

Denny E. Faust JICARILLA APACHE TRIBE
DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE

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

JUN 23 1998

P.O. BOX 507
DULCE, NEW MEXICO 87528

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 Contract 147-4
Location: Unit: A Sec. 5 T 25 N R. 5 W County Rio Arriba
Pit Type: Separator Dehydrator X Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 32' width 23' depth 14'
(Attach diagram) Reference: wellhead X other
Footage from reference: 210'
Direction from reference: 7.5 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)
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)
No (0 points)

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)

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)

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)

RANKING SCORE (TOTAL POINTS):

10

Date Remediation Started:

9/25/97

Date Completed:

11/19/97

Remediation Method:

Excavation

☒

Approx. Cubic Yards

382

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds):

382

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
as to get a below 100 ppm head space reading.
Bottom of pit 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

1.3'

Sample date

9/29/97

Sample time

1024

Sample Results

Soil: Benzene (ppm)

ND

Water: Benzene (ppb)

Total BTEX (ppm)

8.00
0.004

Toluene (ppb)

Field headspace (ppm)

35.0

Ethylbenzene (ppb)

TPH 20 ppm

Method

8015

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

10/3/97

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):

SPRAY & CLOSE

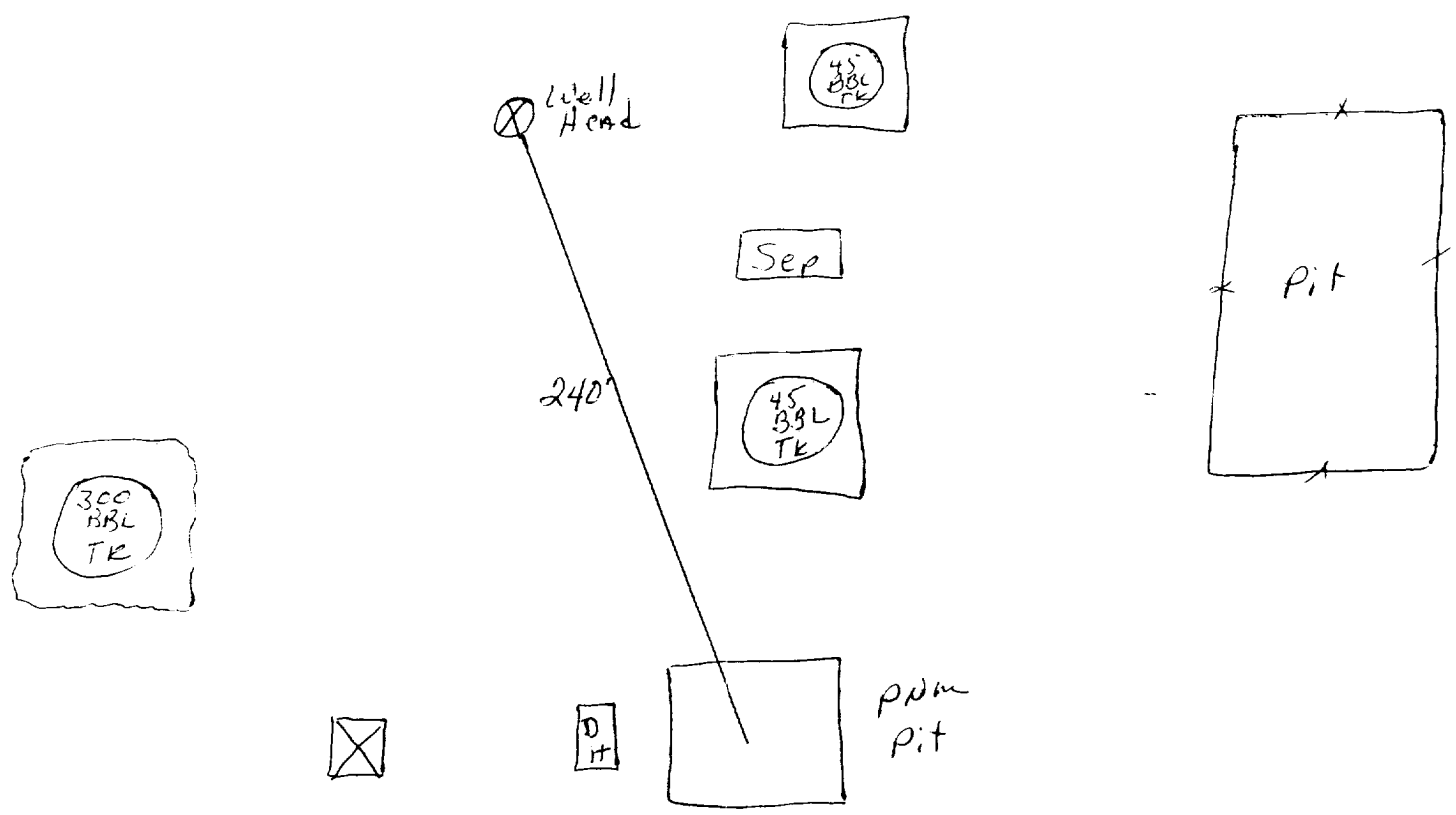
SIGNED:

