

DEPUTY OIL & GAS INSPECTOR

FEB 08 1995

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (TAURUS) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: TICARILLA L-4

Location: Unit: 5 Sec. 9 T. 24 N R. 5 W County Rio Arriba

Pit Type: Separator Dehydrator ☒ Other _____

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 18' width 18' depth 2'

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 216'

Direction from reference: DUG Degrees East of North X
West of South

Depth to Ground Water:	Less than 50 feet	(20 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet	(10 points)
	Greater than 100 feet	(0 points)

Wellhead Protection Area:	Yes	(20 points)	<u>0</u>
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	No	(0 points)	

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)	

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:	Less than or equal to 100 feet	Greater than 100 feet
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	(10 points)	(0 points)

RANKING SCORE (TOTAL POINTS) : 10

Date Remediation Started: 6/23/98 Date Completed: 12/15/98

Remediation Method: Excavation X Approx. Cubic Yards 1874

(Check all
appropriate
sections)

Landfarmed X Amount Landfarmed (cubic yds): 1874

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 four side walls and
Pit bottom as to get a below 100ppm headspace reading.
Final excavation: 44' X 46' X 25'.

Ground Water Encountered: No X Yes _____ Depth _____

**Final Pit Closure
Sampling:**

Sample Location North, East, South, West side walls
and Pit bottom

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

Sample depth 25'

Sample date 6/29/98 Sample time 1:21

Sample Results

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

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 12.9 (bottom) Ethylbenzene (ppb) _____
43.8 (North wall)

TPH ND ppm Method 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 7/14/98 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

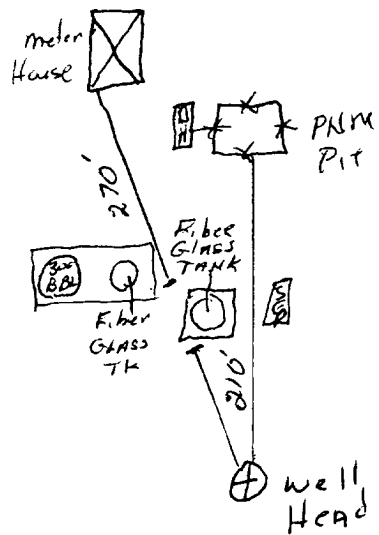
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE
TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Ken C Marshall DATE: 7-28-98

Jicarilla L-4
Sec-9 T-24N R-5W
TAURUS

Site Drawing



JICARILLA L-4
Sec-9 T24N R5W Unit G
TAURUS

EXCAVATION DRAWING

44' x 46' x 25'

North wall
Sample 22'
43.8 ppm

• 33.3 ppm

82.1 ppm

16.2 ppm

West wall
Sample 23'
34.7 ppm

EAST WALL
Sample 23'
24.0 ppm

South wall
Sample 24'
12.1 ppm

Bottom
Sample 25'
12.9 ppm

5

OFF: (505) 325-5667

ON SITE

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 10-Jul-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla
Lab Order: 9807012

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

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4
Work Order:	9807012	Client Sample ID:	9806291121: 3pt. Comp Bottom
Lab ID:	9807012-02A	Matrix:	SOIL
Project:	Jicarilla	Collection Date:	6/29/98 11:21:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/8/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4
Work Order:	9807012	Client Sample ID:	9806291120; 4pt. Comp Walls
Lab ID:	9807012-01A	Matrix:	SOIL
Project:	Jicarilla	Collection Date:	6/29/98 11:20:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/8/98

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

1 of 1

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- TO PROTECT AND ENHANCE QUALITY WITH THE ENVIRONMENT -

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DULCE, NEW MEXICO 87528

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AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT # 1

Operator: PNM Gas Services (TAURUS) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: JICARILLA L-4
Location: Unit: J Sec. 9 T. 24 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 6/23/98 Date Completed: 9/4/98
Remediation Method: Landfarmed ☒ Approx. cubic yards 937
Composted ☐
Other ☐

Depth to Ground Water: (pts.) \emptyset
Distance to an Ephemeral Stream: (pts.) \emptyset
Distance to Nearest Lake, Playa,
or Watering Pond: (pts.) \emptyset
Wellhead Protection Area: (pts.) \emptyset
Distance to Surface Water: (pts.) \emptyset
Ranking Score (Total Points): \emptyset

Final Closure Sampling:

Sampling Date: 9/1/98 Time 1537
Sampling Results:
Field Headspace (ppm) 4.5
TPH (ppm) 38 Method 8015
Other

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

DATE 9/13/98 PRINTED NAME Roy Burnham
SIGNATURE Roy Burnham AND TITLE Environmental Technician II

