

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

FEB 26 1998

ENVIRONMENTAL PROTECTION OFFICE

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 Apache 102-4
Location: Unit: K Sec. 3 T. 24 N R. 4 W County Rio Arriba
Pit Type: Separator Dehydrator Other Two Drips
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 36 width 26 depth 17
(Attach diagram) Reference: wellhead X other
Footage from reference: 46'
Direction from reference: Straight Degrees East North
of X West South

Depth to Ground Water: <small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (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 (20 points) No (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 (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (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 (10 points) Greater than 100 feet (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 (10 points) Greater than 100 feet (0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):		<u>0</u>

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OIL CON. DIV.
DIST. 3

Date Remediation Started: 7/21/97 Date Completed: 9/3/97

Remediation Method: Excavation X Approx. Cubic Yards 589

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 589

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 and pit bottom as to get a below 100ppm head space reading.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling: Sample Location North East South West side wall and Bottom of pit.

(if multiple samples, attach sample result and diagram of sample locations and depths.) Sample depth 17'

Sample date 7/21/97 Sample time 1202

Sample Results

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

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 52.4 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 7/29/97 PRINTED NAME Ronald A. Dedrick

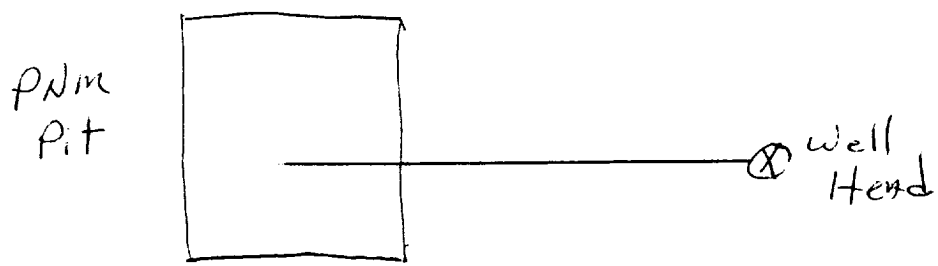
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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): _____

SIGNED: Kent McCall DATE: 7-29-97

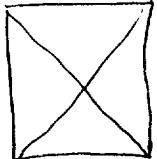
Jicarrilla Apache 102-6
Sec. 3 T26N R4W Unit K
Amoco



○ ○ Drip Risers.

○ ○ Drip Columns

meter House



Jicarilla Apache 102-6
Sec. 3 T26N R4W Unit K
Amoco

36' x 26' x 17'

