

Donna B. Frost
DEPUTY OIL & GAS INSPECTOR

FEB 08 1999

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

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (<u>BROG</u>)		Telephone:	<u>324-3764</u>	
Address:	<u>603 W. Elm Street Farmington, NM 87401</u>				
Facility or Well Name:	<u>JICARILLA 103-6M</u>				
Location:	Unit: <u>0</u>	Sec. <u>20</u>	T. <u>26N</u>	R. <u>4W</u>	County <u>Rio Arriba</u>
Pit Type:	Separator <u>X</u>	Dehydrator <u> </u>	Other <u> </u>		
Land Type:	<u>Jicarilla Apache</u>				
Pit Location:	Pit dimensions: length <u>20'</u> width <u>20'</u> depth <u>4'</u>				
(Attach diagram)	Reference: wellhead <u>X</u> other <u> </u>				
	Footage from reference: <u>110'</u>				
	Direction from reference: <u>75</u> Degrees <u> </u> East <u> </u> North <u>X</u>				
	<u>X</u> West <u> </u> South <u> </u>				
Depth to Ground Water:	Less than 50 feet		(20 points)		<u> </u>
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet		(10 points)		<u> </u>
	Greater than 100 feet		(0 points)		<u> </u>
Wellhead Protection Area:	Yes		(20 points)		<u> </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)		<u> </u>
Distance to Surface Water:	Less than 200 feet		(20 points)		<u> </u>
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	200 feet to 1,000 feet		(10 points)		<u> </u>
	Greater than 1,000 feet		(0 points)		<u> </u>
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet		(10 points)		<u> </u>
(Horizontal distance to all downgradient streams having a width of at least 10 feet)	Greater than 100 feet		(0 points)		<u> </u>
Distance to Nearest Lake, Playa, or Watering Pond:	Less than or equal to 100 feet		(10 points)		<u> </u>
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Greater than 100 feet		(0 points)		<u> </u>
RANKING SCORE (TOTAL POINTS):					<u> </u>

Date Remediation Started: 10/15/98 Date Completed: 1/6/99

Remediation Method: Excavation X Approx. Cubic Yards 552

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 552

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 100 ppm headspace reading
Final excavation: 27' X 23' X 24'.

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 24'

Sample date 10/16/98 Sample time 1136
1137

Sample Results

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

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 8.0 (bottom)
96.8 (west wall) Ethylbenzene (ppb) _____

TPH ND 130 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 10/27/98 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

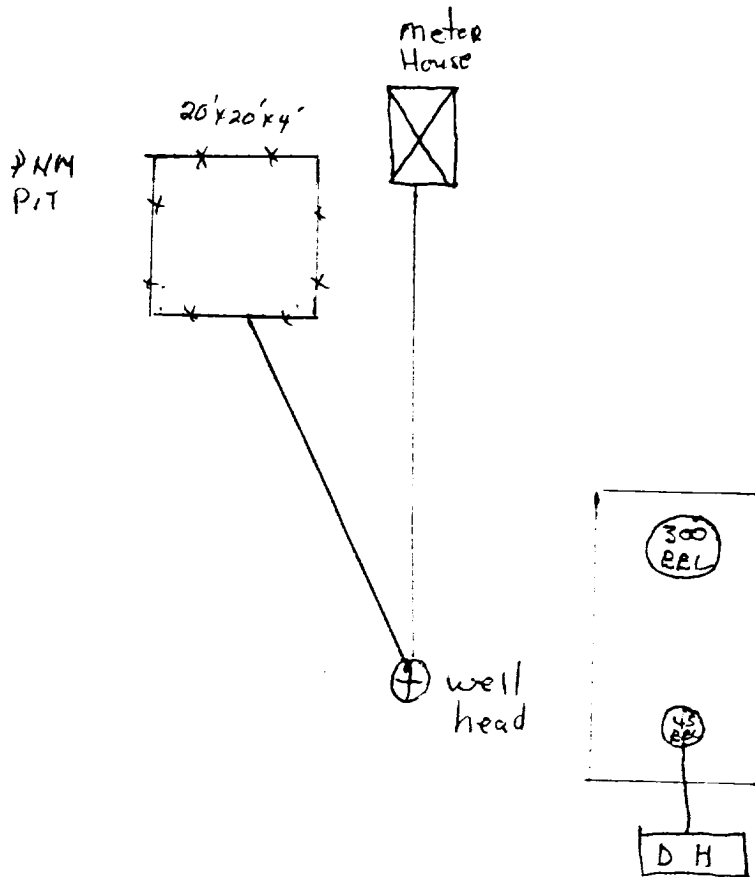
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Kec M... DATE: 11-2-98

