

District I  
P.O. Box 1000, Hobbs, NM 88240

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

*Denny E. Faust*  
**DEPUTY OIL & GAS INSPECTOR**

**OCT 14 9 1996**

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  
**OIL CON. DIV.**  
DIST. 3

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

*Approved*

**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: Arnstein #1

Location: Unit: K Sec. 18 T. 31 N R. 12 W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other ☐ No ☐

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐ No ☐

Pit Location: Pit dimensions: length 12 width 12 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 80'

Direction from reference: 5 Degrees ☒ East ☐ North ☒  
of  
☐ West ☐ South ☐

**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)	<u>0</u>

**Wellhead Protection Area:**

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

Yes	(20 points)	
No	( 0 points)	<u>0</u>

**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)	<u>0</u>

**RANKING SCORE (TOTAL POINTS) :** 0

**Date Remediation Started:** 3/14/95 **Date Completed:** 3/16/95

**Remediation Method:** Excavation X **Approx. Cubic Yard** 1200  
 (Check all appropriate sections) Landfarmed X **Amount Landfarmed (cubic yds)** 1200  
 Other \_\_\_\_\_

**Remediation Location:** Onsite X Offsite \_\_\_\_\_  
 (i.e., landfarmed onsite, name and location of offsite facility)

**Backfill Material Location:** \_\_\_\_\_

**General Description of Remedial Action:**  
Excavated contaminated soil and landfarmed 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 ☒ Yes ☐ Depth \_\_\_\_\_

**Final Pit Closure Sampling:** Sample Location Pit bottom  
 (if multiple samples, attach sample result and diagram of sample locations and depths.) Sample depth 34'  
 Sample date 5/15/95 Sample time \_\_\_\_\_  
 Sample Results  
 Benzene (ppm) \_\_\_\_\_  
 Total BTEX (ppm) \_\_\_\_\_  
 Field headspace (ppm) below 100  
 TPH ND Method 418.1  
 Vertical Extent (ft) \_\_\_\_\_ Risk Assessment form attached Yes ☐ No ☒

**Ground Water Sample:** Yes ☐ No ☒ (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

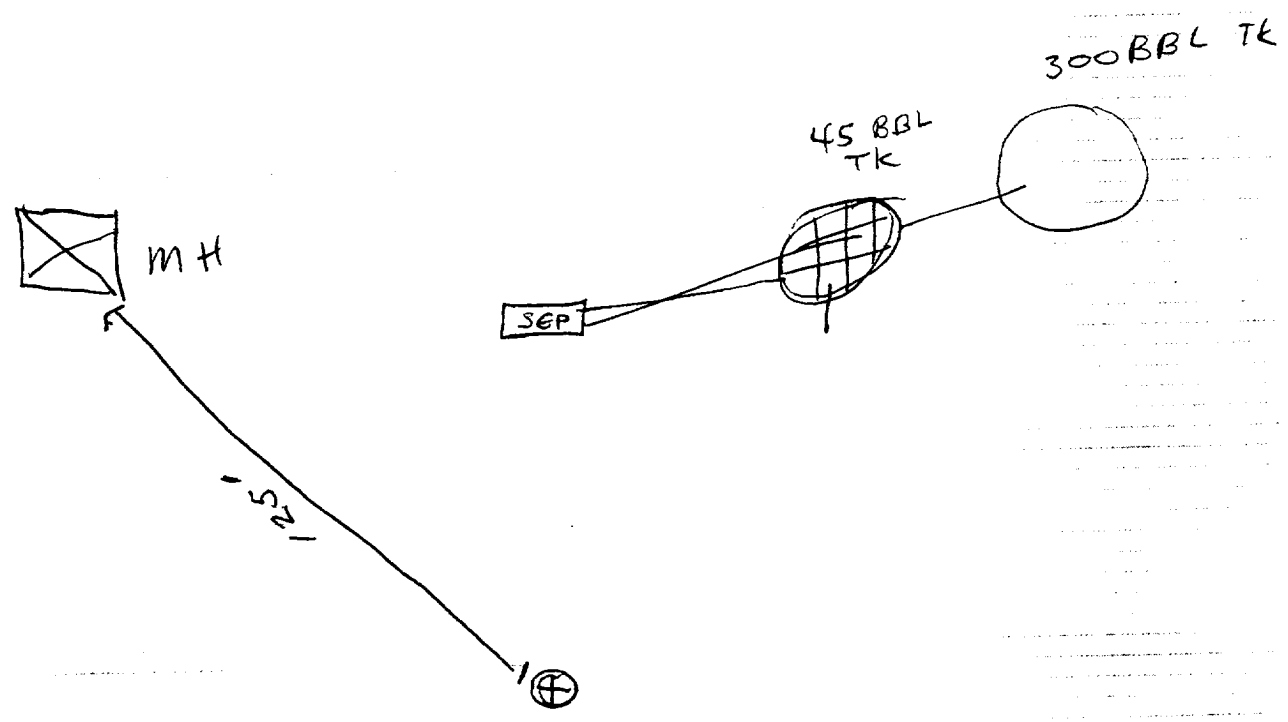
DATE 7-26-96 PRINTED NAME  
 SIGNATURE Demetrius Bearden AND TITLE

Well Name:	ARNSTON # 1-18			
Legal Description:	Sec	Twn	Rng	Unit
	18	31 N	12 W	K

Data Sheet #: 4018



NO PNM Equipment  
OR PITS ON LOCATION



LAND FARM



**TOTAL PETROLEUM HYDROCARBONS**

EPA Method 418.1

Gas Company of New Mexico

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

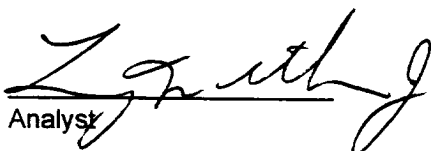
Report Date: 05/17/95  
Date Sampled: 05/15/95  
Date Received: 05/15/95  
Date Extracted: 05/16/95  
Date Analyzed: 05/16/95

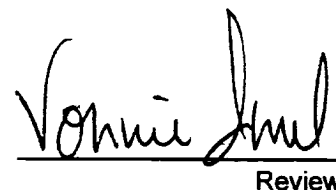
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Duke 1 M-LFS	0995	ND	25.0
Duke 1 M-Pit Bottom	0996	ND	23.4
Hale Adobe Pit 20' Bottom	0997	ND	23.7
Hale Adobe Pit Center	0998	79.4	23.9
Arnstein # 1 Pit Bottom	0999	ND	24.3
Arnstein # 1 LF	1000	ND	24.9

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	Report Date:	05/17/95
Sample ID:	Arnstein #1 LF	Date Sampled:	05/15/95
Lab ID:	1000	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	8.71
Toluene	40.9	8.71
Ethylbenzene	14.0	8.71
m,p-Xylenes	134	17.4
o-Xylene	12.0	8.71

ND - Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	103	81 -117%
	Bromofluorobenzene	106	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