

*Denny L. Faust*

Energy, Minerals and Natural Resources Department

DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

P.O. Box 2088

JUN 23 1998

Santa Fe, New Mexico 87504-2088

**PIT REMEDIATION AND CLOSURE REPORT**

*Approved*

Operator: Burlington Resources (Williams Field Services) Telephone: (801) 584-6361  
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900  
WellName: Carson #1 ( 87159 )  
Location: Unit or Qtr/Qtr Sec L Sec 1 T 30 R 5 County Rio Arriba  
PitType Dehydrator  
LandType: State

Pit Location: Pit dimensions: length 22 ft., width 17 ft., depth 14 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 132 ft.

Direction from reference: 75 Degrees East of North

Depth To Ground Water: Less than 50 feet (20 points)  
(Vertical distance from 50 feet to 99 feet (10 points)  
contaminants to seasonal Greater than 100 feet (0 points) 0  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private No (0 points) 0  
domestic water source, or; less than  
1000 feet from all other water sources)

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Distance To Surface Water: Less than 200 feet (20 points)  
(Horizontal distance to perennial 200 feet to 1,000 feet (10 points)  
lakes, ponds, rivers, streams, creeks, Greater than 1,000 feet (0 points) 0  
irrigation canals and ditches)

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 10/22/97

Date Completed: 10/22/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 194

(check all appropriate sections)

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 and placed into an onsite landfarm.

Ground Water Encountered: 0

Final Pit:

Sample location CARSON #1-V-EXFL-01

Closure Sampling:

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

Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.

Sample depth 14 FEET

Sample date 10/22/97

Sample time 16:29

Sample Result

Benzene (ppm) &lt;0.10

Total BTEX (ppm) &lt;0.40

Field Headspace (ppm)

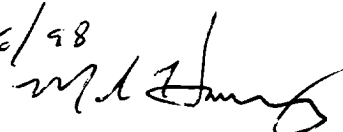
TPH (ppm) 3.2

Ground Water Sample: 0

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

DATE 3/6/98

SIGNATURE



PRINTED NAME Mark Harvey for Williams Field Services  
AND TITLE

# PIT RETIREMENT FORM

Date: 10.22.97

87159

Weather CLOUDY 60's

Well Name CARSON #1 Operator BURLINGTON

Sec 1 T 30 R 5 UL L

Land Type: BLM STATE FEE INDIAN

County RIO ARriba

One Call Made (505-765-1234)? ☒ Y N

Line Marking Evident? ☒ Y N

## Pit Location:

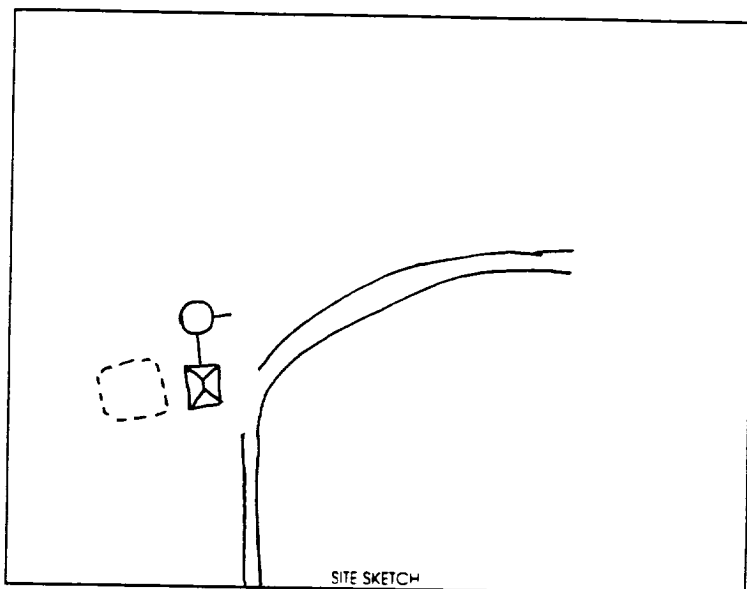
Reference Wellhead ☒ Other \_\_\_\_\_

Distance from: 132'

Direction: 75° Degrees ☒ E N ☒  
of  
W S

Starting Pit Dimensions 12 X 12 X 1

Final Pit Dimensions 22 X 17 X 14



SITE SKETCH

## Organic Vapor Readings:

Start \_\_\_\_\_  
@ 2' \_\_\_\_\_  
@ 4' \_\_\_\_\_  
@ 6' \_\_\_\_\_  
@ 8' \_\_\_\_\_  
@ 10' \_\_\_\_\_  
@ 14' \_\_\_\_\_

## Soil Description:

SILTY CLAY

|   |   |
|---|---|
| " | " |
| " | " |
| " | " |
| " | " |
| " | " |
| " | " |

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE  
Arroyo, Wash, Lake, Stream NONE  
Estimated or Known Distance to Ground Water >100'

