

Denny E. Faust  
DEPUTY OIL & GAS INSPECTOR

District II  
P.O. Drawer DD, Aztec, 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

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

DEC 17 1998

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED  
JUL 31 1998

OIL CON. DIV.  
DIST. 3

Operator: PNM Gas Services ( Williams ) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Largo Spur A #1 Drip  
Location: Unit L Sec 19 T 24 N R 6 W County Rio Arriba  
Pit Type: Separator ☐ Dehydrator ☐ Other ☐ Drip ☐  
Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 25 ' width 25 ' depth 3 '  
(Attach diagram) Reference: wellhead ☒ other ☐  
Footage from reference: 275'  
Direction from reference: 5 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) 0

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

Wellhead Protection Area: Yes (20 points)  
No ( 0 points) 0

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

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) 0

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

RANKING SCORE (TOTAL POINTS): 0

Largo Spur A #1 Drip

Date Remediation Started: 10/28/97

Date Completed: 10/28/97

Remediation Method: Excavation X

Approx. Cubic Yard 240

(Check all appropriate sections)

Landfarmed X

Amount Landfarmed (cubic yds) 240

Other \_\_\_\_\_

Remediation Location:

Onsite X - Pipeline right of way. 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 20' X 18' X 18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing until soil met regulatory levels.

Ground Water Encountered: No ☒ Yes ☐ Depth \_\_\_\_\_

Final Pit Closure Sampling:

Sample Location Bottom of excavation.

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

Sample depth 18'

Sample date 10/28/97 Sample time 11:00:00 AM

Sample Results

Benzene (ppm) < 0.0250

Total BTEX (ppm) 1.6970

Field headspace (ppm) \_\_\_\_\_

TPH (ppm) < 5.00 Method 8015A

Vertical Extent (ft) \_\_\_\_\_ 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 July 27, 1998

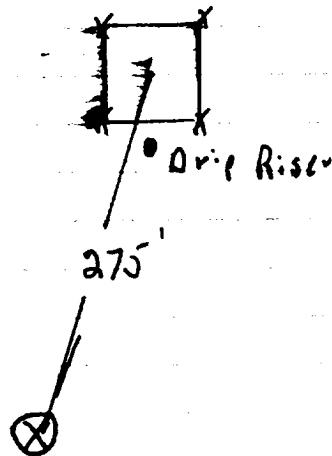
SIGNATURE Mary Cook

PRINTED NAME Gary Cook  
AND TITLE Environmental Technician III

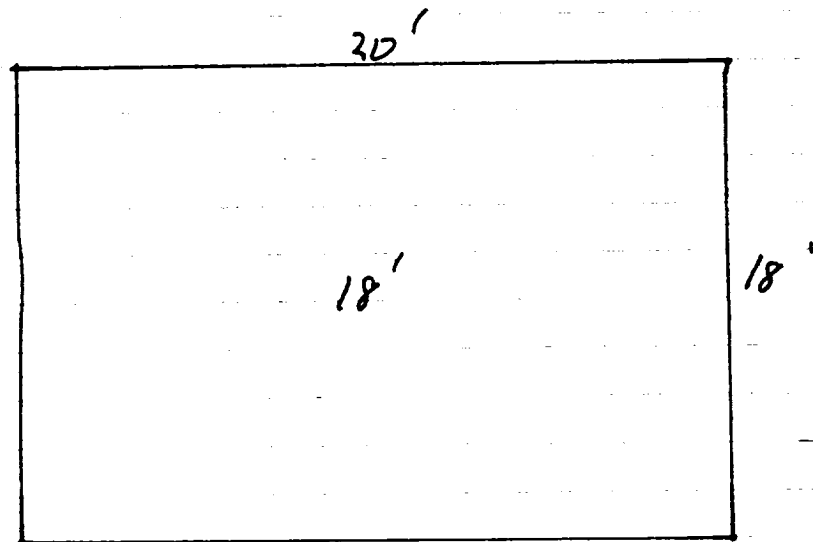
Largo Spur A#1 Drip  
Williams Field Services  
Sec. 19, 24N, 6W

10/28/97

Start of excavation:



End of excavation:



● Drip

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: *31-Oct-97*  
COC No.: *5839*  
Sample No.: *16684*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Largo Spur A#1 Drip*

Project Location: *9710281100; Bottom @ 18'*

Sampled by: *GC* Date: *28-Oct-97* Time: *11:00*

Analyzed by: *DC/HR* Date: *30-Oct-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>	ND	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	201	0.4	15%

### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	80	93	(70-130)	12	20%

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

Approved by: *JAC*

Date: *10/31/97*

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- Test results are valid only when used with the Environmental -

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

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Address: *603 W. Elm*  
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Project Location: *9710281100; Bottom @ 18'*

Sampled by: GC Date: *28-Oct-97* Time: *11:00*

Analyzed by: DC Date: *30-Oct-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	25	ug/kg
<i>Toluene</i>	317	ug/kg	25	ug/kg
<i>Ethylbenzene</i>	108	ug/kg	25	ug/kg
<i>m,p-Xylene</i>	975	ug/kg	25	ug/kg
<i>o-Xylene</i>	298	ug/kg	25	ug/kg
	<i>TOTAL</i>	1697	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: *10/31/97*

