

OK

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR
FEB 08 1989

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

P.O. BOX 507
DULCE, NEW MEXICO 87528

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (<i>Tanner</i>)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: <i>Jicarilla 107-8</i>			
Location:	Unit: <i>B</i>	Sec. <i>33</i>	T. <i>24N</i> R. <i>4W</i> County <i>Rio Arriba</i>
Pit Type:	Separator <i>X</i>	Dehydrator	Other
Land Type: <i>Jicarilla Apache</i>			
Pit Location:	Pit dimensions: length <i>30'</i> width <i>20'</i> depth <i>3'</i>		
(Attach diagram)	Reference: wellhead <i>X</i> other		
	Footage from reference: <i>100'</i>		
	Direction from reference: <i>5°</i> Degrees East of North <i>X</i> South		
	<i>X</i> West		
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)	<i>0</i>
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	(20 points)	
	No	(0 points)	<i>0</i>
Distance to Surface Water: (Horizontal distance to perennial 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 1,000 feet	(0 points)	<i>0</i>
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)	<i>0</i>
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)	<i>0</i>
RANKING SCORE (TOTAL POINTS):			<i>0</i>

Date Remediation Started: 10-30-98 Date Completed: 12/15/98 R40
10/30/98

Remediation Method: Excavation X Approx. Cubic Yards 225

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 225

Other _____

Remediation Location: Onsite X Offsite _____

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all 4 side walls
to be below 100ppm head space reading
Bottom was rock at 11' depth
Excavated pit 23' X 24' X 11'

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location north wall, East wall, South wall & West wall
Bottom

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 11'

Sample date 10/30/98 Sample time 1050 1055

Sample Results

Soil: Benzene (ppm) .64 Water: Benzene (ppb) _____

Total BTEX (ppm) 22.84 Toluene (ppb) _____

Field headspace (ppm) 1612 ppm Ethylbenzene (ppb) _____

TPH 51 ppm Method TPH-8015 Total Xylenes (ppb) _____

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE 10/30/98

PRINTED NAME Gary Cook

SIGNATURE Gary Cook

AND TITLE Environmental Technician

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

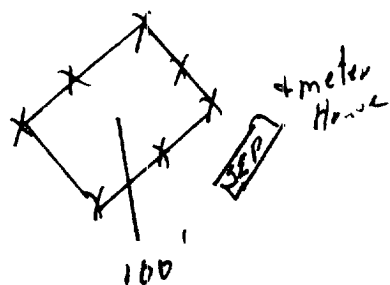
SIGNED: Kenneth M. ... DATE: 11-30-98

Jicaville 107-8
Taurus
Sec. 33, 26N, 4W, B

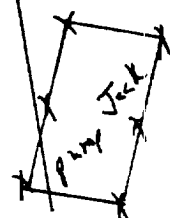
10/30/98

Site drawing:

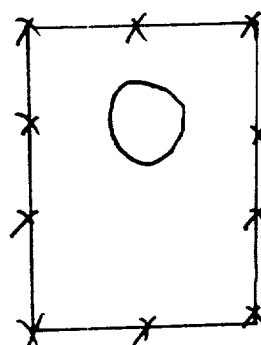
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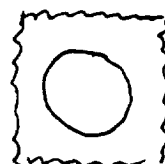
100'



⊗ Jicaville 107-8
well head



300 bbl storage tank



210 bbl storage tank
burned

not to scale

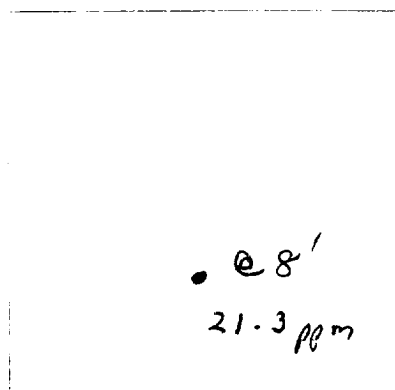
Jicavilla 107-8

Taurus

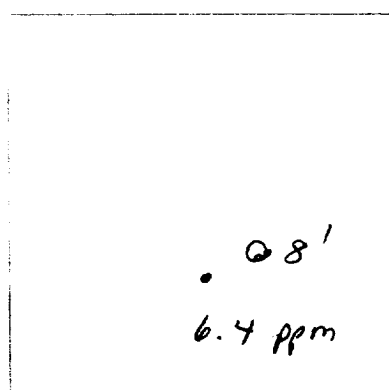
Sec 33, 26 N. 4W, 6

10/30/98

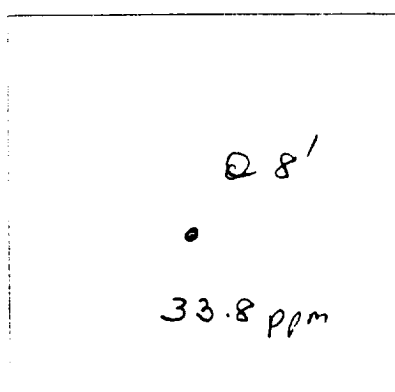
North Wall



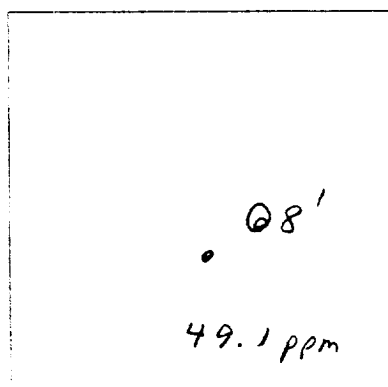
South Wall



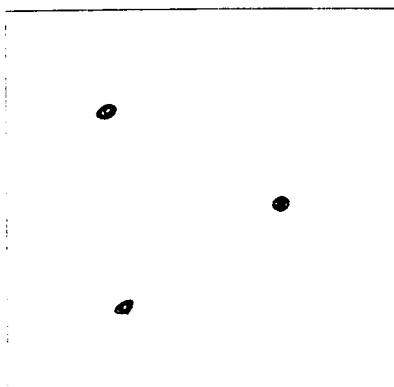
East Wall



West Wall



Bottom



@ 11 Ft depth
hard rock

3 pt. comp.
headspace reading = 1612 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 16-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla 107-8
Lab Order: 9811002

