

Benny E. Frost
DEPUTY OIL & GAS INSPECTOR

FEB 26 1998

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

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 151-5E
Location: Unit: E Sec. 9 T. 26 N R. 5 W County Rio Arriba
Pit Type: Separator Dehydrator X Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 24 width 22 depth 17
(Attach diagram) Reference: wellhead X other
Footage from reference: 120
Direction from reference: 45 Degrees East North
 West South

Depth to Ground Water:

(Vertical distance from contaminants to nearest high water elevation or ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

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)
No (0 points) 0

Distance to Surface Water:

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

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

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:

5/28/97

Date Completed:

6/19/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

332(Check all
appropriate
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

332

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
175 feet at a below 100 ppm head space reading.
Bottom of pit was solid 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

13'

Sample date

5/28/97

Sample time

1445

Sample Results

Soil: Benzene (ppm)

0.002

Water: Benzene (ppb) _____

Total BTEX (ppm)

0.180

Toluene (ppb) _____

Field headspace (ppm)

76.9

Ethylbenzene (ppb) _____

TPH

29.6 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

6/6/97

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

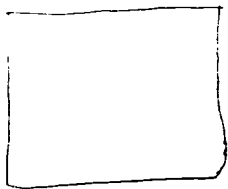
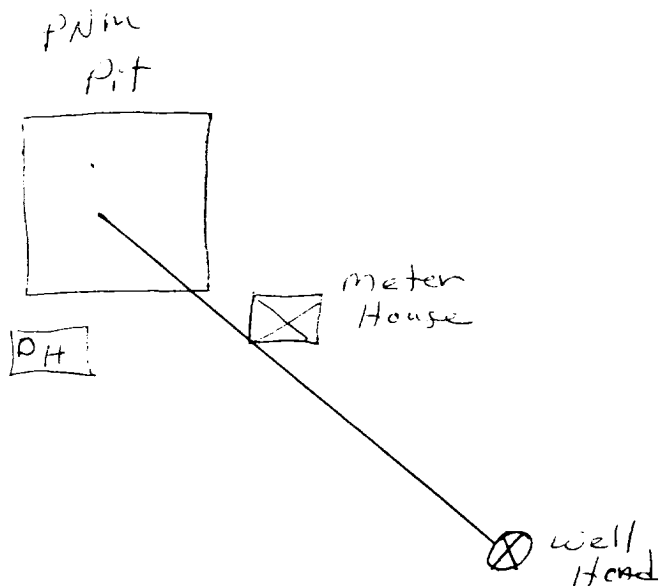
SIGNED:

Ken C. Mann

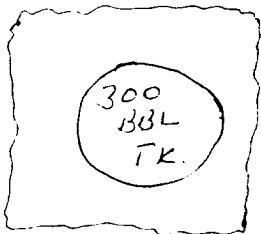
DATE:

6-9-97

Jicarilla Apache Tribal 151-5E
Sec. 9 T26N R5W Unit E
Hmoco

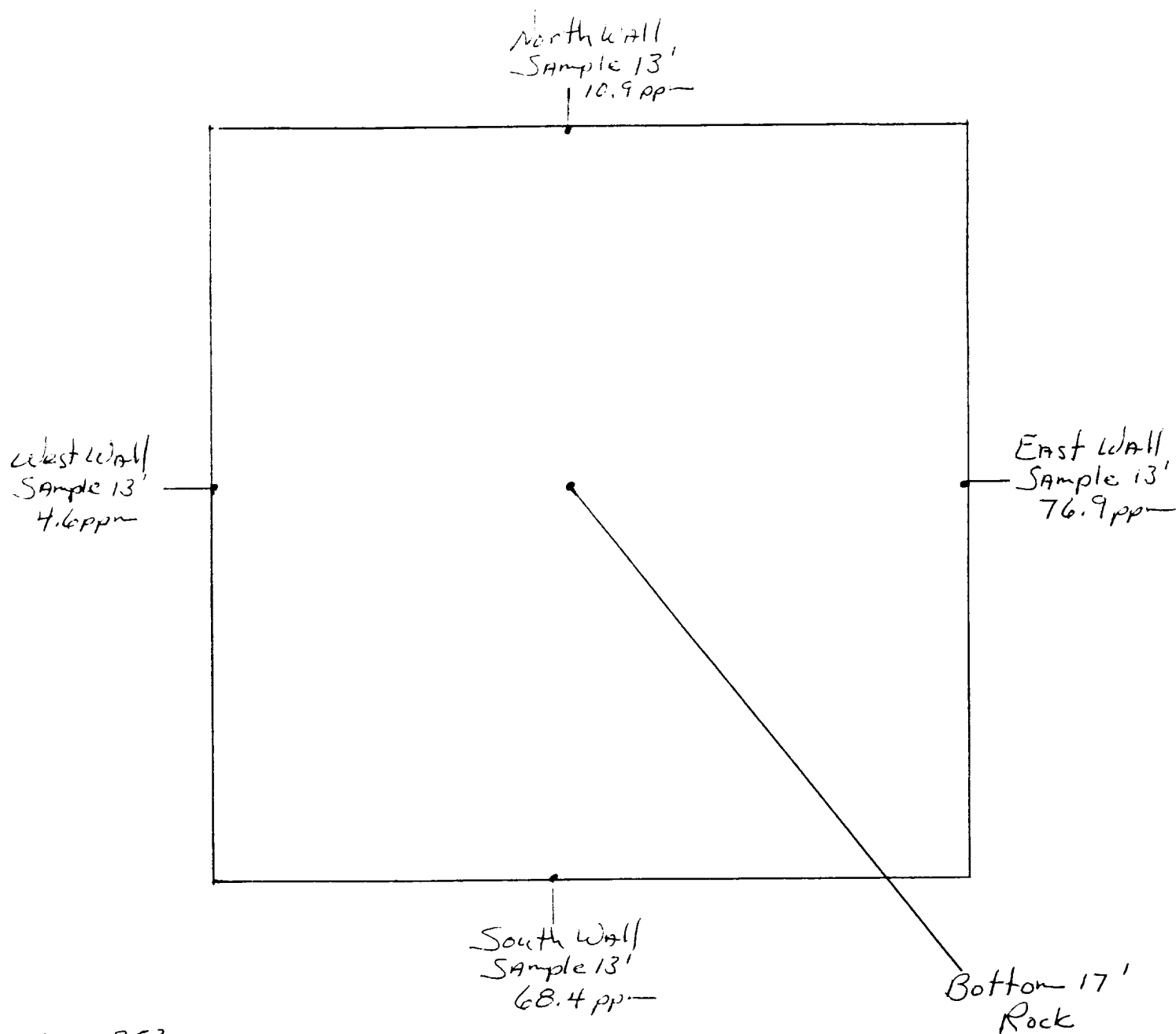


SEP



Jicarilla Apache Tribal 151-5E
Sec 9 T26N R5W Unit E
Amoco

24' x 22' x 17'



5' Sample - 353 ppm
10' Sample - 778 ppm
15' Sample - 208 ppm
17' Sample - Rock

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: *4-Jun-97*
COC No.: *5480*
Sample No.: *14772*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-5E*
Project Location: *9705281445; 4pt. Composite*
Sampled by: *TE* Date: *28-May-97* Time: *14:45*
Analyzed by: *DC* Date: *3-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>	29.6	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	200	192	4.3	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	96	102	(70-130)	6	20%

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

Approved by: *[Signature]*
Date: *6/4/97*

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: *3-Jun-97*
COC No.: *5480*
Sample No.: *14772*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-5E*

Project Location: *9705281445; 4pt. Composite*

Sampled by: *TE* Date: *28-May-97* Time: *14:45*

Analyzed by: *DC* Date: *30-May-97*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>2</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>4</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>11</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>126</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>38</i>	<i>ug/kg</i>	<i>1</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>180</i>	<i>ug/kg</i>		