North Wall
Sample 16'
52.4 ppm

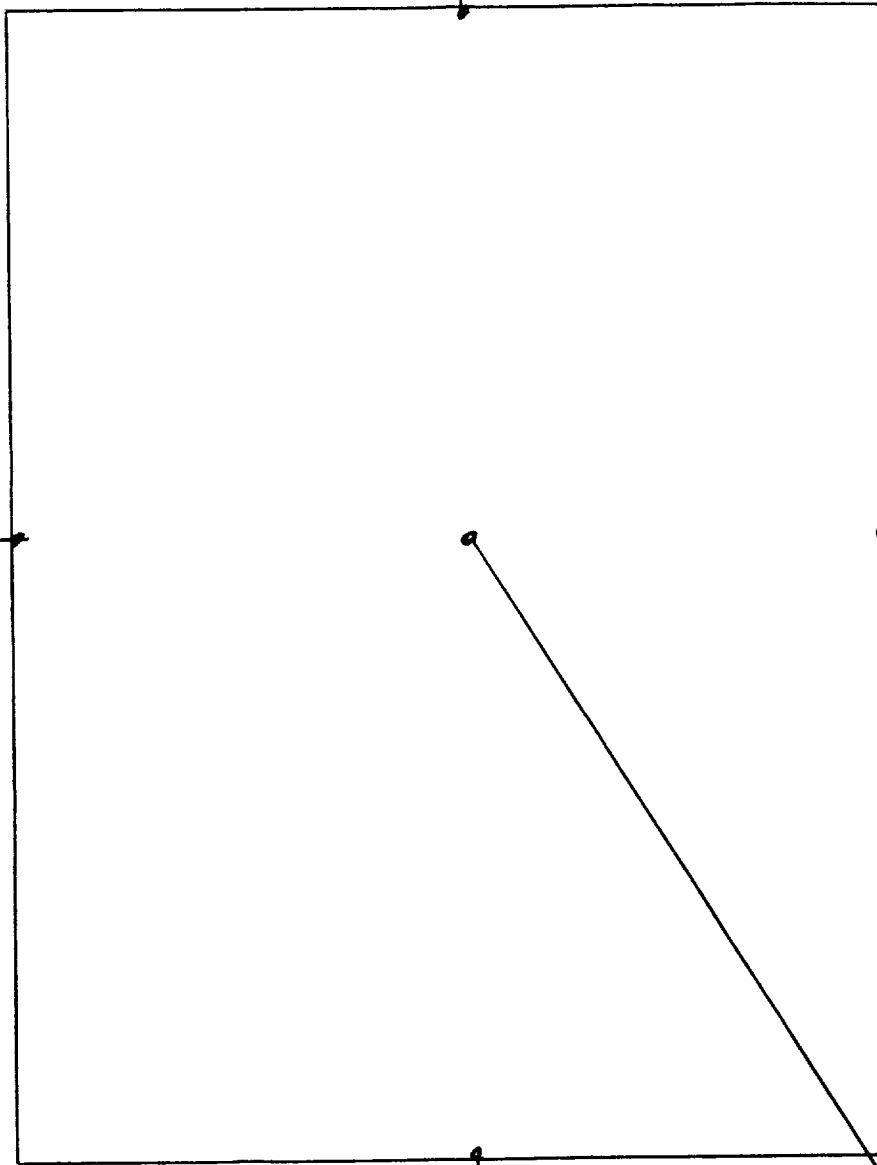
West Wall
Sample 16'
12.4 ppm

East Wall
Sample 16'
5.1 ppm

South Wall
Sample 16'
18.1 ppm

Bottom
Sample 17'
26.6 ppm

5' Sample - 252 ppm
10' Sample - 205 ppm
15' Sample - 105 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: *29-Jul-97*
 COC No.: *5519*
 Sample No.: *15472*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla Apache 102-6*
 Project Location: *9707211202; 5pt. Composite*
 Sampled by: *PA* Date: *21-Jul-97* Time: *12:02*
 Analyzed by: *DC* Date: *25-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	198	1.0	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	94	96	(70-130)	1	20%

