DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

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

FEB 0 8 1999

ENVIRONMENTAL PROTECTION OFFICE

Happroved

P.O. BOX 507 DULCE, NEW MEXICO 87528

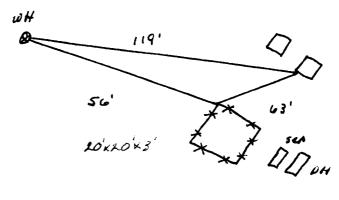
PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Burlington)_Telephone:324-3764
Address: 603 W. Elm Street Farmington, NM 87	401
Facility or Well Name: Jicarilla J13	
Location: Unit 1 Sec 36 T 26 N	R 5 W County Rio Arriba
Pit Type: Separator 🔽 Dehydrator 🔽	Other
Land Type: Jicarilla Apache	
Pit Location: Pit dimensions: Length 20 ' W	/idth <u>20 '</u> Depth 3 '
(Attach diagram) Reference: Wellhead 🔽 O	ther
Footage from reference: 56'	······································
Direction from reference: 63 degrees	East North
	☐ West ☑ 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) 0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source or, less than 1,000 feet from all other water sources) FEF - 1 1000	Yes (20 points) No (0 points) 0
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)	ess 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 takes, playas, and livestock or wildlife water ponds)	ess than or equal to 100 feet (10 points) Greater than 100 feet (0 points) O
RANKING	SCORE (TOTAL POINTS): 0

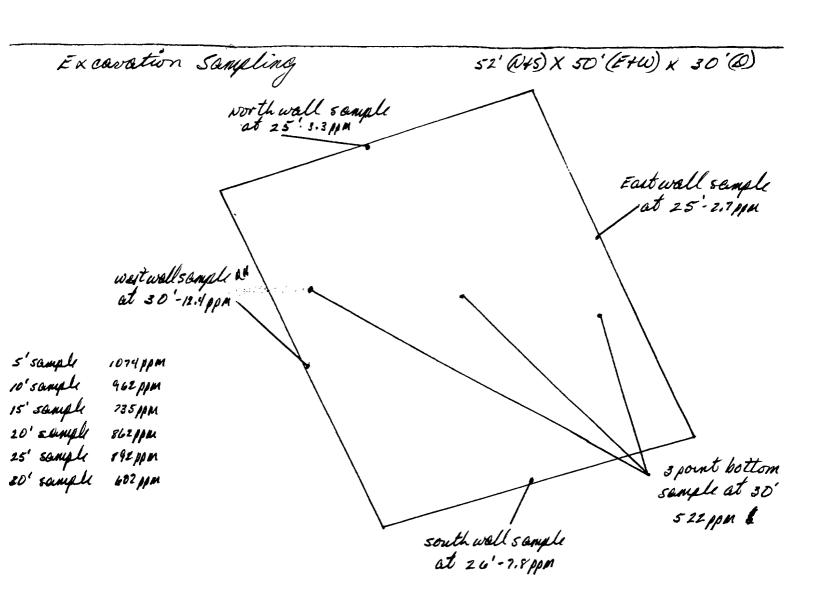
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	Date Remediation Started	10/9/9	8	Date Completed:	12/15/	98	•
	Remediation Method:	Excavation		Approx. Cubic Yard	ls	2800 3542	WH.
	(Check all appropriate sections)	Landfarmed		Amount Landfarme	d (cubic yds)	2889 1444 75	RAD H
		Other					
	Remediation Location:	Onsite 🔽	1		s. transported to	TNT landfarm	
	(i.e., landfarmed onsite, name and location of offsite facility)	791	cu. yds.	on highway	537 for final disp		
	General Description of Re	emedial Action:					
	Removal of contaminated	d soil from all four	sidewalls, as to g	et a below 100 ppm h	ead space read	ling.	
	Bottom is excavated to a	depth greater tha	n 30'.				
	Final excavation dimensi	ions: 52'(N&S)X5	0'(E&W)X30'(D)				
	Ground Water Encountere	ed: No 🔽	Yes	Dept	th	_	
				East, South, and Wes	st sidewalls and	a three	
	Sampling:	poi	nt composite of b	oπom.			
	(If multiple samples, attach sample result and diagram of	Sample depth	30	<u>'</u>			
1	sample locations and depths.)	Sample date	10/16/98	Sample time_	1125	1115	
	<u>s</u>	Sample Results					
	Soil	l: Benzene (ppm)	ND	Wate	r: Benzene (p	opb)	
		Total BTEX (ppm)	77.0	_	Toluene (p	opb)	
1	Fiel	ld headspace (ppm)	522	_	Ethylbenzene (p	opb)	
		TPH (ppm)	1900	Method <u>8015</u>	Total Xylenes (p	opb)	
	Vertical Extent (ft)	AST RAD	Risk A	nalysis form attached:	Yes 🔽	No	<u> </u>
	Ground Water Sample:	Yes	No 🔽	_ (If yes, see attached G	roundwater Site Sur	mmary Report)	
	I HEREBY CERTIFY THAT KNOWLEDGE AND MY BE		N ABOVE IS TRUE	AND COMPLETE TO T	HE BEST OF M	Y	
	DATE: /2.9.98			PRINTED NAME	Ray Haston		
	SIGNATURE ROM	Haston		TITLE Env		h. III	
	AFTER REVIEW OF THE			OSURE IS APPROVED	IN ACCORDANG	Œ	
	TO JICARILLA APACHE TI APPROVED: YES 🔀	NO		on): RA, o	4Hack	rd	
}	SIGNATURE: 4	CM_{\bullet}	10	DATE: /2-			

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LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla J-13 Lab Order: 9810052

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.

