

*Denny & Faust*  
DEPUTY OIL & GAS INSPECTOR

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

JUN 23 1998

PIT REMEDIATION AND CLOSURE REPORT

Operator: Devon Energy

Telephone: (801) 584-6361

Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900

WellName: NEBU # 202

( 85257 )

Location: Unit or Qtr/Qtr Sec B Sec 11 T 31 R 7 County San Juan

PitType Dehydrator

LandType: State

Pit Location: Pit dimensions: length 19 ft., width 18 ft., depth 10 ft.

(Attach diagram)

Reference: Wellhead

Footage from reference: 97 ft.

Direction from reference: 310 Degrees East 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)

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)

Greater than 1,000 feet (0 points) 0

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 11/4/97

Date Completed: 11/4/97

Remediation Method: Excavation ☒  
(check all appropriate sections)

Approx. Cubic Yard 127

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 NEBU # 202-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 10 FEET

Sample date 11/5/97

Sample time 11:03

Sample Result

Benzene (ppm) &lt;0.10

Total BTEX (ppm) 6.44

Field Headspace (ppm)

TPH (ppm) 3800

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**  
85257

Date: 11-4-97

85257

Weather SUNNY 60's

Well Name NEBU #202 Operator DEVON ENERGY Sec 11 T 31 R 7 UL B

Land Type: BLM STATE FEE INDIAN

County SAN JUAN

One Call Made (505-765-1234)? ☒ Y ☐ N

Line Marking Evident? ☒ Y ☐ N

**Pit Location:**

Reference Wellhead ✓ Other         

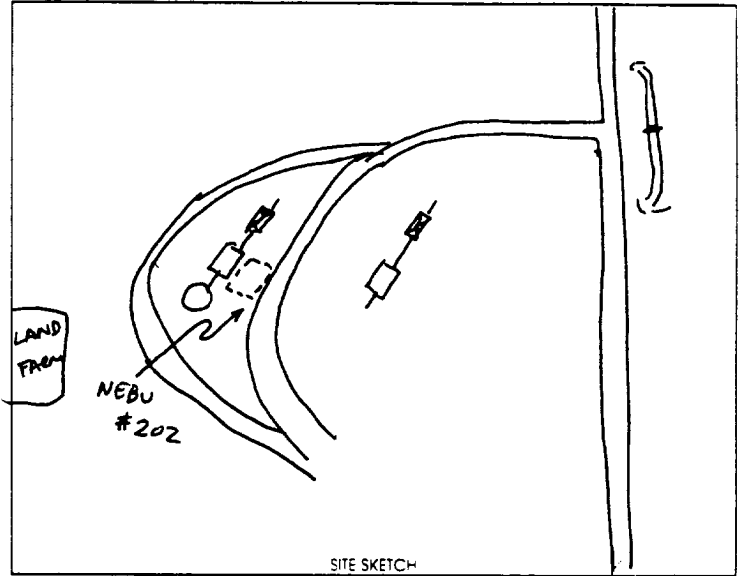
Distance from: 97'

Direction: 310° Degrees   x   E N   x  

\_\_\_\_\_ of \_\_\_\_\_ W \_\_\_\_\_ S \_\_\_\_\_

Starting Pit Dimensions 14 x 14 x 1

Final Pit Dimensions 19 x 18 x 16



### Organic Vapor Readings:

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

Soil Description: SANDY CLAY

SANDY CLAY

66 67

11 16

21 11

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Rock Floor

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 NEBU #202.V.EXWA.01 (soil) water

### Progress: Verification:

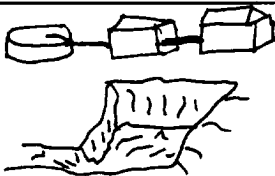
ID NEBU # 202N. EXFL. 01 (soil) water

Progress: Verification:

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

Sample sent to Lab Via: Courier

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



Comments: SITE HAD SOME ODOR AND LIGHT

STAINING ~ EXCAVATED TO A 10' DEPTH WHERE

ROCK FLOOR WAS ENCOUNTERED - SOIL LANDFARMED

ON SITE

Soil Shipped to: ON SITE LANDFARM

Prepared by: Manal L. M-L

(pit sketch-show sample pts.)



AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

## ORGANIC ANALYSIS REPORT

Client: Williams Field Services  
Date Sampled: November 05, 1997  
Date Received: November 12, 1997

Contact: Mark Harvey  
Date Extracted: November 11, 1997  
Date Analyzed: November 13, 1997

Analysis Requested:  
Total Petroleum Hydrocarbons  
Volatile Aromatics

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

Field Sample ID:  
NEBU #202-V-EXWA-01 @ 10:49/85257  
JICARILLA PIT REMEDIATION

Lab Sample ID:  
L31468-15

### 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	1.6
Total Petroleum Hydrocarbons	2.0	550.

% Moisture

4.0%

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

Released By:

Diane Bala  
Laboratory Supervisor

Report Date: November 19, 1997

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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: November 05, 1997  
Date Received: November 12, 1997

Contact: Mark Harvey  
Date Extracted: November 11, 1997  
Date Analyzed: November 13, 1997

Analysis Requested:  
Total Petroleum Hydrocarbons  
Volatile Aromatics

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

Field Sample ID:  
NEBU #202-V-EXFL-01 @ 11:03/85257  
JICARILLA PIT REMEDIATION

Lab Sample ID:  
L31468-16

### 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	0.34
Total Xylene	0.10	6.1
Total Petroleum Hydrocarbons	2.0	3800.

% Moisture

6.0%

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

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

*Olivia Bala*  
Laboratory Supervisor

Report Date: November 19, 1997

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## ORGANIC ANALYSIS REPORT

Client: Williams Field Services  
Date Sampled: November 21, 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:  
NEBU #202-V-LF-01 @ 12:53/85257 25 PPM  
JICARILLA PIT REMEDIATION

Lab Sample ID:  
L31589-28

### Analytical Results

Units = mg/kg(ppm)

TPH-E

Compound:

Reporting  
Limit:

Amount  
Detected:

Total Petroleum Hydrocarbons

2.0

1300.

% Moisture

11.%

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

Released By: Diane Ralch

Laboratory Supervisor

Report Date: November 26, 1997

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LANOFARM