Denny 2 7 JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

DEFUTY OIL & GAS HUMESTO ENVIRONMENTAL PROTECTION OFFICE

FEB ( & 1998

P.O. BOX 507 DULCE, NEW MEXICO 87528

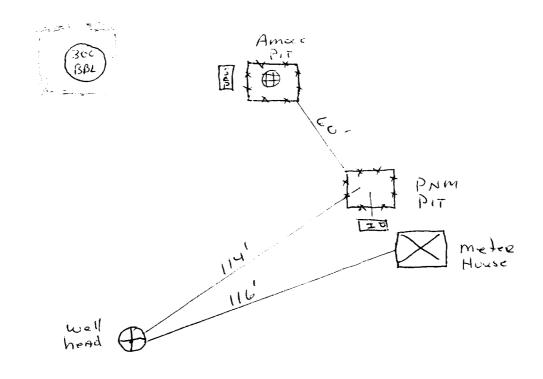
## PIT REMEDIATION AND CLOSURE REPORT

the state of the s	
Operator: PNM Gas Services (Amoco	<u>) Telephone: 324-3764</u>
Address: 603 W. Elm Street Farmington, NM 874	01
Facility or Well Name: JICARING Apache	TRIBAL 151-7E
Location: Unit: D Sec.	T. 26 N R. 5 W County Rio Arriba
Pit Type: Separator Dehydrator	Y Other
Land Type:	
Pit Location: Pit dimensions: length	15' width 15' depth 3'
(Attach diagram) Reference: wellhead	other
Footage from reference:	114'
Direction from reference: 4	
Bilection nonvelorations.	of
	West South
Depth to Ground Water:	Less than 50 feet (20 points)
(Vertical distance from contaminants to seasonal high water elevation of	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
ground water)	Yes (20 points) Of
Wellhead Protection Area:	Yes (20 points) ————————————————————————————————————
water source, or, less than 1,000 feet from all cilier water sources!	
Distance to Surface Water:	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Greater than 1,000 feet (0 points)
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet (10 points)  Greater than 100 feet (0 points)
(Horizontal distance to all downgradient streams having a width of at least 10 feet)	Greater than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Watering	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)
Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	(= F====)
	RANKING SCORE (TOTAL POINTS):

Date Remediation Started: 6/8/98	Date Completed:				
Remediation Method: Excavation	Approx. Cubic Yards187				
(Check all Landfarmed X appropriate	Amount Landfarmed (cubic yds): (87				
Other					
Remediation Location: Onsite	Offsite				
	zom all Four Side walls read space Reading. Pit botlow 3 point composite Et Sample 21/x 26/x 12/				
Ground Water Encountered: No Yes	Depth				
Final Pit Closure Sample Location Sample Location  And  And  (if multiple samples, attach sample result and diagram of	EAST South, west side walls PIT bottom				
sample result and diagram of sample locations and depths.)  Sample Results  Sample Results	Sample time <u>OBA6</u>				
Soil: Benzene (ppm) 2.000	Water: Benzene (ppb)				
Total BTEX(ppm 209.500	Toluene (ppb)				
Field headspace (ppm) 827	Ethylbenzene (ppb)				
TPH N#D R6 ppm Method	SC15 Total Xylenes (ppb)				
Ground Water Sample: Yes No	(If yes, attach sample results)				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS KNOWLEDGE AND MY BELIEF	TRUE AND COMPLETE TO THE BEST OF MY				
	NTED NAME Roy Burnham				
SIGNATURE Roy Burnham AN	D 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 (REASC	ON): RA Attached				
SIGNED: Kent Maull DA	TE: 1-28-98				

JICHRILLA APACHE IRIBAL 151-76 Sec-4 T-26A R-5W UNITO

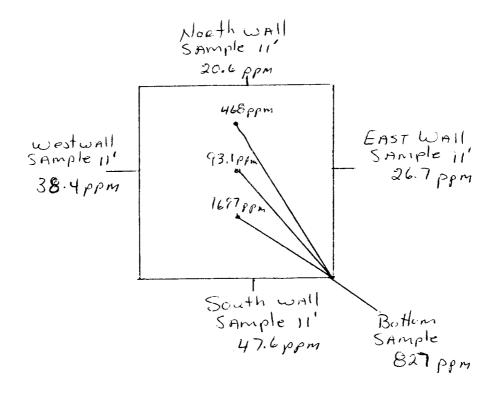
Site DRAwing



JICARILLA APACHE TRIBAL 151-7E SEC-4 T-26N R-5W unit D Amoco

21'x 20'x12'

# EXCAUATION DRAWING



5' SAMPle 1008 ppm 10' SAMPle 342 ppm 12' SAMPle 468/931/1697 ppn



LAB: (505) 325-1556

#### TECHNOLOGIES, LTD.

On Site Technologies, LTD.

**Date:** 17-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9806037

**CASE NARRATIVE** 

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



LAB: (505) 325-1556

#### TECHNOLOGIES, LTD.

### ANALYTICAL REPORT

Date: 17-Jun-98

Client:

PNM - Public Service Company of NM

Work Order: 9806037

Lab ID:

9806037-04A

Matrix: SOIL

**Project:** 

Jicarilla Pit Remediation

Client Sample Info: Jicarilla Apache Tribal 151-7E

Client Sample ID: 9806090826; 3pt. Comp. Bottom

Collection Date: 6/9/98 8:26:00 AM

COC Record: 7161

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015			Analyst: <b>HR</b>		
T/R Hydrocarbons: C10-C28	290	25		mg/Kg	1	6/16/98
втех	SI	N8020A				Analyst: DC
Benzene	2000	1000		μg/Kg	1000	6/13/98
Toluene	52000	2000		µg/Kg	1000	6/13/98
Ethylbenzene	7500	1000		μg/Kg	1000	6/13/98
m,p-Xylene	120000	2000		μg/Kg	1000	6/13/98
o-Xylene	28000	1000		μg/Kg	1000	6/13/98
	209,50	2C				
	209,5°	SPF	_			

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

#### TECHNOLOGIES, LTD.

#### ANALYTICAL REPORT

Date: 17-Jun-98

Client:

PNM - Public Service Company of NM

Work Order: 9

9806037

9806037-03A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Jicarilla Apache Tribal 151-7E Client Sample ID: 9806090825; 4pt. Comp. Walls

Collection Date: 6/9/98 8:25:00 AM

COC Record: 7161

Parameter	Result	PQL Q	oual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: <b>HR</b>
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/11/98

Qualifiers:

PQL - Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I



Well Name:
Well Legals:
Pit Type:
Horizontal Distance to Surface Water:
Groundwater Depth:

Jicarilla Apache Tribal 151-7E Unit D, Sec 4, T26N, R5W Dehydrator Greater than 1,000 ft Greater than 100 ft

#### **RISK ANALYSIS**

PNM requests closure of their former pit on the Jicarilla Apache Tribal 151-7E well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 114 feet based upon the elevation of the site and the elevation of the nearest "named" wash (Cereza Canyon). (Reference: Vigas Canyon series 7.5 minute topographic map.)
- 2. The site is located outside of the "vulnerable area" as defined under OCD Order No. R-7940-C.
- 3. The site is not located within 200 feet of a domestic water well and is not within 1,000 feet of any other water source.
- 4. PNM excavated 187 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
- 5. Bedrock was encountered at 12 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 6. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Jicarilla Apache Tribal 151-7E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

JICARILLA APACHE TRIBE
ENVIRONMENTAL
PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

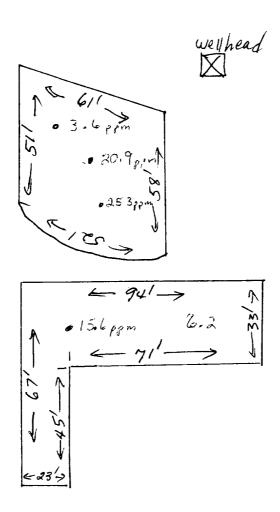
SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL -GAS ADMINISTRATION

### **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: TICARILL A BACKE TRING! 151-76						
		Sec. <u>4</u> T				
Land Type:						
Date Remediation Started:	: 4/3/98	, , , , , , , , , , , , , , , , , , , ,	Date Complete	ed: 7/14/92		
Remediation Method:	Landfarmed X		Approx. cubic ya			
	Composted					
Depth to Ground Water:		(pts.)		Final Closure Sampling:		
Distance to an Ephemera	al Stream:	(pts.)	Sampling D	ate: <u>7/2/9용</u> Time <u>0</u> 9명동		
Distance to Nearest Lake or Watering Pond:	e, Playa,	(pts.) 7	Sampling R	esults:		
Wellhead Protection Area	a:	(pts.)	Field Head	dspace (ppm) $25.\overline{3}$		
Distance to Surface Wate	er:	(pts.) <u> </u>	TPH	(ppm) <u>パラ</u> Method <u>多ので</u>		
Ranking Score (To	tal Points):	_7_	Other			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF						
DATE 7/14/98 PRINTED NAME Roy Burnham						
DATE  7/14/98  PRINTED NAME  Roy Burnham  SIGNATURE  ROY Burnham  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 > NO (REASON) Use els Beackfull						
APPROVED: YES NO (REASON) WE CES BUILTY						
SIGNED: Lex 7-28-98						

JICARILLA APALLAETRIBAL 151-7E AMOCO UNIT D SEC 4 T26N R5W LANDFARM DRAWING





LAB: (505) 325-1556

### On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Landfarms

Lab Order:

9807019

**CASE NARRATIVE** 

Date: 14-Jul-98

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



LAB: (505) 325-1556

#### ANALYTICAL REPORT

Date: 14-Jul-98

Client:

Lab ID:

PNM - Public Service Company of NM

Work Order:

9807019

9807019-01A

Matrix: SOIL

COC Record: 7262

Client Sample Info: Jic. Apache Tribal 151-7E LF

Client Sample ID: 9807070945; 5pt. Comp.

**Collection Date:** 7/7/98 9:45:00 AM

Landfarms Project:

Parameter	Result	PQL (	Qual Units	DF	Date Analyzed	_
DIESEL RANGE ORGANICS SW8015					Analyst: DC	
T/R Hydrocarbons: C10-C28	ND	50	mg/Kg	1	7/14/98	

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

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Surr: - Surrogate

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