

Denny E. Faust  
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO  
NATURAL  
RESOURCE DEPT  
AND OIL GAS  
ADMINISTRATION

JUN 23 1998

P.O. BOX 507  
MULLEN, NEW MEXICO 87528

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-15

Location: Unit: J Sec. 14 T. 26 N R. 4 W County Rio Arriba

Pit Type: Separator XX Dehydrator      Other     

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 31' width 26' depth 15'

(Attach diagram) Reference: wellhead X other     

Footage from reference: 57'

Direction from reference: Upright Degrees      East      North     

of

X West      South     

<b>Depth to Ground Water:</b> <small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	<u>    </u> <u>    </u> <u>    </u>
<b>Wellhead Protection Area:</b> <small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>	Yes (20 points) No (0 points)	<u>    </u> <u>    </u>
<b>Distance to Surface Water:</b> <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)	<u>    </u> <u>    </u> <u>    </u>
<b>Distance to Ephemeral Stream (dry wash):</b> <small>(Horizontal distance to all downgradient streams having a width of at least 10 feet)</small>	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)	<u>    </u> <u>    </u>
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> <small>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)</small>	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)	<u>    </u> <u>    </u>
<b>RANKING SCORE (TOTAL POINTS):</b>		<u>    </u>

RECEIVED

FEB - 3 1998

OIL CON. DIV.  
DIST. 3

Date Remediation Started: 9/8/97 Date Completed: 11/5/97

Remediation Method: Excavation  Approx. Cubic Yards 448

(Check all appropriate sections) Landfarmed  Amount Landfarmed (cubic yds): 448

Other \_\_\_\_\_

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

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

General Description of Remedial Action:  
Removed contaminated soil from all four side walls 175 to get it below 100 ppm head space reading. Bottom is rock.

Ground Water Encountered: No  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 14'

Sample date 9/9/97 Sample time 0833

Sample Results

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

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

Field headspace (ppm) 7.7 Ethylbenzene (ppb) \_\_\_\_\_

TPH ND ppm Method SCIS Total Xylenes (ppb) \_\_\_\_\_

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 9/18/97 PRINTED NAME Ronald A. Dedrick

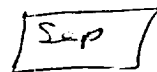
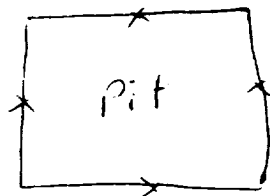
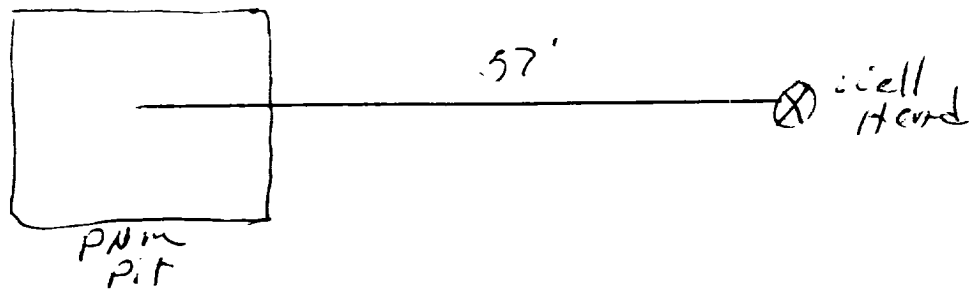
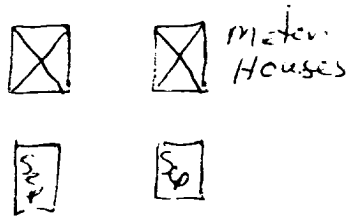
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

APPROVED: YES  NO \_\_\_\_\_ (REASON): Sprou + close

SIGNED: Karl Marshall DATE: 9-30-97

Jicarilla A-15  
Sec. 14 T.26N R.4W Unit J  
Conoco



Jicarilla A-15  
Sec 14 T26N R4W Unit J  
Conoco

31' x 26' x 15'