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

Approved by: *[Signature]*
 Date: *7/29/97*

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

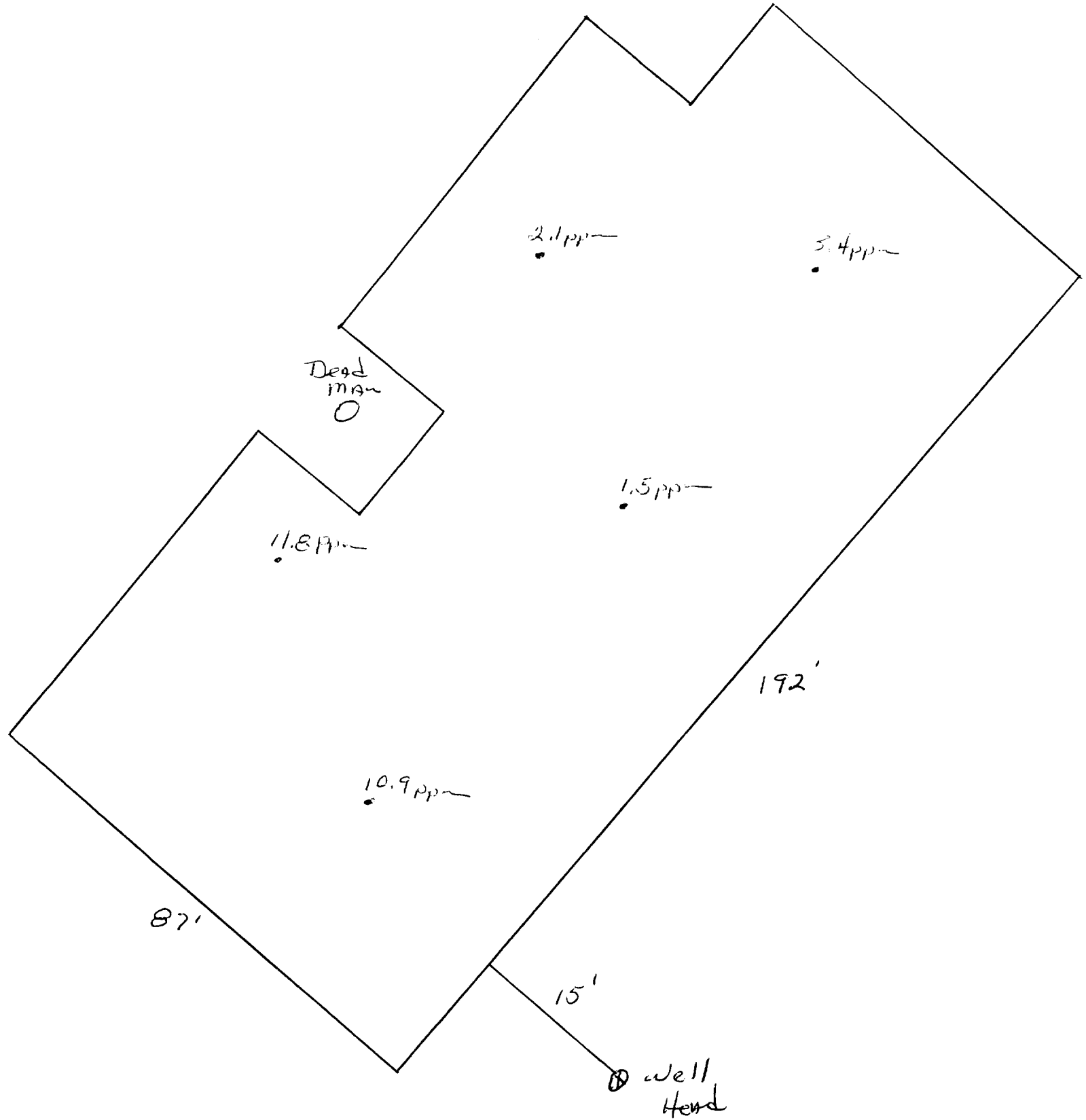
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NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

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 102-6	
Location: Unit: K Sec. 3 T. 26 N R. 4 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 7/21/97	Date Completed: 8/11/97
Remediation Method: Landfarmed <input checked="" type="checkbox"/>	Approx. cubic yards: 589
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth to Ground Water: (pts.) 0	Final Closure Sampling: Sampling Date: 8/7/97 Time 0910 Sampling Results: Field Headspace (ppm) 11.8 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: 8/15/97	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 <input type="checkbox"/> (REASON) use as Backfill	
SIGNED: [Signature]	DATE: 8-18-97

Jicarilla Apache 102-6
Sec. 3 T26N R4W Unit K
Amooc

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-Aug-97*
 COC No.: *5543*
 Sample No.: *15701*
 Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla Apache 102-6 Landfarm***

Project Location: ***9708070910; 5pt. Composite***

Sampled by: SA Date: 7-Aug-97 Time: 9:10

Analyzed by: HR/DC Date: 11-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	215	7.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	84	85	(70-130)	1	20%

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

Approved by: *[Signature]*
 Date: *8/13/97*

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