

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

Energy, Minerals and Natural Resources Department

JUN 23 1998

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 # 32 A

(85536)

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

PitType Dehydrator

LandType: State

Pit Location: Pit dimensions: length 13 ft., width 12 ft., depth 7 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 85 ft.

Direction from reference: 30 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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Yes (20 points)
No (0 points) 0

OIL CON. DIV.
DIST. 3

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 40

(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 # 32 A-V-EXFL-01

Closure Sampling:

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

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

Sample depth 7 FEET

Sample date 11/4/97

Sample time 09:20

Sample Result

Benzene (ppm) <0.10

Total BTEX (ppm) 37.4

Field Headspace (ppm)

TPH (ppm) 3100

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

85536

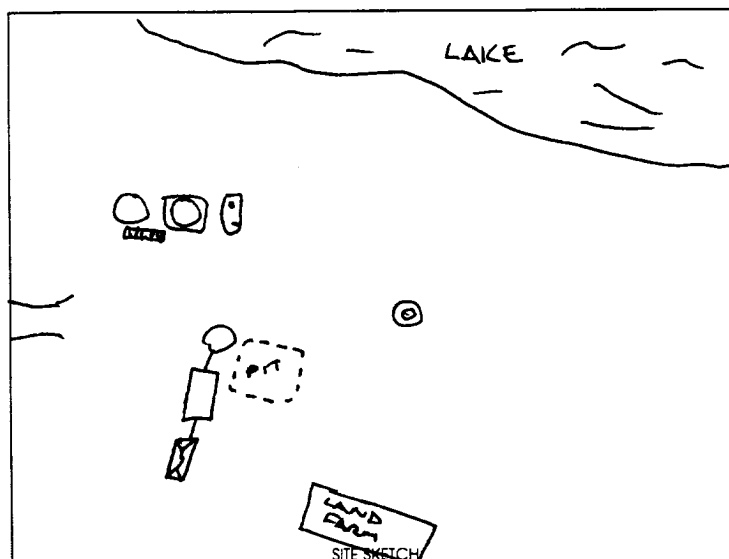
Weather SUNNY 60's

County SAN JUAN

Line Marking Evident? ☒ Y ☐ N

of
W S

Final Pit Dimensions 13 x 12 x 7



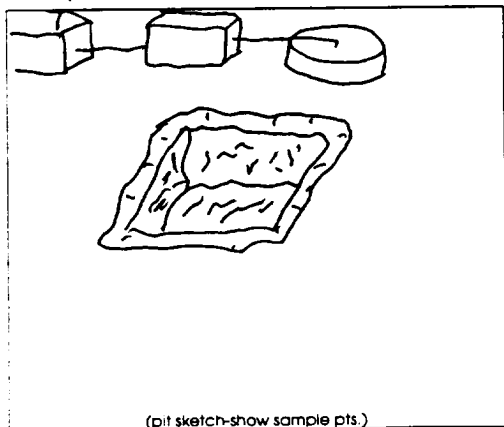
| Soil Description: | ROCKY | SAND |
|-------------------|-------|-------|
| | " | " |
| | " | " |
| | " | " |
| | " | " |
| | ROCK | FLOOR |

Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material) _____

Samples collected: Type Progress: Verification: ID NEBU #32 A.V. EXWA.01 soil / water
Progress: Verification: ID NEBU #32 A.V. EXFL.01 soil / water
Progress: Verification: ID _____ soil / water

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



Comments: SITE EXTREMELY ROCKY WITH NO
SIGNIFICANT STAINING OR ODOR SITE CLEANED
QUICKLY ~ SOIL AND ROCK LANDFARMED ON SITE

Soil Shipped to: ON SITE LANDFARM

Prepared by: Muel L. M.L.



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 12, 1997

Analysis Requested:
Total Petroleum Hydrocarbons
Volatile Aromatics

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

Field Sample ID:
NEBU #32A-V-EXWA-01 @ 9:12/85536
JICARILLA PIT REMEDIATION

Lab Sample ID:
L31468-3

463 West 3600 South
Salt Lake City, Utah
84115

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 | 12. |

% Moisture

3.0%

* All compounds are reported on a dry weight basis.

Released By:


Laboratory Supervisor

Report Date: November 19, 1997

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ORGANIC ANALYSIS REPORT

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

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Analysis Requested:
Total Petroleum Hydrocarbons
Volatile Aromatics

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

Field Sample ID:
NEBU #32A-V-EXFL-01 @ 9:20/85536
JICARILLA PIT REMEDIATION

Lab Sample ID:
L31468-4

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 | 1.4 |
| Total Xylene | 0.10 | 36. |
| Total Petroleum Hydrocarbons | 2.0 | 3100. |

% Moisture

7.0%

* All compounds are reported on a dry weight basis.

Released By: Diana Saka
Laboratory Supervisor

Report Date: November 19, 1997

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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 #32A-V-LF-01 @ 11:23/85536 0 PPM
JICARILLA PIT REMEDIATION

Lab Sample ID:
L31589-22

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: Don B. Smith

Laboratory Supervisor

Report Date: November 26, 1997

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LANDFARM