DEPUTY OIL & GAS INSPECTOR
FEB 0 8 1999

P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT ONE COPY TO NATURAL RESOURCE DEPT AND OIL- GAS **ADMINISTRATION**

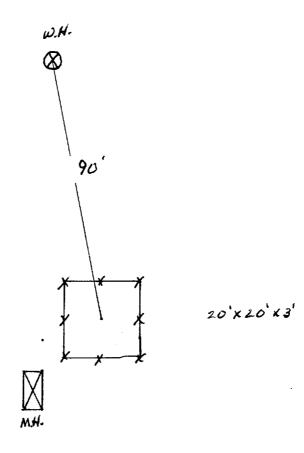
PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (CONOCO	
Address: 603 W. Elm Street Farmington, NM	37401
Facility or Well Name: Jicarilla K21	
Location: Unit A Sec 1 T 25 Pit Type: Separator ✓ Dehydrator ☐ Land Type: Jicarilla Apache	N R 5 W County Rio Arriba Other
Pit Location: Pit dimensions: Length 20 ' (Attach diagram) Reference: Wellhead 2 Footage from reference: 90'	Width 20' Depth 3' Other
Direction from reference: 5 degrees	✓ East □ North Of ✓ South
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
Wellhead Protection Area: (Less than 200 feet from a private domestic water sources) or, less than 1,000 feet from all other water sources)	Yes (20 points) No (0 points)
Distance to Surface Water: (Horizontal distance to perrenial 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 100 feet (0 points)
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)
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) O
RANKIN	G SCORE (TOTAL POINTS): 0

Date Remediation Started	1: 10/28/98		Date Completed:	12/15/98
Remediation Method:	Excavation		Approx. Cubic Yards	900
	Landfarmed		Amount Landfarmed	(cubic yds)
sections)	Other		·	
Remediation Location:	Onsite 🔽		_Offsite	
(i.e., landfarmed onsite, name and location of offsite facility)				
General Description of Re Removal of contaminate reading.	emedial Action: d soil from all four side	walls, and bott	om as to get a below	100 ppm head space
Final excavation dimens	ions: 28'(N&S)X28'(E	&W)X31'(D)		
Ground Water Encounter	ed: No 🔽	Yes	Depth	
Final Pit Closure Sampling:	Sample Location Compo point co	omposite of bo	ttom.	t sidewalls and a three
(if multiple samples, attach sample result and diagram of	Sample depth	78' G	71, (KZ)	
sample locations and depths.)	Sample date10/	30/98	Sample time	1030
:	Sample Results			
So	il: Benzene (ppm)	ND	Water	Benzene (ppb)
	Total BTEX (ppm)	0.031		Toluene (ppb)
Fid	eld headspace (ppm)	25.6	1	Ethylbenzene (ppb)
	TPH (ppm) ND	M	ethod <u>8015</u>	Total Xylenes (ppb)
Vertical Extent (ft)	His His	Risk Ana	alysis form attached:	Yes No 🔽
Ground Water Sample:		V		oundwater Site Summary Report)
I HEREBY CERTIFY THA KNOWLEDGE AND MY B		BOVE IS TRUE		
DATE: 12-1-48		• •	PRINTED NAME	
SIGNATURE Ka				ronmental Tech. III
AFTER REVIEW OF THE TO JICARILLA APACHE			SURE IS APPROVED	IN ACCORDANCE
APPROVED: YES X	No	(REASO	1):	
SIGNATURE:	-CMan	<u> </u>	DATE: 12-	15-98

Jicavilla K-21 CONDCO Sec 1, 25N, 5U, A

Site Drawing:



Not to Scale

Jicar: 1/2 K-21 Conoco Sec 1, 25 N, 5W. A

South Wall North Wall 6.2 ppm @ 16' 8.9 ppm @29' East Wall West Wall 2.7 PPA@ 29' .8 tpm@ 29' **Bottom**

15.6/PM @31'



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla K-21

Lab Order:

9810092

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

Date: 16-Nov-98

ANALYTICAL REPORT

PNM - Public Service Company of NM

Work Order: 9810092

Lab ID:

Matrix: SOIL 9810092-01A

Project:

Client:

Jicarilla K-21

Client Sample Info: Jicarilla K-21

Client Sample ID: 9810301025; 3pt. Bottom Comp.