Kenn C. Mamm

DATE:

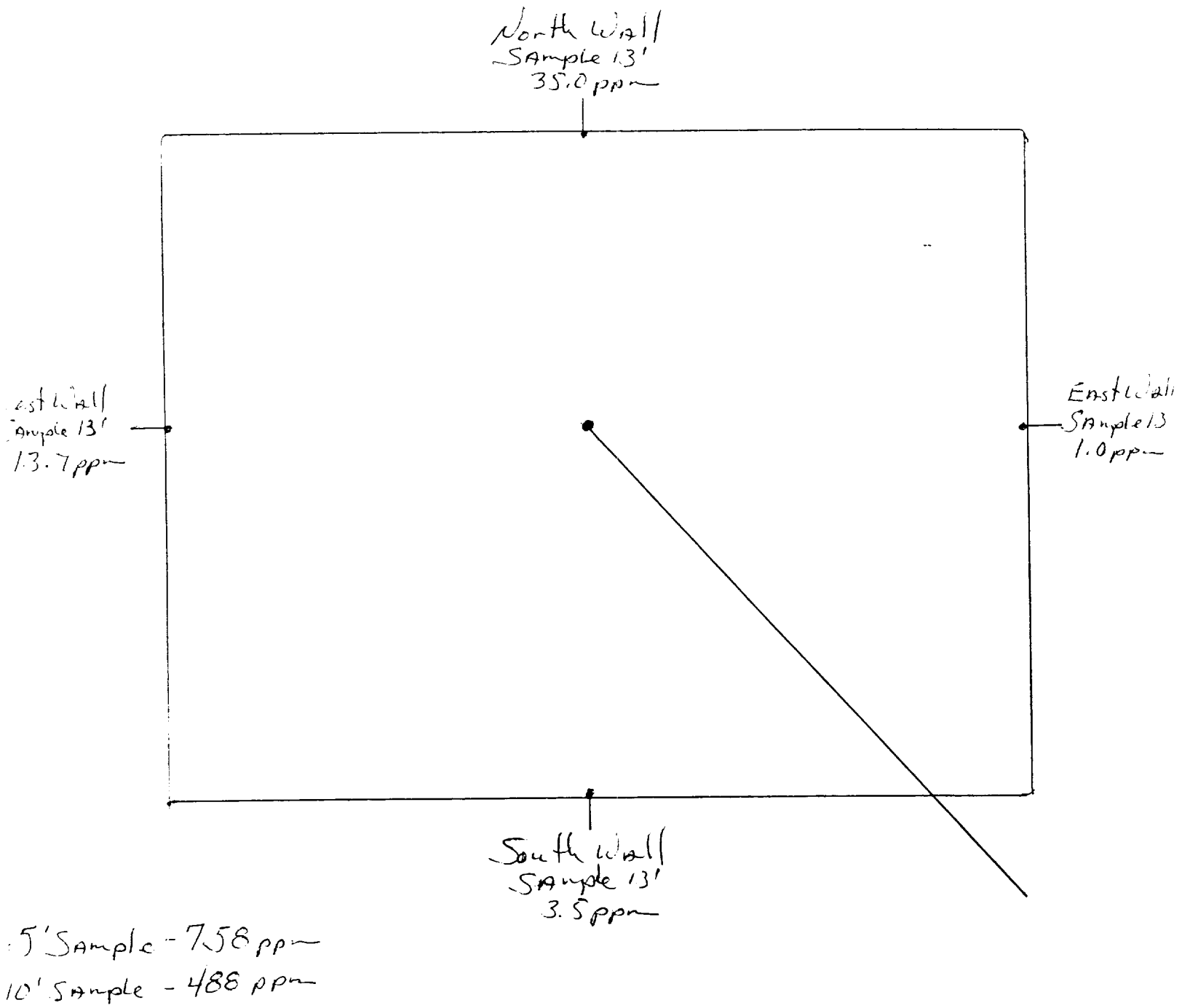
10-14-97

Jicarilla Contract 141-4
Sec. 5 T25N R5W Unit A
Amoco



Jicarilla Contract 141-7
Sec. 5 T25N R5W Unit A
Amoco

32' x 23' x 14'



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: *2-Oct-97*
COC No.: *5611*
Sample No.: *16449*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Contract 147-4*
Project Location: *9709291024; 4pt. Composite*
Sampled by: *PA* Date: *29-Sep-97* Time: *10:24*
Analyzed by: *HR/DC* Date: *2-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>	<i>20</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>188</i>	<i>6.4</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>91</i>	<i>89</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: *10/2/97*

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: *6-Oct-97*
COC No.: *5611*
Sample No.: *16449*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla Contract 147-4***

Project Location: ***9709291024; 4pt. Composite***

Sampled by: *PA* Date: *29-Oct-97* Time: *10:24*

Analyzed by: *DC* Date: *2-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	2	ug/kg
<i>Toluene</i>	ND	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	4	ug/kg	2	ug/kg
<i>o-Xylene</i>	ND	ug/kg	2	ug/kg
	<i>TOTAL</i>	4		

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *10/6/97*

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ENVIRONMENTAL
PROTECTION OFFICE
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SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
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 Contract 147-4
Location: Unit: A Sec. 5 T. 25 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 9/25/97 Date Completed: 11/13/97
Remediation Method: Landfirmed X Approx. cubic yards 382
Composted
Other

Depth to Ground Water: (pts.) 0
Distance to an Ephemeral Stream: (pts.) 10
Distance to Nearest Lake, Playa,
or Watering Pond: (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance to Surface Water: (pts.) 0
Ranking Score (Total Points): 10

Final Closure Sampling:

Sampling Date: 11/12/97 Time 1224
Sampling Results:
Field Headspace (ppm) 25.4
TPH (ppm) 86 Method 8015
Other

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

DATE 11/16/97 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

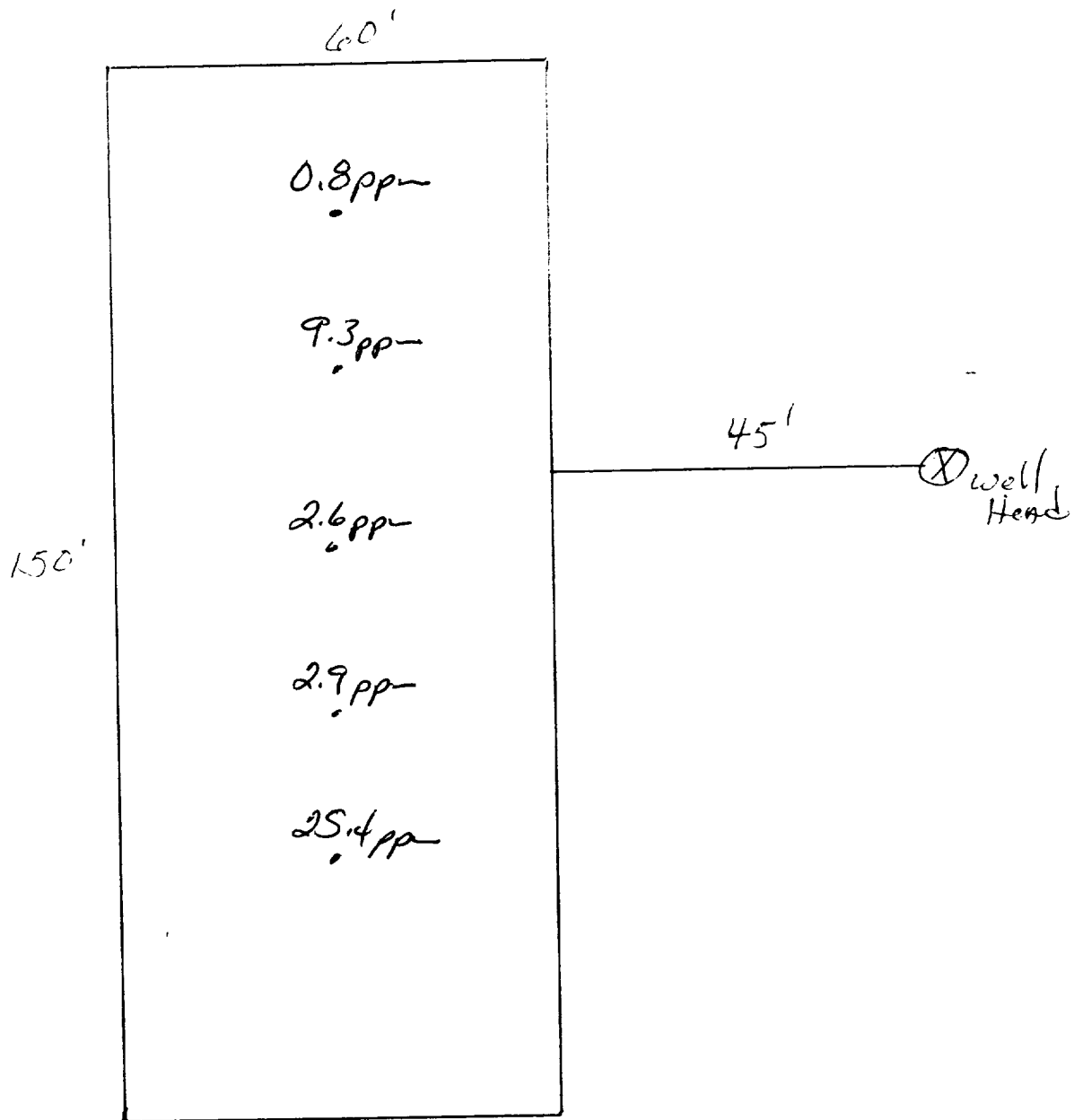
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES X NO (REASON) was as Backfill

SIGNED: Keturah M. [Signature] DATE: 11-17-97

Jicarilla Contract 141-4
Sec. 5 T25N R5W Unit A
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: 13-Nov-97
COC No.: 5637
Sample No.: 16863
Job No.: 2-1000
..

Project Name: ***PNM Gas Services - Jicarilla Contract 147-4 Landfarm***
Project Location: ***9711121224; 5pt. Composite***
Sampled by: RB Date: 12-Nov-97 Time: 12:24
Analyzed by: DC/HR Date: 13-Nov-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>	86	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	204	1.9	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	91	90	(70-130)	1	20%

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

Approved by:

Date:

Jan
11/13/97

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