

District I
P O Box 1980 Hobbs, NM

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

FEB 26 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

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

Approved
PIT REMEDIATION AND CLOSURE REPORT

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Breach C #141

Location: Unit D Sec 12 T 26 N R 6 W County Rio Arriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 80'

Direction from reference: 75 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)	<u>0</u>

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

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>

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DIST. 3

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)	<u>0</u>

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

RANKING SCORE (TOTAL POINTS): 0

Breach C #141

Date Remediation Started: 9/8/97 Date Completed: 9/8/97

Remediation Method: Excavation X Approx. Cubic Yard 266

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 266

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 a pit size of 20' x 20' X 18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Ground Water Encountered: No ✓ Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location Center of pit bottom.

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

Sample depth 20'

Sample date 9/8/97 Sample time 10:00:00 AM

Sample Results

Benzene (ppm) < 0.2000

Total BTEX (ppm) 18.2460

Field headspace (ppm) _____

TPH (ppm) 505.00 Method 8015A

Vertical Extent (ft) _____ Risk Assessment form attached Yes _____ No _____

Ground Water Sample: Yes _____ No ✓ (If yes, see attached Groundwater Site Summary Report)

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

DATE October 27, 1997

SIGNATURE

Denver Bearden

PRINTED NAME
AND TITLE

**Denver Bearden
Administrator III**

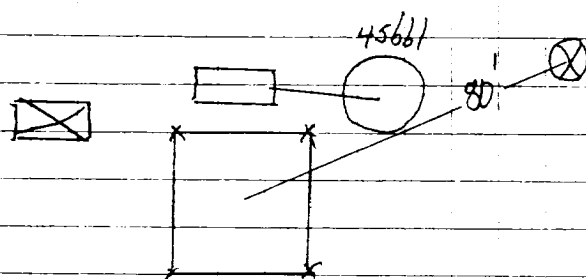
Breech C#141

9-8-97

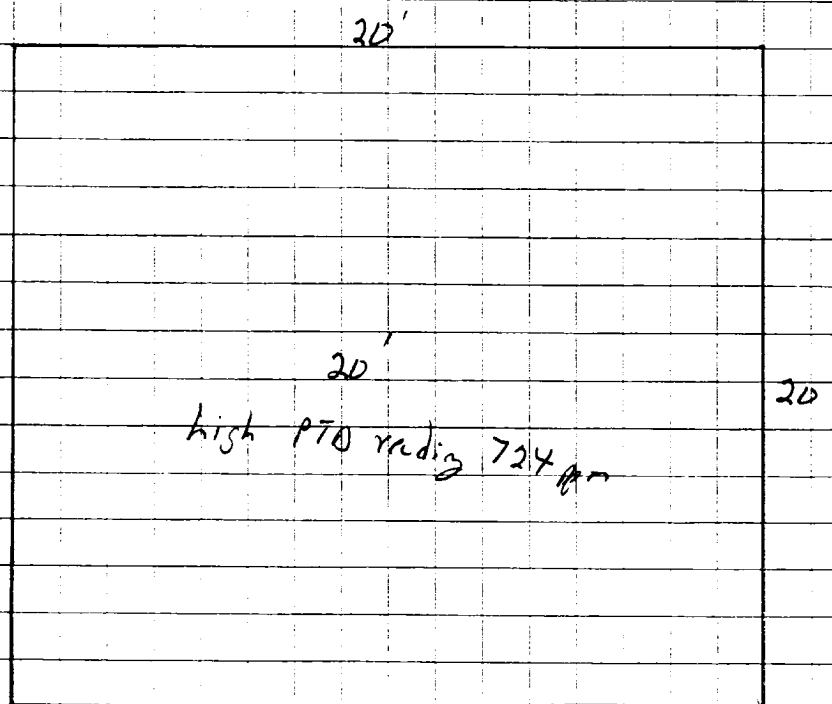
Can/Kins Oil

Sec. 12, 26N, 6W, D

start of excavation:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *16-Sep-97*
COC No.: *5999*
Sample No.: *16087*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech C #141*
Project Location: *9709081000; Bottom @ 20'*
Sampled by: *GC* Date: *8-Sep-97* Time: *10:00*
Analyzed by: *DC/HR* Date: *15-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	505	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	197	1.5	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	100	94	(70-130)	6	20%

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

Approved by: *[Signature]*
Date: *9/16/97*

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- TECHNICAL BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *17-Sep-97*
COC No.: *5999*
Sample No.: *16087*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech C #141*

Project Location: *9709081000; Bottom @ 20'*

Sampled by: GC Date: *8-Sep-97* Time: *10:00*

Analyzed by: DC Date: *11-Sep-97*


Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	200	ug/kg
<i>Toluene</i>	3713	ug/kg	200	ug/kg
<i>Ethylbenzene</i>	1599	ug/kg	200	ug/kg
<i>m,p-Xylene</i>	9717	ug/kg	200	ug/kg
<i>o-Xylene</i>	3217	ug/kg	200	ug/kg
	<i>TOTAL</i>	18246	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Approved by: 
Date: *9/17/97*

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *16-Sep-97*
COC No.: *5999*
Sample No.: *16088*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech C #141*
Project Location: *9709081100; Walls @ 16'*
Sampled by: *GC*
Analyzed by: *DC/HR*
Sample Matrix: *Soil*

Date: *8-Sep-97* Time: *11:00*
Date: *15-Sep-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	501	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	197	1.5	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	100	94	(70-130)	6	20%

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

Approved by: *[Signature]*
Date: *9/16/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *17-Sep-97*
COC No.: *5999*
Sample No.: *16088*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech C #141*

Project Location: *9709081100; Walls @ 16'*

Sampled by: *GC* Date: *8-Sep-97* Time: *11:00*

Analyzed by: *DC* Date: *11-Sep-97*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	22	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	46	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	280	ug/kg	1	ug/kg
<i>o-Xylene</i>	92	ug/kg	1	ug/kg
	<i>TOTAL</i>	440		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *9/17/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

↑
N

9-24-97 - @ 0915

soil #141

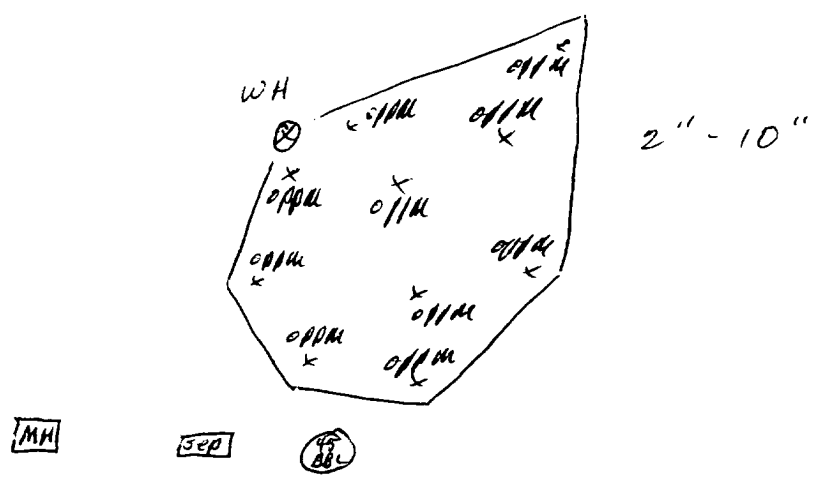
Caulkins

(D) 12-26N-6W

Rio Arriba

Sample # 4709240915

landfarm field headspace - 7 ppm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *30-Sep-97*
COC No.: *5674*
Sample No.: *16313*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Breech #141 Landfarm*

Project Location: *9709240915; Composite*

Sampled by: *RH* Date: *24-Sep-97* Time: *9:15*

Analyzed by: *HR/DC* Date: *29-Sep-97*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>1700</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>182</i>	<i>9.4</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>98</i>	<i>(70-130)</i>	<i>9</i>	<i>20%</i>

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

Approved by: *[Signature]*
Date: *9/30/97*

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