

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

FEB 08 1999

P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL -GAS
ADMINISTRATION

Approved **PIT F**

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 K-4

Location: Unit: E Sec. 2 T. 25 N R. 5 W County Rio Arriba


Pit Type: Separator Dehydrator Other *Drip*

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 15' width 15' depth 3'

(Attach diagram) Reference: wellhead χ other

Footage from reference: 60'

Direction from reference: 20 Degrees X East  North X
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)

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)

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:

(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)

RANKING SCORE (TOTAL POINTS) :

Date Remediation Started:

9/30/98

Date Completed:

12/15/98

Remediation Method:

Excavation

X

Approx. Cubic Yards

262

(Check all appropriate sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

262

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 head space reading. Sand stone at 14' Excavation size: 23'x22'x14'

Ground Water Encountered:

No

X

Yes

Depth _____

Final Pit Closure

Sampling:

Sample Location

North, East, South, & West Side walls, 14' Bottom 14'

Sample depth

14'

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

Sample date

9/30/98

Sample time

1058

Sample Results

Soil: Benzene (ppm)

Water: Benzene (ppb)

Total BTEX (ppm)

Toluene (ppb)

Field headspace (ppm)

92.9

Ethylbenzene (ppb)

TPH

N/D RAD

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

10/25/98

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:

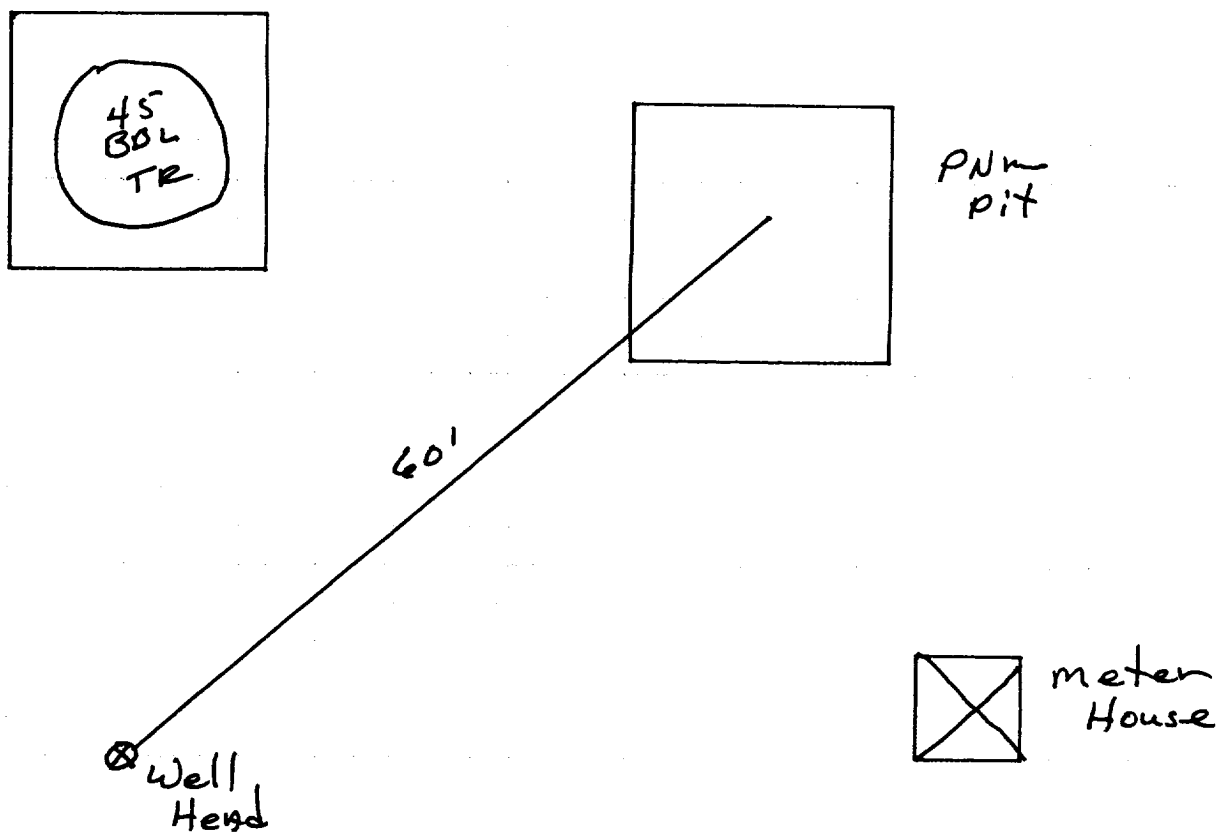
Kee C Mamm

DATE:

11-2-98

JICAñil/A K-4
Sec. 2 T25N R5W Unit E
204000

Site Drawing



Jicavilla K-4
Sec 2 T25N R5W Unit E
304000

Excavation Drawing

23'x22'x14'

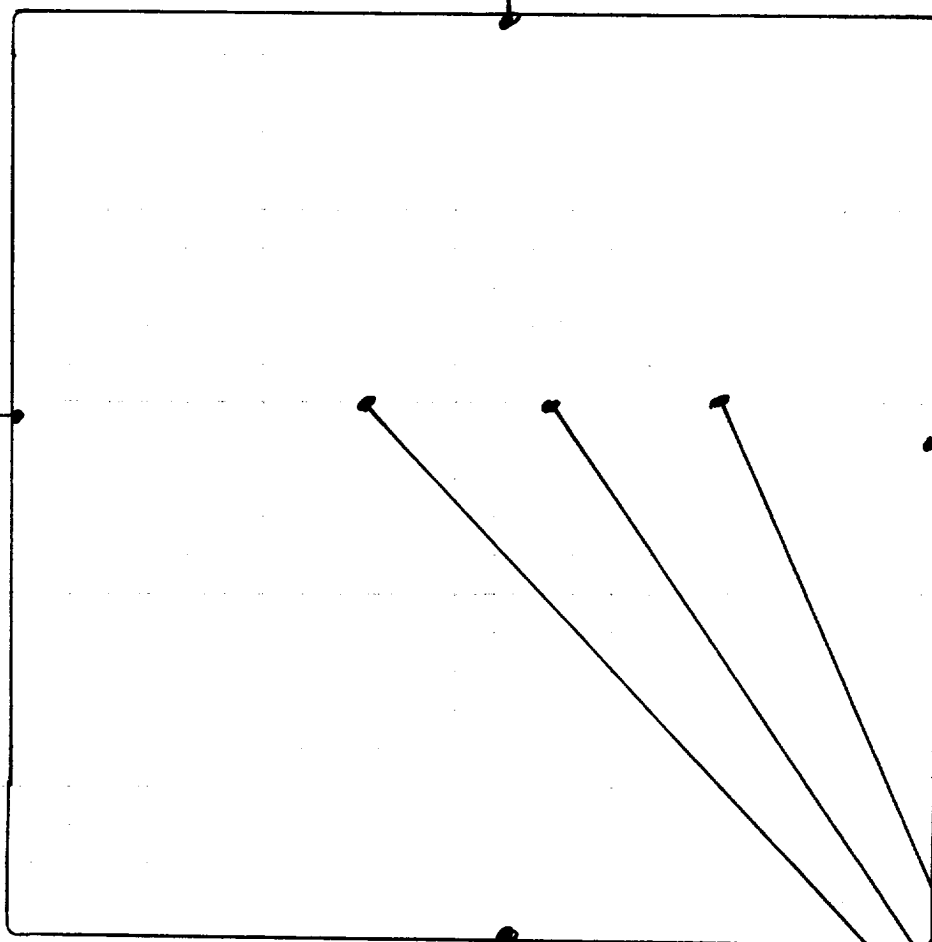
North Wall
Sample 13'
80.8 pp—

West Wall
Sample 13'
15.7 pp—

East Wall
Sample 13'
0.7 pp—

South Wall
Sample 13'
1.2 pp—

Bottom
Sample 14'
92.9 pp—



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 15-Oct-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9810004

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: 15-Oct-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K-4
Work Order:	9810004	Client Sample ID:	9809301058; 3pt. Comp. Bottom
Lab ID:	9810004-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	9/30/98 10:58:00 AM
		COC Record:	7508

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/6/98

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-Oct-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K-4
Work Order:	9810004	Client Sample ID:	9809301057; 4pt. Comp. Walls
Lab ID:	9810004-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	9/30/98 10:57:00 AM
		COC Record:	7508

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	47	25		mg/Kg	1	10/6/98

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

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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: Jicarilla K-4
Location: Unit: E Sec. 2 T. 25 N. R. 5 W. County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 9/30/98 Date Completed: 12/15/98
Remediation Method: Landfirmed X Approx. cubic yards 262
Composted —
Other —

Depth to Ground Water: (pts.) 6
Distance to an Ephemeral Stream: (pts.) 6
Distance to Nearest Lake, Playa,
or Watering Pond: (pts.) 6
Wellhead Protection Area: (pts.) 6
Distance to Surface Water: (pts.) 6
Ranking Score (Total Points): 6

Final Closure Sampling:

Sampling Date: 11/11/98 Time 1407
Sampling Results:
Field Headspace (ppm) 7.9
TPH (ppm) 32 Method 8015
Other —

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

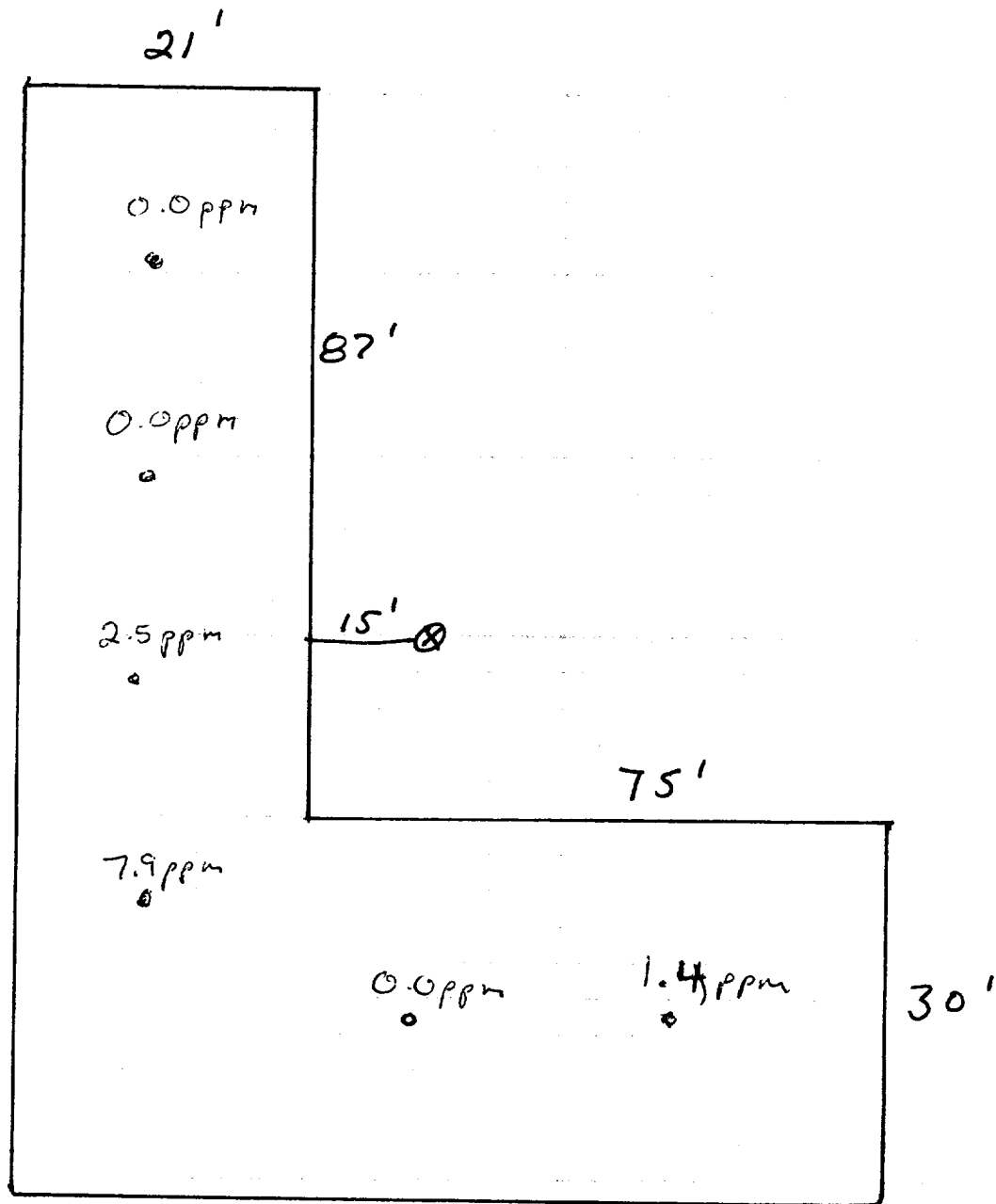
DATE 12/6/98 PRINTED NAME Roy Burnham
SIGNATURE Roy Burnham AND TITLE Environmental Technician II

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

APPROVED: YES X NO — (REASON) use as Backfill
SIGNED: K. C. M... DATE: 12-15-98

Jicarrilla K-4
Sec. 2 T25N R5W Unit E
104000

Land farm Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 19-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9811038

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: 19-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K-4 LF
Work Order:	9811038	Client Sample ID:	9811111407; 6pt. Comp.
Lab ID:	9811038-06A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/11/98 2:07:00 PM
		COC Record:	7400

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	32	25		mg/Kg	1	11/16/98

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

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