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



LAB: (505) 325-1556

ANALYTICAL REPORT**Date:** 16-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla 107-8
Work Order:	9811002	Client Sample ID:	9810301050; Bottom
Lab ID:	9811002-01A	Matrix:	SOIL
Project:	Jicarilla 107-8	Collection Date:	10/30/98 10:55:00 AM
		COC Record:	7412

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	51	25		mg/Kg	1	11/11/98
BTEX		SW8020A				Analyst: HR
Benzene	640	250		µg/Kg	250	11/2/98
Toluene	6700	500		µg/Kg	250	11/2/98
Ethylbenzene	1500	250		µg/Kg	250	11/2/98
m,p-Xylene	11000	500		µg/Kg	250	11/2/98
o-Xylene	3000	250		µg/Kg	250	11/2/98

22,840
22.84 ppm

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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1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla 107-8
Work Order:	9811002	Client Sample ID:	9810301055; Walls
Lab ID:	9811002-02A	Matrix:	SOIL
Project:	Jicarilla 107-8	Collection Date:	10/30/98 10:55:00 AM
		COC Record:	7412

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

Qualifiers:

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SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

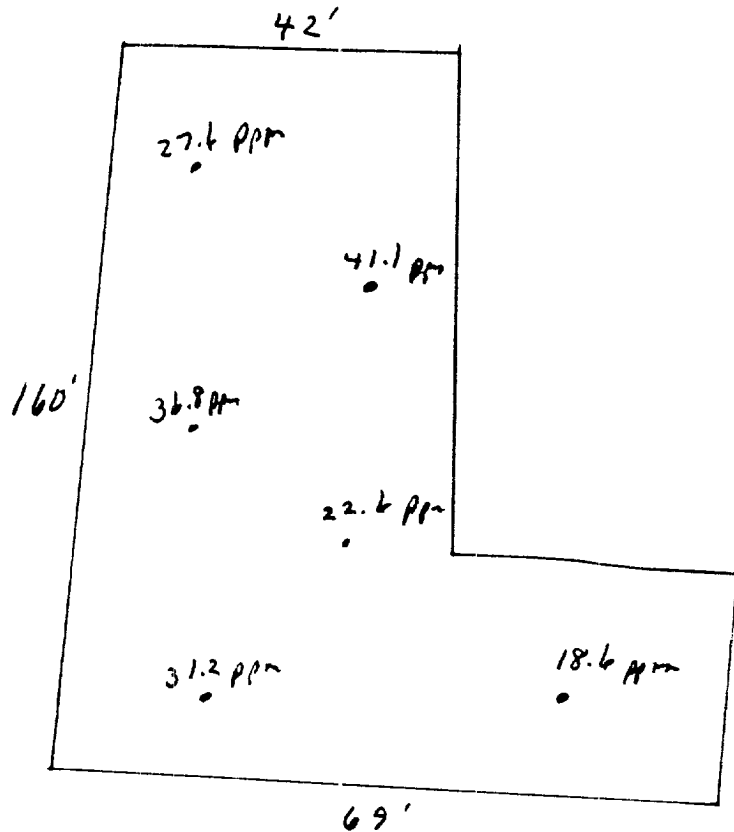
Operator: PNM Gas Services (Tanner) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicarilla 107-8	
Location: Unit: B Sec. 33 T. 26 N R. 4 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 10-30-98 Date Completed: 10-30-98	
Remediation Method: Landfarmed X Approx. cubic yards 225 yds	
Composted	
Other	
Depth to Ground Water: (pts.) 0	Final Closure Sampling: Sampling Date: 12/1/98 Time 0855 Sampling Results: Field Headspace (ppm) 57.8 ppm TPH (ppm) 410 Method TPH-8015 Other
Distance to an Ephemeral Stream: (pts.) 0	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 0	
Wellhead Protection Area: (pts.) 0	
Distance to Surface Water: (pts.) 0	
Ranking Score (Total Points): 0	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE 12/14/98	PRINTED NAME Gary Cook
SIGNATURE Gary Cook	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) No Backfill	
SIGNED: Ken C. Maas	DATE: 12-15-98

Jicarilla 107-8
Tanner
Sec. 33, 26N, 4W, B

10/30/98



Land farmed: on location



⊗ Jic. 107-8
well head

2'-12" depth

soil/vapor head space = 57.8 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Dec-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9812003

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.



ANALYTICAL REPORT

Date: 10-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla 107-8 LF
Work Order:	9812003	Client Sample ID:	9812010855; 6pt Composite
Lab ID:	9812003-06A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/1/98 8:55:00 AM
		COC Record:	7445

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	410	25		mg/Kg	1	Analyst: HR 12/9/98

*pit will be backfilled with clean soil from
borrow pit, bottom of hill, near Jic. Landform #6.*

JK

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