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- This report was prepared by the Environmental Engineering Department -

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: *31-Oct-97*  
COC No.: *5839*  
Sample No.: *16685*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Largo Spur A#1 Drip*

Project Location: *9710281105; Walls @ 16'*

Sampled by: *GC* Date: *28-Oct-97* Time: *11:05*

Analyzed by: *DC/HR* Date: *30-Oct-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>	ND	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	201	0.4	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	80	93	(70-130)	12	20%

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

Approved by: *[Signature]*  
Date: *10/31/97*

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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: *31-Oct-97*  
COC No.: *5839*  
Sample No.: *16685*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Largo Spur A#1 Drip*

Project Location: *9710281105; Walls @ 16'*

Sampled by: GC Date: *28-Oct-97* Time: *11:05*

Analyzed by: DC Date: *29-Oct-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	5	ug/kg
<i>Toluene</i>	44	ug/kg	5	ug/kg
<i>Ethylbenzene</i>	24	ug/kg	5	ug/kg
<i>m,p-Xylene</i>	72	ug/kg	5	ug/kg
<i>o-Xylene</i>	25	ug/kg	5	ug/kg
	<i>TOTAL</i>	165	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Approved by: *DC*

Date: *10/31/97*

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Largo Spur #1A Drip Landfarm  
Williams

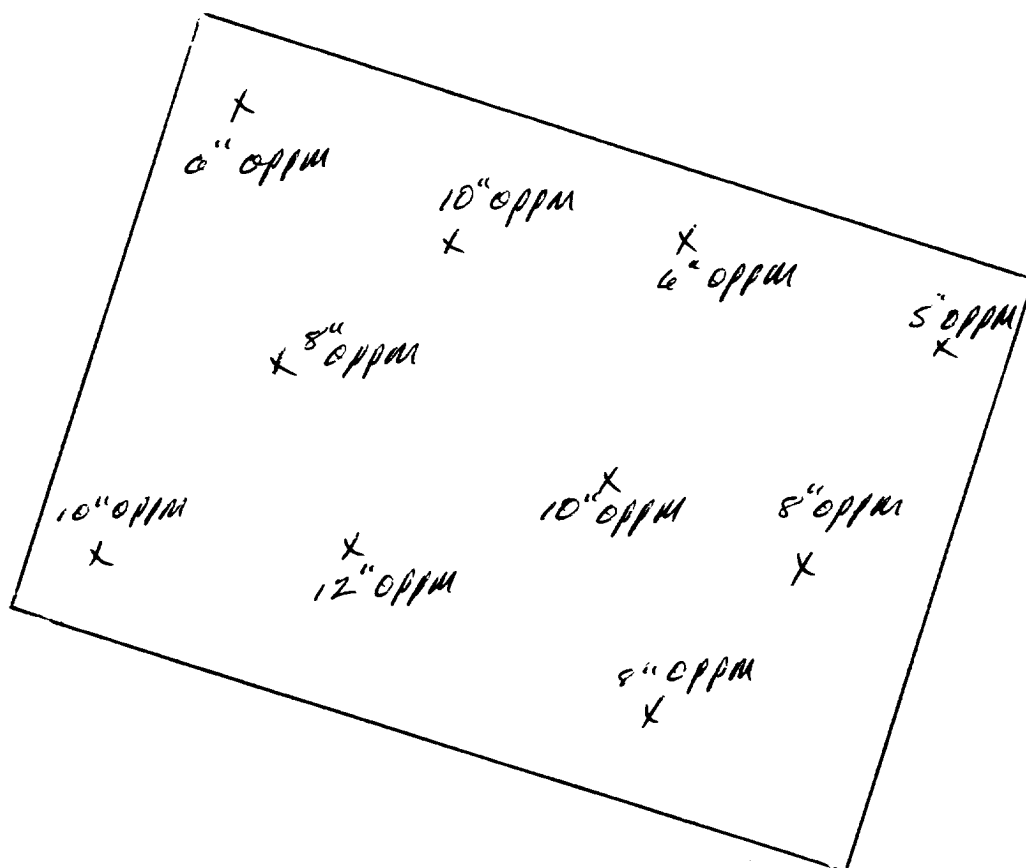
E-14-24N-6W

Lab Sample # - 9805130845

Field Headspace - ppm



5" to 12"





OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 20-May-98

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

**Project:** Landfarms

**Lab Order:** 9805040

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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



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## ANALYTICAL REPORT

Date: 20-May-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Largo Spur 1A Drip
<b>Work Order:</b>	9805040	<b>Client Sample ID:</b>	9805130845; Landfarm
<b>Lab ID:</b>	9805040-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Landfarms	<b>Collection Date:</b>	5/13/98 8:45:00 AM
		<b>COC Record:</b>	5219

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	36	25		mg/Kg	1	5/18/98

**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

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- TECHNOLOGY SERVING THE ENVIRONMENT WITH THE HIGHEST QUALITY