

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

FEB 08 1999

Approved

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 (*Burlington*) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: *Jicarilla TIE*
Location: Unit: *6* Sec. *35* T. *26 N* R. *5 W* County *Rio Arriba*
Pit Type: Separator _____ Dehydrator _____ Other *Manual Drip blowdown*
Land Type: *Jicarilla Apache*

Pit Location: Pit dimensions: length *20'* width *20'* depth *3'*
(Attach diagram) Reference: wellhead *K* other _____
Footage from reference: *97'*
Direction from reference: *45* Degrees _____ East _____ North _____
_____ West _____ South *K*

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 (20 points)
No (0 points)

0

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)

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 (10 points)
Greater than 100 feet (0 points)

0

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)

0

RANKING SCORE (TOTAL POINTS):

0

Date Remediation Started: 9-16-98 Date Completed: 12/15/98

Remediation Method: Excavation X Approx. Cubic Yards 971

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 971

Other _____

Remediation Location: Onsite X Offsite _____

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

General Description of Remedial Action:

Remove Contaminated soil from all four sidewalls and bottom as to get a below 100 ppm headspace reading.
Final excavation dimensions: 28' (W+L) x 36' (E+W) x 26' (D)

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location North east south and west sidewalls and a 3 point bottom composite sample.

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

Sample depth 26'

Sample date 9-21-98 Sample time 1525 1515

Sample Results

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

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 1.0 Ethylbenzene (ppb) _____

TPH N/D 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 10-8-98 PRINTED NAME Ray Haston

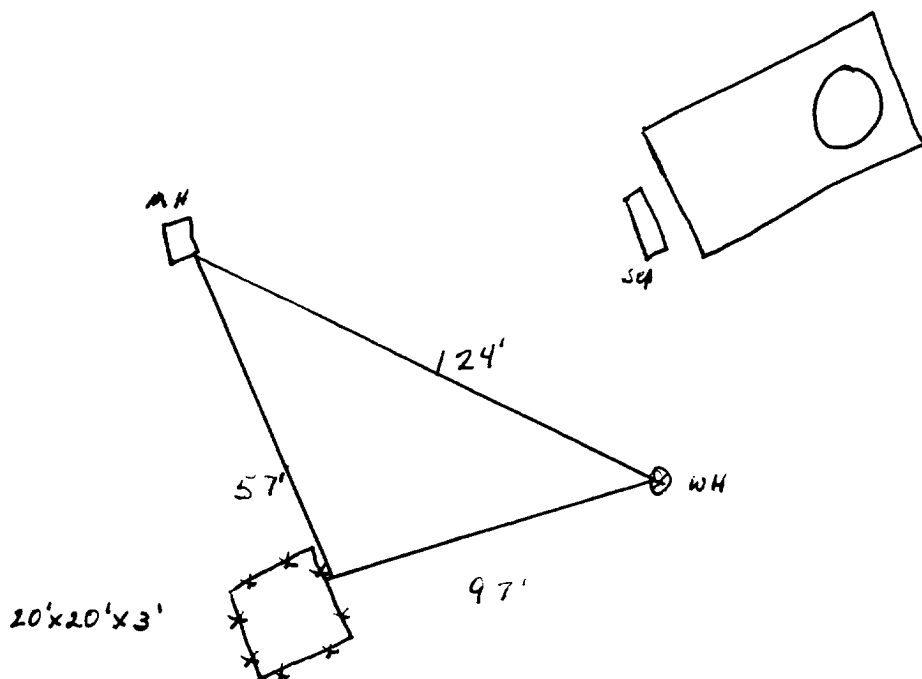
SIGNATURE Ray Haston AND TITLE Environmental Technician

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: Karen C Mandle DATE: 11-2-98

Jicarilla 14E
 (B) 35-26N-5W
 Burlington
 4-16-98



Excavation Sampling

28'(N+S) x 36'(E+W) x 26'(D)

North wall sample
 at 26' - 2.4 ppm

East wall sample
 at 26' - 4.8 ppm

Bottom sample
 at 26' - 1.0 ppm

West wall sample
 at 16' - 2.7 ppm

South wall sample
 at 26' - 2.9 ppm

5' sample - 308 ppm
 10' sample - 384 ppm
 15' sample - 392 ppm
 20' sample - 221 ppm
 25' sample - 141 ppm
 26' sample - 24.5 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Sep-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla J14E

Lab Order: 9809067

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: 30-Sep-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla J14E
Work Order:	9809067	Client Sample ID:	9809211515; 3pt. Bottom Comp
Lab ID:	9809067-01A	Matrix:	SOIL
Project:	Jicarilla J14E	Collection Date:	9/21/98 3:15:00 PM
		COC Record:	5756

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/28/98

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

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Sep-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla J14E
Work Order:	9809067	Client Sample ID:	9809211525; 4 Wall Comp
Lab ID:	9809067-02A	Matrix:	SOIL
Project:	Jicarilla J14E	Collection Date:	9/21/98 3:25:00 PM
		COC Record:	5756

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/29/98

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
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- Surr: - Surrogate

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AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (Burlington) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla JHE
Location: Unit: G Sec. 35 T. 26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 9-16-98 Date Completed: 11-23-98
Remediation Method: Landfarmed X Approx. cubic yards 471
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: 11-16-98 Time 1228
Sampling Results:
Field Headspace (ppm) 4.8
TPH (ppm) 90 Method 8015
Other

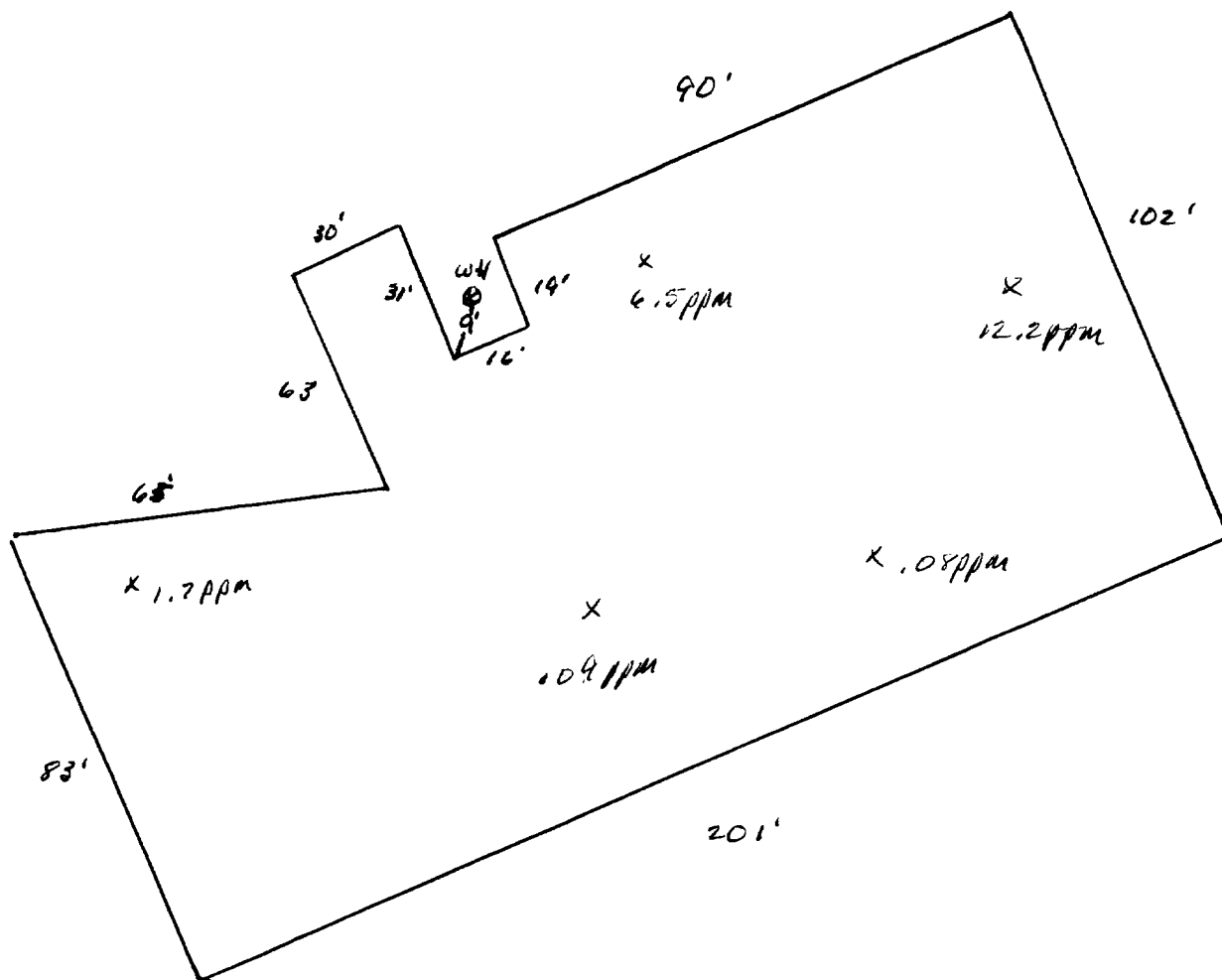
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 12-4-98 PRINTED NAME ~~Roy Burdon~~ Ray Haston
SIGNATURE Ray Haston AND TITLE Environmental Technician III

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: Ken C Mamm DATE: 12-15-98

↑
N



2"-12"
Head space
4.8 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9811057

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: 30-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla J-14E LF
Work Order:	9811057	Client Sample ID:	9811161228 6pt Composite
Lab ID:	9811057-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/16/98 12:28:00 PM
		COC Record:	7403

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	90	25		mg/Kg	1	11/23/98

Qualifiers:

PQL - Practical Quantitation Limit

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