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9810052

Lab ID:

9810052-01A

Matrix: SOIL

Project:

Jicarilla J-13

Client Sample Info: Jicarilla J-13

Client Sample ID: 9810161115; 3pt. Comp. Bottom

Collection Date: 10/16/98 11:15:00 AM

COC Record: 5765

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015				Analyst: HR
T/R Hydrocarbons: C10-C28	1900	25		mg/Kg	1	10/27/98
BTEX	SV	V8020A		33	•	
Benzene	ND	500		μg/Kg	500	Analyst: DC 10/22/98
Toluene	5800	1000		μg/Kg	500	10/22/98
Ethylbenzene	4200	500		μg/Kg	500	10/22/98
m,p-Xylene	53000	1000		μg/Kg	500	10/22/98
o-Xylene	14000	500		μg/Kg	500	10/22/98
	77,000	>		F33	500	10/22/30
	שם ער	e C				

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

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9810052

Lab ID: Project: 9810052-02A

Jicarilla J-13

Matrix: SOIL

Client Sample Info: Jicarilla J-13

Client Sample ID: 9810161125; 4 Wall Comp.

Collection Date: 10/16/98 11:25:00 AM

COC Record: 5765

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV ND	V8015	mg/Kg	1	Analyst: HR 10/21/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Jicarilla J #13

Unit I, Sec 36, T26N, R5W

Separator Greater than 1,000 feet

Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla J #13 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 188 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Lapis Point, NM series 7.5 minute topographic map.)
- 2. The site is located outside of the "vulnerable area" as defined under OCC Order No. R-7940-C.
- 3. PNM excavated 2889 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.
- 4. The excavation was terminated at a depth of 30 feet. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Jicarilla J #13 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

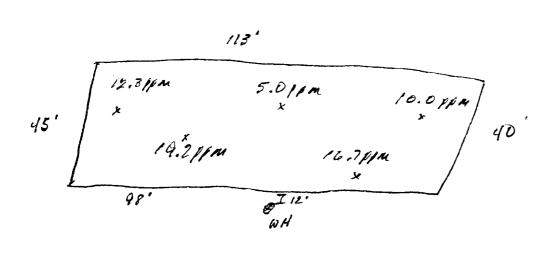
SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (furlish	Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Ticarilla 7	713
Location: Unit: Sec	36 T. Zle N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: 10-9-98 Remediation Method: Landfarmed × Composted Other Francislated	Approx. cubic yards Lung RAD 791 Linto location: Let backfilled from borrow pit.
Depth to Ground Water: (pts.)	© Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.)	O Sampling Date: 11-23-98 Time 1400
Distance to Nearest Lake, Playa, (pts.) or Watering Pond:	Sampling Results:
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 17.8
Distance to Surface Water: (pts.) Ranking Score (Total Points):	<u>O</u> TPH (ppm) <u>420</u> Method <u>8015</u> Other
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS	IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 12-12-98	PRINTED NAME Roy Burnham Kay Haston
SIGNATURE <u>Ray Haston</u>	PRINTED NAME Rey Burnham Kay Haston AND TITLE Environmental Technician III
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	MATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE ELECTION OF THE BOOK OF THE SEASON)
SIGNED: Les C Mando	DATE: 12-15-98

J. carilla J13 (I)-36-26N-5W Aurlington



2ª-12" Head space -17.8 ppm

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LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9811076

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

ANALYTICAL REPORT

Date: 08-Dec-98

Client:

PNM - Public Service Company of NM

Work Order:

9811076

9811076-05A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Jicarilla J-13 LF

Client Sample ID: 9811231400; 6pt Composite

Collection Date: 11/23/98 2:00:00 PM

COC Record: 7406

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 920	V8015	mg/Kg	1	Analyst: HR 12/7/98

Qualifiers:

PQL - Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

four haded off into location, pet backfilled with clean soil from borrow set

1 of 1



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Dec-98

Client:

PNM - Public Service Company of NM

Work Order:

9811076

9811076-06A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Jicarilla J-13 LF

Client Sample ID: 9811231415; 6pt Composite

Collection Date: 11/23/98 2:15:00 PM

COC Record: 7406

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	1100	/8015 25		mg/Kg	1	Analyst: HR 12/7/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499