

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

PIT REMEDIATION AND CLOSURE REPORT

Approved
Operator: Devon Energy

Telephone: (801) 584-6361

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

WellName: NEBU # 45 A (85450)

Location: Unit or Qtr/Qtr Sec I Sec 5 T 30 R 7 County San Juan

PitType Dehydrator

LandType: State

Pit Location: Pit dimensions: length 19 ft., width 19 ft., depth 10 ft.
(Attach diagram)

Reference: wellhead

Footage from reference: 78 ft.

Direction from reference: 90 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)

RECEIVED
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 ☒
(check all appropriate
sections)

Approx. Cubic Yard 134

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:

Closure Sampling:

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

Sample location NEBU # 45 A-V-EXFL-01

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 11/4/97

Sample time 10:58

Sample Result

Benzene (ppm) <0.10

Total BTEX (ppm) <0.40

Field Headspace (ppm)

TPH (ppm) 6.5

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

85450

Date: 11.3.97

Weather SUNNY 60's

Well Name NEBU #45 A Operator DEVON ENERGY Sec 5 T 30 R 7 UL I

Land Type: BLM STATE FEE INDIAN

County SAN JUAN

One Call Made (505-765-1234)? ☒ Y ☐ N

Line Marking Evident? ☒ Y ☐ N

Pit Location:

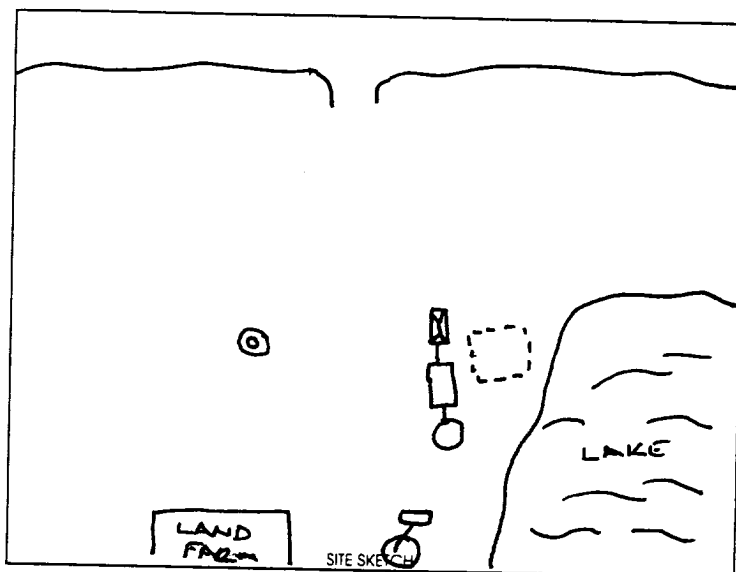
Reference Wellhead ☒ Other ☐

Distance from: 78

Direction: 90 Degrees ☒ E ☐ N ☒
of
☐ W ☐ S

Starting Pit Dimensions 15 x 15 x 1

Final Pit Dimensions 19 x 19 x 10



Organic Vapor Readings: Start
@ 2'
@ 4'
@ 6'
@ 8'
@ 10'
@

Soil Description: ROCKY SAND
 " "
 " "
 " "
 " "
ROCK FLOOR

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE

Arroyo, Wash, Lake, Stream ~ 300'

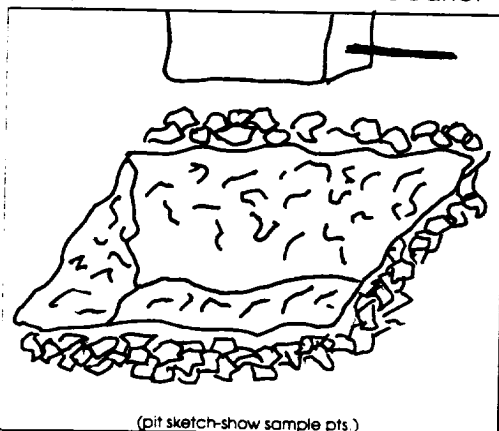
Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material)

Samples collected: Type Progress: Verification: ID NEBU #45 A.V.EXWA.01 soil / water
Progress: Verification: ID NEBU #45 A.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 EXTREMELY ROCKY - VERY LITTLE
STAINING OR ODOR - LARGE ROCKS IN PIT COULD
NOT BE REMOVED WITH HOE - SOIL / ROCK LANDFARMED
ON SITE

Soil Shipped to:

Prepared by: W. J. 2 W. J.



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 #45A-V-EXWA-01 @ 10:50/85450
JICARILLA PIT REMEDIATION

Lab Sample ID:
L31468-7

463 West 3600 South
Salt Lake City, Utah
84115

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

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	< 2.0

% Moisture

6.0%

* 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 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 #45A-V-EXFL-01 @ 10:58/85450
JICARILLA PIT REMEDIATION

Lab Sample ID:
L31468-8

Analytical Results

BTX/TPH-E

Units = mg/kg(ppm)

463 West 3600 South
Salt Lake City, Utah
84115

<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	6.5


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

% Moisture

3.0%

* 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 #45A-V-LF-01 @ 11:52/85450 6 PPM
JICARILLA PIT REMEDIATION

Lab Sample ID:
L31589-25

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results

TPH-E

Units = mg/kg(ppm)

Compound:

Reporting
Limit:

Amount
Detected:

Total Petroleum Hydrocarbons

2.0

< 2.0

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

% Moisture

5.0%

* All compounds are reported on a dry weight basis.

Released By:

Diane Balg
Laboratory Supervisor

LANDFARM

Report Date: November 26, 1997

1 of 1