Denny S. Toust DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

FEB 0 8 1999

ENVIRONMENTAL PROTECTION OFFICE

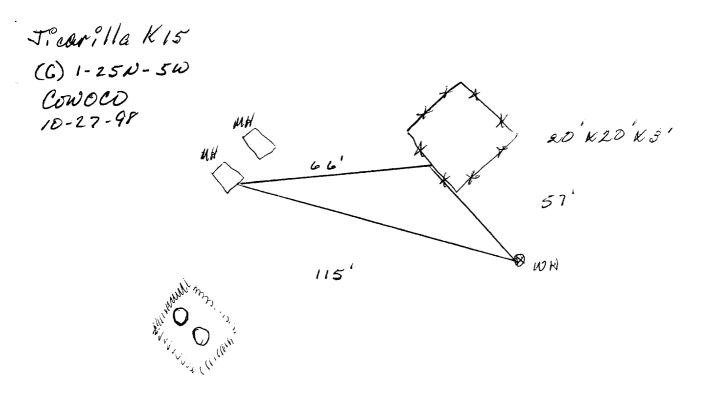
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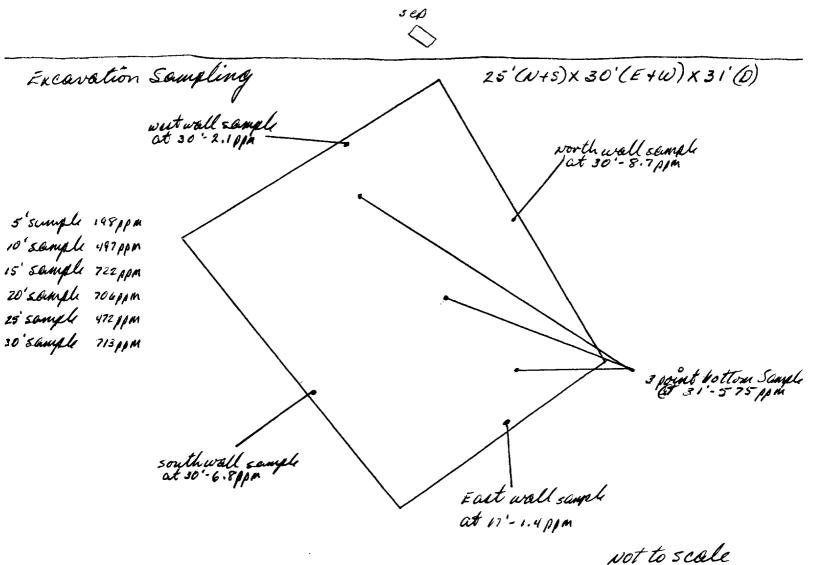
P.O. BOX 507 DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (CONOCO) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicarilla K15	·
Location: Unit G Sec 1 T 25 N R 5 W County Rio	Arriba
Pit Type: Separator Dehydrator Other Manual drip blowdown.	
Land Type:	
Pit Location: Pit dimensions: Length 20 ' Width 20 ' Depth 3 '	
(Attach diagram) Reference: Wellhead 🗹 Other	
Footage from reference: 57'	·
Billocitor for foreigness 21 deg. oct	lorth
— 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)	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) Yes No (20 points) (0 points)	
Distance to Surface Water: (Horizontal distance to perrenial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Less than 200 feet 200 feet to 1,000 feet (10 points) (10 points) (0 points)	0
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 Greater than 100 feet (10 points) (0 points)	10
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 Greater than 100 feet (10 points) (0 points)	0
RANKING SCORE (TOTAL POINTS):	10

Date Remediation Started	1:10/27/98	Date Completed:	12/28/98
Remediation Method:	Excavation 🔽	Approx. Cubic Yards	861
(Check all appropriate sections)	Landfarmed 🔽	Amount Landfarmed (c	ubic yds) <u>861</u>
·	Other		
Remediation Location:	Onsite 🔽	Offsite	·
(i.e., landfarmed onsite, name and location of offsite facility)			- Land American Control of the Contr
General Description of Removal of contaminate		, as to get a below 100 ppm hea	d space reading.
Final excavation dimens	ions: 25'(N&S)X30'(E&W)X	(31'(D)	
Ground Water Encounter	ed: No 🔽	Yes Depth	
Final Pit Closure Sampling:		of North, East, South, and West site of bottom.	sidewalls and a three
(If multiple samples, attach sample result and diagram of	Sample depth	31'	
sample locations and depths.)	Sample date10/29/98	Sample time	1010 1005 RH-
:	Sample Results		
So	il: Benzene (ppm) ND	Water:	Benzene (ppb)
	Total BTEX (ppm) 73.4		Toluene (ppb)
Fie	eld headspace (ppm)57	5 Et	hylbenzene (ppb)
	TPH (ppm) 400	Method 8015 To	tal Xylenes (ppb)
Vertical Extent (ft)	FRAD	Risk Analysis form attached: Y	es 🔽 No 🗍
Ground Water Sample:	Yes No	(If yes, see attached Groun	ndwater Site Summary Report)
I HEREBY CERTIFY THAT KNOWLEDGE AND MY B		IS TRUE AND COMPLETE TO TH	E BEST OF MY
DATE: 11-20-98		PRINTED NAME	Ray Haston
SIGNATURE	Haston	TITLE Environ	nmental Tech. III
	PIT CLOSURE INFORMATION	N, PIT CLOSURE IS APPROVED IN	ACCORDANCE
APPROVED: YES		(REASON): REASON):	Hached
,		10	
SIGNATURE:	=CMa	DATE: 12-1	5-98







OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla K-15

Lab Order:

9810093

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

Client:

OFF: (505) 325-5667

PNM - Public Service Company of NM

Work Order: Lab ID:

Project:

9810093

9810093-01A

Matrix: SOIL

Jicarilla K-15

Client Sample Info: Jicarilla K-15

Client Sample ID: 9810291005; 3pt. Bottom Comp.

Collection Date: 10/29/98 10:05:00 AM

COC Record: 7201

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	400	25	mg/K g	1	11/11/98
ВТЕХ	SW8020A				Analyst: HR
Benzene	ND	200	μg/Kg	200	11/2/98
Toluene	14000	400	μ g/Kg	200	11/2/98
Ethylbenzene	4400	200	μg/Kg	200	11/2/98
m,p-Xylene	45000	400	μg/Kg	200	11/2/98
o-Xylene	10000	200	μg/Kg	200	11/2/98

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

TECHNOLOGIES, LTD

LAB: (505) 325-1556

ANALYTICAL REPORT

Client:

OFF: (505) 325-5667

PNM - Public Service Company of NM

Work Order:

9810093

Lab ID: **Project:**

9810093-02A

Matrix: SOIL

Jicarilla K-15

Client Sample Info: Jicarilla K-15

Client Sample ID: 9810291010; 4 Wall Comp.

Date: 16-Nov-98

Collection Date: 10/29/98 10:10:00 AM

COC Record: 7201

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	44	25	mg/Kg	1	11/11/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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Surr: - Surrogate

1 of 1



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Jicarilla K #15 Unit G, Sec 1, T25N, R5W Manual drip blowdown Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla K #15 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 104 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 861 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 31 feet. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Jicarilla K #15 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

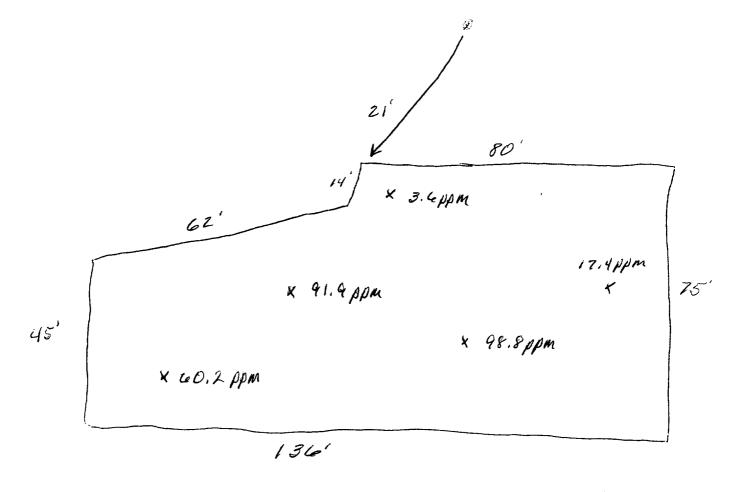
SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (CONOCO) Telephone: 324-3764				
Address: 603 W. Elm Street Farmington, NM 87401					
Facility or Well Name: Trearilla K15					
Location: Unit: 6 Sec. / T	. 25 N R. 5 W County Rio Arriba				
Land Type: Jicarilla Apache	_				
Date Remediation Started: 10-27-48 Remediation Method: Landfarmed K Composted Other Excavation was backle	Date Completed: 12-1-48 Approx. cubic yards 861 Laborath chan instruct from horrowpit. Farm pushed				
Depth to Ground Water: (pts.)	Final Closure Sampling:				
Distance to an Ephemeral Stream: (pts.)	- Sampling Date: 11-18-98 Time 1241				
Distance to Nearest Lake, Playa, (pts.) <u>Ø</u> or Watering Pond:	- ' '				
Wellhead Protection Area: (pts.)	Field Headspace (ppm) <u>40.2</u> TPH (ppm) 100 Method 8015				
Distance to Surface Water: (pts.)	Other				
Ranking Score (Total Points):					
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF					
DATE 12-20-48 PRINTE	ED NAME Roy Burnham Ray Haston				
DATE 12-20-48 PRINTER SIGNATURE RAY HANTON	AND TITLE Environmental Technician III				
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, C JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE				
APPROVED: YES NO REASON) NO BOOK (REASON)					
SIGNED: CMal	DATE: 12-28-98				

Jicarilla K15 (G) 1-25N-5W CONOCO

> 2-12" Head space: 40,2 ppm



not to seal



OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation Landfarms

Lab Order:

9811062

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.

OFF: (505) 325-5667

Client:

Lab ID:

Work Order:



LAB: (505) 325-1556

Date: 03-Dec-98

ANALYTICAL REPORT

PNM - Public Service Company of NM

9811062

7011002

9811062-03A

Matrix: SOIL

Project: Jicaril

Jicarilla Pit Remediation Landfarms

Client Sample Info: Jicarilla K-15 LF

Client Sample ID: 9811181241; 6pt. Comp.

Collection Date: 11/18/98 12:41:00 PM

COC Record: 7404

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	100	25	mg/Kg	1	12/1/98

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

2 - Value above qualitization rail

Surr: - Surrogate 1 of 1