JICAR. 111 103-6M
Sec 20 T 26N R 4W 40 O
BROG

Site Drawing



JICA 103-6M

Sec-20 T-264 S-46 UL-0)

Beog

EXCAVATION DRAWING

23'x27'x24'

North Wall
Sample #7'

65.8ppm

11.9ppm

24.1ppm

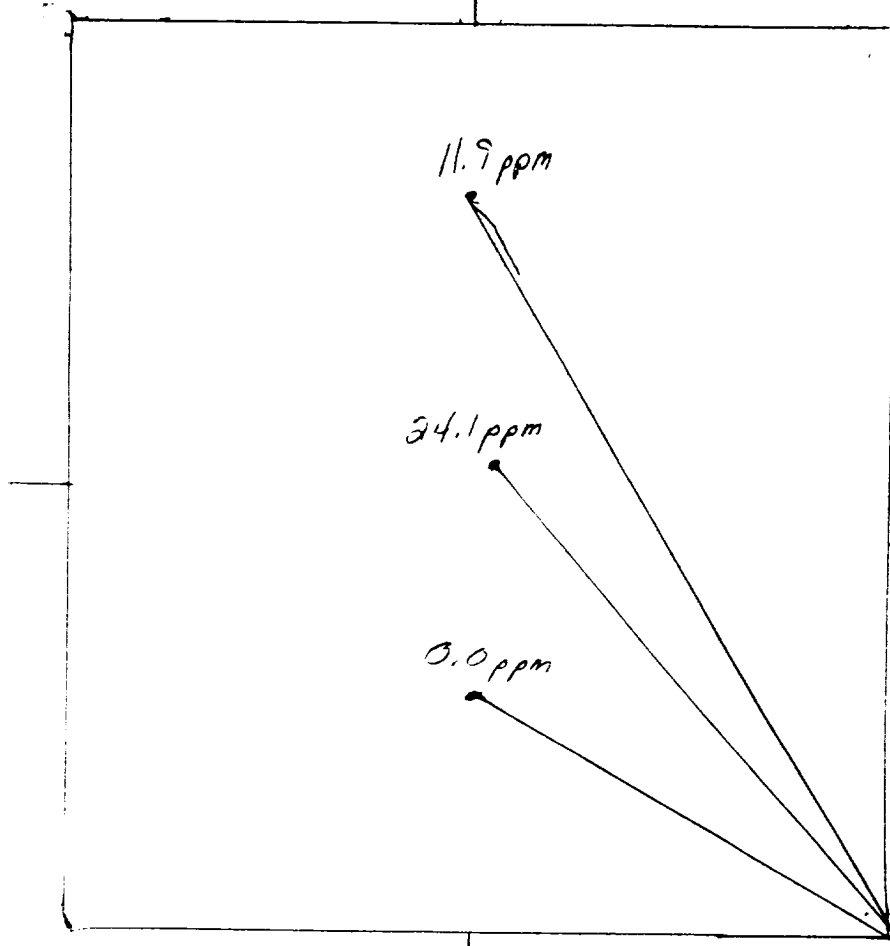
0.0ppm

West wall
Sample 22'
26.8ppm

East wall
Sample 22'
3.6ppm

South wall
Sample 23'
5.2ppm

Bottom
Sample 24'
3.5ppm



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 23-Oct-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla 103-6M

Lab Order: 9810056

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.

Date: 23-Oct-98

Client Sample Info: Jicarilla 103-6M
Client Sample ID: 9810161137; 3pt. Comp. Bottom
Collection Date: 10/16/98 11:37:00 AM
COC Record: 7356

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/22/98

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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[illegible]

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Oct-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla 103-6M
Work Order:	9810056	Client Sample ID:	9810161136; 4pt. Comp. Walls
Lab ID:	9810056-01A	Matrix:	SOIL
Project:	Jicarilla 103-6M	Collection Date:	10/16/98 11:36:00 AM
		COC Record:	7356

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	130	25		mg/Kg	1	10/22/98

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
- Sur: - Surrogate

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- TETRAHYDRO BENZENE INDICATED IN THE SAMPLE -

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: JICARILLA 103-6M

Location: Unit: 0 Sec. 20 T. 26N R. 4W County Rio Arriba

Land Type: Jicarilla Apache

Date Remediation Started: 10/15/98 Date Completed: 12/9/98

Remediation Method: Landfarmed X Approx. cubic yards 552

Composted —

Other —

Depth to Ground Water: (pts.) 0

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

Final Closure Sampling:

