

CM

King & Frost
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

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

FEB 08 1999

P.O. BOX 507
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: ARIZONA JICARILLA B-7 DRIP

Location: Unit: E Sec. 4 T. 26 N R. 5 W County Rio Arriba

Pit Type: Separator Dehydrator Other Line Drip

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20' width 20' depth 3'

(Attach diagram) Reference: wellhead other DRIP RISER

Footage from reference: 20'

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

Depth to Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of ground water)

RECEIVED
FEB - 1 1999

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)

OIL CON. DIST. 3

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>10</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): 10

Date Remediation Started: 4/10/98 Date Completed: 7/28/98

Remediation Method: Excavation X Approx. Cubic Yards 375

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 375

Other ✓

Remediation Location: Onsite _____ Offsite ARIZONA JICARILLA B-7

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

General Description of Remedial Action:

Removed contaminated soil from all four side walls as to get a below 100 ppm headspace reading. Pit bottom was solid sandstone rock. 3 point composite sample of Pit bottom EXCAVATION SIZE 44' X 23' X 10'

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 10'

Sample date 6/10/98 Sample time 1419

Sample Results

Soil: Benzene (ppm) .130 Water: Benzene (ppb) _____

Total BTEX (ppm) 36.630 Toluene (ppb) _____

Field headspace (ppm) 1692 Ethylbenzene (ppb) _____

TPH 480 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 6/27/98 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

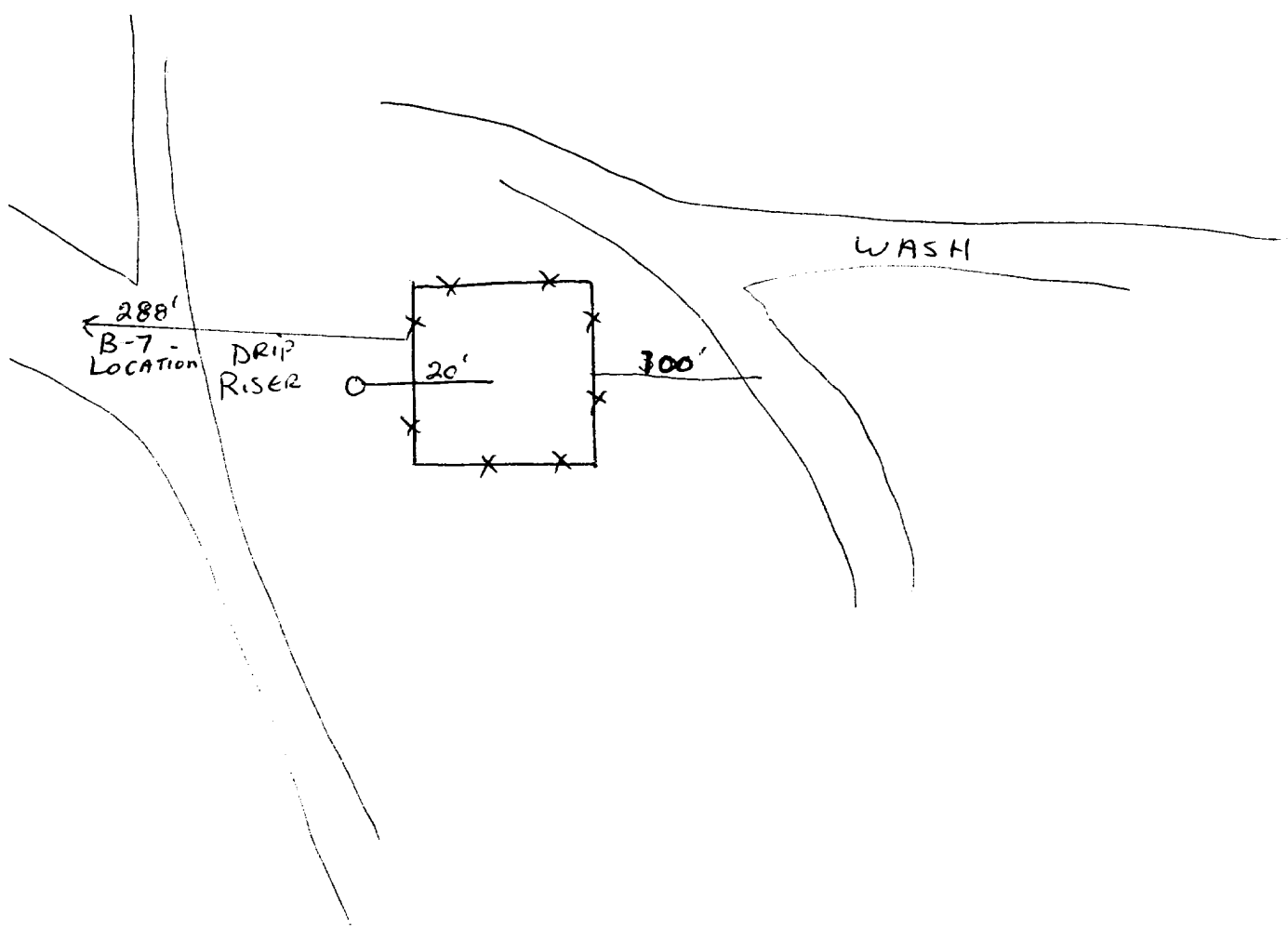
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Steve C. McNeill DATE: 6-29-98

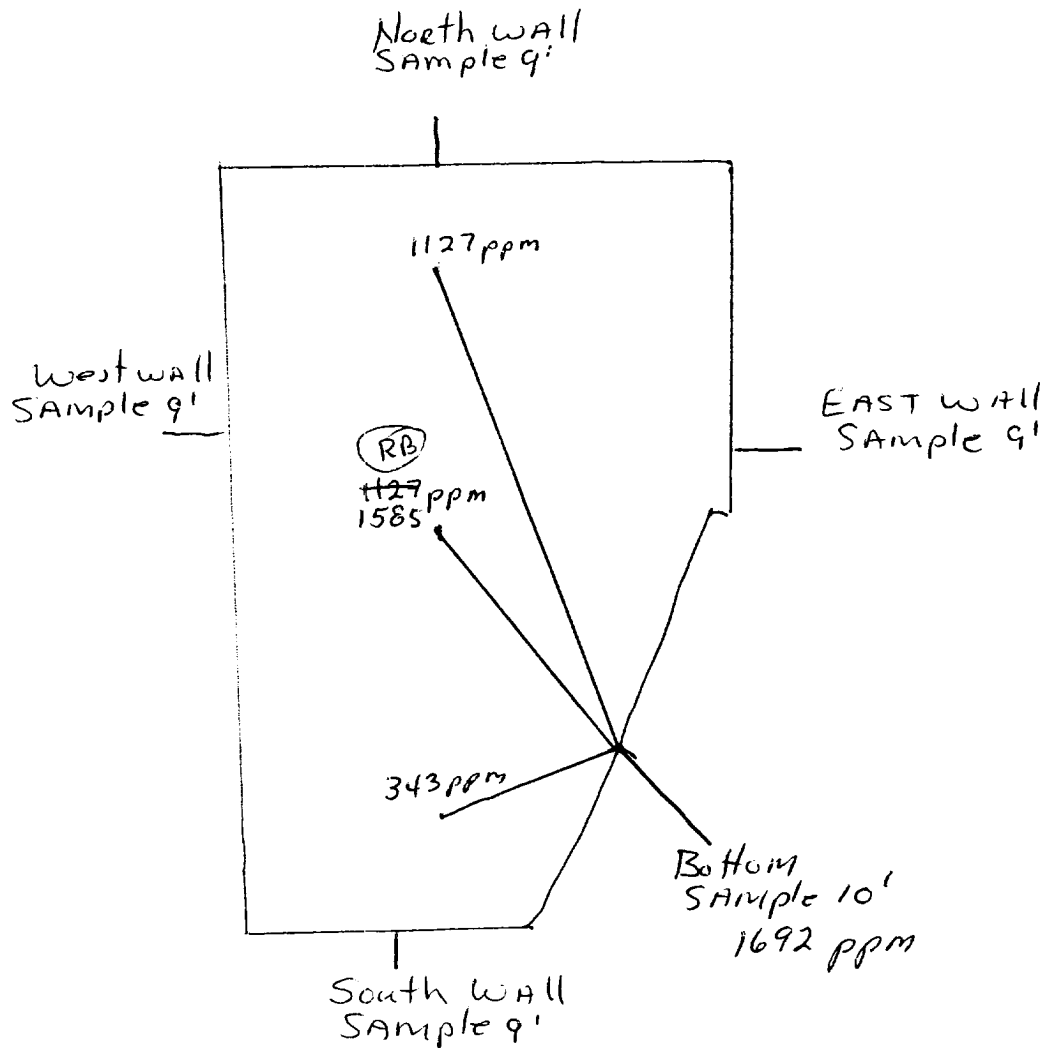
ARIZONA Jicarilla B-7 Drip
Sec-4 T26N R5W UNITE
WFS

SITE DRAWING



ARIZONA TICARILLA B-7 DRIP
Sec 4 T26N R5W UNIT E
WFS

EXCAVATION DRAWING



5' Sample 1665 ppm
10' Sample 1127 ppm
1585 ppm
343 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 23-Jul-98

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation
Lab Order: 9807042

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: 17-Jun-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Arizona Jicarilla B-7 Drip
Work Order:	9806039	Client Sample ID:	9806101419; 3pt. Comp. Bottom
Lab ID:	9806039-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	6/10/98 2:19:00 PM
		COC Record:	5638

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	480	25		mg/Kg	1	6/16/98
BTEX		SW8020A				Analyst: DC
Benzene	130	100		µg/Kg	100	6/14/98
Toluene	5200	200		µg/Kg	100	6/14/98
Ethylbenzene	2100	100		µg/Kg	100	6/14/98
m,p-Xylene	23000	200		µg/Kg	100	6/14/98
o-Xylene	6200	100		µg/Kg	100	6/14/98
	<u>36.630</u>					

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECTIP: A NEW BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Arizona Jicarilla B-7 Drip
Work Order:	9806039	Client Sample ID:	9806101418; 4pt. Comp. Walls
Lab ID:	9806039-01A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	6/10/98 2:18:00 PM
		COC Record:	5638

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/11/98

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

- Printed on Recycled Paper with Recycled Ink -

JICARILLA APACHE TRIBE
ENVIRONMENTAL
PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

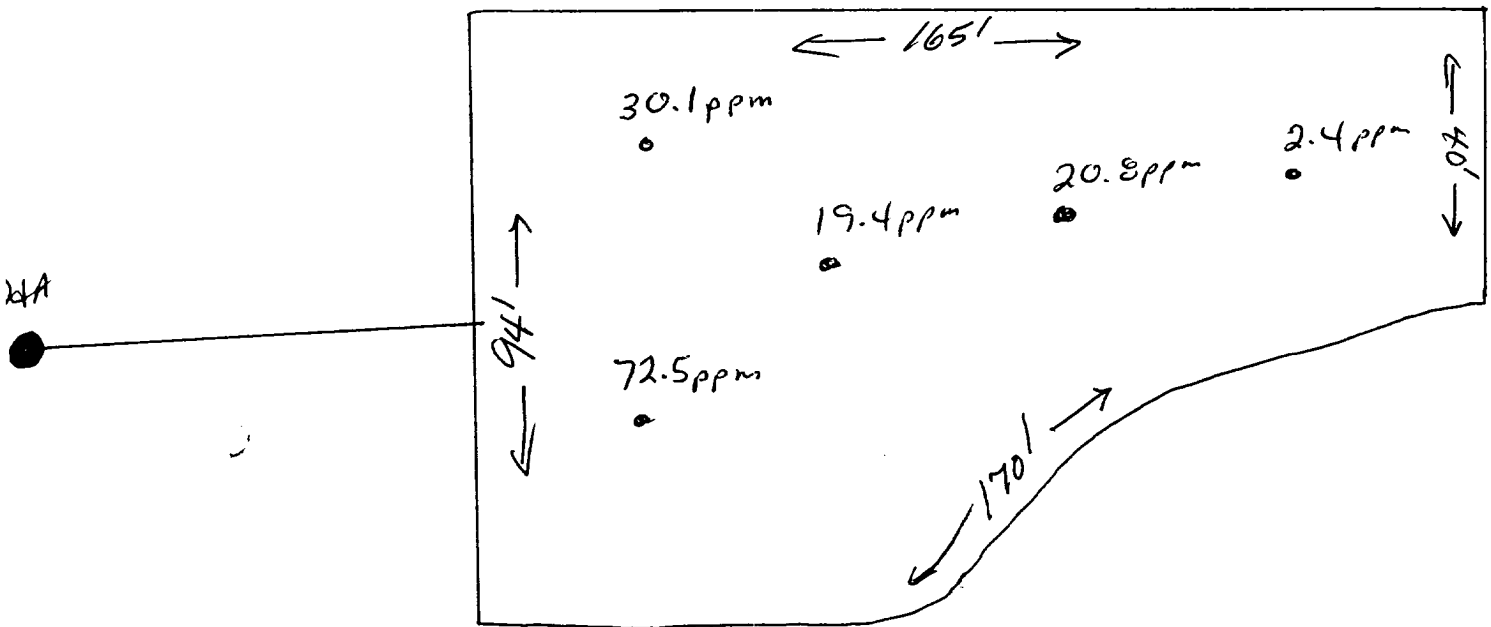
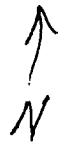
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL-GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>PNM Gas Services (WFS)</u> Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>ARIZONA JICARILLA B-7 DRIP</u>	
Location: Unit: <u>E</u> Sec. <u>4</u> T. <u>26 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>6/10/98</u> Date Completed: <u>7/22/98</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>375</u> Composted <input type="checkbox"/> Other <input type="checkbox"/>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>7/15/98</u> Time <u>1328</u> Sampling Results: Field Headspace (ppm) <u>72.5</u> TPH (ppm) <u>42</u> Method <u>8015</u> Other _____
Distance to an Ephemeral Stream: (pts.) <u>10</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>10</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>7/26/98</u> PRINTED NAME <u>Roy Burnham</u>	
SIGNATURE <u>Roy Burnham</u> AND TITLE <u>Environmental Technician II</u>	
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) <u>use as Rockfill</u>	
SIGNED: <u>Kurt C Mammill</u> DATE: <u>7-28-98</u>	

20

ARIZONA TICARILLA B-7 DRIP
WILLIAMS FIELD SERVICES
UNIT E SEC 4 T26N R5W
LANDFARM DRAWING



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Jun-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9806039

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: 23-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Arizona Jicarilla B-7 Drip LF
Work Order:	9807042	Client Sample ID:	9807151328; 5pt. Composite
Lab ID:	9807042-03A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	7/15/98 1:28:00 PM
		COC Record:	7265

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	42	25		mg/Kg	1	7/22/98

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

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -