

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

*Risk Vertical  
2-1-10  
sandstone  
30'*

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

**PIT REMEDIATION AND CLOSURE REPORT**

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: State A Gas Com #1

Location: Unit G Sec 36 T 29N R 11W County San Juan

Pit Type: Separator ☐ Dehydrator ☒ Other                     

Land Type: BLM ☒ State ☐ Fee ☐ Other                     

Pit Location: Pit dimensions: length 12' width 12' depth 1'

(Attach diagram) Reference: wellhead ☒ other                     

Footage from reference: 324'

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

<b>Depth to Ground Water:</b>	Less than 50 feet	(20 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	<u>0</u>

<b>Wellhead Protection Area:</b>	Yes	(20 points)	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	No	(0 points)	<u>0</u>

<b>Distance to Surface Water:</b>	Less than 200 feet	(20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	(0 points)	<u>0</u>

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

RECEIVED  
JAN 31 2000  
OIL CON. DIV.  
DIST. 3

State A Gas Com #1

Date Remediation Started: 06/29/1999

Date Completed: 06/29/1999

Remediation Method:

Excavation ☒

Approx. Cubic Yard 500

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 450

Other 50 cu yds clean overburden.

Remediation Location:

Onsite ☒

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 27' X 25' X 20' 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.

\*\*\* Vertical extent drilling conducted to 30' (auger refusal due to sandstone at 30'). See attached risk analysis form.

Ground Water Encountered:

No ☒

Yes ☐

Depth

Final Pit Closure Sampling:

Sample Location 5 pt composite-bottom

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

Sample depth 20'

Sample date 06/29/1999

Sample time 12:42:00 PM

Sample Results

Benzene (ppm) 34 \*\*\*

Total BTEX (ppm) 1019 \*\*\*

Field headspace (ppm)

TPH (ppm) 190.00 \*\*\* Method 8015B

Vertical Extent (ft) 30'

Risk Analysis 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 January 24, 2000

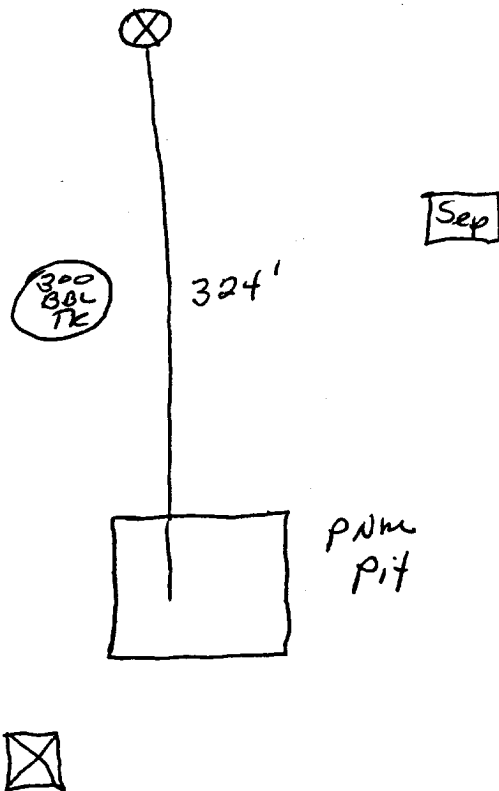
SIGNATURE



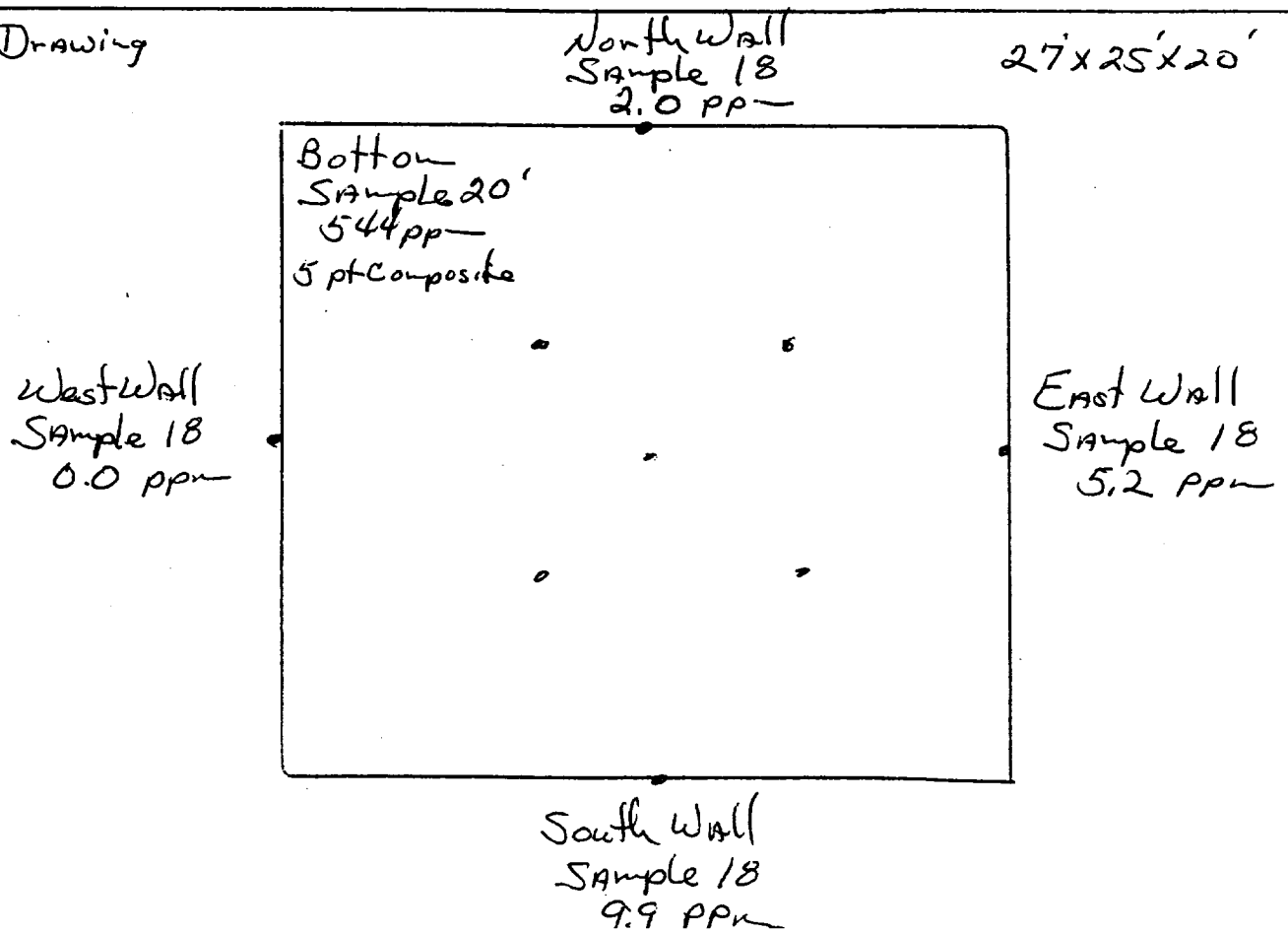
PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

STATE 14 Gas Com 1  
Sec. 36 T29N R11W Unit G  
Conoco

## Site Drawing



## Excavation Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 15-Jul-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9906082

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**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 15-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	State A Gas Com 1
<b>Work Order:</b>	9906082	<b>Client Sample ID:</b>	9906291242; 5pt. Bottom Comp
<b>Lab ID:</b>	9906082-05A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	6/29/99 12:42:00 PM
		<b>COC Record:</b>	7483

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>						
		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	190	25		mg/Kg	1	7/12/99
<b>AROMATIC VOLATILES BY GC/PID</b>						
		<b>SW8021B</b>				Analyst: DM
Benzene	34000	5000		µg/Kg	5000	7/1/99
Toluene	570000	10000		µg/Kg	5000	7/1/99
Ethylbenzene	36000	5000		µg/Kg	5000	7/1/99
m,p-Xylene	320000	10000		µg/Kg	5000	7/1/99
o-Xylene	59000	5000		µg/Kg	5000	7/1/99

1019 000  
1019 ppm

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 15-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	State A Gas Com 1
<b>Work Order:</b>	9906082	<b>Client Sample ID:</b>	9906291240; 4pt. Wall Comp
<b>Lab ID:</b>	9906082-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	6/29/99 12:40:00 PM
		<b>COC Record:</b>	7483

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/12/99

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

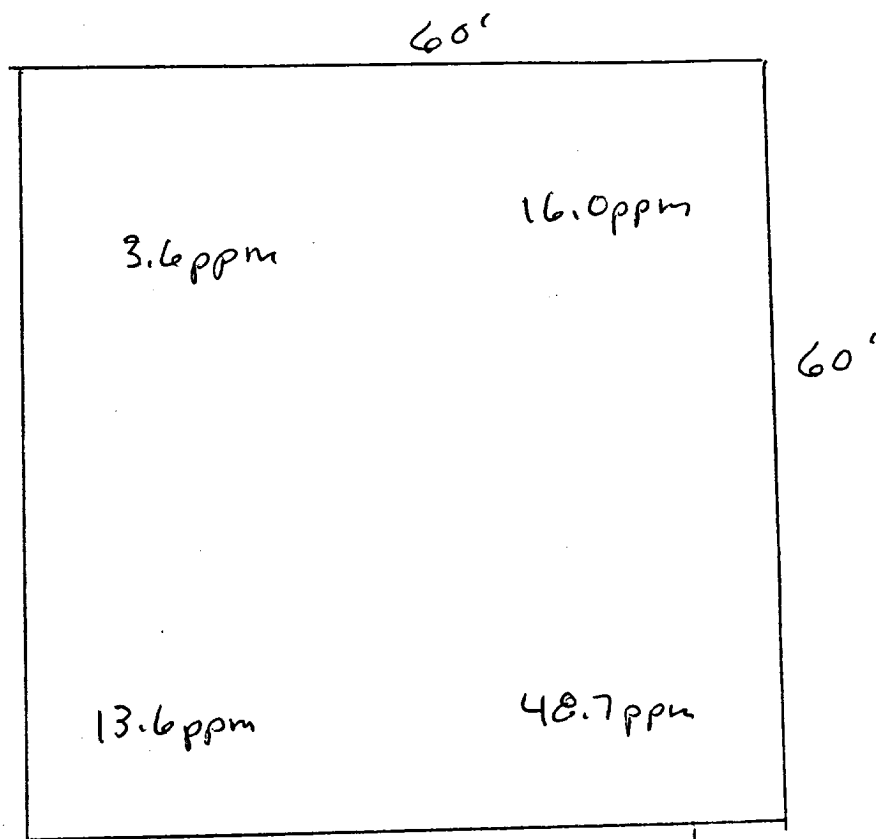
1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

State H Gas Com 1  
Sec. 36 T29N R11W Unit G  
Conoco

# Land farm Drawing

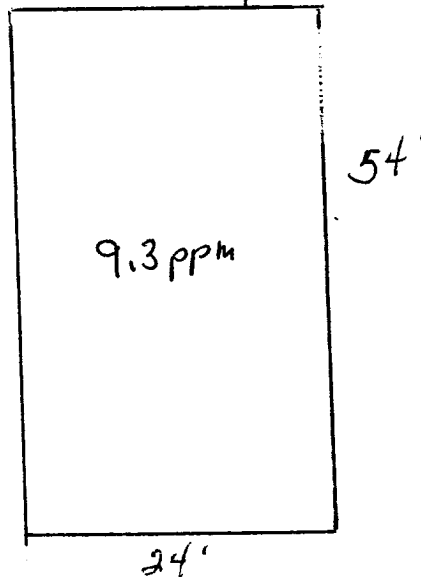


33'



320'

2" to 12" Depth  
Headspace 50.0 ppm  
Sample # 990728 1227



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 04-Aug-99

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**CLIENT:** PNM - Public Service Company of NM

**Project:** PNM Pit Remediation Landfarms

**Lab Order:** 9907063

**CASE NARRATIVE**

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 04-Aug-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	State A Gas Com #1 LF
<b>Work Order:</b>	9907063	<b>Client Sample ID:</b>	9907281227; 5pt. Composite
<b>Lab ID:</b>	9907063-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation Landfarms	<b>Collection Date:</b>	7/28/99 12:27:00 PM
		<b>COC Record:</b>	7738

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	54	25		mg/Kg	1	8/3/99

**Qualifiers:**

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 13-Oct-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Vertical Extent Drilling  
**Lab Order:** 9909084

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**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

# ANALYTICAL REPORT

Date: 13-Oct-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	State A Gas Com #1
<b>Work Order:</b>	9909084	<b>Client Sample ID:</b>	9909291415 @ 30ft.
<b>Lab ID:</b>	9909084-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Vertical Extent Drilling	<b>Collection Date:</b>	09/29/1999 2:15:00 PM
		<b>COC Record:</b>	7765

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	37	25		mg/Kg	1	10/06/1999
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DM
Benzene	6700	500		µg/Kg	500	10/04/1999
Toluene	63000	1000		µg/Kg	500	10/04/1999
Ethylbenzene	5400	500		µg/Kg	500	10/04/1999
m,p-Xylene	63000	1000		µg/Kg	500	10/04/1999
o-Xylene	7900	500		µg/Kg	500	10/04/1999

146000  
146.000 ppm

<b>Qualifiers:</b>	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

# RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2282 FAX (505) 326-2388

Borehole # 1

Well # 1

Page 1 of 1

Project Name PNM VERTICAL EXTENT

Project Number 62800044 Phase 35

Project Location STATE AGAS COM #1

Elevation                     

Borehole Location                     

GWL Depth NONE ENCOUNTERED

Logged By C. CULLICOTT

Drilled By K. PADILLA & D. PADILLA

Date/Time Started 9/29/99 1:45pm

Date/Time Completed 9/29/99 2:30

Well Logged By C. CULLICOTT

Personnel On-Site K. PADILLA & D. PADILLA

Contractors On-Site X

Client Personnel On-Site GARY COOK

Drilling Method AUGER

Air Monitoring Method PID

Depth (Feet)	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH S	Drilling Conditions & Blow Counts
0			↑ 0-20' CLEAN FILL ↓				
20	① 20'-22'		① FULL RECOVERY LOOSE FINE TO MEDIUM SAND, POSSIBLY TAN GREY ORIGINALLY, NOW PERVASIVELY BLACK STAINED W/STRONG ODOR				① 34 BLOWS SS 478 ppm HS 385 ppm
25	② 25'-26 1/2'		② 12" RECOVERY BROWN SILT W/SCATTERED SAND - STRONG ODOR				② 22 BLOWS SS 387 ppm HS 296 ppm
30	③ 30'-32'		③ SPLIT SPOON REFUSAL AFTER ~35 BLOWS. 6" RECOVERY. UPPER 5" LOOSE, MOSTLY COARSE LIGHT TAN SAND W/STRONG ODOR. REST IS CHUNKS OF WELL CEMENTED SANDSTONE				③ 40+ BLOWS SS 417 ppm HS - ppm

Comments:

SUNNY, WARM, LIGHT BREEZE  
HOLE BACK FILLED WITH CUTTINGS  
T.D. 32' REFUSAL ON SANDSTONE

Geologist Signature

Cathy Cullicott



## Environmental Services

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Well Name:	State A Gas Com #1
Well Legals:	Unit G, Sec 36, T29N, R11W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Greater than 100 feet

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### **RISK ANALYSIS**

PNM requests closure of their former pit on the State A Gas Com #1 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 195 feet based upon the elevation of the site and the elevation of the San Juan River. (Reference: Bloomfield, NM series 7.5 minute topographic map.)
2. Distance from the site to surface water is greater than 1,000 ft.
3. PNM excavated 500 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Sandstone was encountered at 30' below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the State A Gas Com #1 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.