

*Denny L. Faust*

DEPUTY OIL & GAS INSPECTOR

JUN 23 1998

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

*Approved*  
**PIT REMEDIATION AND CLOSURE REPORT**

Operator: Blackwood and Nichols

Telephone: (801) 584-6361

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

WellName: NEBU # 44

( 71440 )

Location: Unit or Qtr/Qtr Sec B Sec 4 T 30 R 7 County San Juan

PitType Dehydrator

LandType: State

Pit Location: Pit dimensions: length 18 ft., width 16 ft., depth 4 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 110 ft.

Direction from reference: 240 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) 10

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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MAR 30 1998  
OIL CON. DIV.  
DIST. 3

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) 10

Ranking Score (TOTAL POINTS): 20

Date Remediation Started: 11/3/97

Date Completed: 11/3/97

Remediation Method: Excavation ☒

Approx. Cubic Yard 43

(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 NEBU # 44-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 4 FEET

Sample date 11/4/97

Sample time 11:49

Sample Result

Benzene (ppm) &lt;0.10

Total BTEX (ppm) &lt;0.40

Field Headspace (ppm)

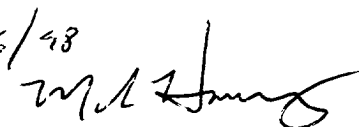
TPH (ppm) 13

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

71440

Date: 11-3-97

Weather SUNNY 60's

Well Name NEBU # 44 Operator BLACKWOOD ; NICHOLS Sec 4 T 30 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:

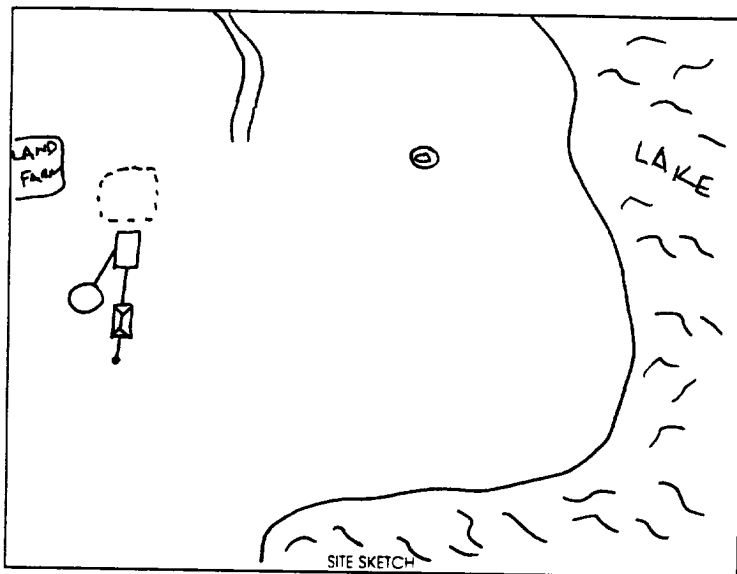
Reference Wellhead ☒ Other ☐

Distance from: 110

Direction: 240 Degrees ☒ E ☐ N ☒  
of  
☐ W ☐ S

Starting Pit Dimensions 15 x 15 x 1

Final Pit Dimensions 18 x 16 x 4



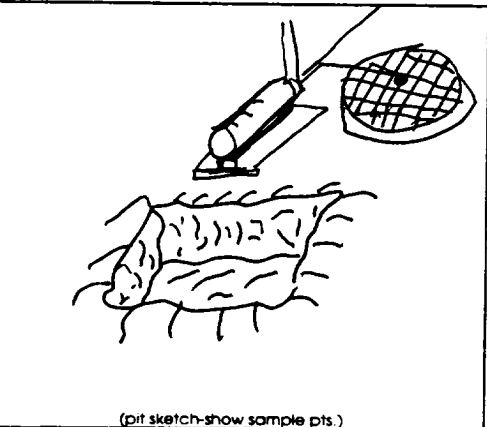
Organic Vapor Readings: Start            Soil Description: ROCKY SAND  
 @ 2'                        
 @ 4'                        
 @ 6'                        
 @ 8'            ROCK FLOOR  
 @             
 @           

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE  
 Arroyo, Wash, Lake, Stream > 500'  
 Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material           )

Samples collected: Type Progress: Verification ID NEBU # 44-V-EXWA-01 soil / water  
 Progress: Verification ID NEBU # 44-V-EXFL-01 soil / water  
 Progress: Verification: ID            soil / water

Sample sent to Lab Via: Courier Hand Carried Other            Preservative: ICE Other           



Comments: SITE ROCKY AND SANDY - HIT ROCK FLOOR  
IMMEDIATELY - SITE HAD NO ODOR AND VERY SLIGHT STAINING -  
ROCK AND SAND LANDFARM

Soil Shipped to: ON SITE LANDFARM

Prepared by: Mark Z M



## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Williams Field Services  
Date Sampled: November 04, 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 #44-V-EXWA-01 @ 11:40/71440  
JICARILLA PIT REMEDIATION

Lab Sample ID:  
L31468-11

### 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 Purgeable Hydrocarbons	2.0	< 2.0

% Moisture

**2.0%**

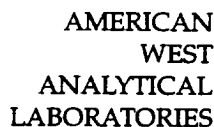
\* All compounds are reported on a dry weight basis.

Released By:                     

Laboratory Supervisor

Report Date: November 19, 1997

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Client: Williams Field Services  
Date Sampled: November 04, 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 #44-V-EXFL-01 @ 11:49/71440  
JICARILLA PIT REMEDIATION

Lab Sample ID:  
L31468-12

**BTX/TPH-E**

Units = mg/kg(ppm)

463 West 3600 South  
Salt Lake City, Utah  
84115

**Compound:**

**Reporting  
Limit:**

**Amount  
Detected:**

## Benzene

**0.10**

 $\leq 0.10$ 

## Toluene

0.10

 $< 0.10$ 

## Ethylbenzene

**0.10**

 $\leq 0.10$ 

### Total Xylene

**0.10**

 $\leq 0.10$ 

### Total Petroleum Hydrocarbons

## 2.0

13.

**% Moisture**

**2.0%**

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

Released By:

~~Laboratory Supervisor~~

**Report Date: November 19, 1997**

1 of 1



## ORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

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 #44-V-LF-01 @ 12:08/71440 0 PPM  
JICARILLA PIT REMEDIATION

Lab Sample ID:  
L31589-26

### Analytical Results

TPH-E

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/kg(ppm)

Compound:

Reporting  
Limit:

Amount  
Detected:

Total Petroleum Hydrocarbons

2.0

6.8

% Moisture

6.0%

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

Released By: Diane Baker

Laboratory Supervisor

Report Date: November 26, 1997

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LANDFARM