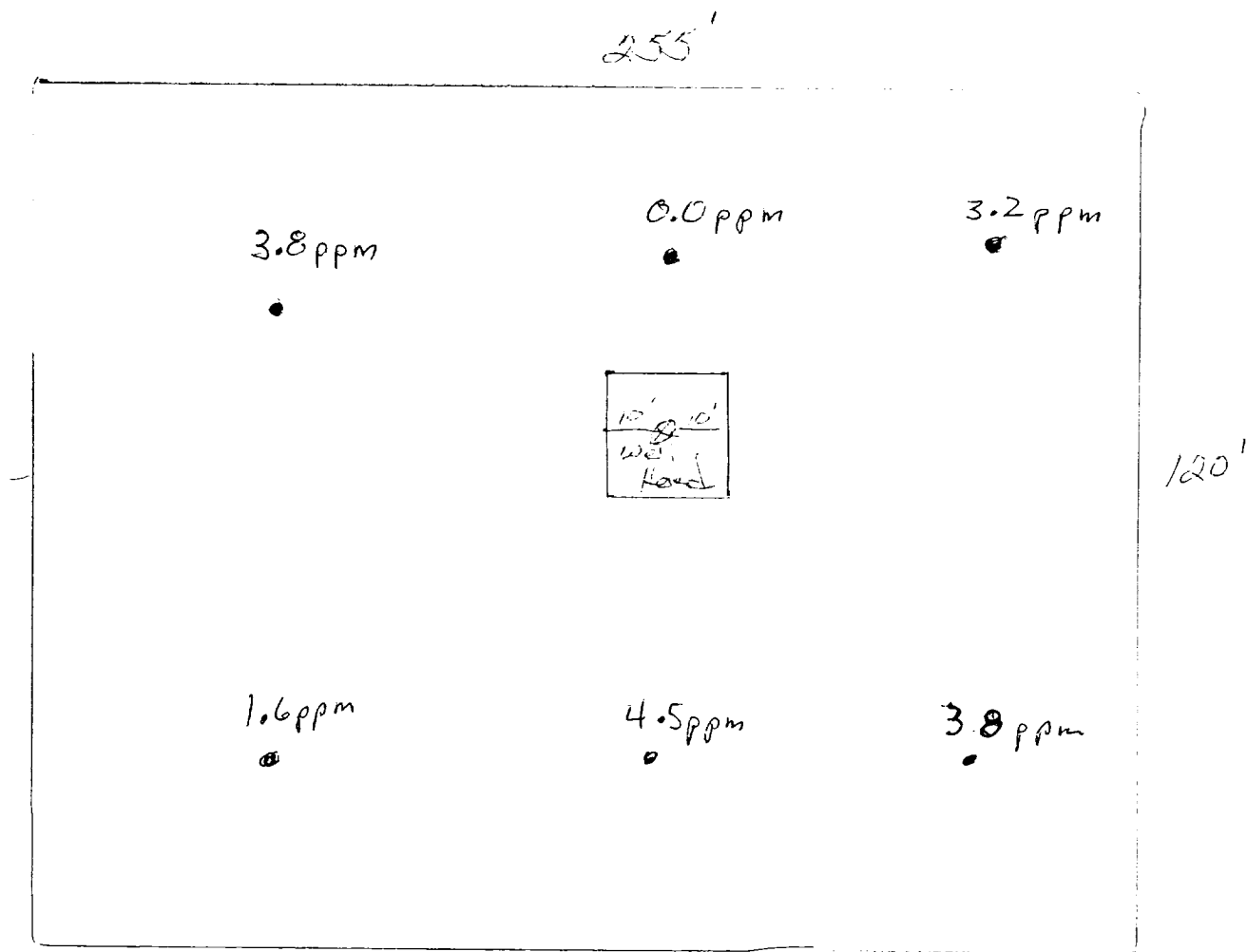
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES ☒ NO ☐ (REASON) we are Backfill

SIGNED: Kent M. M... DATE: 9-23-98

J. K. A. I. I. A L-4
Sec. 9 T24N R5W Unit I
TAKUS

Land farm #1



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Sep-98

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation
Lab Order: 9809002

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: 10-Sep-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4 #1 LF
Work Order:	9809002	Client Sample ID:	9809011537; 6pt. Comp.
Lab ID:	9809002-03A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	9/1/98 3:37:00 PM
		COC Record:	7437

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	38	25		mg/Kg	1	9/4/98

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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PROTECTION OFFICE
P.O. BOX 507
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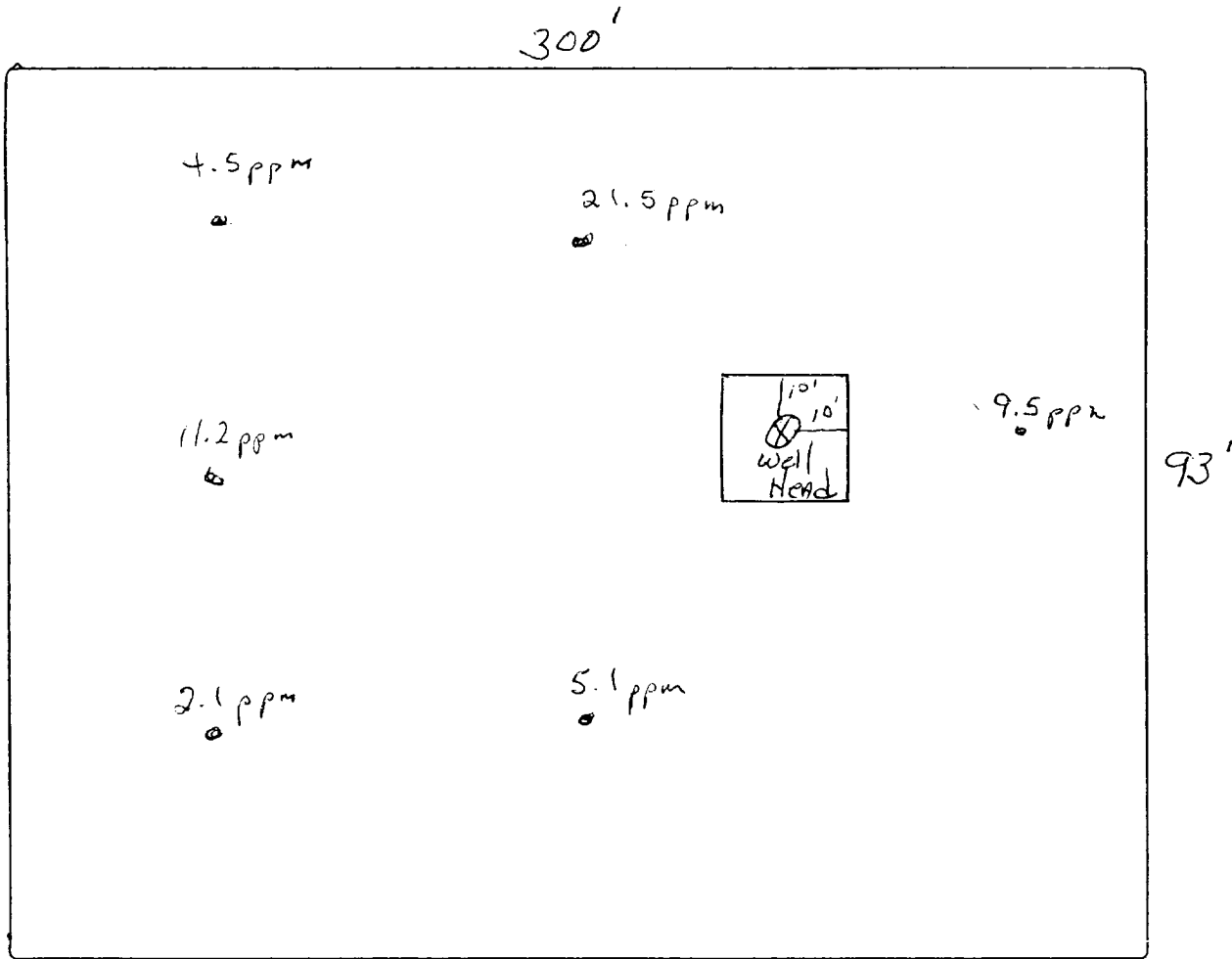
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NATURAL
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AND OIL & GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT #2

Operator: PNM Gas Services (TAURUS) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: JICARILLA L-4	
Location:	Unit: J Sec. 9 T. 24 N. R. 5 W. County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: 6/23/98 Date Completed: 12/2/98	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards 937 Composted <input type="checkbox"/> Other <input type="checkbox"/>	
Depth to Ground Water: (pts.) <u>0</u> Distance to an Ephemeral Stream: (pts.) <u>0</u> Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u> Wellhead Protection Area: (pts.) <u>0</u> Distance to Surface Water: (pts.) <u>0</u> Ranking Score (Total Points): <u>0</u>	Final Closure Sampling: Sampling Date: 11/23/98 Time 1040 Sampling Results: Field Headspace (ppm) 21.5 TPH (ppm) 72 Method 8015 Other _____
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE 12/6/98 PRINTED NAME Roy Burnham	
SIGNATURE <u>Roy Burnham</u> 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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) use as Backfill	
SIGNED: <u>K. C. M...</u> DATE: 12-15-98	

SIKARIIIA L-4 L1 2
Sec. 9 T24N R5W Unit J
Taurus

Land Farm Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 04-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation Landfarms

Lab Order: 9811075

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: 04-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4 LF #2
Work Order:	9811075	Client Sample ID:	9811231040; 6pt Composite
Lab ID:	9811075-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation Landfarms	Collection Date:	11/23/98 10:40:00 AM
		COC Record:	7405

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	72	25		mg/Kg	1	12/2/98

Qualifiers:

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- ND - Not Detected at Practical Quantitation Limit
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