District I
P O Box 1980 Hobbs NM

DEPUTY OIL & GAS DIRECTOR

District II
P O Drawer DD Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec NM 87410 MAR 2 8 1997

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: PNM Gas Services (SRC   ) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Cain #9E

Location: Unit: D   Sec. 16   T. 28 N   R. 10 W   County San Juan

Pit Type: Separator ✔   Dehydrator ___   Other _____

Land Type: BLM ✔   State ___   Fee ___   Other _____

Pit Location: Pit dimensions: length 15 '   width 15 '   depth 3 '

(Attach diagram)   Reference: wellhead ✔   other _____

Footage from reference: 78'

Direction from reference: 20   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) 0

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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) 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) 0

RANKING SCORE   (TOTAL POINTS) :   0

Date Remediation Started: 9/3/96   **Date Completed:** 9/6/96

Remediation Method: Excavation   X   **Approx. Cubic Yard** 346

(Check all appropriate sections)   Landfarmed   X   **Amount Landfarmed (cubic yds)** 346

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 to pit size of 22'x25'x17' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing/disking until soil met regulatory levels.

Ground Water Encountered: No ✓   Yes   Depth

Final Pit Closure Sampling: Sample Location   5 pt composite-4 side walls and center of pit bottom

(if multiple samples, attach sample result and diagram of sample locations and depths.)   Sample depth   17'

Sample date   9/3/96   Sample time   3:15:00 PM

Sample Results

Benzene (ppm)   0.1071

Total BTEX (ppm)   4.4815

Field headspace (ppm)

TPH   <   5.0   Method   8015A

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
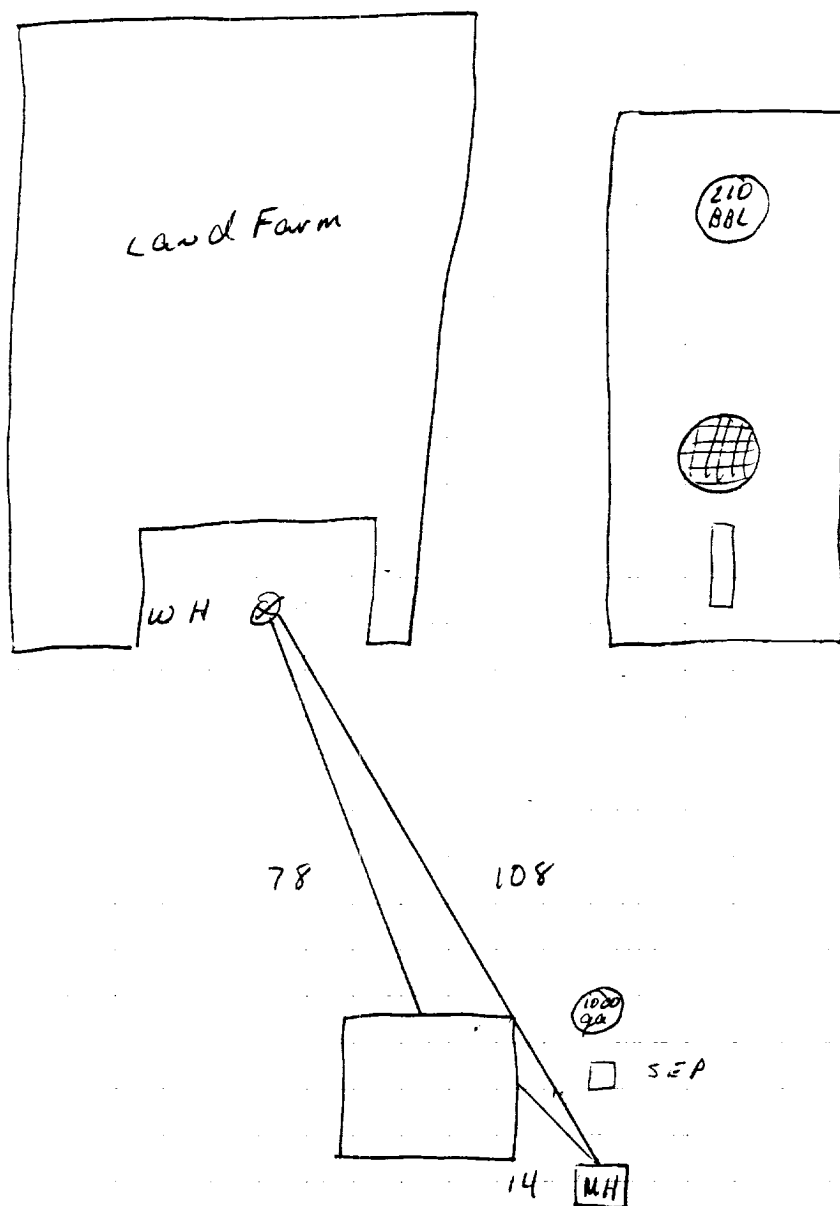
DATE   January 22, 1997   PRINTED NAME   Denver Bearden

SIGNATURE   *Denver Bearden*   AND TITLE   Administrator III

cain # 9E

N

Land Farm

W H

210 BBL

1000 ga

SEP

78   108

14   MH

ON SITE TECHNOLOGIES, LTD.

OFF: (505) 325-5667   LAB: (505) 325-1556

Diesel Range Organics

Attn: Denver Bearden   Date: 6-Sep-96
Company: PNM Gas Services   COC No.:   4745
Address: 603 W. Elm   Sample No.   11985
City, State: Farmington, NM 87401   Job No.   2-1000

Project Name: **PNM Gas Sevices - Cain 9E**
Project Location: **9609031515; Pit Excavation Composite Sample**
Sampled by: RH   Date: 3-Sep-96 Time: 15:15
Analyzed by: HR/DC   Date: 5-Sep-96
Sample Matrix: Soil

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.:   0489-QC

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	100	104	4.3	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	98	114	(70-130)	11	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: _____
Date: 9/7/96

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TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Denver Bearden*		Date:	6-Sep-96
Company:	*PNM Gas Services*		COC No.:	*4745*
Address:	*603 W. Elm*		Sample No.	*11985*
City, State:	*Farmington, NM 87401*		Job No.	*2-1000*

Project Name:	**PNM Gas Sevices - Cain 9E**			
Project Location:	**9609031515; Pit Excavation Composite Sample**			
Sampled by:	RH	Date:	3-Sep-96 Time:	15:15
Analyzed by:	DC	Date:	5-Sep-96	
Sample Matrix:	*Soil*			

Laboratory Analysis

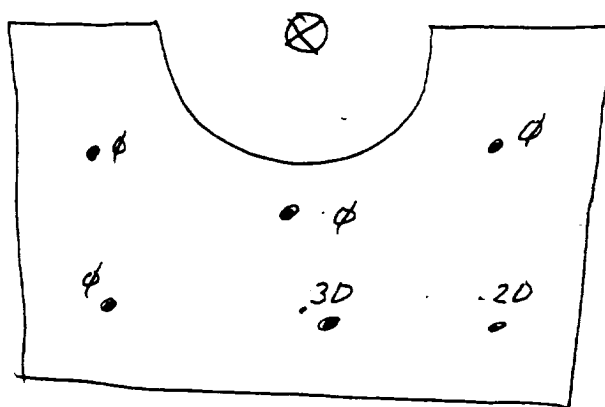| Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	107.1	ug/kg	0.2	ug/kg
Toluene	1099.3	ug/kg	0.2	ug/kg
Ethylbenzene	199.8	ug/kg	0.2	ug/kg
m,p-Xylene	2518.4	ug/kg	0.2	ug/kg
o-Xylene	557.0	ug/kg	0.2	ug/kg
TOTAL	4481.5	ug/kg		

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

Approved by:

Date: 9/7/56

Cain #9E   10-1-96
Meridian Oil
Sec. 16, 28N, 10W

        Land farm : On location
        Composite sample # 9610011245
        Soil vapor head space PID reading = 11.2 ppm

                              ⊗
                         • ϕ   • ϕ

                       • ϕ

                    ϕ•   .30   .20
                          •   •   •

                                          2"-12" depth

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TECHNOLOGIES, LTD.

OFF: (505) 325-5667　　　　　　　　　　　　　　　　　　　　　　LAB: (505) 325-1556

Diesel Range Organics

Attn:	Denver Bearden	Date:	3-Oct-96
Company:	PNM Gas Services	COC No.:	5077
Address:	603 W. Elm	Sample No.	12401
City, State:	Farmington, NM 87401	Job No.	2-1000

Project Name: **PNM Gas Services - Cain #9E Landfarm**
Project Location: **9610011245; 6pt. Composite, 2"-12" depth**
Sampled by: GC　　　　　Date:　1-Oct-96 Time:　　　12:45
Analyzed by: DC/HR　　　Date:　3-Oct-96
Sample Matrix: Soil

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.:　　0489-QC

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	100	110	9.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	99	100	(70-130)	1	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:
Date: 10/3/96

P.O. BOX 2606 • FARMINGTON, NM 87499

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