# Denny & Four JICARILLA APACHE TRIBE DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

JUN 23 1998

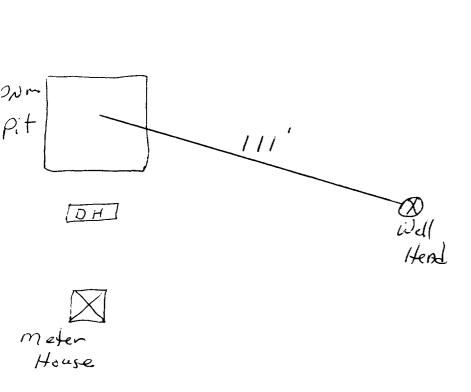
P.O. BOX 507 DULCE, NEW MEXICO 87528

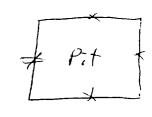
PIT REMEDIATION AND CLOSURE REPORT

and the state of t	
Operator: PNM Gas Services ( Amoco ) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicarilla Contract 147-3E	
Location: Unit: P Sec. 6 T. 25 N R. 5 W County Rio Arriba	
Pit Type: Separator Dehydrator X Other	
Land Type: Jicarilla Apache	
Pit Location: Pit dimensions: length 34' width 30' depth 8'	
(Attach diagram) Reference: wellhead X other	
Footage from reference:	_
Direction from reference: ,3 O Degrees East North	_
West South	
Depth to Ground Water:  Less than 50 feet (20 points)  (20 points)  (20 points)  (20 points)	øs
(Vertical distance from contaminants to seasonal high water elevation of ground water)  DECETIVES  Greater than 100 feet (0 points)	<u>50                                    </u>
Wellhead Protection Area:  (1 ess than 200 feet from a provele domestic No (20 points)  FEB = 3 mos	8
water source, or, less than 1,000 feet from all other water sources)	
Distance to Surface Water:	<i>1</i> /
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)  200 feet to 1,000 feet (10 points)  Greater than 1,000 feet (0 points)	<u> </u>
Distance to Ephemeral Stream (dry wash): Less than or equal to 100 feet (10 points)	d
(Horizontal distance to all downgradient streams having a width of at least 10 feet)  Greater than 100 feet (0 points)	<u>~</u>
Distance to Nearest Lake, Playa, or Watering  Less than or equal to 100 feet  Greater than 100 feet  (10 points)  (0 points)	6
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife	
water ponds)	1
RANKING SCORE (TOTAL POINTS):	<u></u>

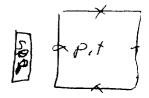
Date Remediation Started	: <u>9/22/97</u>	Date Completed:
Remediation Method:	Excavation X	Approx. Cubic Yards
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds): 302
sections)	Other	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X	Offsite
	ntaminated soil  get a below 100  offor is rock	from All four side
Ground Water Encounte	red: No Yes	Depth
Final Pit Closure Sampling:	Sample Location Non-	East South And
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth $\frac{7}{9/22/9}$	フ Sample time /32/
S	Sample Results	
	Benzene (ppm) O,OO	Water: Benzene (ppb)
٦	fotal BTEX(ppm <u>(), 42</u> 8	Toluene (ppb)
F	Field headspace (ppm) 97.	Ethylbenzene (ppb)
7	TPH <u>/ろろ ppm</u> Method <u>-</u>	8015 Total Xylenes (ppb)
Ground Water Sample	e: Yes No	(If yes, attach sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY E		RUE AND COMPLETE TO THE BEST OF MY
DATE <u>9/.3</u>	:/97 PRIN	TED NAME Ronald A. Dedrick
SIGNATURE Kana	Rd A. Deduck AND	TITLE Environmental Technician II
	E PIT CLOSURE INFORMATION, PI TRIBE PIT CLOSURE ORDINANCE	T CLOSURE IS APPROVED IN ACCORDANCE
APPROVED: YES	NO (REASON	1): 3pnay 4 close
SIGNED:	Manl DAT	E: 9-30-97

JICARILLA Contract 147-3E Sec 6 T25N RSW Unit P Amoco



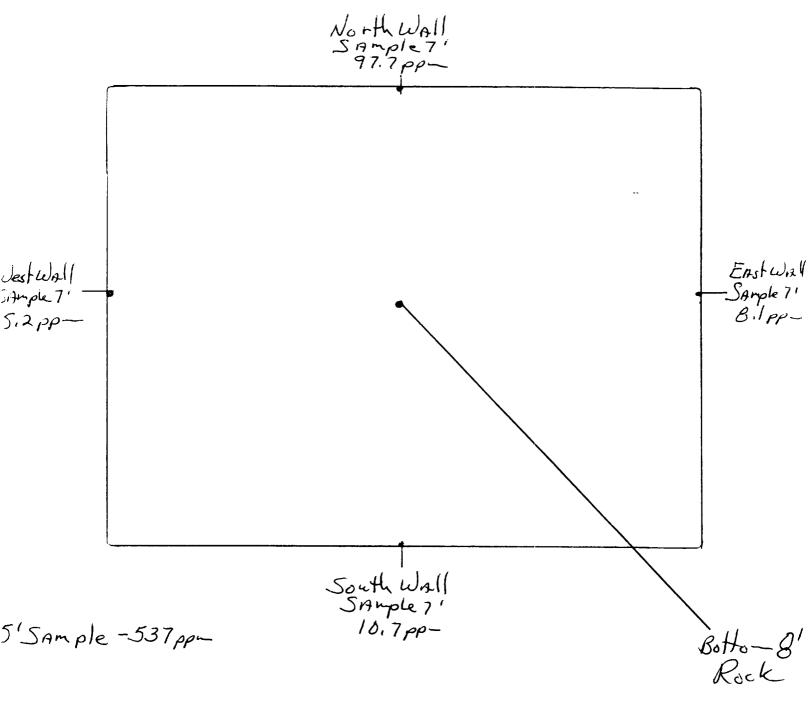






Jicarilla Contract 147-3E Sec. 6 T2SN RSW Unit P Amoco

34×30×8



OFF: (505) 325-5667



LAB: (505) 325-1556

# ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

30-Sep-97

Company: PNM Gas Services

COC No.:

5592

Address:

16329

603 W. Elm

Sample No.:

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Jicarilla Contract 147-3E

Project Location:

TN

9709221321; 4pt. Composite Date:

22-Sep-97 Time:

13:21

Sampled by: Analyzed by:

HR/DC

Date:

29-Sep-97

Sample Matrix:

Soil

## Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	153	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
Diesel Range (C10 - C28)	ND	ppm	200	182	9.4	15%

Matrix Spike

	-				
	1- Percent	2 - Percent			RPD
Parameter	Recovered	Recovered	Limit	RPD	Limit
				_	
Diesel Range (C10-C28)	89	98	(70-130)	9	20%

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



P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

# ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

29-Sep-97

Company: PNM Gas Services

COC No.:

5592

Address:

603 W. Elm

Sample No.:

16329

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Jicarilla Contract 147-3E

**Project Location:** 

9709221321; 4pt. Composite TN

Date:

22-Sep-97 Time:

13:21

Sampled by: Analyzed by:

DC

Date:

26-Sep-97

Sample Matrix:

Soil

### Laboratory Analysis

		Results	Unit of	Limit of	Unit of
Parameter		as Received	Measure	Quantitation	Measure
1.5			_		
Benzene		11	ug/kg	1	ug/kg
Toluene		3	ug/kg	1	ug/kg
Ethylbenzene		72	ug/kg	1	ug/kg
m,p-Xylene		93	ug/kg	1	ug/kg
o-Xylene		259	ug/kg	1	ug/kg
	TOTAL	428	ug/kg		

ND - Not Detected at Limit of Quantitation

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

# 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) Tel	lephone: 324-3764							
Address: 603 W. Elm Street Farmington, NM 87401								
Facility or Well Name: Jicarilla Contract 147-3E								
Location: Unit: P Sec. 6 T. 25	N R. <u>5 W</u> County Rio Arriba							
Land Type: Jicarilla Apache								
	prox. cubic yards 302							
Other								
Depth to Ground Water: (pts.)	Final Closure Sampling:							
Distance to an Ephemeral Stream: (pts.)	Sampling Date: 1//6/97 Time 0925							
Distance to Nearest Lake, Playa, (pts.)	Sampling Results:							
Wellhead Protection Area: (pts.)	Field Headspace (ppm) <u>27.4</u>							
Distance to Surface Water: (pts.)	TPH (ppm) 38 Method 80/5							
Ranking Score (Total Points):								
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COM	PLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF							
DATE PRINTED NAME Ronald A. Dedrick								
SIGNATURE Randle 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) USC	as Rostfill							
SIGNED: DATE:	11-12-97							

Jicarilla Contract 147-3E Sec. 6 Tash RSW Unit P Amoco

Landfarm

135' 11.8 pp. 27.4pp-12.6pp-3.7pp-

144 "

OFF: (505) 325-5667



LAB: (505) 325-1556

# ANALYTICAL REPORT

Attn:

Denver Bearden

Date:

7-Nov-97

Company: PNM Gas Services

COC No.:

5632

Address:

Sample No.:

16783

603 W. Elm

City, State: Farmington, NM 87401

Job No.:

2-1000

PNM Gas Services - Jicarilla Contract 147-3E Landfarm

Project Name: Project Location:

9711060925; 5pt. Composite

Sampled by:

RB

Date:

6-Nov-97 Time:

9:25

Analyzed by:

DC/HR

Date:

7-Nov-97

Sample Matrix:

Soil

# Laboratory Analysis

Parameter	Results as	Unit of	Limit of	Unit of
	Received	Measure	Quantitation	Measure
Diesel Range Organics (C10 - C28)	38	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
Diesel Range (C10 - C28)	ND	ppm	200	190	5.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	124	116	(70-130)	5	20%

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