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *6/3/97*

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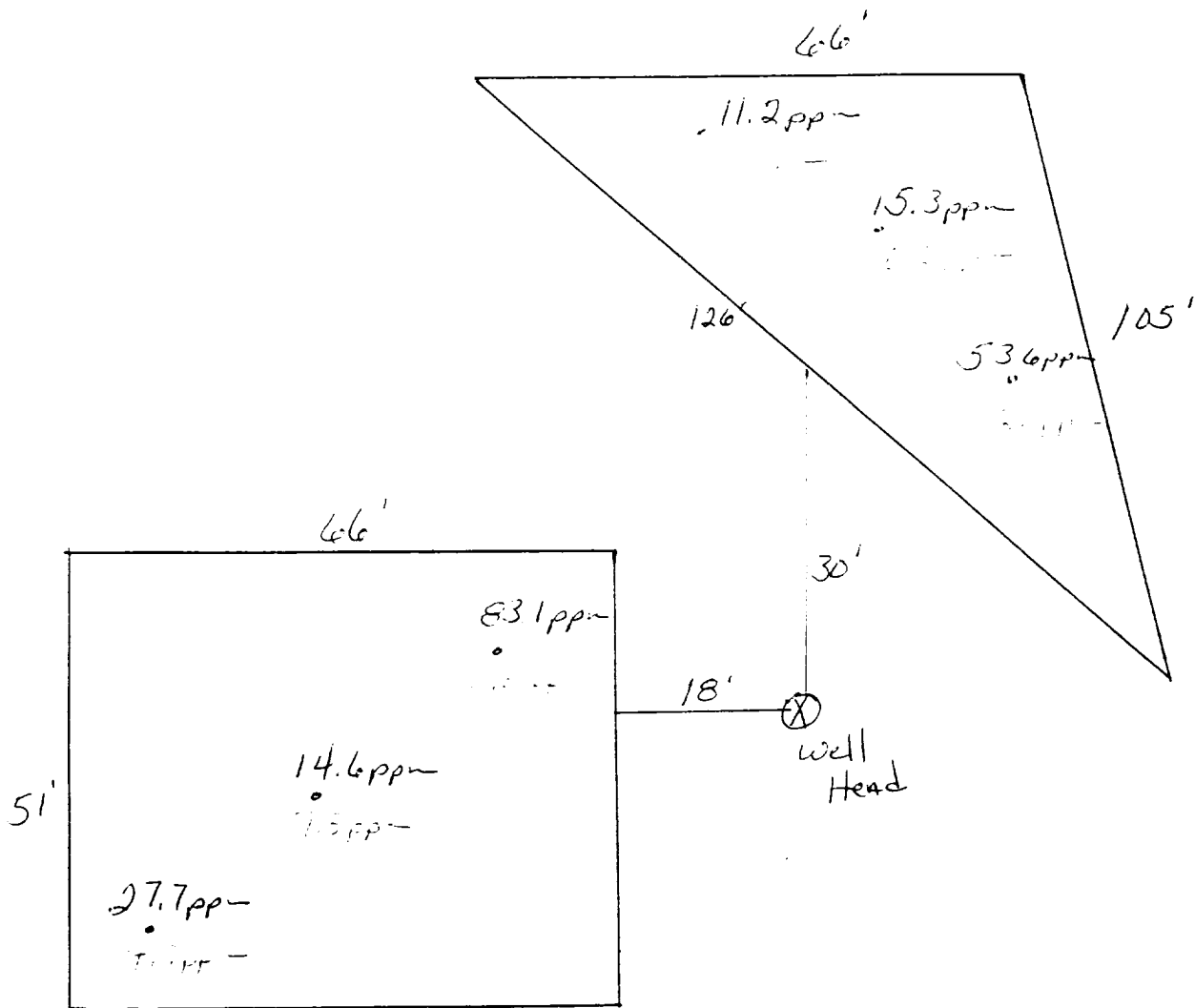
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services</u> <u>Albuquerque</u> Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla Apache Tribal 151-5E</u>	
Location: Unit: <u>E</u> Sec. <u>9</u> T. <u>24</u> N R. <u>5</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>5/28/97</u> Date Completed: <u>8/15/97</u>	
Remediation Method: Landfilled <u>X</u> Approx. cubic yards <u>332</u>	
Composted <u> </u>	
Other <u> </u>	
Depth to Ground Water: (pts.) <u>E</u>	Final Closure Sampling: Sampling Date: <u>8/14/97</u> Time <u>0820</u> Sampling Results: Field Heavyspace (ppm) <u>12.1</u> TPH (ppm) <u>28</u> Method <u>GC15</u> Other <u> </u>
Distance to an Ephemeral Stream: (pts.) <u>E</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>E</u>	
Wellhead Protection Area: (pts.) <u>E</u>	
Distance to Surface Water: (pts.) <u>E</u>	
Ranking Score (Total Points): <u>E</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>8/18/97</u> PRINTED NAME <u>Ronald A. Dedrick</u>	
SIGNATURE <u>Ronald A. Dedrick</u> AND TITLE <u>Environmental Technician II</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>use as Backfill</u>	
SIGNED: <u>Kenneth M. Mammill</u> DATE: <u>8-18-97</u>	

Jicarilla Apache Tribal 151-5E
Sec. 9 T26N R5W Unit E
Amoco

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: *18-Aug-97*
COC No.: *5544*
Sample No.: *15779*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache Tribal 151-5E Landfarm*
Project Location: *9708140820; 6pt. Composite*
Sampled by: *RB* Date: *14-Aug-97* Time: *8:20*
Analyzed by: *HR/DC* Date: *15-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>	<i>28</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>194</i>	<i>2.9</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>83</i>	<i>85</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: *9/18/97*

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT