

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

OCT 28 1997

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 REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (BROC) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Arizona Jicarilla #7
Location: Unit: K Sec. 24 T. 2.5 N R. 4 W County Rio Arriba
Pit Type: Separator X Dehydrator Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 33' width 28' depth 28'
(Attach diagram) Reference: wellhead X other
Footage from reference: 4.5'
Direction from reference: 4.5 Degrees East North
 West South

Depth to Ground Water:

(Vertical distance from contaminant 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) E

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) E

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) E

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) E

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) E

RANKING SCORE (TOTAL POINTS): E

Date Remediation Started:

4/29/97

Date Completed:

6/4/97

Remediation Method:

Excavation

X

Approx. Cubic Yards

9.58(Check all
appropriate
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

9.58

Other _____

Remediation Location:

Onsite

X

Offsite _____

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

General Description of Remedial Action:

Removed contamination from all four side walls
And bottom of pit as to get it below 100 ppm
head space reading.

Ground Water Encountered:

No

X

Yes _____

Depth _____

Final Pit Closure
Sampling:

Sample Location

North, East, South, West side
walls And Bottom of pit.(if multiple samples, attach
sample result and diagram of
sample locations and
depths.)

Sample depth

28'

Sample date

4/29/97

Sample time

1803

Sample Results

Soil: Benzene (ppm) _____

Water: Benzene (ppb) _____

Total BTEX (ppm) _____

Toluene (ppb) _____

Field headspace (ppm)

13.5

Ethylbenzene (ppb) _____

TPH

ND

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

5/9/97

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): _____

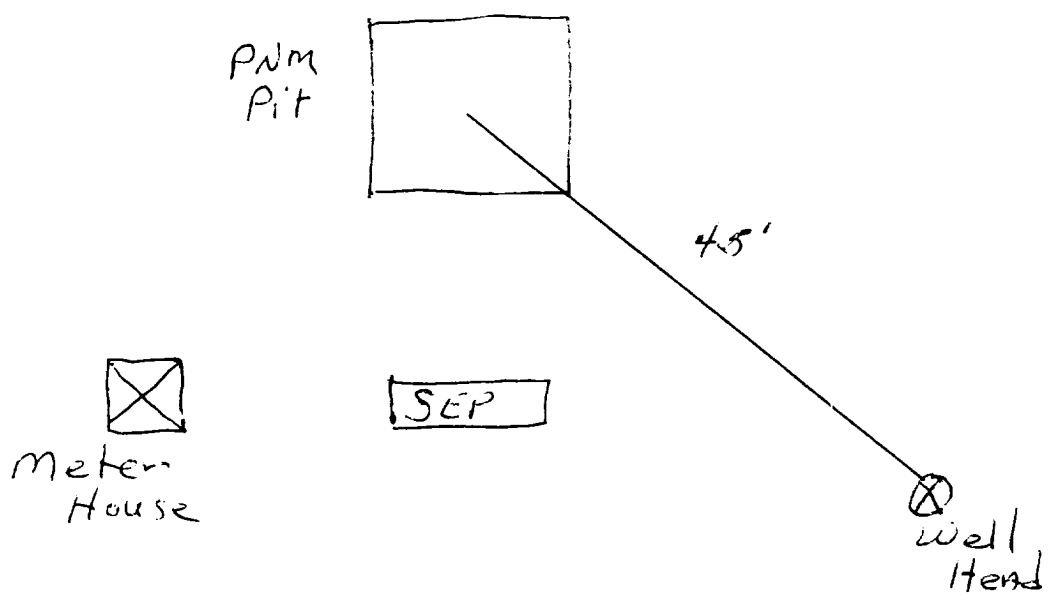
SIGNED:

Lee C. Marshall

DATE:

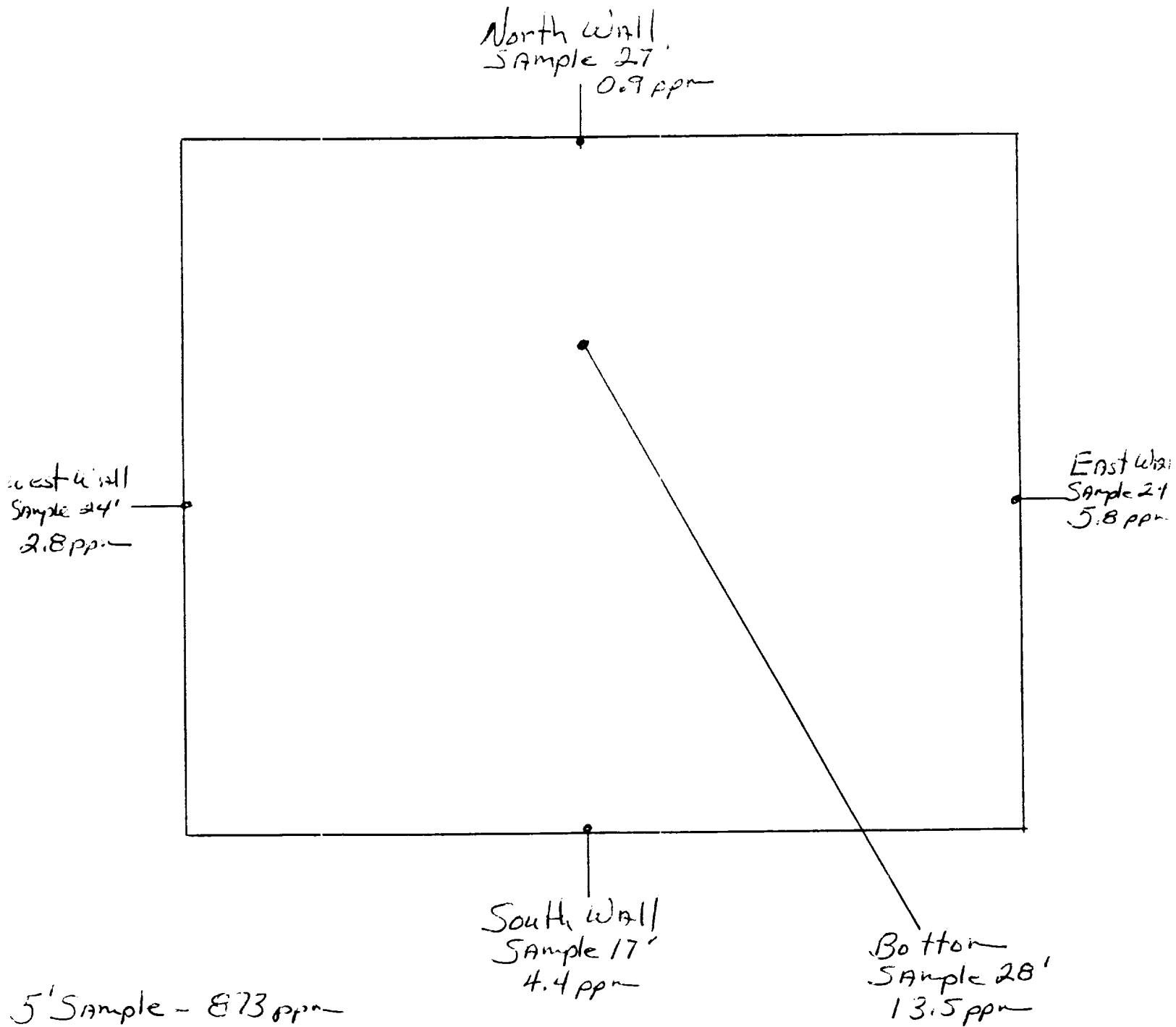
5-14-97

Arizona Jicarilla #7
Sec. 26 T25N R4W Unit #
BRUG



Arizona Jicarilla #7
Sec. 26 T25N R4W Unit K
BROG

33' x 28' x 28'



5' Sample - 873 ppm
10' Sample - 740 ppm
15' Sample - 629 ppm
20' Sample - 602 ppm
25' Sample - 214 ppm
28' Sample - 13.5 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: *2-May-97*
COC No.: *5432*
Sample No.: *14419*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Arizona Jicarilla #7 Run 12-61*

Project Location: *9704291803; 5pt. Composite*

Sampled by: *PA* Date: *29-Apr-97* Time: *18:03*

Analyzed by: *HR/DC* Date: *1-May-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	5.0	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0519-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	100	95	4.8	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	86	93	(70-130)	8	20%

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

Approved by: *[Signature]*

Date: *5/2/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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