Collection Date: 10/30/98 10:25:00 AM

COC Record: 5770

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015			Analyst: HR	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	11/11/98
втех	SV	V8020A			Analyst: HR
Benzen e	ND	1	μg/K g	1	11/1/98
Toluene	4.1	2	μ g/Kg	1	11/1/98
Ethylbenzen e	1.2	1	μ g/Kg	1	11/1/98
m,p-Xylen e	20	2	µg/ Kg	1	11/1/98
o-Xylene	6.1	1	µg/ Kg	1	11/1/98
	31.4				
	31.4 .0314	pp			

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

ANALYTICAL REPORT

Date: 16-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9810092

Matrix: SOIL

Lab ID: **Project:** 9810092-02A Jicarilla K-21

Client Sample Info: Jicarilla K-21

Client Sample ID: 9810301030; 4 Wall Comp.

Collection Date: 10/30/98 10:30:00 AM

COC Record: 5770

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V8015		Analyst: HR	
T/R Hydrocarbons: C10-C28	25	25	mg/K g	1	11/11/98

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

ANALYTICAL REPORT

Date: 16-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

Lab ID:

Project:

9810092

9810092-03A

Matrix: SOIL

Jicarilla K-21

Client Sample Info: Jicarilla K-21

Client Sample ID: 9810301035; North Wall

Collection Date: 10/30/98 10:35:00 AM

COC Record: 5770

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V801 5			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/ Kg	1	11/11/98

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

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

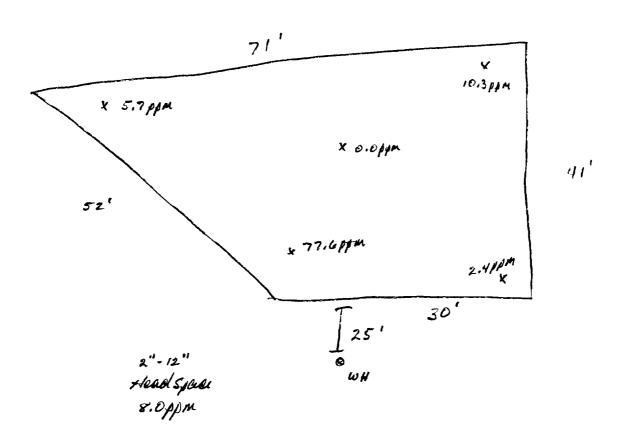
SUBMIT ONE COPY
TO NATURAL
RESOURCE DEPT
AND OIL- GAS
ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: PN	M Gas Servic es	(CONOC	0)	_Telephone:	324-37	64
Address: 603	3 W. Elm Street	Farmington, NM	87401			
Facility or Well N	Name: Jicarilla K2	1 Land Farm				
Location: Uni	it A Sec	1T_	25 N F	8 <u>5 W</u>	County	Rio Arriba
Land Type:	Jicarilla Apache					
Date Remediation	n Started: 10	0/28/98	Date 0	Completed:	12/3/98	
Remediation Me	Landfarmed Composted		Approx. cubic yar	ds <u>900</u>		
	Other					
Depth to Ground		(pts.) 0		Final Closu	•	ng:
·		(pts.)0	Sampling Date	11/30/98		Time_1235
Distance to Neare Watering Pond:	Distance to Nearest Lake, Playa, or (pts.) 0 Watering Pond: Sampling Results:					
Wellhead Protect	tion Area:	(pts.) <u>0</u>	Field Heads	space (ppm)	8.0	
Distance to Surface Water: (pts.) 0 TPH (ppm) 30 Method 8015					Method 8015	
Ranking Score (Total Points): 0 Other						
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF.						
DATE: 12-5-98 PRINTED NAME Ray Haston						
DATE: 12-5-98 PRINTED NAME Ray Haston SIGNATURE Adjustion TITLE Environmental Tech. III						
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE:						
APPROVED: YES X NO (REASON): Who as BOEKfull						
SIGNATURE:	(= CW	7a K	DATE:	12-1	5-98	

Jicarilla K-21
(A) 1-25N-5W
CONOCO
400 yels.





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation Landfarms

Lab Order:

9812001

CASE NARRATIVE

Date: 04-Dec-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: 04-Dec-98

Client:

PNM - Public Service Company of NM

Work Order:

9812001

9812001-06A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation Landfarms

Client Sample Info: Jicarilla K-21 LF

Client Sample ID: 9811301235; 6pt. Composite

Collection Date: 11/30/98 12:35:00 PM

COC Record: 7444

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS SW8015					Analyst: HR
T/R Hydrocarbons: C10-C28	30	25	mg/ Kg	1	12/3/98

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