

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

OCT 28 1997

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

Approved
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 D-8
Location: Unit: M Sec. 32 T. 26 N R. 3 W County Rio Arriba
Pit Type: Separator X Dehydrator Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 22' width 15' depth 8'
(Attach diagram) Reference: wellhead X other
Footage from reference: 45'
Direction from reference: 45 Degrees East North
 West South

Depth to Ground Water:

(Vertical distance from contaminants
to seasonal 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

THE UNIVERSITY OF
CHICAGO
LIBRARY

Date Remediation Started:

5/5/97

Date Completed:

6/17/97

Remediation Method:

Excavation

☒

Approx. Cubic Yards

98

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds):

98

Other _____

Remediation Location:

Onsite

☒

Offsite _____

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

General Description of Remedial Action:

Removed contamination from all four side wall
as to get a below 100 ppm head space reading.
Bottom of pit was solid sand stone.

Ground Water Encountered:

No

☒

Yes _____

Depth _____

Final Pit Closure
Sampling:

Sample Location

North, East, South, West side
walls!(if multiple samples, attach
sample result and diagram of
sample locations and
depths.)

Sample Depth

7'

Sample Date

5/5/97

Sample time

0932

Sample Results

Soil: Benzene (ppm)

ND

Water: Benzene (ppb)

Total BTEX (ppm)

ND

Toluene (ppb)

Field headspace (ppm)

1.3

Ethylbenzene (ppb)

TPH ND 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

5/18/97

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): _____

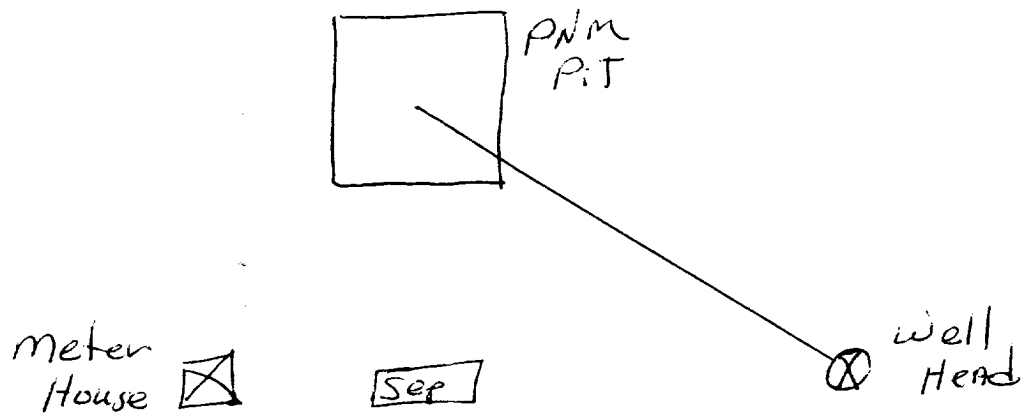
SIGNED:

[Signature]

DATE:

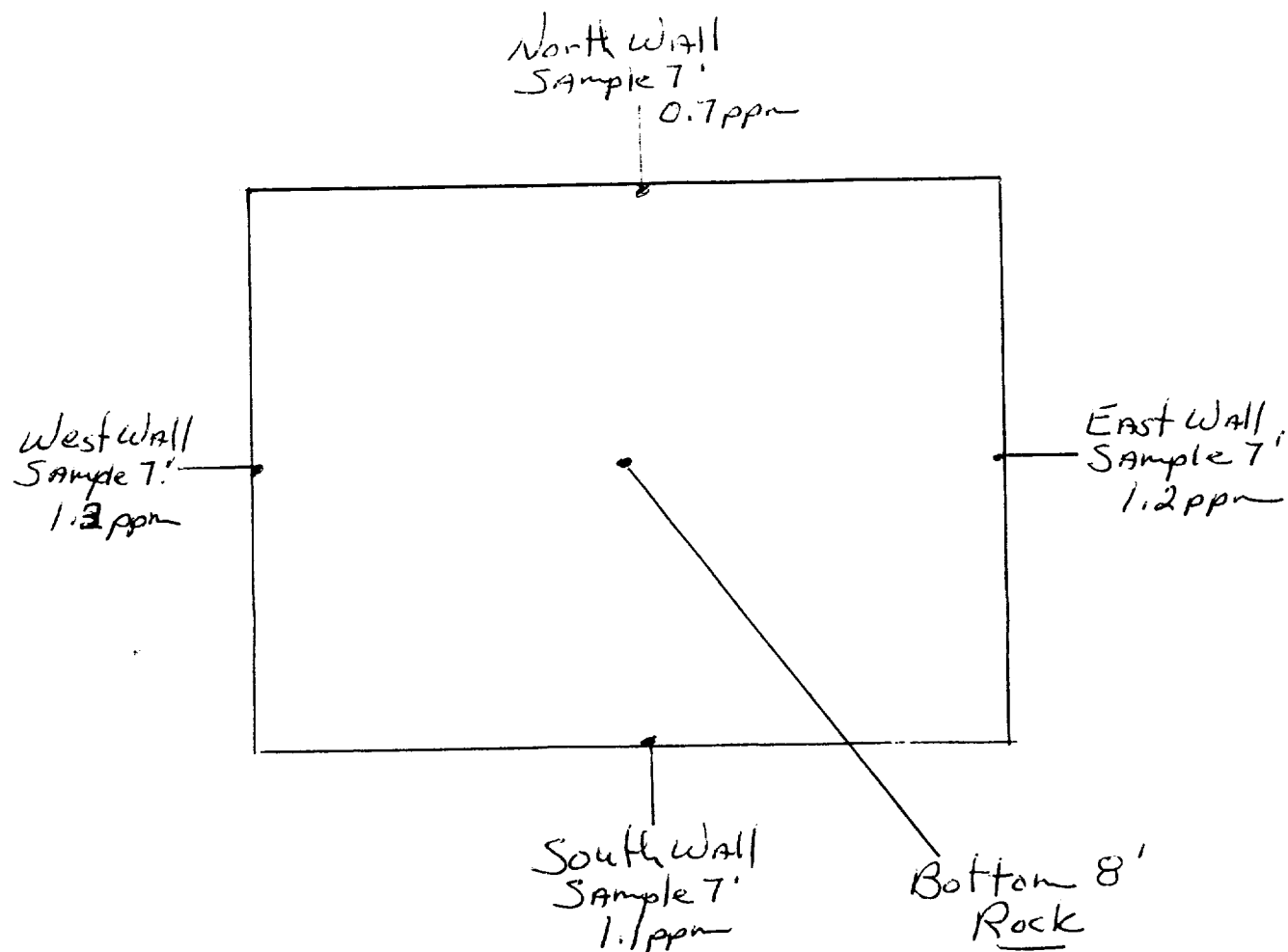
5/18/97

Garilla D-8
Sec. 32 T26N R30W Unit m
Conoco



11/11/19 10-8
Sec. 32 T26N R3W Unit M
Lonoco

22' x 15' x 8'



5 Sample - 679 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: *12-May-97*
COC No.: *5441*
Sample No.: *14441*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla D-8 Run 12-71*
Project Location: *9705050932; 4pt. Composite*
Sampled by: *PA* Date: *5-May-97* Time: *9:32*
Analyzed by: *HR/DC* Date: *9-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	106	6.2	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	100	99	(70-130)	1	20%

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

Approved by: 

Date: *5/12/97*

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: *14-May-97*
COC No.: *5441*
Sample No.: *14441*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla D-8 Run 12-71*

Project Location: *9705050932; 4pt. Composite*

Sampled by: *PA* Date: *5-May-97* Time: *9:32*

Analyzed by: *DC* Date: *9-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: *5/14/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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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 D-8
Location: Unit: m Sec. 32 T. 26 N R. 3 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 5/5/97 Date Completed: 5/22/97
Remediation Method: Landfilled X Approx. cubic yards 98
Composted
Other

Depth to Ground Water: (pts.) 0
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

Final Closure Sampling:

Sampling Date: 5/15/97 Time 0730
Sampling Results:
Field Headspace (ppm) 2.0
0.7 RAD
TPH (ppm) NO Method 8015
Other

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

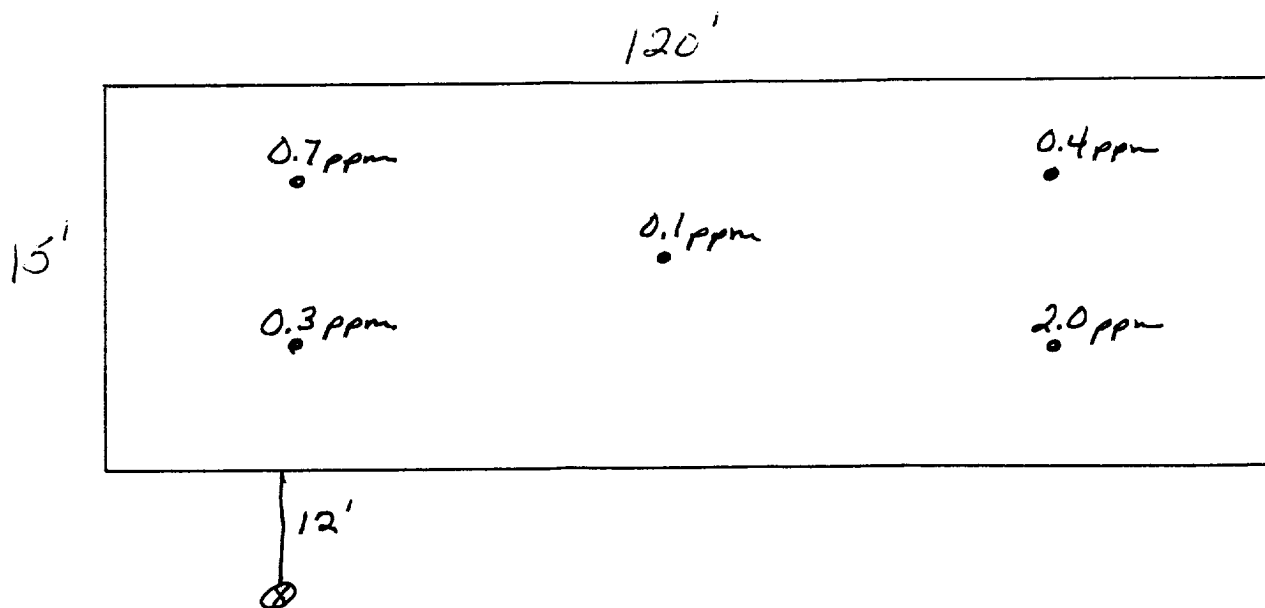
DATE 5/22/97 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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: K. C. M. DATE: 5-29-97

1/4 Section 32 T26N R3W Unit M
207000

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: *22-May-97*
 COC No.: *5464*
 Sample No.: *14635*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla D-8 Landfarm Run 12-71*
 Project Location: *9705150730; 5pt. Composite*
 Sampled by: *RB* Date: *15-May-97* Time: *7:30*
 Analyzed by: *HR/DC* Date: *16-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 ReportDRO 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	104	4.2	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	96	88	(70-130)	9	20%

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

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