Source of Backfill (if other than processed material) \_\_\_\_\_

## Samples collected:

Type

Progress: Verification

ID CARSON #1.V.EXWA.01

soil / water

Progress: Verification

ID CARSON #1.V.EXFL.01

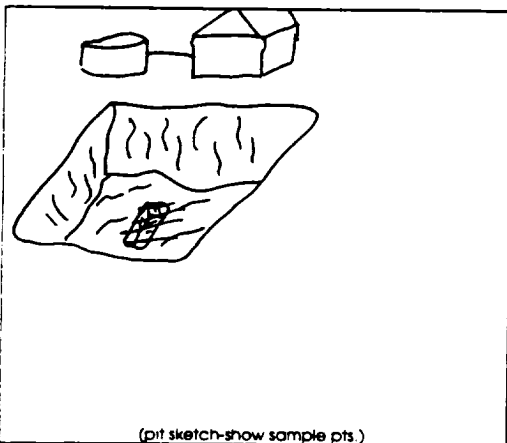
soil / water

Progress: Verification

ID \_\_\_\_\_ soil / water

Sample sent to Lab Via: Courier

Hand Carried Other \_\_\_\_\_ Preservative: ICE Other \_\_\_\_\_



(pit sketch-show sample pts.)

Comments: SITE HAD SLIGHT STAINING AND MINIMAL  
ODOR - SITE CLEANED UP WITHOUT INCIDENT - HIT CLAYSTONE  
FLOOR AT 14 FEET

Soil Shipped to: ON SITE LANDFARM

Prepared by: March 2 M/L



AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

## ORGANIC ANALYSIS REPORT

Client: Williams Field Services  
Date Sampled: October 22, 1997  
Date Received: October 29, 1997

Contact: Mark Harvey  
Date Extracted: October 30, 1997  
Date Analyzed: October 30, 1997

Analysis Requested:  
Volatile Aromatics  
Total Petroleum Hydrocarbons

Method Ref. Number:  
SW-846 #8020/8015 modified  
(Extraction-Sequential GC/PID-FID)

Field Sample ID:  
JICARILLA PIT REMEDIATION  
CARSON #1-V-EXWA-01/87159/16:23

Lab Sample ID:  
L31287-5

### Analytical Results

**BTX/TPH-E**

Units = mg/kg(ppm)

| <u>Compound:</u>             | <u>Reporting Limit:</u> | <u>Amount Detected:</u> |
|------------------------------|-------------------------|-------------------------|
| Benzene                      | 0.10                    | < 0.10                  |
| Toluene                      | 0.10                    | < 0.10                  |
| Ethylbenzene                 | 0.10                    | < 0.10                  |
| Total Xylene                 | 0.10                    | < 0.10                  |
| Total Petroleum Hydrocarbons | 2.0                     | 20.                     |

% Moisture

**5.0%**

\* All compounds are reported on a dry weight basis.

Released By: \_\_\_\_\_

Laboratory Supervisor

Report Date: November 03, 1997

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## ORGANIC ANALYSIS REPORT

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Client: Williams Field Services  
Date Sampled: October 22, 1997  
Date Received: October 29, 1997

Contact: Mark Harvey  
Date Extracted: October 30, 1997  
Date Analyzed: October 30, 1997

Analysis Requested:  
Volatile Aromatics  
Total Petroleum Hydrocarbons

Method Ref. Number:  
SW-846 #8020/8015 modified  
(Extraction-Sequential GC/PID-FID)

Field Sample ID:  
JICARILLA PIT REMEDIATION  
CARSON #1-V-EXFL-01/87159/16:29

Lab Sample ID:  
L31287-6

### Analytical Results

Units = mg/kg(ppm)

**BTX/TPH-E**

| <u>Compound:</u>             | <u>Reporting Limit:</u> | <u>Amount Detected:</u> |
|------------------------------|-------------------------|-------------------------|
| Benzene                      | 0.10                    | < 0.10                  |
| Toluene                      | 0.10                    | < 0.10                  |
| Ethylbenzene                 | 0.10                    | < 0.10                  |
| Total Xylene                 | 0.10                    | < 0.10                  |
| Total Petroleum Hydrocarbons | 2.0                     | 3.2                     |

% Moisture

**7.0%**

\* All compounds are reported on a dry weight basis.

Released By:

  
Laboratory Supervisor

Report Date: November 03, 1997

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## ORGANIC ANALYSIS REPORT

Client: Williams Field Services  
Date Sampled: November 20, 1997  
Date Received: November 24, 1997

Contact: Mark Harvey  
Date Extracted: November 24, 1997  
Date Analyzed: November 25, 1997

Analysis Requested:  
Total Petroleum Hydrocarbons

Method Ref. Number:  
SW-846 #8015 modified  
(Extraction - GC/FID)

Field Sample ID:  
CARSON #1-V-LF-01 @ 16:27/87159 19 PPM  
JICARILLA PIT REMEDIATION

Lab Sample ID:  
L31589-12

### Analytical Results

TPH-E

Units = mg/kg(ppm)

Compound:

Reporting  
Limit:

Amount  
Detected:

Total Petroleum Hydrocarbons

2.0

200.

% Moisture

14. %

\* All compounds are reported on a dry weight basis.

Released By:

Diane Baker  
Laboratory Supervisor

Report Date: November 26, 1997

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LANO FARM