

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

MAY 04 1998

OK

PIT REMEDIATION AND CLOSURE REPORT*Approved*

Operator: Phillips Petroleum (Williams Field Services) **Telephone:** (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: SJ 29-6 UNIT #24A (86932)
Location: Unit or Qtr/Qtr Sec O Sec 21 T 29N R 6W County Rio Arriba
PitType: Dehydrator
LandType: Fee

Pit Location: Pit dimensions: length 21 ft., width 20 ft., depth 11 ft.
 (Attach diagram)

Reference: Wellhead

Footage from reference: 62 ft.

Direction from reference: 36 Degrees West of North

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)

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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 1,000 feet (10 points) 0

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 11/15/96**Date Completed:** 11/25/96Excavation ☒

Approx. Cubic Yard 180

Landfarmed ☒Insitu Bioremediation ☐

Other

Landfarmed soil after mechanical aeration.

Remediation Location:Onsite ☒ Offsite(ie. landfarmed onsite,
name and location of
offsite facility)**General Description Of Remedial Action:**

The pit was excavated to remove gross petroleum contamination. The excavated material was mechanically aerated, mixed with fertilizer, and placed into an onsite stockpile. After remediation goals were confirmed, the soil was returned to the excavation.

Ground Water Encountered: No**Final Pit:**

Sample location SJ 29-6 #24A-V-EX-01

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

A composite sample, made up of 4 points from each excavation face, was collected..

Sample depth Up to 11 feet.

Sample date 11/16/96

Sample time 13:20

Sample Result

Benzene (ppm) <0.62

Total BTEX (ppm) 46.4

Field Headspace (ppm)

TPH (ppm) 49.8

Ground Water Sample: No

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

DATE 3/20/97

SIGNATURE *Mark Harvey* FOR WFS

PRINTED NAME MARK HARVEY

AND TITLE PROJECT COORDINATOR



Organic Analysis - Pit Closure

Williams Field Services

| | | | |
|----------------|----------------------|-----------------|----------|
| Project ID: | OCD Pits | Report Date: | 11/22/96 |
| Sample ID: | SJ 29-6 #24A-V-EX-01 | Date Sampled: | 11/16/96 |
| Lab ID: | 5691 | Date Received: | 11/18/96 |
| Sample Matrix: | Soil | Date Extracted: | 11/19/96 |
| Preservative: | Cool | Date Analyzed: | 11/20/96 |
| Condition: | Intact | | |

| Target Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|----------------|--------------------------|----------------------------|
|----------------|--------------------------|----------------------------|

| | | |
|------------------------------------|-------------|------|
| Total Aromatic Hydrocarbons | 46.4 | |
| Benzene | ND | 0.62 |
| Toluene | 8.88 | 0.62 |
| Ethylbenzene | 1.51 | 0.62 |
| m,p-Xylenes | 29.7 | 1.23 |
| o-Xylene | 6.30 | 0.62 |

| | | |
|---|-------------|-------------|
| Total Recoverable Petroleum Hydrocarbons | 49.8 | 21.2 |
|---|-------------|-------------|

| | | | |
|-------------------------|--------------------|-------------------------|--------------------------|
| Quality Control: | <u>Surrogate</u> | <u>Percent Recovery</u> | <u>Acceptance Limits</u> |
| | Trifluorotoluene | 100 | 81 - 117% |
| | Bromofluorobenzene | 107 | 74 - 121% |

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
Environmental Protection Agency, Final Update I, July, 1992.

Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste,
SW-846, United States Environmental Protection Agency, September, 1986;
Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of
Water and Waste, United States Environmental Protection Agency, 1978.

Comments:

Review



Organic Analysis - Pit Closure

Williams Field Services

| | | | |
|----------------|----------------------|-----------------|----------|
| Project ID: | OCD Pits | Report Date: | 11/22/96 |
| Sample ID: | SJ 29-6 #24A-V-LF-01 | Date Sampled: | 11/16/96 |
| Lab ID: | 5692 | Date Received: | 11/18/96 |
| Sample Matrix: | Soil | Date Extracted: | 11/19/96 |
| Preservative: | Cool | Date Analyzed: | 11/20/96 |
| Condition: | Intact | | |

| Target Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|--------------------------|----------------------------|
| Total Aromatic Hydrocarbons | 38.3 | |
| Benzene | ND | 0.72 |
| Toluene | 5.23 | 0.72 |
| Ethylbenzene | 1.40 | 0.72 |
| m,p-Xylenes | 26.2 | 1.43 |
| o-Xylene | 5.47 | 0.72 |
| Total Recoverable Petroleum Hydrocarbons | 25.2 | 21.6 |

| | | | |
|-------------------------|--------------------|-------------------------|--------------------------|
| Quality Control: | <u>Surrogate</u> | <u>Percent Recovery</u> | <u>Acceptance Limits</u> |
| | Trifluorotoluene | 104 | 81 - 117% |
| | Bromofluorobenzene | 107 | 74 - 121% |

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;
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Comments:


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