

Kenneth E. Faust

DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE

JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

JUN 23 1998

P.O. BOX 507
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>PNM Gas Services (WFS)</u>		Telephone: <u>324-3764</u>
Address: <u>603 W. Elm Street Farmington, NM 87401</u>		
Facility or Well Name: <u>Jicarilla A-18 Drip</u>		
Location:	Unit: <u>P</u>	Sec. <u>14</u> T. <u>24</u> N R. <u>4</u> W County <u>Rio Arriba</u>
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input type="checkbox"/> Other <u>Line Drip</u>
Land Type:	<u>Jicarilla Apache</u>	
Pit Location: Pit dimensions: length <u>32'</u> width <u>25'</u> depth <u>8'</u>		
(Attach diagram)	Reference: wellhead <input type="checkbox"/> other <u>Drip riser</u>	
	Footage from reference: <u>24'</u>	
	Direction from reference: <u>Straight</u> Degrees <input type="checkbox"/> East <input type="checkbox"/> North <input type="checkbox"/>	
	<input checked="" type="checkbox"/> West <input type="checkbox"/> South <input type="checkbox"/>	
Depth to Ground Water: <small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) <u>0</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 No	(20 points) (0 points) <u>0</u>
Distance to Surface Water: <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points) <u>0</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 Greater than 100 feet	(10 points) (0 points) <u>0</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 Greater than 100 feet	(10 points) (0 points) <u>0</u>
RANKING SCORE (TOTAL POINTS):		<u>0</u>

Date Remediation Started: 8/28/97 Date Completed: 11/3/97

Remediation Method: Excavation X Approx. Cubic Yards 237

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 237

Other _____

Remediation Location: Onsite _____ Offsite Jicarilla A-18 location

(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 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 7'

Sample date 8/28/97 Sample time 1151

Sample Results

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

Total BTEX (ppm) 0.001 Toluene (ppb) _____

Field headspace (ppm) 30.3 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 9/3/97

PRINTED NAME Ronald A. Dedrick

SIGNATURE Ronald A Dedrick

AND TITLE Environmental Technician II

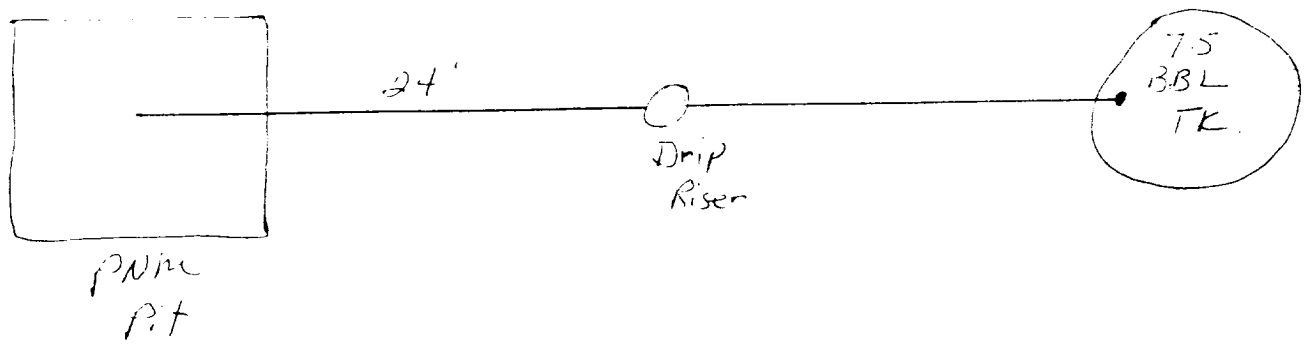
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): SPRAY & CLOSE

SIGNED: Ken C. Merrill

DATE: 9-3-97

Jicarilla 17-1E Drip
Sec 14 T26N R46W 4m.f.P.
W.P.S.



Jicarilla A-1E Drip
Sec. 14 T26N R4W Unit P
LFS

32'x25'x8'

North Wall
Sample 7'
1.6 ppm

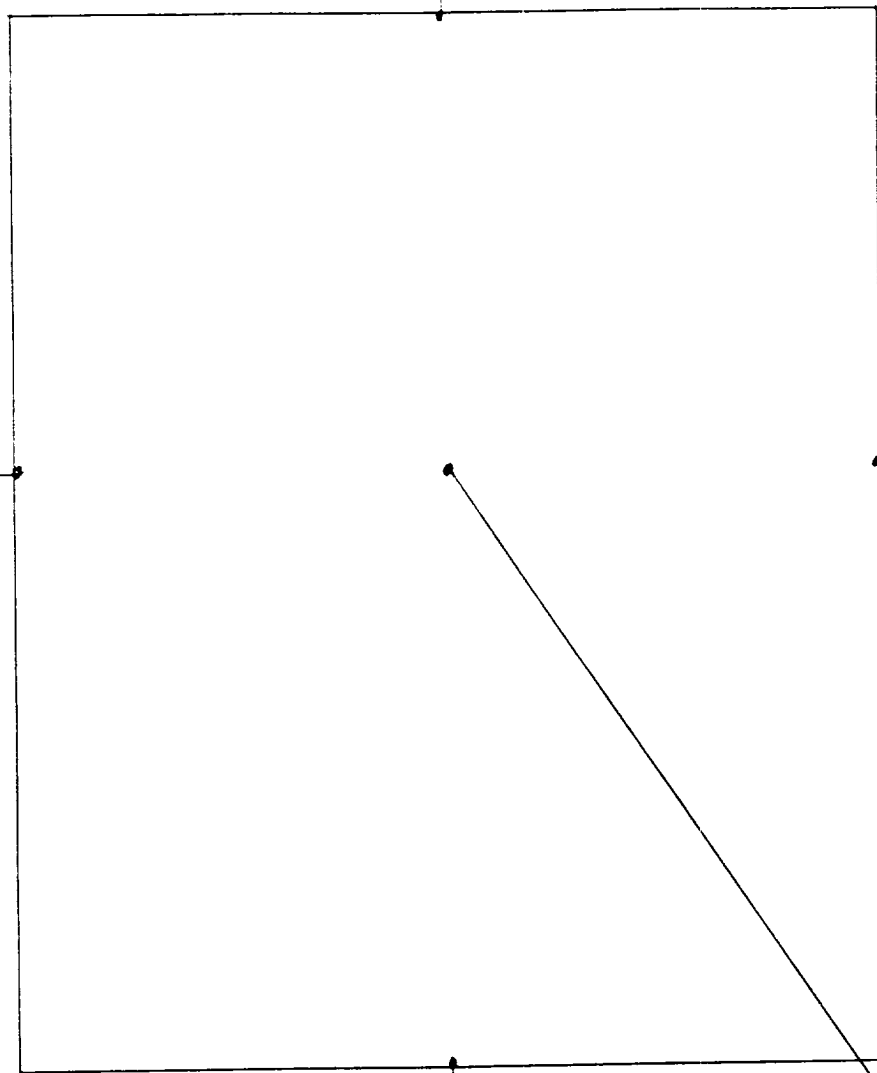
West Wall
Sample 7'
3.2 ppm

East Wall
Sample 7'
30.3 ppm

South Wall
Sample 7'
9.6 ppm

5' Sample - 362 ppm

Bottom 8'
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: *2-Sep-97*
COC No.: *5574*
Sample No.: *15975*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-18 Drip*

Project Location: *9708281151; 4pt. Composite*

Sampled by: *PA* Date: *28-Aug-97* Time: *11:51*

Analyzed by: *DC/HR* Date: *2-Sep-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	176	12.8	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	84	80	(70-130)	6	20%

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

Approved by: *JAC*
Date: *9/2/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *2-Sep-97*
COC No.: *5574*
Sample No.: *15975*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-18 Drip*

Project Location: *9708281151; 4pt. Composite*

Sampled by: *PA* Date: *28-Aug-97* Time: *11:51*

Analyzed by: *HR* Date: *1-Sep-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>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	1	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: *9/2/97*

