

State of New Mexico
Energy, Minerals and Natural Resources Department

DEGELVE SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE SANTA FE OFFICE SANTA FE OFFICE

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505 OIL CON. DIV.

Mar to sol

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Snyder	Telephone:	324-3764	
Address:	603 W. Elm Street Farmington, NM 8	7401		
Facility or W	ell Name: Arnstein #1E			
Location:	Unit: C Sec.	18 T. 31 N	R. 12 W County	San Juan
Pit Type:	Separator Dehydra	othe Othe	P&A	
Land Type:	BLM State	Fee Othe	er	
Pit Location:	Pit dimensions: length	12 ' width	12 ' depth	2.5
(Attach diagram	n) Reference: wellhead -	other _		
	Footage from reference: 120'			
	Direction from reference: 20	Degrees	East North	<u>v</u>
		<u>~</u>	of West South	
Depth to Grou	ontaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points) 0
Wellhead Prof (Less than 200 feet from domestic water source, or feet from all other water	a private r; less than 1,000	Yes No		(20 points) (0 points) 0
Distance to Su (Horizontal distance to ponds, rivers, streams, creanals and ditches	erennial lakes,	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points)0
		RANKING SCORE	(TOTAL POINTS):	0

Date Remediation Started:	2/28/95	Date Completed: 8/28/95	
Remediation Method:	Excavation X	Approx. Cubic Yard 334	
(Check all appropriate	Landfarmed x	Amount Landfarmed (cubic yds) 334	
sections)	Other		
Remediation Location: (i.e., landfarmed onsite, nameand location of offsite facility)	Onsite X	Offsite	=
§ Backfill Material Location			
General Description of Ren	nedial Action:		
Excavated contaminated soil as soil meets regulatory level.	nd landfarmed onsite within a bermed a	rea at a depth of 6" to 12". Soil will be aerated by plowing/disking	until
Son mode regulatory loves.			
Ground Water Encountered	ed: No 🔽	Yes Depth	_
Final Pit Closure Sampling:	Sample Location Pit Botton	1	
(if multiple samples, attach sample result and diagram of	Sample depth 30'		
sample locations and depths.	Sample date 3/3	Sample time 4:00:00 PM	
	Sample Results		
	Benzene (ppm)	ND	
	Total BTEX (ppm)	0.2049	
	Field headspace (ppm)		
	TPH 52.00	Method 418.1	
Vertical Extent (ft)	Risi	k Assessment form attached Yes No	<u> </u>
Ground Water Sample:	Yes No	(If yes, attach sample results)	
I HEREBY CERTIFY TH KNOWLEDGE AND MY		E IS TRUE AND COMPLETE TO THE BEST OF MY	
DATE 7-26-9	76 wer Bearlen	PRINTED NAME AND TITLE	

ARNStein IE SanJuan C - NE/NW County SEC 18 +-31N SF 078243 SHYDER oil Co. R - 12 W Rouling Factor - D PJA Mohably Outside Vulterable area MORTH approx OF WORTH West DIONED & SERVED

South

No!+ 4707



OFF: (505) 325-8786

LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn:

Denver Bearden

Date:

3/3/95

Company: Gas Company of New Mexico

COC No.

2693

Address:

P.O. Box 1899

Sample No.

535**5**

City, State: Bloomfield, NM 87413

Job No.

2-1000

Project Name:

Gas Company of New Mexico

Project Logation:

Arnstein 1E Pit Bottom 30'

Sampled by:

DB

Date: Date: 2/28/95 Time:

3/3/95

16:00

Analyzed by: Type of: Sample: DC Soil

Laboratory Analysis

Laborator		Total Petroleum
Identifiçat	Sample Identification	Hydrocarbons
	Gas Company of New Mexico	
5355-26 93	Amstein 1E Pit Bottom 30'	52 <i>mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

. Denver Bearden

Date:

3/3/95

Company: Gas Company of New Mexico

COC No.

2693

Address: P.O. Box 1899

Sample ID:

5355

City, State: Bloomfield, NM 87413

Job No.

2-1000

Project Name:

Arnstein 1 E

Project Location:

Arnstein 1 E Pit Bottom 30'

Sampled by:-

DB

Date: Date:

2/28/95 3/2/95

Time:

16:00

Analyzed by Sample Mataix: DLA Soil

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	ND	0.2
Toluene	52.0	0.2
Ethylbenzere	ND	0.2
m,p-Xylene	120.5	0.2
m,p-Xylene o-Xylene	32.3	0.2
· · · · · · · · · · · · · · · · · · ·	TOTAL 204.9 ug/kg	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:



VOLATILE AROMATIC HYDROCARBONS

Gas Company of New Mexico

Project ID:

Pits

Report Date:

05/18/95

Sample ID:

Arnstein 1 E LF

Date Sampled:

05/15/95

Lab ID:

1002

Date Received:

05/15/95 05/15/95

Sample Matrix:

Soil Cool

Date Extracted: Date Analyzed:

05/16/95

Preservative: Condition:

Intact

Target Analyte	Concentration (ug/kg)	Detection Limit
Benzene	ND	7.68
Toluene	ND	7.68
Ethylbenzene	ND	7.68
m,p-Xylenes	ND	15.4
o-Xylene	ND	7.68

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Trifluorotoluene

98

81 -117%

Bromofluorobenzene

102

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:

mie Pho

OFF: (505) 325-5667



LAB: (505) 325-1556

TOTAL PETROLEUM HYDROCARBONS

Attn:

Shawn Adams

Date:

15-Jul-96

Company: Contract Environmental Services, Inc.

COC No.:

Job No.

4203

Address:

11505

City, State: Kirtland, NM 87417

P.O. Box 505

Sample No.

2-1000

Project Name:

Snyder Oil Corporation - Gov't Arnstein #1E

Project Location:

ARN1-E101; Backfill

Sampled by:

SA

Date: Date:

12-Jul-96 Time:

17:00

Analyzed by: Sample Matrix: HR Soil 15-Jul-96

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	<25	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	938	828 - 1024	mg/kg

Dunlication

Displacement		
I - horses - I do - difference	(% RSD)	Limit (% RSD)
Laboratory Identification	(DO NOU)	(UCH OF)
11505-4203	<0.1	15.0

Approved by: