

Denny E. Faust
 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

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>PNM Gas Services (Conoco)</u>		Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>			
Facility or Well Name: <u>Axi Apache K-2</u>			
Location:	Unit: <u>B</u>	Sec. <u>4</u>	T. <u>26 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
Land Type: <u>Jicarilla Apache</u>			
Pit Location:		Pit dimensions: length <u>18'</u> width <u>18'</u> depth <u>1'</u>	
(Attach diagram)		Reference: wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/>	
		Footage from reference: <u>81'</u>	
		Direction from reference: <u>Due</u> Degrees <input checked="" type="checkbox"/> East North <input type="checkbox"/>	
		West <input type="checkbox"/> of South <input type="checkbox"/>	
Depth to Ground Water:		Less than 50 feet (20 points)	<input type="checkbox"/>
<small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>		50 feet to 99 feet (10 points)	<input type="checkbox"/>
		Greater than 100 feet (0 points)	<input type="checkbox"/>
Wellhead Protection Area:		Yes (20 points)	<input type="checkbox"/>
<small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>		No (0 points)	<input type="checkbox"/>
Distance to Surface Water:		Less than 200 feet (20 points)	<input type="checkbox"/>
<small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>		200 feet to 1,000 feet (10 points)	<input type="checkbox"/>
		Greater than 1,000 feet (0 points)	<input type="checkbox"/>
Distance to Ephemeral Stream (dry wash):		Less than or equal to 100 feet (10 points)	<input type="checkbox"/>
<small>(Horizontal distance to all downgradient streams having a width of at least 10 feet)</small>		Greater than 100 feet (0 points)	<input type="checkbox"/>
Distance to Nearest Lake, Playa, or Watering Pond:		Less than or equal to 100 feet (10 points)	<input type="checkbox"/>
<small>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)</small>		Greater than 100 feet (0 points)	<input type="checkbox"/>
RANKING SCORE (TOTAL POINTS):			<u>0</u>

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OIL CON. DIV.
 DIST. 3

Date Remediation Started: 6/2/98 Date Completed: 9/23/98

Remediation Method: Excavation Approx. Cubic Yards 1,194

(Check all appropriate sections) Landfarmed Amount Landfarmed (cubic yds): 1,194

Other _____

Remediation Location: Onsite Offsite _____

(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 100ppm headspace reading. PIT
Bottom was solid sand stone rock.
Excavation size 65'x 31'x 16' 1,194 cu. yds.

Ground Water Encountered: No 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 16'

Sample date 6/4/98 Sample time 1032

Sample Results

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

Total BTEX (ppm) 3,550 Toluene (ppb) _____

Field headspace (ppm) 1,175 Ethylbenzene (ppb) _____

TPH ³⁷ND ⁽¹⁵⁾ppm Method 8015 Total Xylenes (ppb) _____

Ground Water Sample: Yes _____ No (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 6/29/98 PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham AND TITLE Environmental Technician II

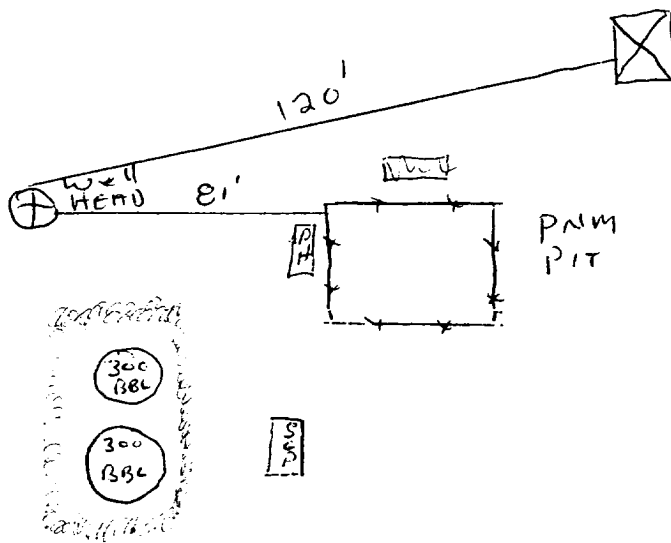
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES NO _____ (REASON): _____

SIGNED: Kerr C. Mamm DATE: 6-29-98

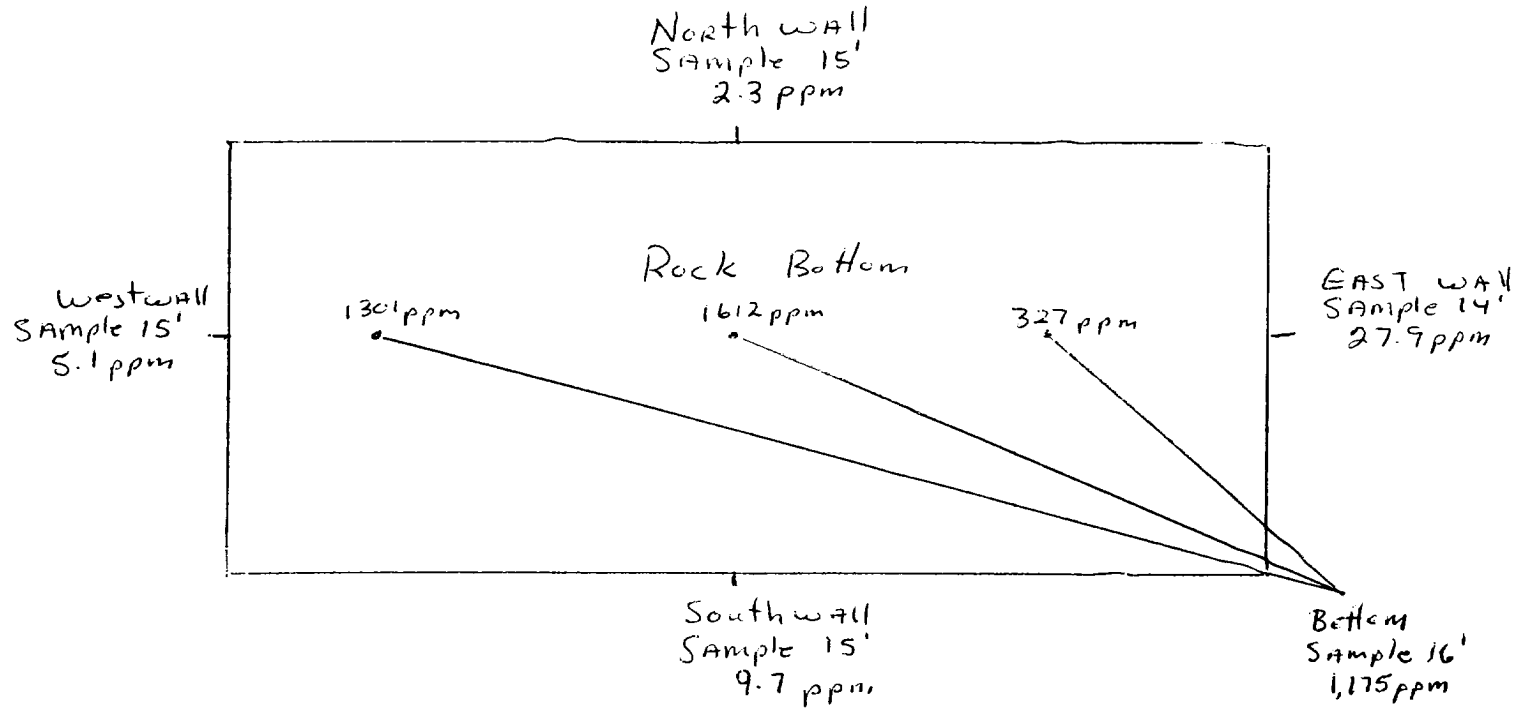
4x, Apache K-2
Sec-4 T26N R3W unit B
Conoco

SITE DRAWING



Ax. Apache K-2
Sec 4 T26N R5W unit B
Conoco

EXCAVATION DRAWING



Pid Readings

- 5' 2702 ppm
- 10' 1314 ppm
- 15' 1008 ppm
- 16' 1301, 1612, 327 ppm Rock

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 11-Jun-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pits
Lab Order: 9806016

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.

ANALYTICAL REPORT

Date: 11-Jun-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache K-2
Work Order:	9806016	Client Sample ID:	9806041032; 3pt. Comp. Bottom
Lab ID:	9806016-04A	Matrix:	SOIL
Project:	Jicarilla Pits	Collection Date:	6/4/98 10:32:00 AM
		COC Record:	7166

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	27	25		mg/Kg	1	6/5/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	50		µg/Kg	50	6/10/98
Toluene	410	100		µg/Kg	50	6/10/98
Ethylbenzene	300	50		µg/Kg	50	6/10/98
m,p-Xylene	2500	100		µg/Kg	50	6/10/98
o-Xylene	340	50		µg/Kg	50	6/10/98
	<u>3.550</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

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-Jun-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache K-2
Work Order:	9806016	Client Sample ID:	9806041031; 4pt. Comp. Walls
Lab ID:	9806016-03A	Matrix:	SOIL
Project:	Jicarilla Pits	Collection Date:	6/4/98 10:31:00 AM
		COC Record:	7166

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/5/98

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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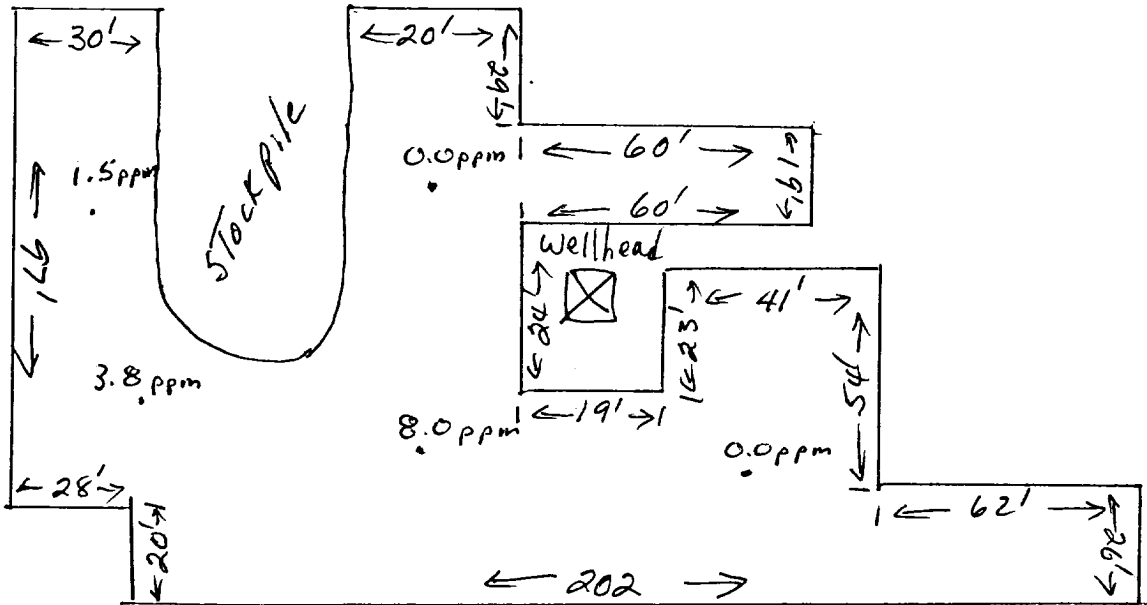
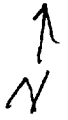
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AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT # 1

Operator: PNM Gas Services (Conoco) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Axi Apache K-2	
Location: Unit: B Sec. 4 T. 26 N R. 5 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 6/2/98	Date Completed: 7/22/98
Remediation Method: Landfarmed <input checked="" type="checkbox"/>	Approx. cubic yards: 597
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth to Ground Water: (pts.) 4	Final Closure Sampling: Sampling Date: 7/15/98 Time 1355 Sampling Results: Field Headspace (ppm) 8.0 TPH (ppm) N/D Method 8015 Other _____
Distance to an Ephemeral Stream: (pts.) 4	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 4	
Wellhead Protection Area: (pts.) 4	
Distance to Surface Water: (pts.) 4	
Ranking Score (Total Points): 8	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: 7/26/98	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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) use as Backfill	
SIGNED: Todd Marshall	DATE: 7-28-98

14

AXI Apache K TANK #2
CONOCO
UNIT B SEC 4 T26N R 5W
LANDFARM #1



20

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: 23-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache K-2 #1 LF
Work Order:	9807042	Client Sample ID:	9807151355; 5pt. Composite
Lab ID:	9807042-05A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	7/15/98 1:55:00 PM
		COC Record:	7265

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

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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ON-SITE SOIL REMEDIATION REPORT #2

Operator: PNM Gas Services (Conoco) Telephone: 324-3764
 Address: 603 W. Elm Street Farmington, NM 87401
 Facility or Well Name: Axi Apache K-2
 Location: Unit: B Sec. 4 T. 26 N R. 5 W County Rio Arriba
 Land Type: Jicarilla Apache

Date Remediation Started: 6/2/98 Date Completed: 9/17/98
 Remediation Method: Landfarmed X Approx. cubic yards 597
 Composted —
 Other —

Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>9/16/98</u> Time <u>1325</u> Sampling Results: Field Headspace (ppm) <u>42.0</u> TPH (ppm) <u>N/D</u> Method <u>8015</u> Other <u>—</u>
Distance to an Ephemeral Stream: (pts.) <u>0</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>0</u>	

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

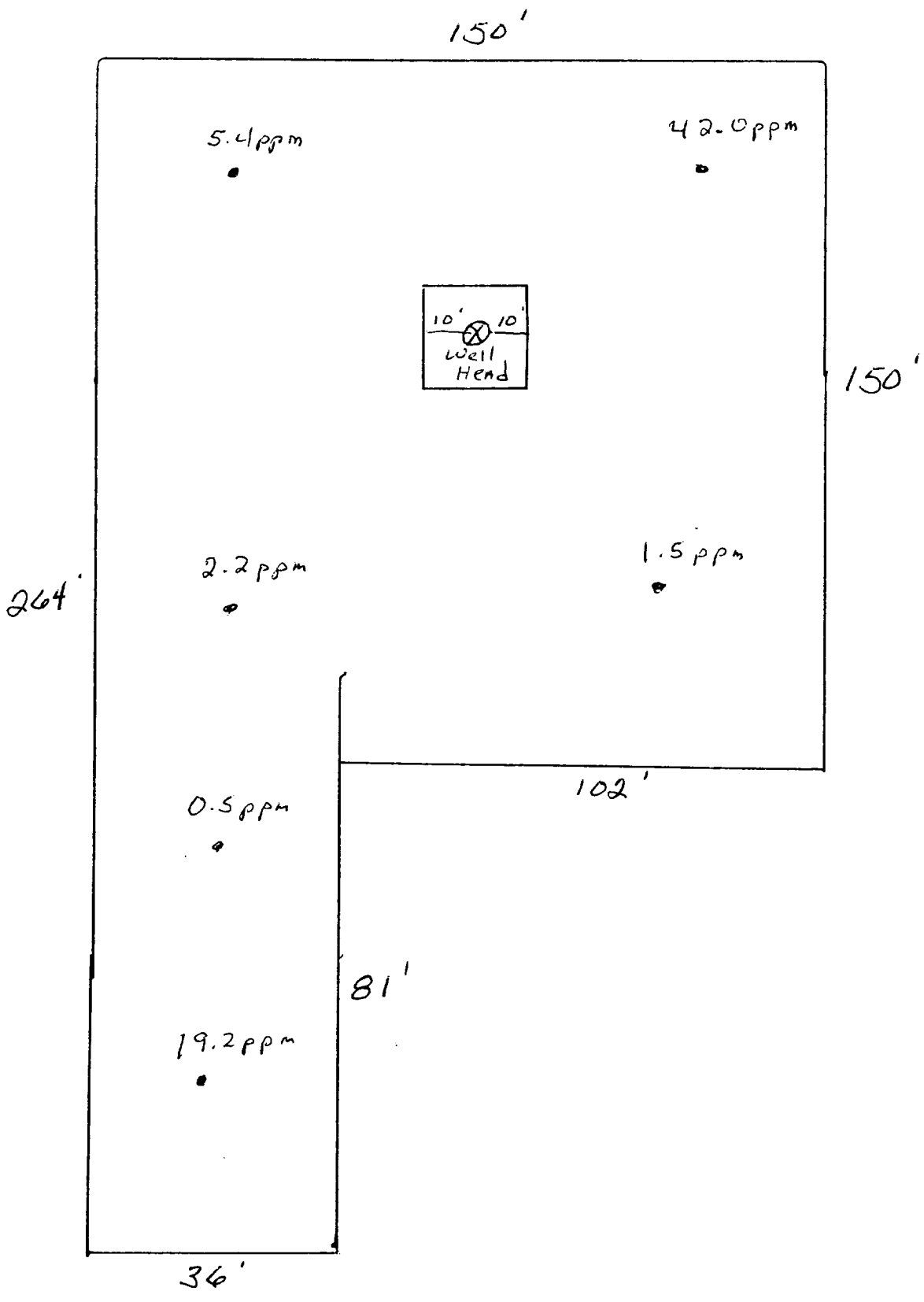
DATE 9/22/98 PRINTED NAME Roy Burnham
 SIGNATURE Roy Burnham AND TITLE Environmental Technician II

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: Kevin C. M...ll DATE: 9-23-98

Section 4 T26N R5W Unit B
-onoco

Land farm #2



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Sep-98

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9809038

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: 21-Sep-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache K-2 #2 LF
Work Order:	9809038	Client Sample ID:	9809161325; 6pt.Comp.
Lab ID:	9809038-02A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	9/16/98 1:25:00 PM
		COC Record:	7504

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/17/98

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