Sampling Date: 12/1/98 Time 0745

Sampling Results:

Field Headspace (ppm) 122

TPH (ppm) 1100 Method 8015

Other —

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

DATE 1/3/99 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

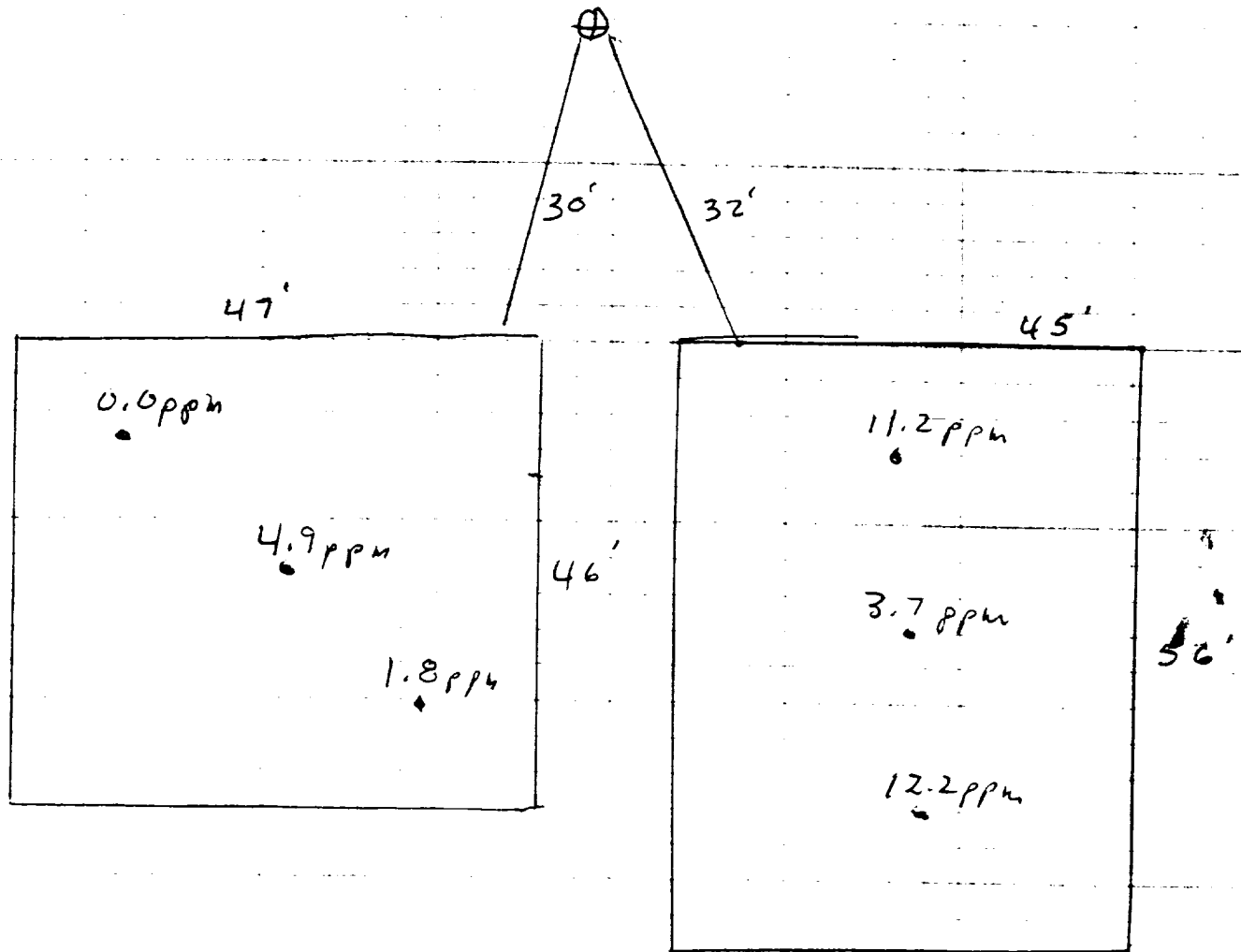
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES X NO — (REASON) Don't use as backfill.

SIGNED: Karena L. Callado DATE: 01-06-99

JICARILLA 103-6M
Sec-20 T-26N R-4W 4L-0
BROG

LANDFARM DRAWING



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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla 103-6M LF
Work Order:	9812003	Client Sample ID:	9812010745; 6pt Composite
Lab ID:	9812003-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/1/98 7:45:00 AM
		COC Record:	7445

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	1100	25		mg/Kg	1	Analyst: HR 12/9/98

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
- Sum: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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