

District III
P.O. Box 1000
Santa Fe, New Mexico 87505
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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

RECEIVED
JUL 30 1996

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OIL CON. DIV.
DIST. 3

OCT 11 9 1996

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Snyder) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Duke #11

Location: Unit: L Sec. 13 T. 31 N R. 13 W County San Juan

Pit Type: Separator Dehydrator Other P&A

Land Type: BLM ☒ State Fee Other No

Pit Location: Pit dimensions: length 12 width 12 depth 2

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 150'

Direction from reference: 45 Degrees East North ☒
of
☒ West South

Depth to Ground Water: Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

(Vertical distance from contaminants to
seasonal high water elevation of ground
water)

Wellhead Protection Area: Yes (20 points)
No (0 points) 0

(Less than 200 feet from a private
domestic water source, or; less than 1,000
feet from all other water sources)

Distance to Surface Water: Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) 0

(Horizontal distance to perennial lakes,
ponds, rivers, streams, creeks, irrigation
canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started:	<u>3/1/95</u>	Date Completed:	<u>5/15/95</u>
Remediation Method: (Check all appropriate sections)	Excavation <u>X</u>	Approx. Cubic Yard	<u>1911</u>
	Landfarmed <u>X</u>	Amount Landfarmed (cubic yds)	<u>1911</u>
	Other _____		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite <u>X</u>	Offsite	_____
Backfill Material Location: _____			
General Description of Remedial Action: Excavated contaminated soil to pit size 30'x40'x43' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil will be aerated by plowing/disking until soil meets regulatory levels. _____ _____ _____ _____ _____			
Ground Water Encountered:	No <u>✓</u>	Yes	Depth _____

Final Pit Closure Sampling:

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

Sample Location	<u>Pit bottom</u>		
Sample depth	<u>43'</u>		
Sample date	<u>5/15/95</u>	Sample time	<u>9:30:00 AM</u>
Sample Results			
Benzene (ppm)	<u>ND</u>		
Total BTEX (ppm)	<u>ND</u>		
Field headspace (ppm)	_____		
TPH	<u>ND</u>	Method	<u>418.1</u>
Vertical Extent (ft)	_____	Risk Assessment form attached	Yes <u> </u> No <u>✓</u>
Ground Water Sample:	Yes <u> </u> No <u>✓</u>	(If yes, attach sample results)	

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

DATE 7-26-96

SIGNATURE

Danner BeardenPRINTED NAME
AND TITLE

DATE 11/11

11/11/11

Snyder Oil Co

L NW/5W

Sec 13 T-31N R-13W

SAN JUAN County

SF 078707

Plugged & Abandoned

Re Seeded

Read

Land form

well P40

Land form in

150'

well

105'

old pit

excavation

well pad

Location - Re Seeded - Road blocked

VOLATILE AROMATIC HYDROCARBONS

Gas Company of New Mexico

Project ID:	Pits	Report Date:	05/17/95
Sample ID:	Duke 1 M Pit Bottom	Date Sampled:	05/15/95
Lab ID:	996	Date Received:	05/15/95
Sample Matrix:	Soil	Date Extracted:	05/15/95
Preservative:	Cool	Date Analyzed:	05/16/95
Condition:	Intact		


Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	8.68
Toluene	ND	8.68
Ethylbenzene	ND	8.68
m,p-Xylenes	ND	17.4
o-Xylene	ND	8.68


ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	95	81 -117%
	Bromofluorobenzene	95	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
Environmental Protection Agency, Final Update I, July, 1992.

Comments:


Analyst


Review

TOTAL PETROLEUM HYDROCARBONS

EPA Method 418.1

Gas Company of New Mexico

Project ID: Pits
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/17/95
Date Sampled: 05/15/95
Date Received: 05/15/95
Date Extracted: 05/16/95
Date Analyzed: 05/16/95

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Duke 1 M-LFS	0995	ND	25.0
Duke 1 M-Pit Bottom	0996	ND	23.4
Hale Adobe Pit 20' Bottom	0997	ND	23.7
Hale Adobe Pit Center	0998	79.4	23.9
Arnsstein # 1 Pit Bottom	0999	ND	24.3
Arnsstein # 1 LF	1000	ND	24.9

ND- Analyte not detected at the stated detection limit.

Reference: Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986;
Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:

Analyst

Review

VOLATILE AROMATIC HYDROCARBONS

Gas Company of New Mexico

Project ID: Pits
Sample ID: Duke 1 M - LF
Lab ID: 995
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/17/95
Date Sampled: 05/15/95
Date Received: 05/15/95
Date Extracted: 05/15/95
Date Analyzed: 05/16/95

Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	7.62
Toluene	14.5	7.62
Ethylbenzene	8.89	7.62
m,p-Xylenes	31.4	15.2
o-Xylene	ND	7.62


ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	104	81 -117%
	Bromofluorobenzene	103	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
Environmental Protection Agency, Final Update I, July, 1992.

Comments:


Analyst


Review