

*Denny E. Foust*  
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE

JUN 23 1998

P.O. BOX 507  
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

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: Jicarilla A-6

Location: Unit: H Sec. 24 T. 26 N R. 4 W County Rio Arriba

Pit Type: Separator X Dehydrator      Other     

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 60' width 43' depth 5'

(Attach diagram) Reference: wellhead X other     

Footage from reference: 60'

Direction from reference: 45 Degrees      East      North       
     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) 0  
Greater than 100 feet (0 points)     

**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) 0  
No (0 points)     

**Distance to Surface Water:**

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

**RECEIVED**  
FEB - 3 1998  
**OIL CON. DIV.**  
DIST. 2

Less than 200 feet (20 points)  
200 feet to 1,000 feet (10 points) 0  
Greater than 1,000 feet (0 points)     

**Distance to Ephemeral Stream (dry wash):**

(Horizontal distance to all downgradient streams having a width of at least 10 feet)

Less than or equal to 100 feet (10 points)  
Greater than 100 feet (0 points) 0

**Distance to Nearest Lake, Playa, or Watering Pond:**

(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)

Less than or equal to 100 feet (10 points)  
Greater than 100 feet (0 points) 0

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

Date Remediation Started: 8/18/97 Date Completed: 9/24/97

Remediation Method: Excavation X Approx. Cubic Yards 478

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 478

Other \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_

(i.e., landfarmed onsite, name and location of offsite facility)

**General Description of Remedial Action:**

Removed contaminated soil from all four side walls  
as to get a below 100 ppm head space reading.  
Bottom is rock.

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

**Final Pit Closure Sampling:**

Sample Location North, East, South and West  
side walls

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

Sample depth 4'

Sample date 8/19/97 Sample time 1112

**Sample Results**

Soil: Benzene (ppm) ND Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 0.163 Toluene (ppb) \_\_\_\_\_

Field headspace (ppm) 97.8 Ethylbenzene (ppb) \_\_\_\_\_

TPH ND ppm Method GC/MS Total Xylenes (ppb) \_\_\_\_\_

Ground Water Sample: Yes \_\_\_\_\_ No X (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 8/28/97 PRINTED NAME Ronald A. Dedrick

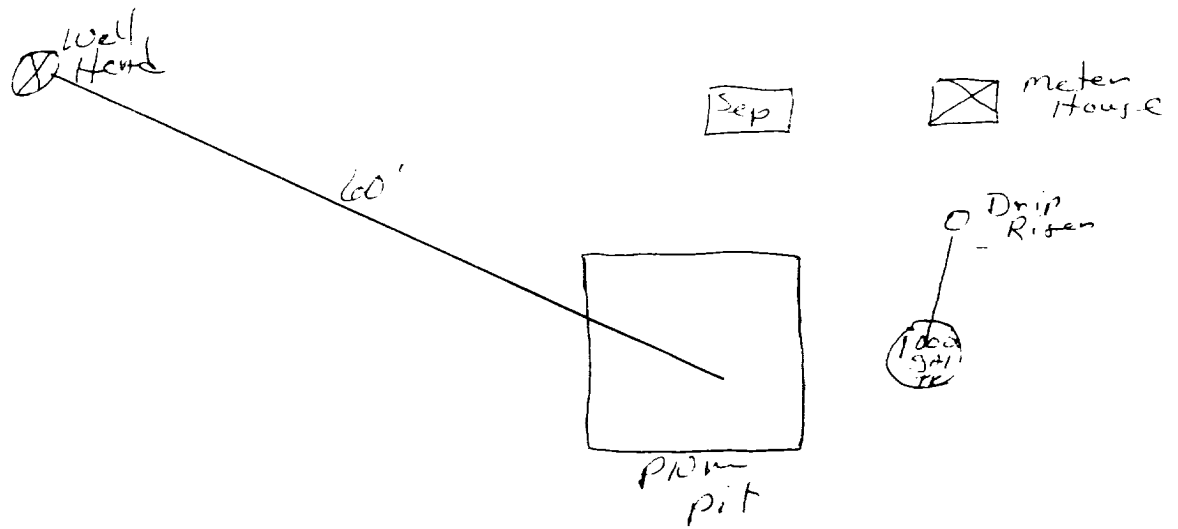
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO \_\_\_\_\_ (REASON): spray & close

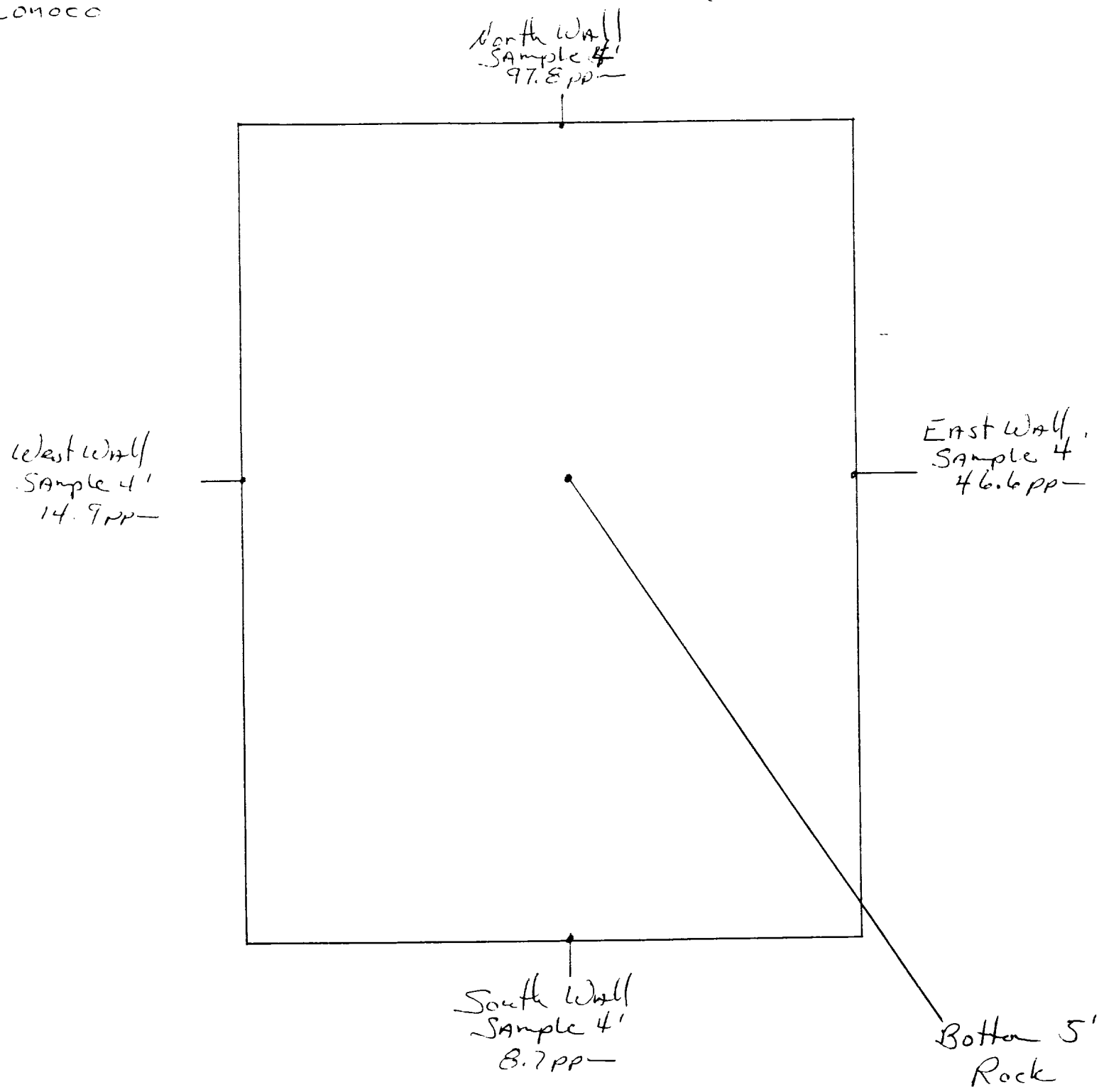
SIGNED: Kenn C. Mammill DATE: 9-3-97

Jicarilla H-6  
Sec. 24 T26N R4W Unit H  
Conoco



Jicarilla H-6  
Sec 24 T26N R4W Unit H  
Conoco

60' x 4.3' x 5'



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: *28-Aug-97*  
COC No.: *5549*  
Sample No.: *15871*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-6*  
Project Location: *9708191112; 4pt. Composite*  
Sampled by: *TN* Date: *19-Aug-97* Time: *11:12*  
Analyzed by: *HR/DC* Date: *27-Aug-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.: 0548-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	198	1.0	15%

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	85	84	(70-130)	2	20%

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

Approved by: *[Signature]*  
Date: *8/28/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- 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: *28-Aug-97*  
COC No.: *5549*  
Sample No.: *15871*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-6*  
Project Location: *9708191112; 4pt. Composite*  
Sampled by: *TN* Date: *19-Aug-97* Time: *11:12*  
Analyzed by: *DC* Date: *26-Aug-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>	3	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	21	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	118	ug/kg	1	ug/kg
<i>o-Xylene</i>	21	ug/kg	1	ug/kg
	<i>TOTAL</i>	163		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: *8/28/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

JICARILLA APACHE TRIBE  
ENVIRONMENTAL  
PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Cenoco) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Jicarilla A-6  
Location: Unit: H Sec. 24 T. 26 N R. 4 W County Rio Arriba  
Land Type: Jicarilla Apache

Date Remediation Started: 8/18/97 Date Completed: 9/5/97  
Remediation Method: Landfirmed X Approx. cubic yards 478  
Composted  
Other

Depth to Ground Water: (pts.) 6  
Distance to an Ephemeral Stream: (pts.) 6  
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 6  
Wellhead Protection Area: (pts.) 6  
Distance to Surface Water: (pts.) 6  
Ranking Score (Total Points): 6

Final Closure Sampling:

Sampling Date: 9/4/97 Time 0950  
Sampling Results: 50.1  
Field Headspace (ppm) 32.7 RAD  
TPH (ppm) 30 Method 805  
Other

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

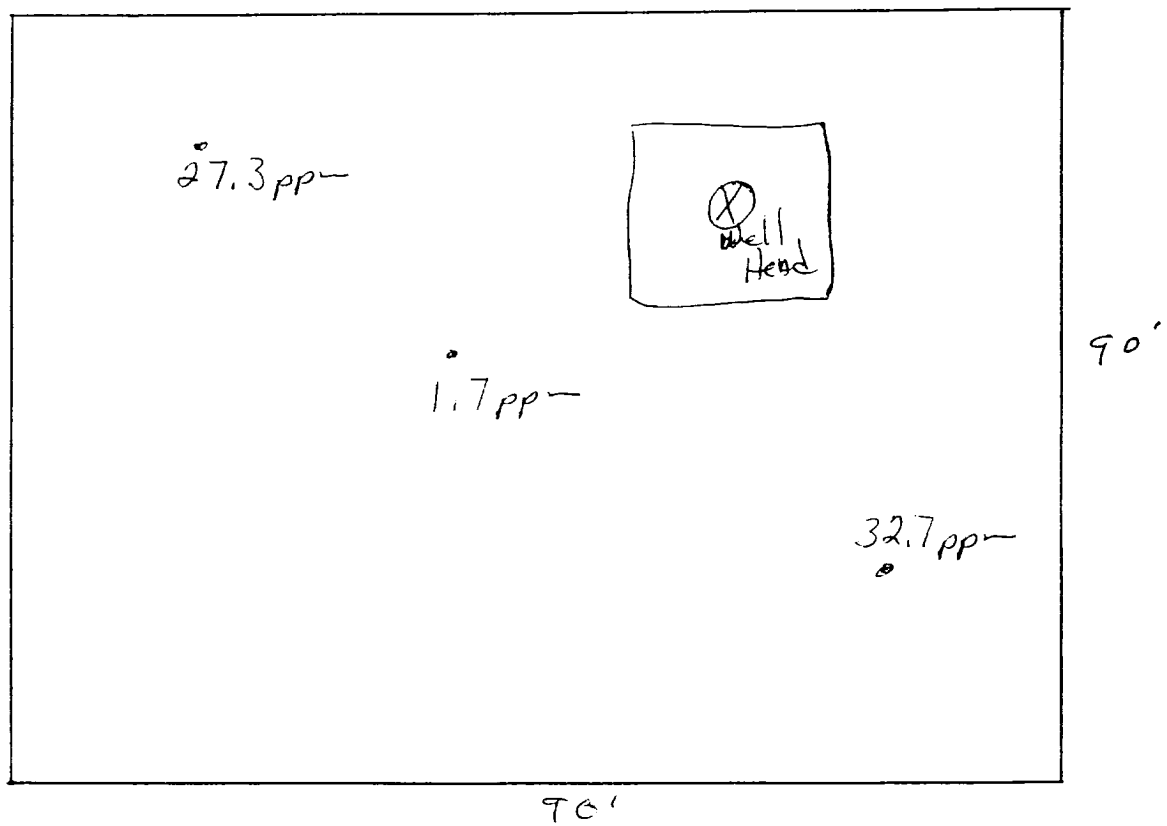
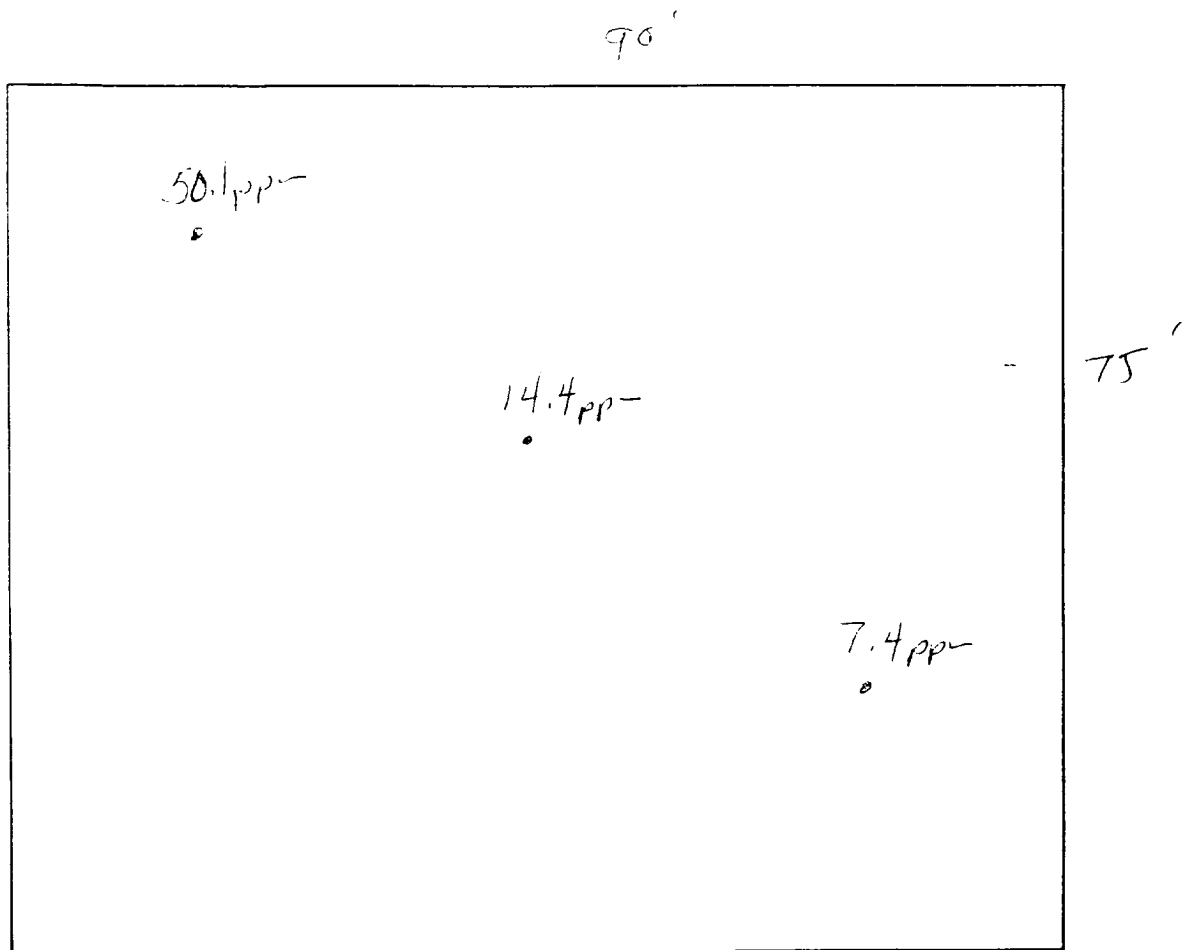
DATE 9/11/97 PRINTED NAME Ronald A. Dedrick  
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES X NO (REASON) use as Backfill  
SIGNED: Kevin C. Mann DATE: 9-18-97

JICAR 14 H-6  
Sec. 14 T26N R4W Unit H  
Conoco

Land farm





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: *9-Sep-97*  
COC No.: *5578*  
Sample No.: *16051*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla A-6 Landfarm***

Project Location: ***9709040950; 6pt. Composite***

Sampled by: *RB* Date: *4-Sep-97* Time: *9:50*

Analyzed by: *DC/HR* Date: *8-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>30</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>206</i>	<i>2.7</i>	<i>15%</i>

#### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>95</i>	<i>85</i>	<i>(70-130)</i>	<i>10</i>	<i>20%</i>

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

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -