

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Risk BTex
EXC 324
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION
RECEIVED
APR 29 1999
OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (Conoco) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla A-10
Location: Unit: 0 Sec. 23 T. 26 N R. 4 W County Rio Arriba
Pit Type: Separator X Dehydrator X Other _____
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 3'
(Attach diagram) Reference: wellhead X other _____
Footage from reference: 125'
Direction from reference: 75 Degrees East North _____
of
X West ← South X

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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10/19/98 Date Completed: 12/18/98

Remediation Method: Excavation X Approx. Cubic Yards 1825

(Check all appropriate sections)

Landfarmed _____ Amount Landfarmed (cubic yds): 1040

Other 785 cu. yds. of clean overburden.

Remediation Location: Onsite _____ Offsite Jicarilla #6 Landfarm
(i.e., landfarmed onsite, name and location of offsite facility) 1040 Cu. yds.

General Description of Remedial Action:

Removed contaminated soil from all four side walls as to get a below 100 ppm headspace reading. Dug down to 32' 3" composite of Pit bottom. Final excavation: 44' X 35' X 32'.

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 32'

Sample date 10/21/98 Sample time 0759/0800

Sample Results

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

Total BTEX (ppm) 172,000 Toluene (ppb) _____

Field headspace (ppm) 1040 Ethylbenzene (ppb) _____

TPH 1300 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 11/23/98

PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham

AND TITLE Environmental Technician II

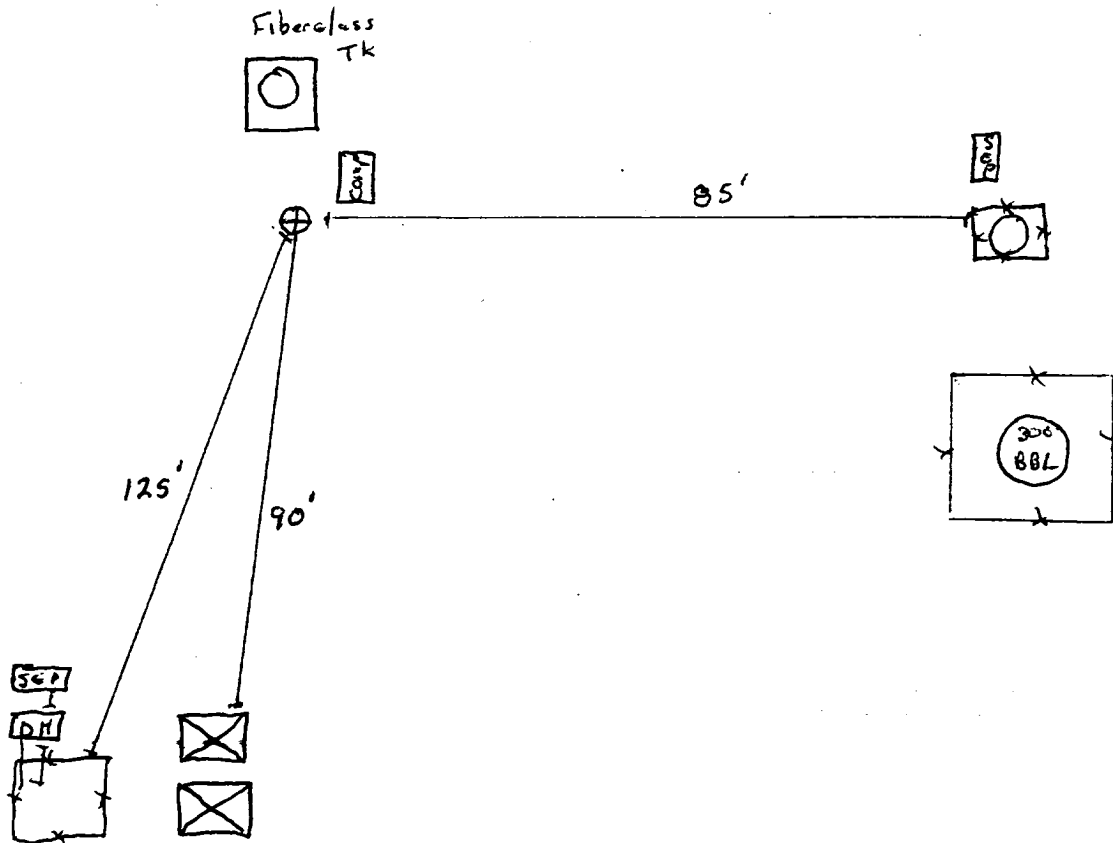
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): R.A. Attached

SIGNED: K. C. Manly DATE: 12-15-98

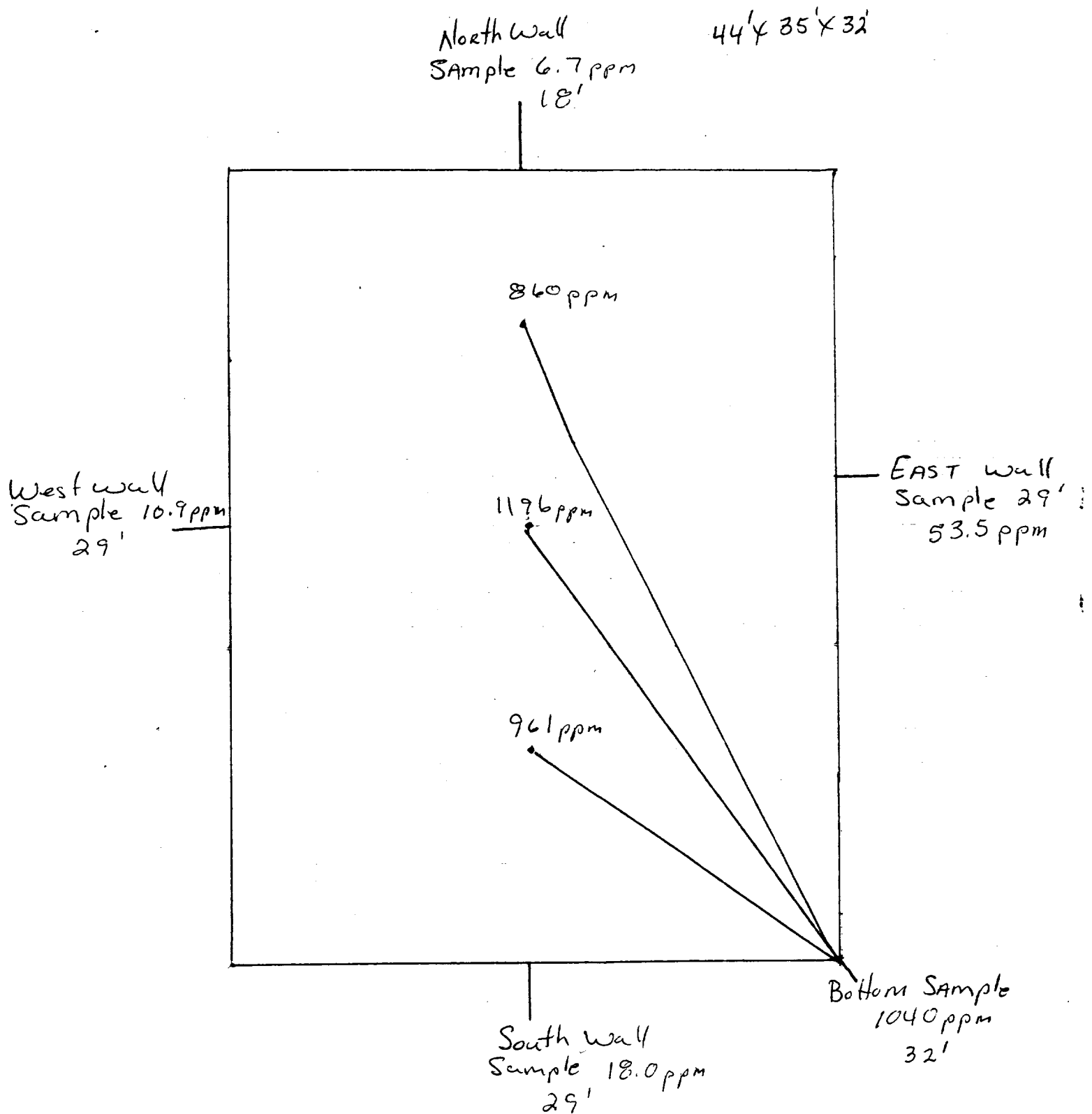
Jicarilla A-10
Sec-23 T-26N R-4W 4E0
Conoco

Site Drawing



JICARILLA A-10
Sec-23 T-26N - R-4W UL-0
CONOCO

Excavation Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 04-Nov-98

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9810071

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.

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ANALYTICAL REPORT

Date: 04-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla A-10
Work Order:	9810071	Client Sample ID:	9810210800; 3pt. Comp. Bottom
Lab ID:	9810071-04A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	10/21/98 8:00:00 AM
		COC Record:	7359

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	1300	25		mg/Kg	1	11/2/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	500		µg/Kg	500	10/28/98
Toluene	17000	1000		µg/Kg	500	10/28/98
Ethylbenzene	13000	500		µg/Kg	500	10/28/98
m,p-Xylene	110000	1000		µg/Kg	500	10/28/98
o-Xylene	32000	500		µg/Kg	500	10/28/98

172000
172.000 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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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 04-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla A-10
Work Order:	9810071	Client Sample ID:	9810210759; 4pt. Comp. Walls
Lab ID:	9810071-03A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	10/21/98 7:59:00 AM
		COC Record:	7359

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/2/98

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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P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT



Environmental Services

Well Name:	Jicarilla A #10
Well Legals:	Unit O, Sec 23, T26N, R4W
Pit Type:	Separator, dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla A #10 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 171 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Schmitz Ranch, NM series 7.5 minute topographic map.)
2. The site is located outside of the "vulnerable area" as defined under OCC Order No. R-7940-C.
3. PNM excavated 1825 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.
4. The excavation was terminated at a depth of 32 feet. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Jicarilla A #10 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.