

Denny L. Faust
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

OCT 28 1997 ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

Approved

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla Apache Tribal 151-1E

Location: Unit: P Sec. 10 T 26 N R 5 W County Rio Arriba

Pit Type: Separator Dehydrator X Other

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 12' width 12' depth 5'

(Attach diagram) Reference: wellhead X other

Footage from reference: 96'

Direction from reference: Straight Degrees East North

 West of South X

Depth to Ground Water: <small>(Vertical distance from contaminants to seasonal high water elevation or ground water)</small>	Less than 50 feet (20 points)	<u> </u>
	50 feet to 99 feet (10 points)	<u> </u>
	Greater than 100 feet (0 points)	<u> </u>
Wellhead Protection Area: <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)	<u> </u>
	No (0 points)	<u> </u>
Distance to Surface Water: <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet (20 points)	<u> </u>
	200 feet to 1,000 feet (10 points)	<u> </u>
	Greater than 1,000 feet (0 points)	<u> </u>
Distance to Ephemeral Stream (dry wash): <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)	<u> </u>
	Greater than 100 feet (0 points)	<u> </u>
Distance to Nearest Lake, Playa, or Watering Pond: <small>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)</small>	Less than or equal to 100 feet (10 points)	<u> </u>
	Greater than 100 feet (0 points)	<u> </u>

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OIL CON. DIV.
DIST. 3

RANKING SCORE (TOTAL POINTS):

Date Remediation Started: 5/14/97 Date Completed: 7/9/97

Remediation Method: Excavation X Approx. Cubic Yards 27

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 27

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 readings. Bottom of pit was solid sandstone.

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 5/14/97 Sample time 0845

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) _____

Total BTEX (ppm) ND Toluene (ppb) _____

Field headspace (ppm) 20.3 Ethylbenzene (ppb) _____

TPH ND ppm Method 8015 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 5/22/97 PRINTED NAME Ronald A. Dedrick

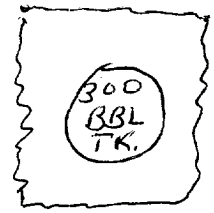
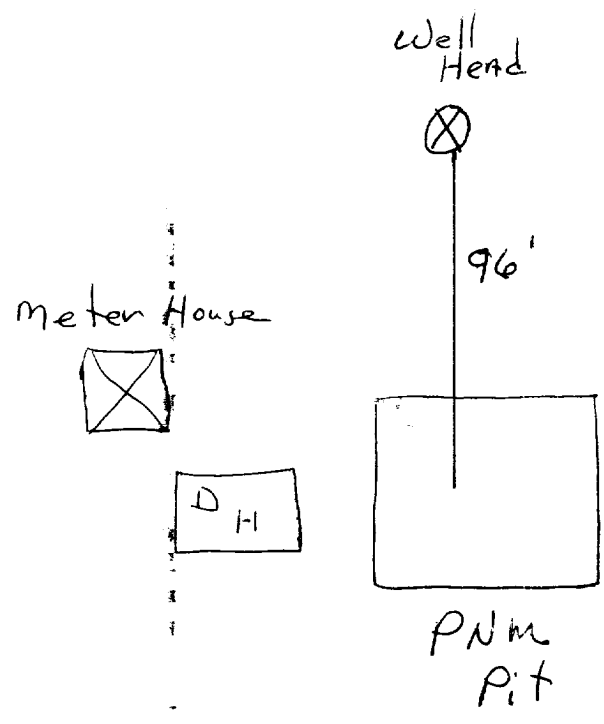
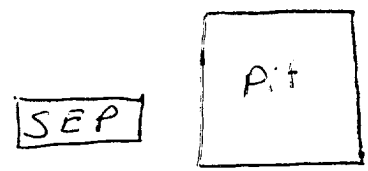
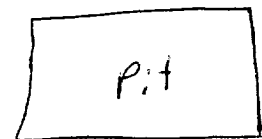
SIGNATURE Ronald A Dedrick AND TITLE Environmental Technician II

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): _____

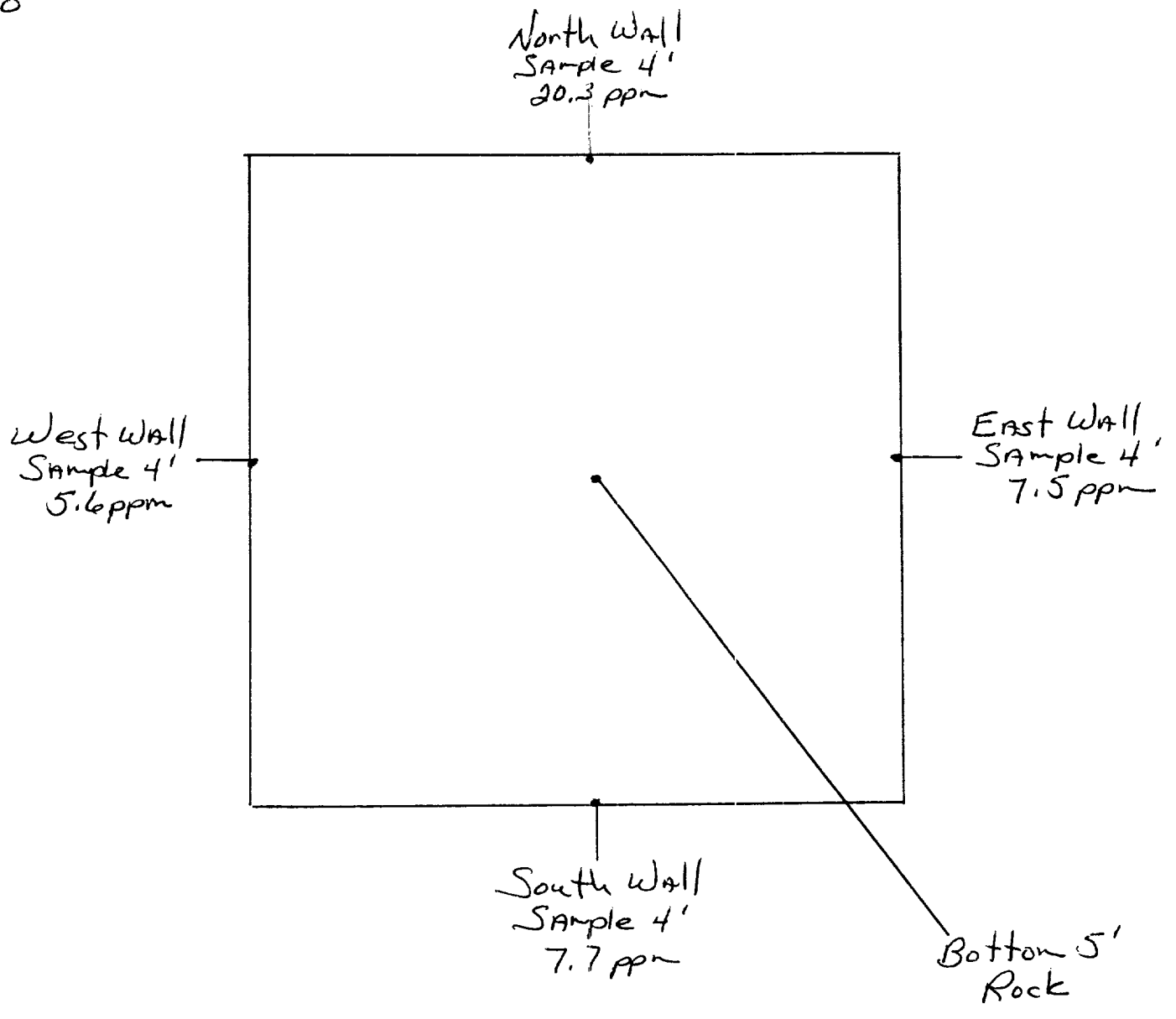
SIGNED: Kee C. Marshall DATE: 5-29-97

ICARITA 17pache 1 N 1001 101-12
Sec. 10 T26N R5W Unit P
Amoco



JICARILLA Apache TRIBAL 151-14
Sec. 10 T26N R5W Unit P
Amoco

12' x 12' 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: *22-May-97*
 COC No.: *5460*
 Sample No.: *14631*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-1E Run 12-21*
 Project Location: *9705140845; 4pt. Composite*
 Sampled by: SA Date: *14-May-97* Time: *8:45*
 Analyzed by: HR/DC Date: *19-May-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	5.0	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: *0519-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	100	112	11.2	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	100	100	(70-130)	0	20%

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

Approved by: *[Signature]*
 Date: *5/22/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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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: *22-May-97*
 COC No.: *5460*
 Sample No.: *14631*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-1E Run 12-21*

Project Location: *9705140845; 4pt. Composite*

Sampled by: *SA* Date: *14-May-97* Time: *8:45*

Analyzed by: *DC* Date: *21-May-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	1.0	ug/kg
<i>Toluene</i>	ND	ug/kg	1.0	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1.0	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1.0	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1.0	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: *5/22/97*

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 ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Amoco) Telephone: 324-3764
 Address: 603 W. Elm Street Farmington, NM 87401
 Facility or Well Name: Jicarilla Apache Tribal 151-1E
 Location: Unit: P Sec. 10 T. 26 N R. 5 W County Rio Arriba
 Land Type: Jicarilla Apache

Date Remediation Started: 5/14/97 Date Completed: 6/13/97
 Remediation Method: Landfilled X Approx. cubic yards 27
 Composted —
 Other —

Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>6/11/97</u> Time <u>1550</u> Sampling Results: Field Headspace (ppm) <u>15.3</u> TPH (ppm) <u>19</u> Method <u>8015</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 6/20/97 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) _____

SIGNED: [Signature] DATE: 6-23-97

ICARILLA HACHE 1116A1 101-12
Sec. 10 T26N R5W Unit A
Amoco

Land farm

well
Head

81'

51'

15'

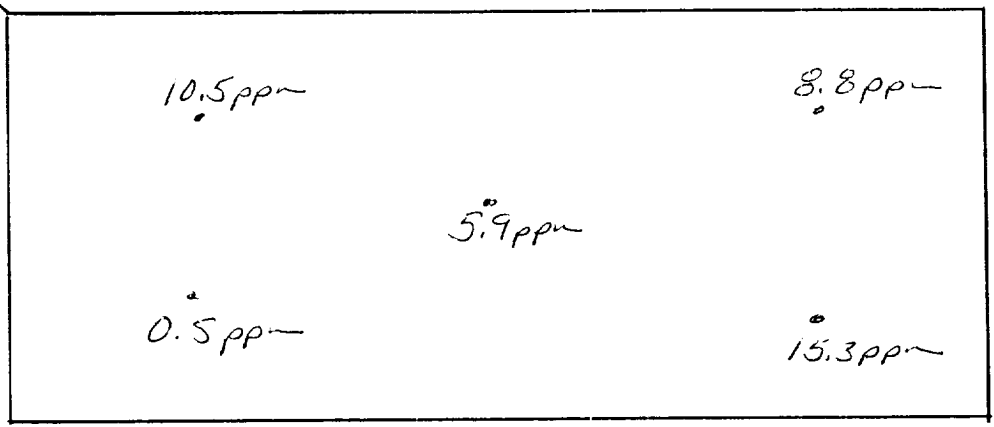
10.5 ppm

8.8 ppm

5.9 ppm

0.5 ppm

15.3 ppm



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LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *17-Jun-97*
 COC No.: *5486*
 Sample No.: *14928*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-1E Landfarm*
 Project Location: *9706111550; 5pt. Composite*
 Sampled by: *RB* Date: *11-Jun-97* Time: *15:50*
 Analyzed by: *DC/HR* Date: *13-Jun-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>19</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.: 0548-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>209</i>	<i>4.4</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>88</i>	<i>90</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*
 Date: *6/12/97*

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