

Date Remediation Started: 7/15/97 Date Completed: 8/28/97

Remediation Method: Excavation X Approx. Cubic Yards 1.35

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 1.35

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 it below 100 ppm head space monitoring.
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 7/15/97 Sample time 1514

Sample Results

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

Total BTEX (ppm) 0.007 Toluene (ppb) _____

Field headspace (ppm) 22.7 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 7/24/97 PRINTED NAME Ronald A. Dedrick

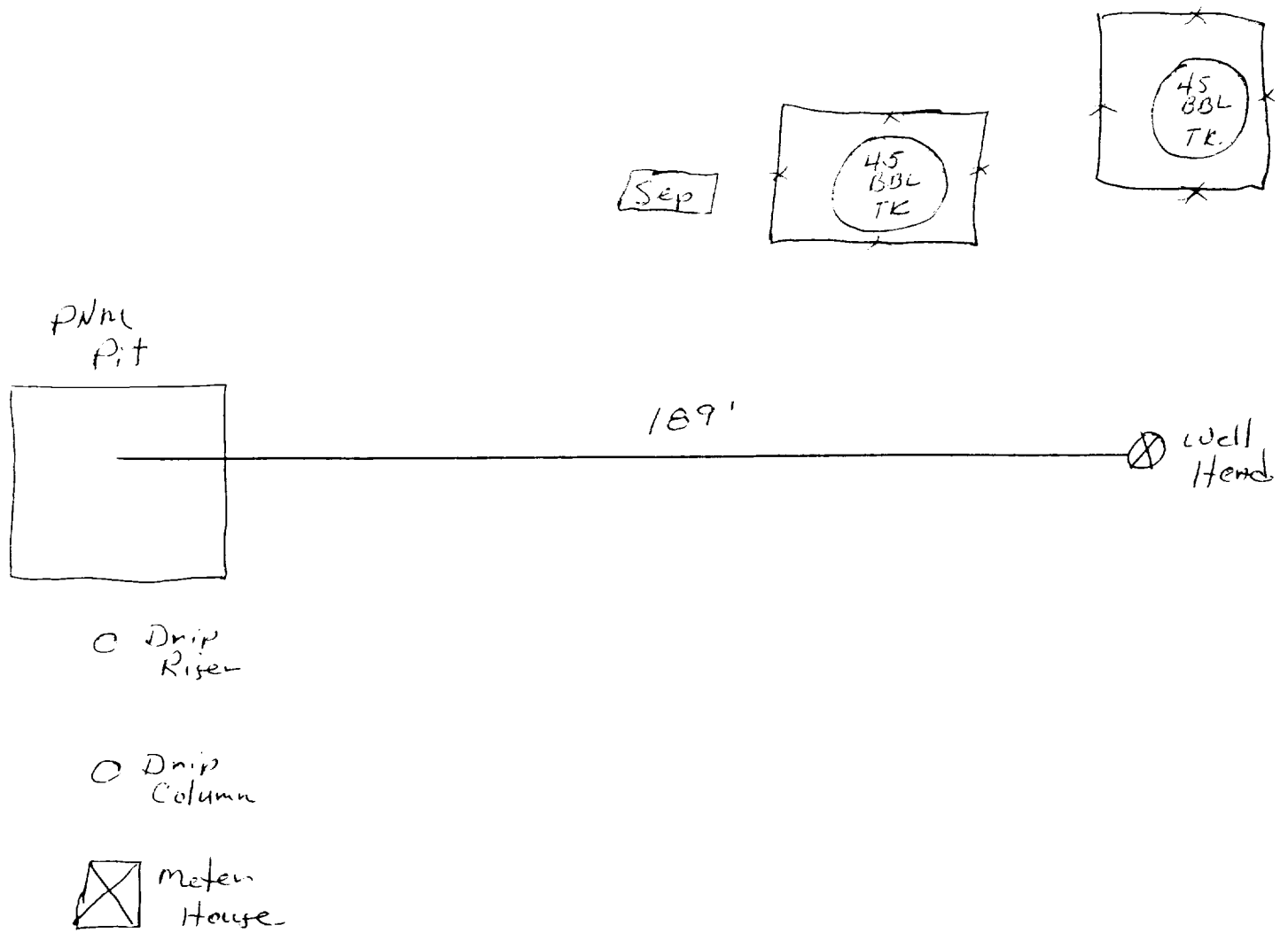
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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

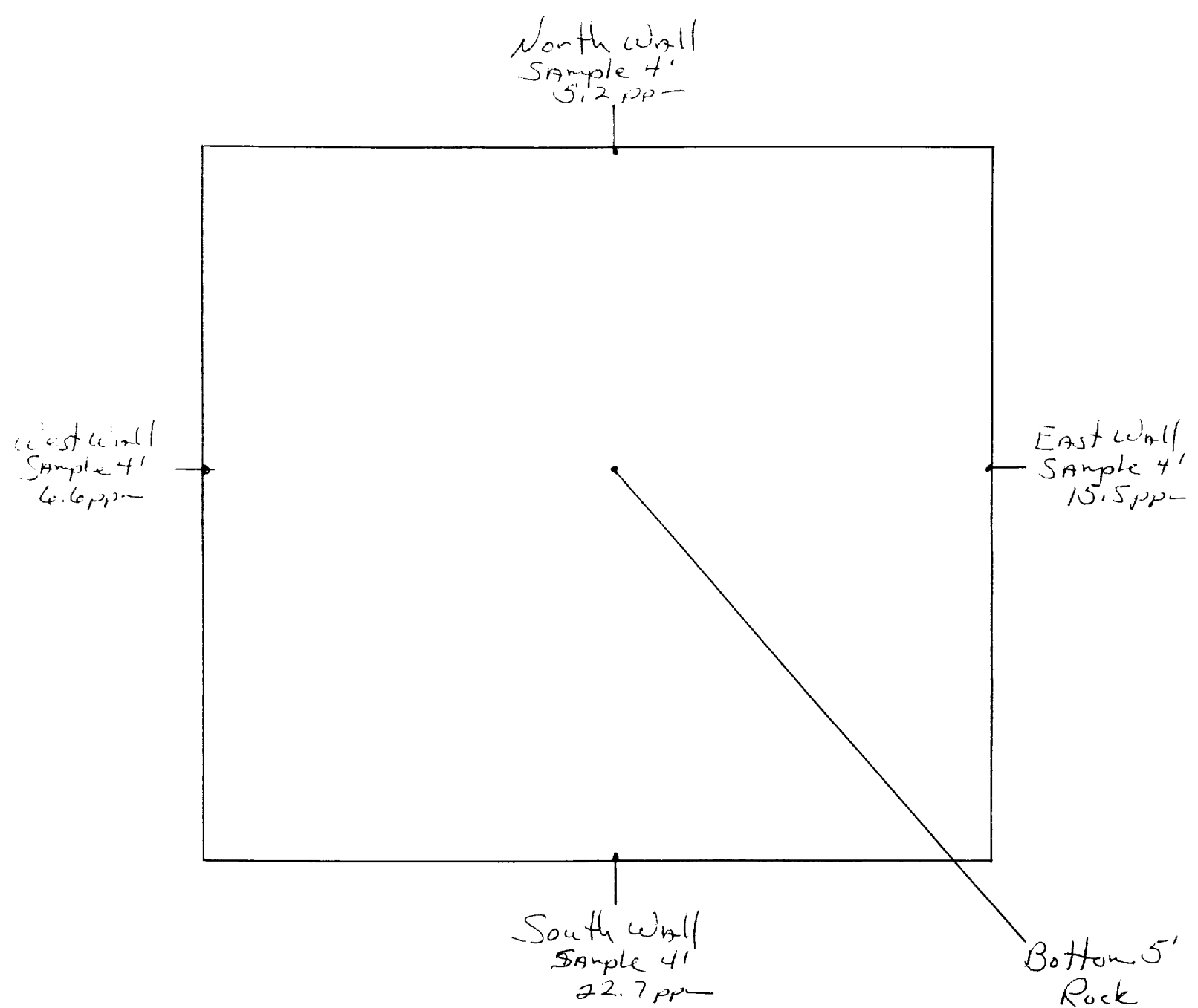
SIGNED: Kate C. Mammill DATE: 7-29-97

Location: HPACHE 102-07
Sec. 4 T26N R4W Unit P
Amoco



JOHN H. H. 17pne 102-571
Sec. 4 T26N R4W Unit P
Amoco

28'x26'x15'



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: *24-Jul-97*
COC No.: *5516*
Sample No.: *15386*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache 102-5A*
Project Location: *9707151514; 4pt. Composite*
Sampled by: *TN* Date: *15-Jul-97* Time: *15:14*
Analyzed by: *DC* Date: *23-Jul-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 | 197 | 1.6 | 15% |

Matrix Spike

| Parameter | 1- Percent Recovered | 2 - Percent Recovered | Limit | RPD | RPD Limit |
|-------------------------------|----------------------|-----------------------|----------|-----|-----------|
| <i>Diesel Range (C10-C28)</i> | 89 | 87 | (70-130) | 2 | 20% |

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

Approved by: *[Signature]*
Date: *7/24/97*

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: *24-Jul-97*
COC No.: *5516*
Sample No.: *15386*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla Apache 102-5A***

Project Location: ***9707151514; 4pt. Composite***

Sampled by: *TN* Date: *15-Jul-97* Time: *15:14*

Analyzed by: *DC* Date: *22-Jul-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> | 1 | ug/kg | 1 | ug/kg |
| <i>Ethylbenzene</i> | 2 | ug/kg | 1 | ug/kg |
| <i>m,p-Xylene</i> | 3 | ug/kg | 1 | ug/kg |
| <i>o-Xylene</i> | ND | ug/kg | 1 | ug/kg |
| <i>TOTAL</i> | | 7 | | ug/kg |

ND - Not Detected at Limit of Quantitation

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

Approved by:

Date:

[Signature]
2/24/97

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

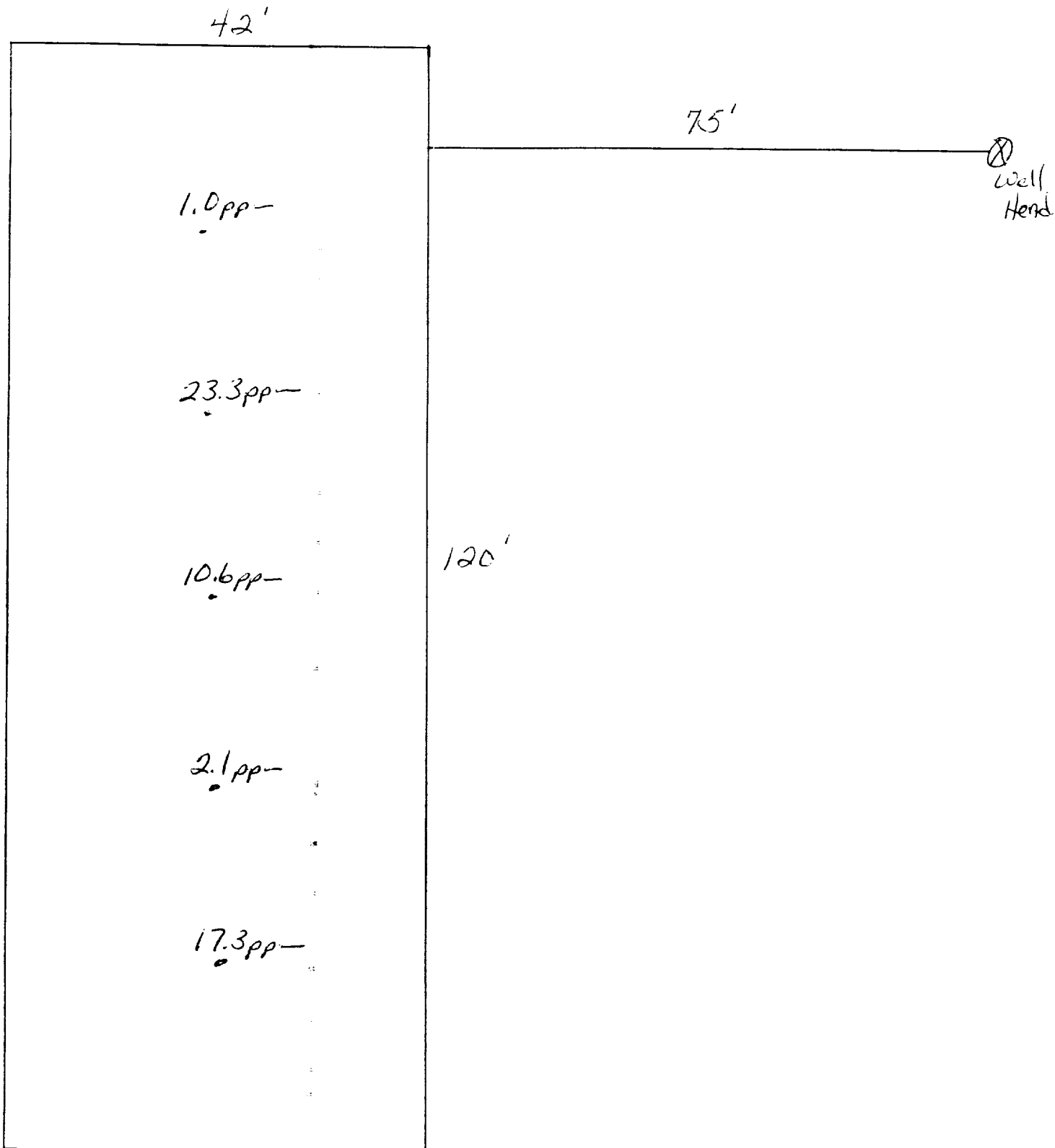
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

| | |
|--|---|
| Operator: PNM Gas Services (Amoco) Telephone: 324-3764 | |
| Address: 603 W. Elm Street Farmington, NM 87401 | |
| Facility or Well Name: Jicarilla Apache 102-5A | |
| Location: Unit: P Sec. 4 T. 26 N R. 4 W County Rio Arriba | |
| Land Type: Jicarilla Apache | |
| Date Remediation Started: 7/15/97 Date Completed: _____ | |
| Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards 135 | |
| Composted _____ | |
| Other _____ | |
| Depth to Ground Water: (pts.) 0 | Final Closure Sampling: Sampling Date: 7/31/97 Time 1101 Sampling Results: Field Headspace (ppm) 23.3 TPH (ppm) ND Method 8015 Other _____ |
| Distance to an Ephemeral Stream: (pts.) 0 | |
| 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): 0 | |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF | |
| DATE 8/1/97 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 <input checked="" type="checkbox"/> NO _____ (REASON) use as Backfill | |
| SIGNED: Ken C. Mammall DATE: 8-12-97 | |

Section 4 T26N R4W Unit P
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: *5-Aug-97*
COC No.: *5533*
Sample No.: *15546*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache 102-5A Landfarm*
Project Location: *9707311101; 5pt. Composite*
Sampled by: *RB* Date: *31-Jul-97* Time: *11:01*
Analyzed by: *HR/DC* Date: *4-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 | 0.8 | 15% |

Matrix Spike

| Parameter | 1 - Percent Recovered | 2 - Percent Recovered | Limit | RPD | RPD Limit |
|-------------------------------|-----------------------|-----------------------|----------|-----|-----------|
| <i>Diesel Range (C10-C28)</i> | 112 | 98 | (70-130) | 7 | 20% |

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

Approved by: *[Signature]*
Date: *8/5/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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