North Wall  
Sample 14'  
2.5 ppm

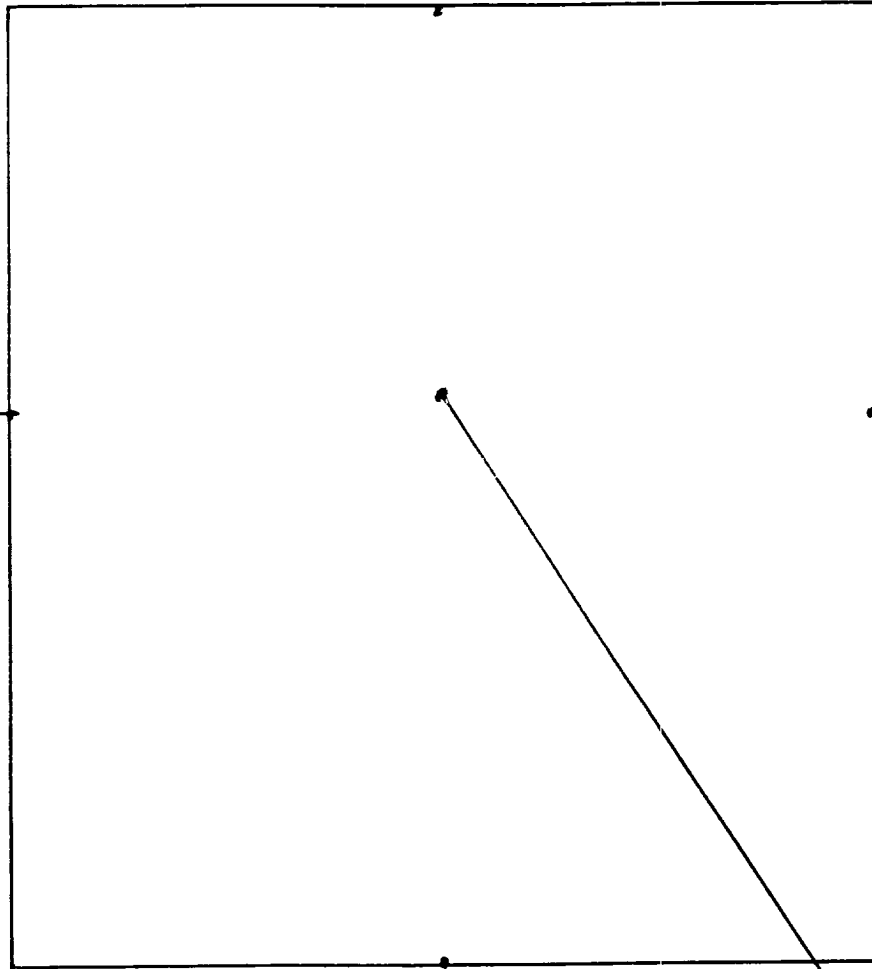
West Wall  
Sample 14'  
7.7 ppm

East Wall  
Sample 14'  
6.1 ppm

South Wall  
Sample 14'  
2.8 ppm

Bottom 15'  
Rock

5' - 408 ppm  
10' - 245 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: *18-Sep-97*  
 COC No.: *5585*  
 Sample No.: *16143*  
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-15*  
 Project Location: *9709090833; 4pt. Composite*  
 Sampled by: *MT* Date: *9-Sep-97* Time: *8:33*  
 Analyzed by: *DC/HR* Date: *17-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>	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	177	12.5	15%

**Matrix Spike**

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	87	88	(70-130)	1	20%

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

**ANALYTICAL REPORT**

Attn: *Denver Bearden*  
 Company: *PNM Gas Services*  
 Address: *603 W. Elm*  
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 Project Location: *9709090833; 4pt. Composite*  
 Sampled by: *MT* Date: *9-Sep-97* Time: *8:33*  
 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>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	ND		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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ENVIRONMENTAL  
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RESOURCE DEPT  
AND OIL-GAS  
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Conoco) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Jicarilla A-15  
Location: Unit: J Sec. 14 T. 26 N R. 4 W County Rio Arriba  
Land Type: Jicarilla Apache

Date Remediation Started: 9/8/97 Date Completed: 10/9/97  
Remediation Method: Landfarmed  Approx. cubic yards 448  
Composted   
Other

Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>10/9/97</u> Time <u>1207</u> Sampling Results: Field Headspace (ppm) <u>24.0</u> TPH (ppm) <u>32</u> Method <u>EC15</u> Other _____
Distance to an Ephemeral Stream: (pts.) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>	
Wellhead Protection Area: (pts.) <u>0</u>	
Distance to Surface Water: (pts.) <u>0</u>	
Ranking Score (Total Points): <u>0</u>	

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

DATE 10/11/97 PRINTED NAME Ronald A. Dedrick  
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

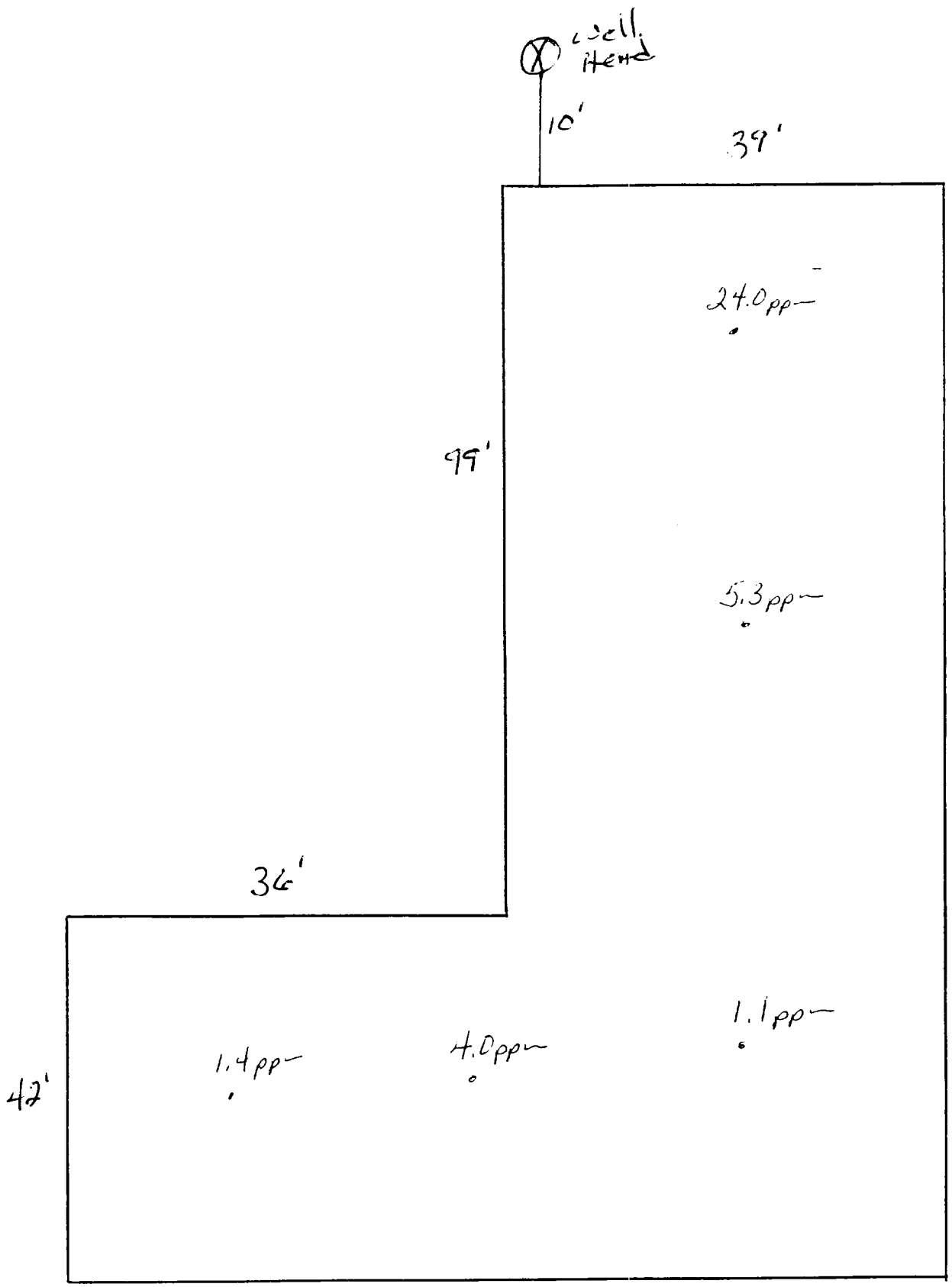
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES  NO  (REASON) use as Backfill

SIGNED: Kevin C. Munnell DATE: 10-14-97

Jicarilla A-15  
Sec. 14 T26N R4W Unit J  
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: *10-Oct-97*  
 COC No.: *5608*  
 Sample No.: *16543*  
 Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla A-15 Landfarm***  
 Project Location: ***9710091207; 5pt. Composite***  
 Sampled by: *RB* Date: *9-Oct-97* Time: *12:07*  
 Analyzed by: *DC/HR* Date: *9-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>	32	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	202	1.0	15%

**Matrix Spike**

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	103	104	(70-130)	1	20%

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

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

P.O. BOX 2606 • FARMINGTON, NM 87499