

DEPUTY OIL & GAS INSPECTOR

FEB 26 1998

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 (BROG) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jicarilla G-4E

Location: Unit: E Sec. 11 T 26 N R 5 W County Rio Arriba

Pit Type: Separator X Dehydrator Other

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 30' width 24' depth 7'
(Attach diagram) Reference: wellhead X other _____
Footage from reference: 155'
Direction from reference: Straight Degrees _____ East _____ North X
West _____ of South _____

Depth to Ground Water:

(Vertical distance from container to seasonal high water elevation or ground water)

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	(0 points)

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)

Distance to Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

OIL CON. DIV.
DIST. 3

Less than 200 feet	(20 points)
200 feet to 1,000 feet	(10 points)
Greater than 1,000 feet	(0 points)

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)

Distance to Nearest Lake, Playa, or Watering Pond:

(Horizontal distance to all downgradient
lakes, ditches, and livestock or wildlife
water ponds)

Less than or equal to 100 feet (10 points)
Greater than 100 feet (0 points)

RANKING SCORE (TOTAL POINTS) :

Date Remediation Started:

6/11/97

Date Completed:

7/22/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

202

(Check all appropriate sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

202

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 as to get a below 100 ppm head space reading. Bottom is rock

Ground Water Encountered:

No

X

Yes

Depth _____

Final Pit Closure Sampling:

Sample Location

North, East, South and West side walls

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

Sample depth

6'

Sample date

6/11/97

Sample time

1024

Sample Results

Soil: Benzene (ppm)

ND

Water: Benzene (ppb)

Total BTEX (ppm)

0.008

Toluene (ppb)

Field headspace (ppm)

87.9

Ethylbenzene (ppb)

TPH

ND

ppm

Method

SC15

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

6/20/97

PRINTED NAME

Ronald A. Dedrick

SIGNATURE

Ronald A. Dedrick

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):

SPRAY + CLOSE

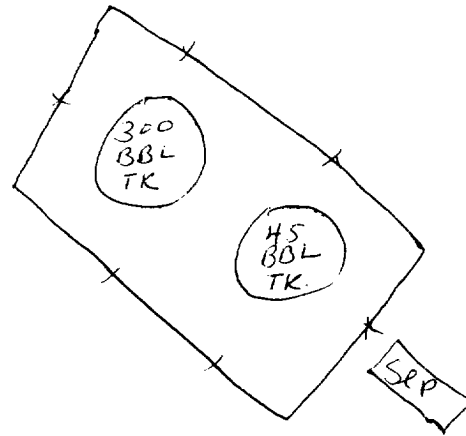
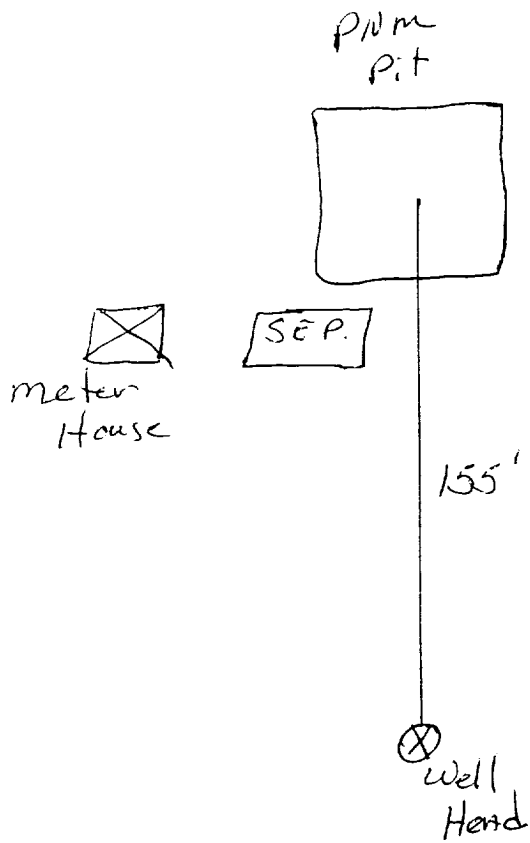
SIGNED:

Kerr C. Mammill

DATE:

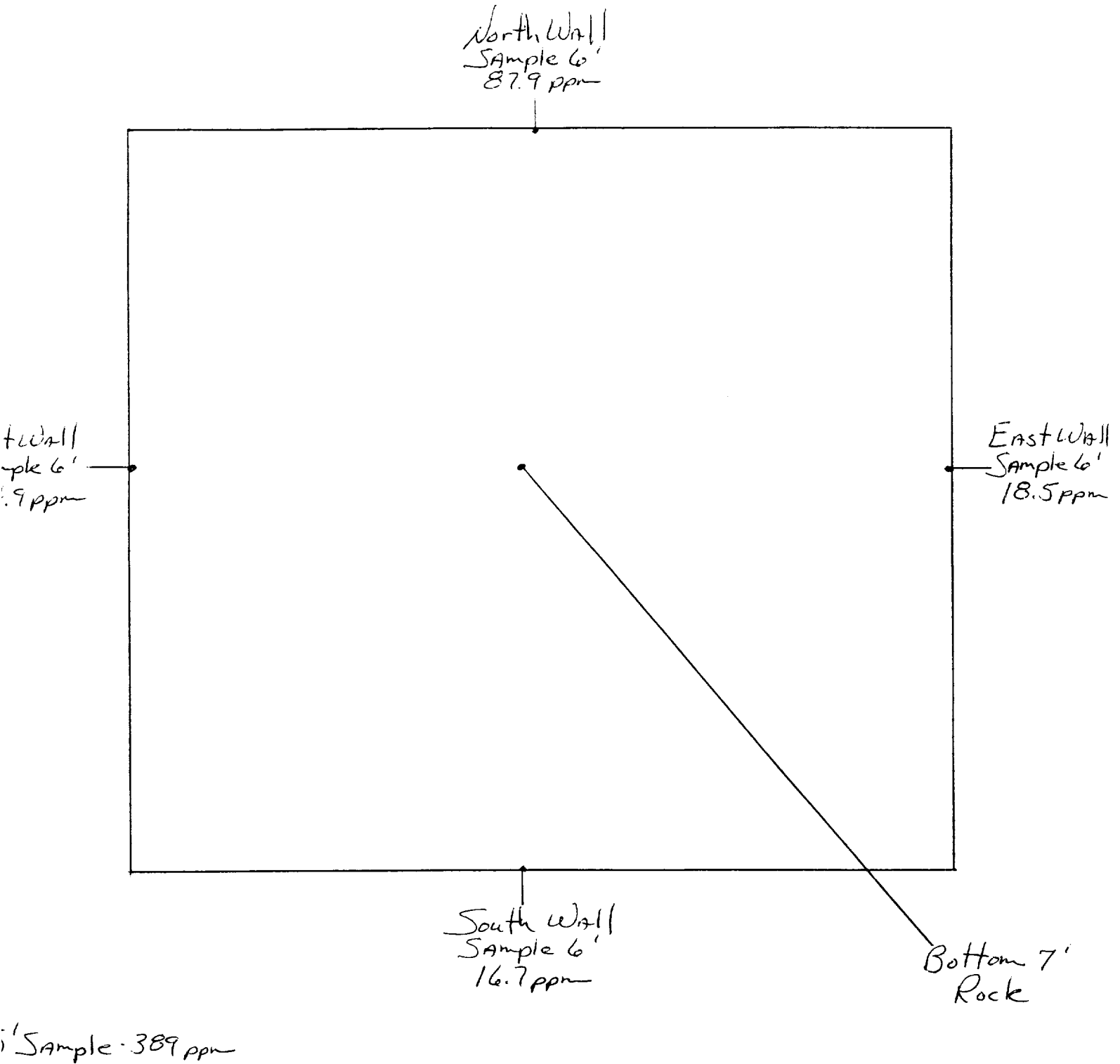
6-23-97

10471119 U TC
ec. 11 T26 N R5W Unit E
3R0G



Carilla G-4E
2C. 11 T26N R5W Unit E
ROG

30' x 26' x 7'



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *17-Jun-97*
COC No.: *5731*
Sample No.: *14924*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-4E*
Project Location: *9706111024; 4pt. Composite*
Sampled by: *SA* Date: *11-Jun-97* Time: *10:24*
Analyzed by: *DC/HR* Date: *13-Jun-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	181	10.1	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	85	84	(70-130)	1	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: 

Date: *6/17/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



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Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *17-Jun-97*
COC No.: *5731*
Sample No.: *14924*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-4E*
Project Location: *9706111024; 4pt. Composite*
Sampled by: *SA* Date: *11-Jun-97* Time: *10:24*
Analyzed by: *HR* Date: *16-Jun-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	2	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	1	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	4	ug/kg	1	ug/kg
<i>o-Xylene</i>	1	ug/kg	1	ug/kg
	<i>TOTAL</i>	8		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: *6/17/97*

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AND OIL-GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (BROG) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla G-4E
Location: Unit: E Sec. 11 T. 26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 6/11/97 Date Completed: 7/2/97
Remediation Method: Landfilled X Approx. cubic yards 202
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: 6/25/97 Time 1222
Sampling Results:
Field Headspace (ppm) 29.5
TPH (ppm) 69 Method 8015
Other —

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

DATE 7/2/97 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A Dedrick AND TITLE Environmental Technician II

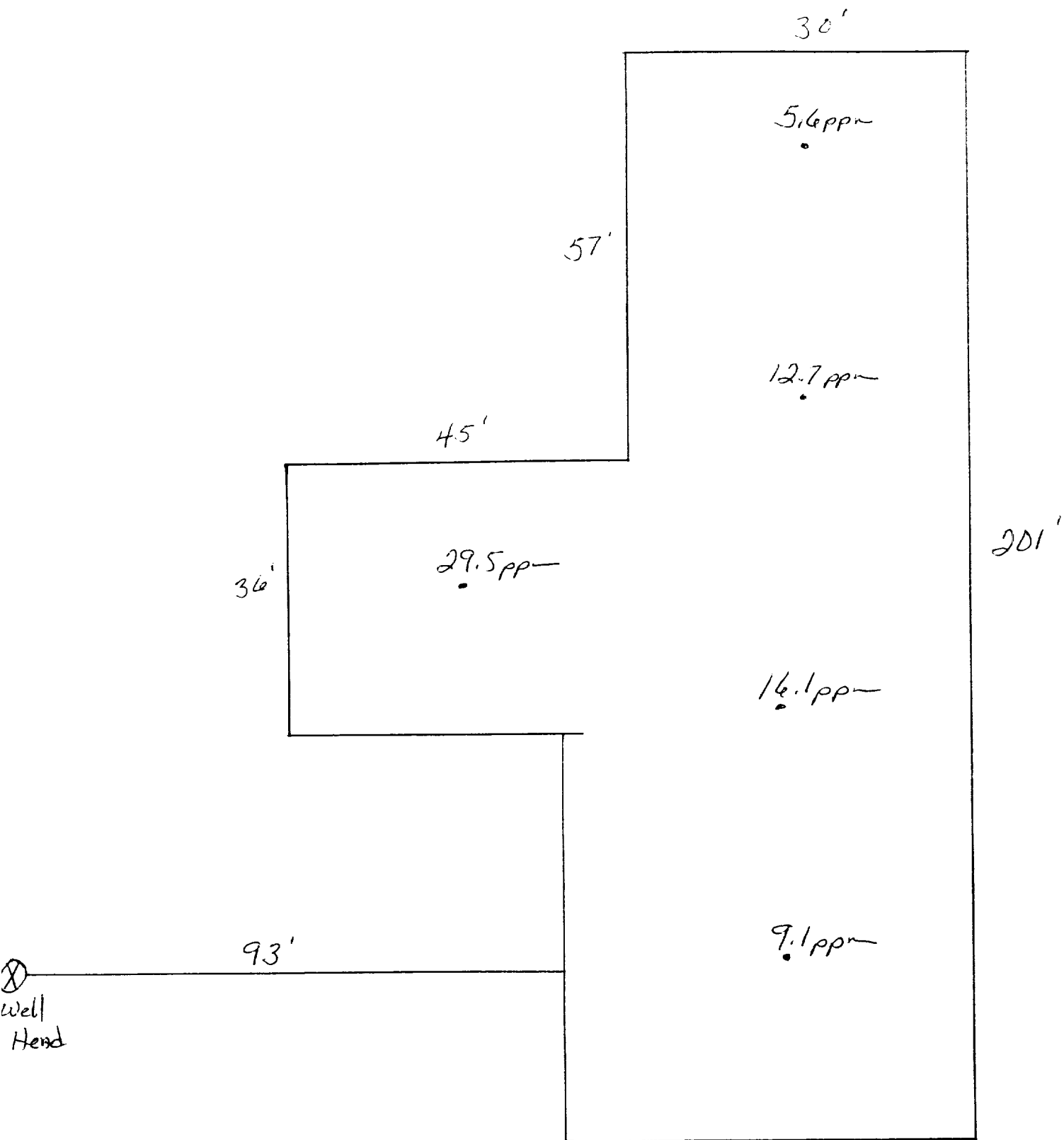
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES X NO — (REASON) use as Backfill

SIGNED: Kurt C Mammill DATE: 7-3-97

Carilla G-4E
2c. 11 T26N R5W Unit E
ROG

Land farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State *Farmington, NM 87401*

Date: *1-Jul-97*
COC No.: *5504*
Sample No.: *15105*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla G-4E Landfarm***

Project Location: ***9706251222; 5pt. Composite***

Sampled by: *RB* Date: *25-Jun-97* Time: *12:22*

Analyzed by: *DC/HR* Date: *30-Jun-97*

Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	69	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	201	0.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	86	93	(70-130)	6	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: *[Signature]*
Date: *7/1/97*

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