

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

Approved **PIT F**

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (13706) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: TICAPILLA G-9E

Location: Unit: P2 Sec. 1 T. 24 N R. 5 W County Rio Arriba


Pit Type: Separator Dehydrator X Other _____

Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 28 width 19 depth 12

(Attach diagram) Reference: wellhead ☒ other _____

Footage from reference: 99'

Direction from reference: 45 Degrees East  North
West South

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)

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)

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, playas, 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: 6/30/97 Date Completed: 8/25/97

Remediation Method: Excavation X Approx. Cubic Yards 236

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 236

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 and pit bottom as to get a below 100 ppm head space reading.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location north, east, south, west side

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

Sample depth 12'

Sample date 6/30/97 Sample time 1021

Sample Results

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

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 55.9 Ethylbenzene (ppb) _____

TPH ND 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 7/3/97 PRINTED NAME Ronald A. Dedrick

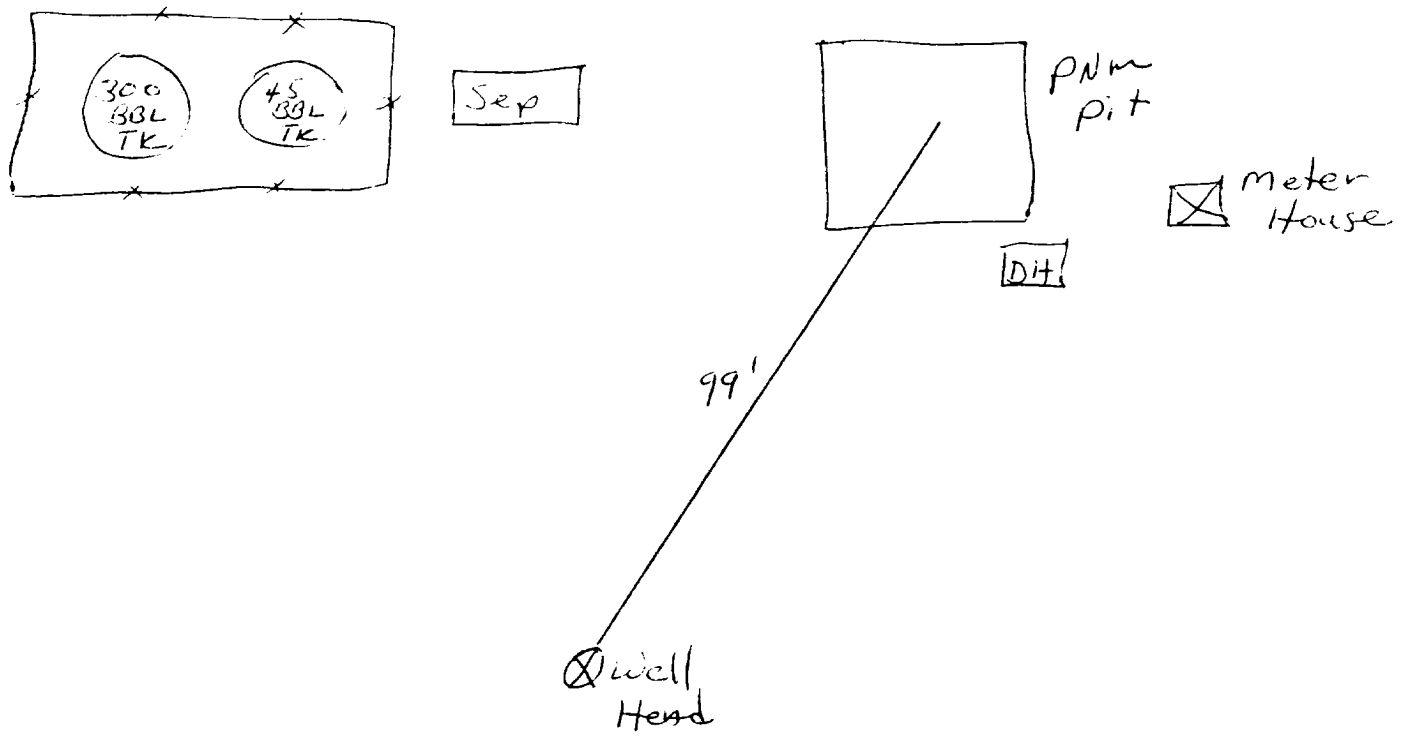
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

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): _____

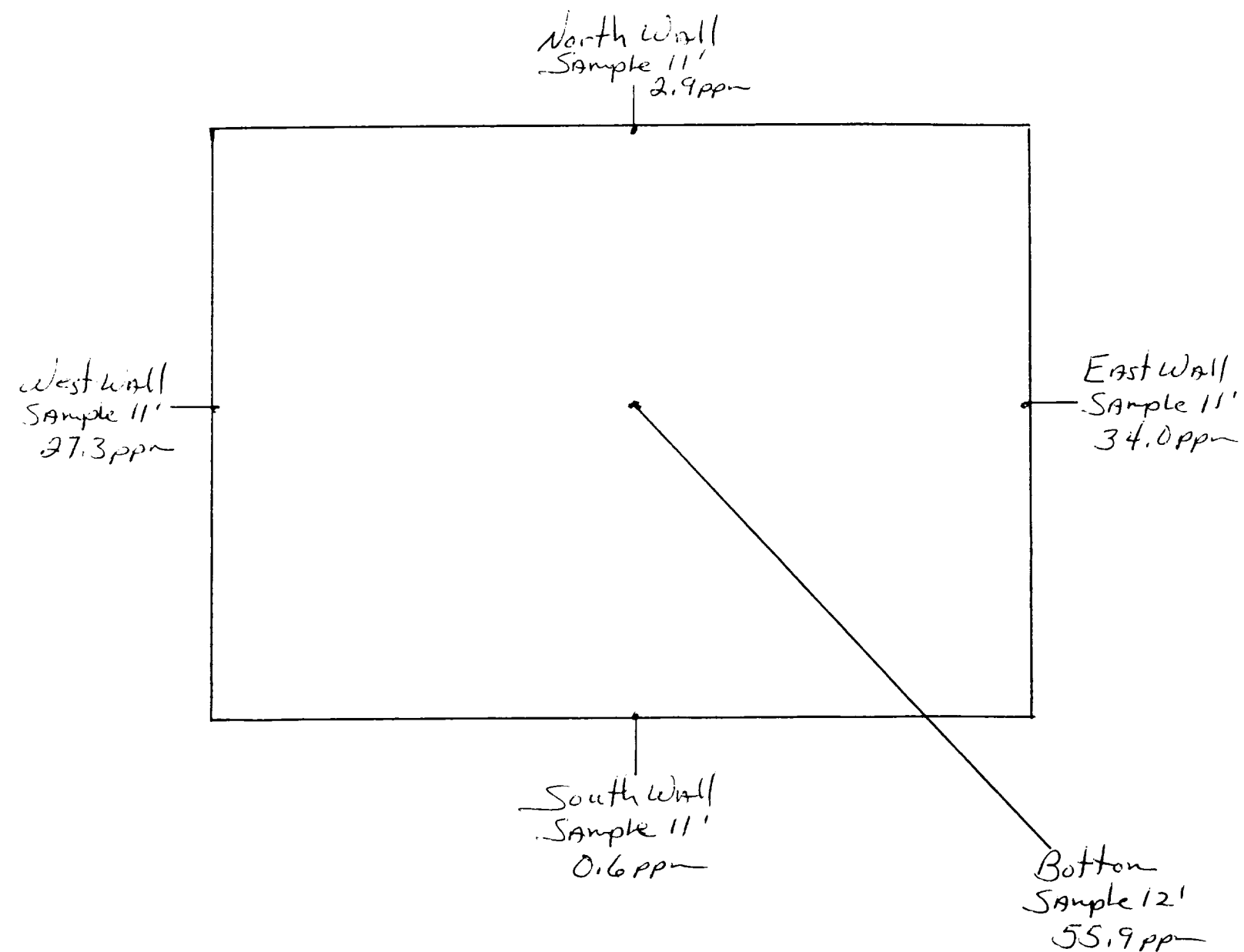
SIGNED: Kew C. Merrill DATE: 7-9-97

Jicarilla G-9E
Sec. 1 T26N R5W Unit P
BROG



Jicarilla G-9E
Sec. 1 T26N R5W Unit P
BROG

28' x 19' x 12'



5' Sample - 694 ppm

10' Sample - 202 ppm

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: *3-Jul-97*
COC No.: *5499*
Sample No.: *15153*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-9E*
Project Location: *9706301021; 5pt. Composite*
Sampled by: *PA* Date: *30-Jun-97* Time: *10:21*
Analyzed by: *DC/HR* Date: *2-Jul-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	204	2.2	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	90	94	(70-130)	4	20%

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

Approved by: *[Signature]*

Date: *7/2/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- FIGHT TOGETHER BLENDING INDUSTRY WITH THE ENVIRONMENT -

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

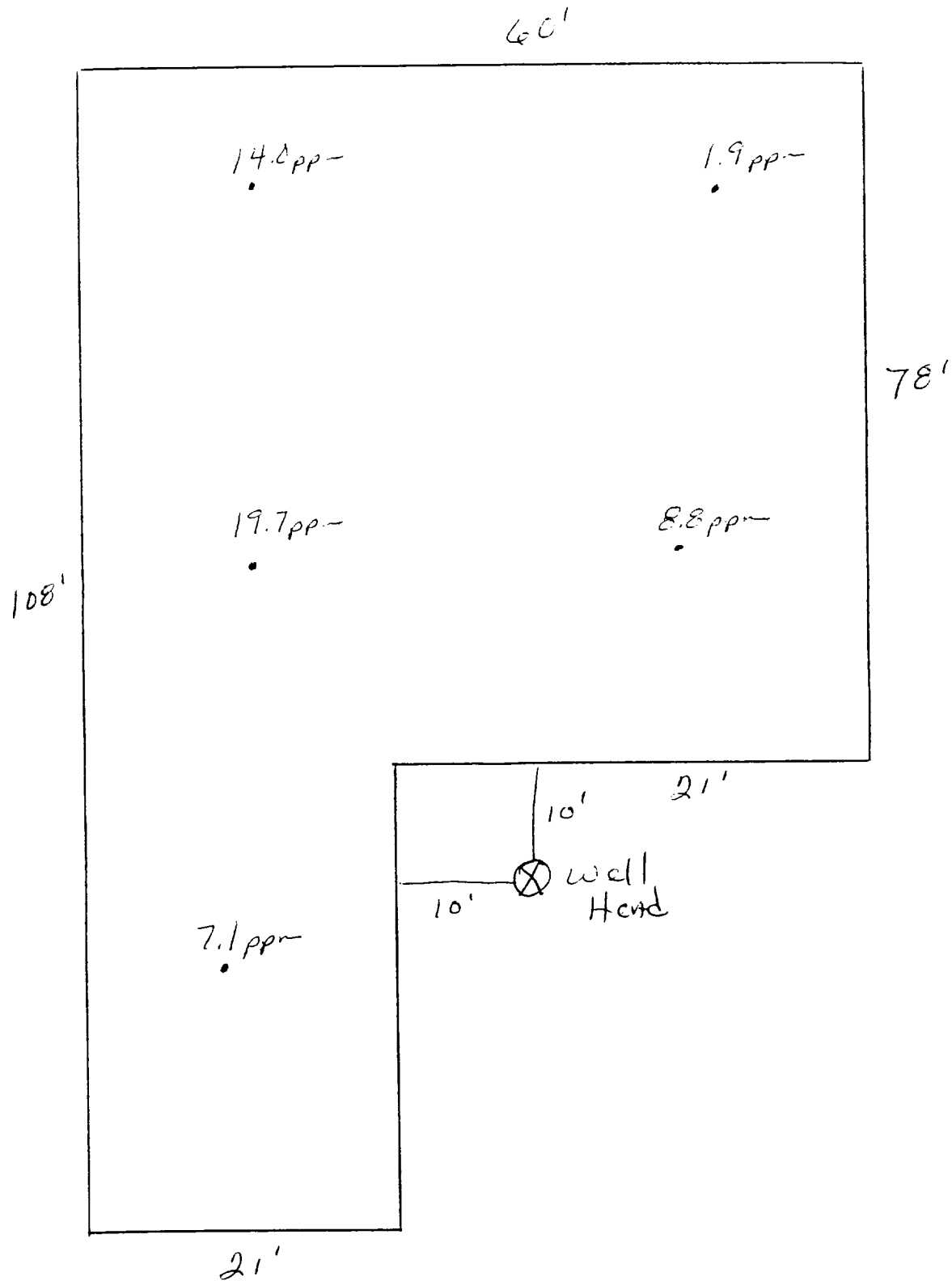
SUBMIT 1 COPY TO
NATURAL
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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (BR06) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicarilla G-9E	
Location: Unit: P Sec. 1 T. 26 N R. 5 W County Rio Arriba	
Land Type: Jicarilla Apache	
Date Remediation Started: 6/30/97 Date Completed: 7/3/97	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards: 236	
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth to Ground Water: (pts.) 6 Distance to an Ephemeral Stream: (pts.) 6 Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 6 Wellhead Protection Area: (pts.) 6 Distance to Surface Water: (pts.) 6 Ranking Score (Total Points): 6	Final Closure Sampling: Sampling Date: 7/8/97 Time: 1.320 Sampling Results: Field Headspace (ppm): 19.7 TPH (ppm): ND Method: 8015 Other:
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: 7/17/97 PRINTED NAME: Ronald A. Dedrick	
SIGNATURE: <u>Ronald A. Dedrick</u> 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): not as Backfill	
SIGNED: <u>Kurt C. Mamm</u> DATE: 7-22-97	

Jicarilla G-4E
Sec. 1 T26N R5W Unit P
BROG

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: *16-Jul-97*
COC No.: *5524*
Sample No.: *15295*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-9E Landfarm*
Project Location: *9707081320; 5pt. Composite*
Sampled by: *RB* Date: *8-Jul-97* Time: *13:20*
Analyzed by: *DC/HR* Date: *14-Jul-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	195	2.5	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	83	87	(70-130)	5	20%

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

Approved by: *[Signature]*
Date: *7/16/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -