RECOVERIES: | Parameter          | Percent Recovery |
|-----------------------|--------------------|------------------|
|                       | Bromofluorobenzene | 110 %            |

Method: Method 5030, Purge-and-Trap, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: JC Gordon "D" #2E Pit # A0080

Ray L. Griffin  
Analyst

Maris D. Young  
Review

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P O Box 1980, Hobbs, NM  
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PIT REMEDIATION AND CLOSURE REPORT

A0080

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: LC Gordon 'D' # 2E  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec M Sec 22 T 27N R 10W County SAN JUAN  
Pit Type: Separator ☒ Dehydrator \_\_\_\_\_ Other \_\_\_\_\_  
Land Type: BLM ☒ State \_\_\_\_\_ Fee \_\_\_\_\_ Other \_\_\_\_\_

Pit Location: Pit dimensions: length 15, width 20, depth 6  
(Attach diagram) Reference: wellhead ☒, other \_\_\_\_\_  
Footage from reference: 170'  
Direction from reference: 50 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 (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 Points) 10

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): 10

Date Remediation Started: \_\_\_\_\_ Date Completed: 14 July 1994

Remediation Method: Excavation ☒ Approx. cubic yards 67  
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

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

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

Excavation

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

Final Pit: Sample location see Attached Documents  
Closure Sampling: \_\_\_\_\_  
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 6' & 5'

Sample date 14 July 1994 Sample time \_\_\_\_\_

Sample Results

Benzene(ppm) 22.3

Total BTEX(ppm) 134.4 @

Field headspace(ppm) (6') 342 (5') 800

TPH 193 ppm @ 6'

Ground Water Sample: Yes \_\_\_\_\_ No ☒ (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 14 July 1994

SIGNATURE B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

CLIENT: Amoco

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615PIT NO: A0080C.E.C. NO: 3805

## FIELD REPORT: CLOSURE VERIFICATION

JOB No: 72140PAGE No: 1 of 1LOCATION: NAME: ✓ C Golden "D" WELL # 2E PIT: SEP

DATE STARTED: \_\_\_\_\_

DATE FINISHED: 14 July 94QUAD/UNIT: M SEC: 22 TWP: 27N RNG: 10W BM: NM CNTY: SJ ST: NMENVIRONMENTAL  
SPECIALIST: \_\_\_\_\_QTR/FOOTAGE: SW/4 SW/4 CONTRACTOR: EPCSOIL REMEDIATION: EXCAVATION APPROX. 15 FT. x 20 FT. x 6 FT. DEEP.DISPOSAL FACILITY: Land Farm - ON SITE CUBIC YARDAGE: 67LAND USE: RANGE BLM LEASE: SF-077952FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 170 FEET 50° W & N FROM WELLHEAD.DEPTH TO GROUNDWATER: (100' SW) 50 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000NMOC D RANKING SCORE: 10 NMOC D TPH CLOSURE STD: 1000 ppm

SOIL AND EXCAVATION DESCRIPTION: Soil is GRAY, Poorly Graded, Silty Sand,  
Slightly Moist, Hard Compaction  
Pit is ENLARGED by bedrock\* FROM 3'-6'  
STANDING OCCURS ON ALL WALLS FROM 2'-3'

## FIELD 418: CALCULATIONS

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

SCALE



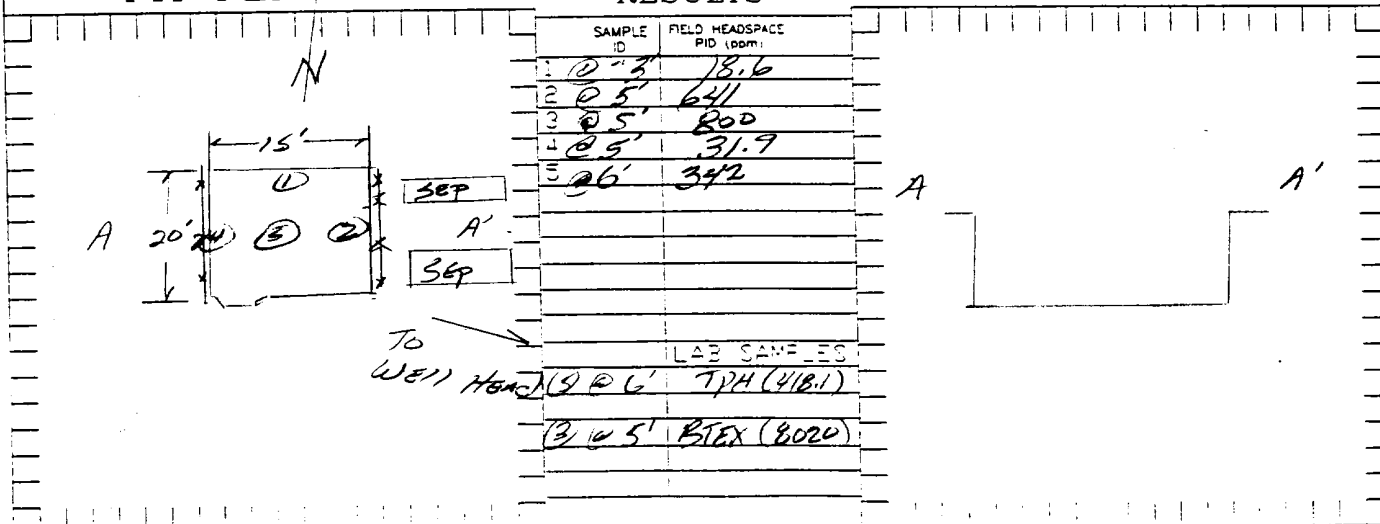
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FEET

PIT PERIMETER

OVM  
RESULTS

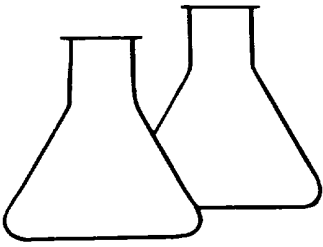
PIT PROFILE



TRAVEL NOTES

CALCULATIONS

DATE



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

|                    |                 |                  |          |
|--------------------|-----------------|------------------|----------|
| Client:            | Amoco           | Project #:       | 92140    |
| Sample ID:         | 5 @ 6'          | Date Sampled:    | 07-14-94 |
| Laboratory Number: | 7723            | Date Received:   | 07-14-94 |
| Sample Matrix:     | Soil            | Date Analyzed:   | 07-19-94 |
| Preservative:      | Cool            | Date Reported:   | 07-21-94 |
| Condition:         | Cool and Intact | Analysis Needed: | TPH      |

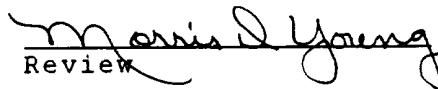
| Parameter<br>-----              | Concentration<br>(mg/kg)<br>----- | Det.<br>Limit<br>(mg/kg)<br>----- |
|---------------------------------|-----------------------------------|-----------------------------------|
| Total Petroleum<br>Hydrocarbons | 193                               | 10.0                              |

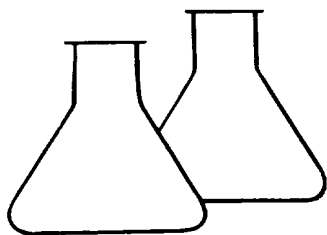
ND = Parameter not detected at the stated detection limit.  
N/A = Not applicable

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

Comments: JC Gordon "D" #2E Separator Pit A0080.

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

|                    |               |                     |          |
|--------------------|---------------|---------------------|----------|
| Client:            | Amoco         | Project #:          | 92140    |
| Sample ID:         | 3@5'          | Date Reported:      | 07-27-94 |
| Laboratory Number: | 7724          | Date Sampled:       | 07-13-94 |
| Sample Matrix:     | Soil          | Date Received:      | 07-13-94 |
| Preservative:      | Cool          | Date Extracted:     | 07-18-94 |
| Condition:         | Cool & Intact | Date Analyzed:      | 07-26-94 |
|                    |               | Analysis Requested: | BTEX     |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 22300                    | 20.0                     |
| Toluene      | 20600                    | 20.0                     |
| Ethylbenzene | 7200                     | 13.3                     |
| p,m-Xylene   | 50300                    | 20.0                     |
| o-Xylene     | 34000                    | 20.0                     |

| SURROGATE RECOVERIES: | Parameter          | Percent Recovery |
|-----------------------|--------------------|------------------|
|                       | Bromofluorobenzene | 169 %            |

Method: Method 5030, Purge-and-Trap, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: JC Gordon "D" #2E pit # A0080  
Excessive surrogate recovery due to co-elution

*Roy L. Griffin*  
Analyst

*Morris D. Young*  
Review