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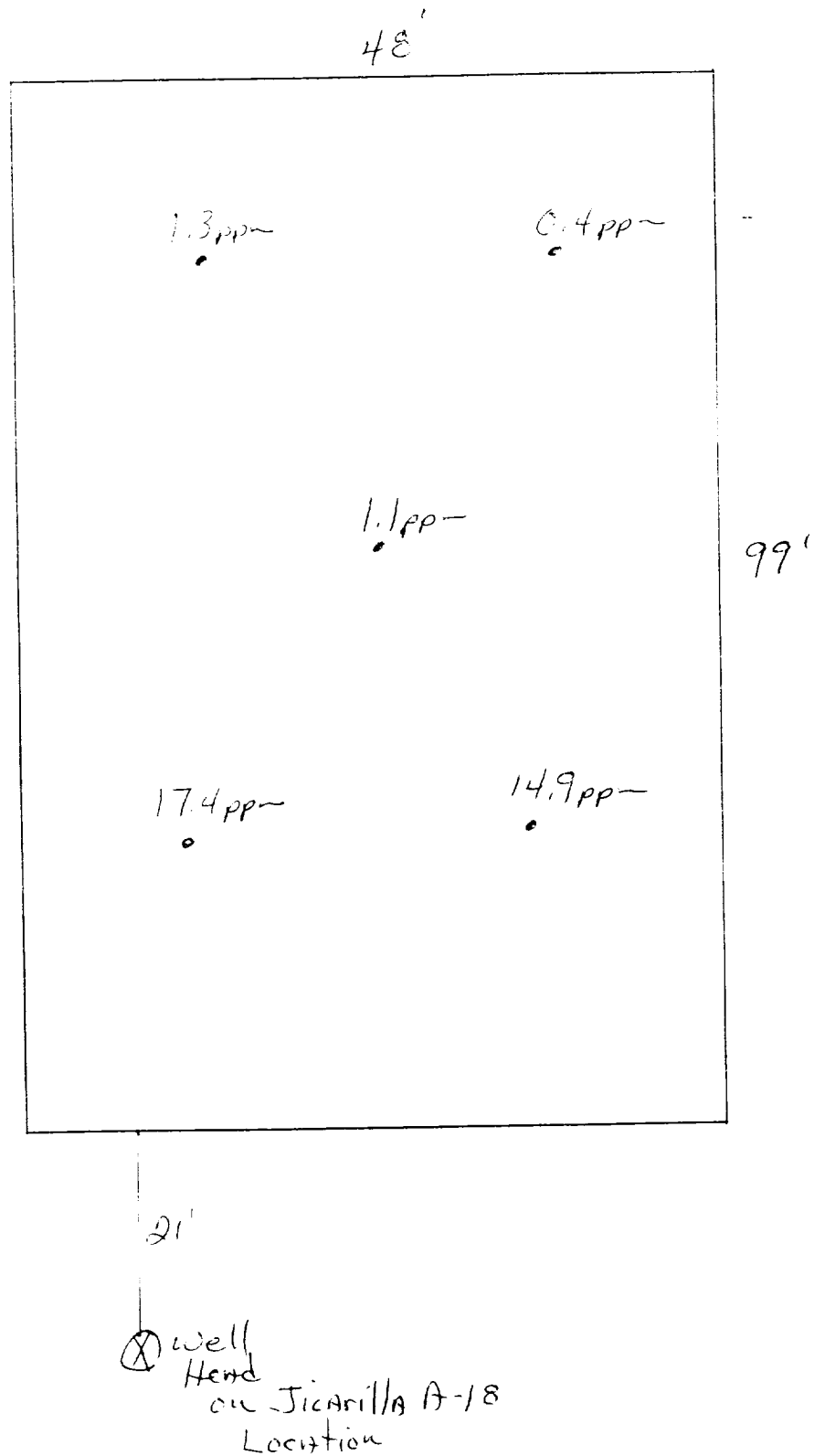
SUBMIT 1 COPY TO
NATURAL
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AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (WFS) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicarilla A-18 Drip	
Location: Unit: P Sec. 14 T. 26 N R. 4 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 9/28/97 Date Completed: 9/15/97	
Remediation Method: Landfarmed X Approx. cubic yards 237	
Composted	
Other	
Depth to Ground Water: (pts.) 0	Final Closure Sampling: Sampling Date: 9/10/97 Time 1139 Sampling Results: Field Headspace (ppm) 17.4 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 9/18/97 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) we are backfill	
SIGNED: [Signature] DATE: 9-30-97	

Jicarilla A-18 Drip
Sec 14 T26N R46W Unit 1
CFS

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: *17-Sep-97*
COC No.: *5596*
Sample No.: *16135*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla A-18 Drip Landfarm*
Project Location: *9709101139; 5pt. Composite*
Sampled by: *RB* Date: *10-Sep-97* Time: *11:39*
Analyzed by: *DC/HR* Date: *15-Sep-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.: 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	197	1.5	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	100	94	(70-130)	6	20%

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

Approved by:

Date:

DC
9/17/97

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