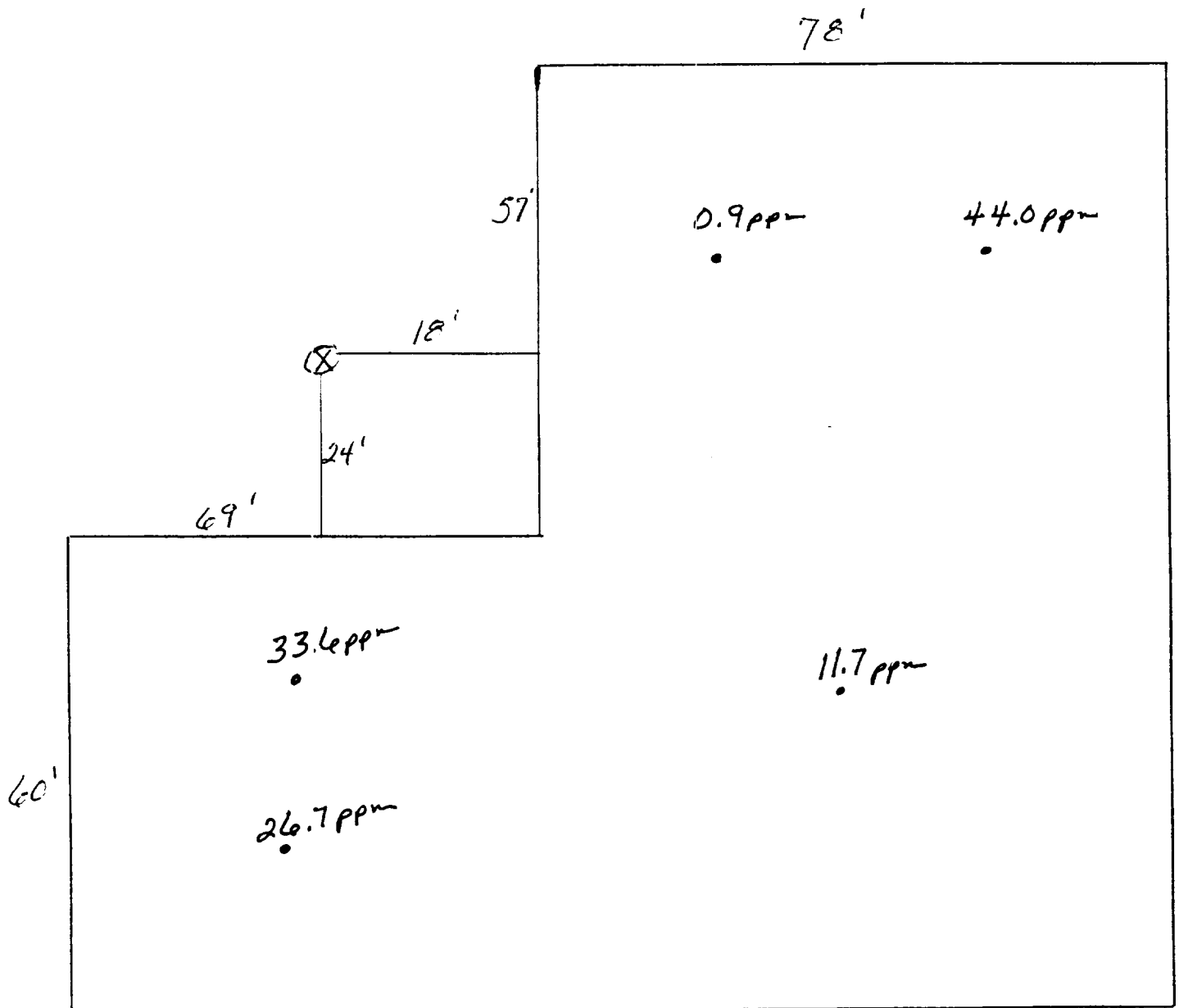
SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator:	PNM Gas Services	BROG	Telephone:	324-3764
Address:	603 W. Elm Street Farmington, NM 87401			
Facility or Well Name:	Arizona Jicarilla #7			
Location:	Unit:	K	Sec.	26 T. 25 N. R. 4 W. County Rio Arriba
Land Type:	Jicarilla Apache			
Date Remediation Started:	4/29/97		Date Completed:	5/22/97
Remediation Method:	Landfarmed <u>X</u>		Approx. cubic yards	758
	Composted <u>—</u>			
	Other <u>—</u>			
Depth to Ground Water:	(pts.)	<u>2</u>	Final Closure Sampling:	
Distance to an Ephemeral Stream:	(pts.)	<u>2</u>	Sampling Date: 5/12/97 Time 1056	
Distance to Nearest Lake, Playa, or Watering Pond:	(pts.)	<u>2</u>	Sampling Results:	
Wellhead Protection Area:	(pts.)	<u>2</u>	Field Headspace (ppm) 44.0	
Distance to Surface Water:	(pts.)	<u>2</u>	TPH (ppm) ND Method 8015	
Ranking Score (Total Points):		<u>2</u>	Other <u>—</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF				
DATE	5/22/97		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 <u>X</u>	NO <u>—</u>	(REASON)	<u>—</u>
SIGNED:	<u>Kenn C Mann</u>		DATE:	5-29-97

Arizona Jicarilla #7
Sec. 26 T25N R4W Unit K
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: *22-May-97*
COC No.: *5454*
Sample No.: *14626*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Arizona Jicarilla #7 Landfarm Run 12-61*
Project Location: *9705121056; 5pt. Composite*
Sampled by: *RB* Date: *12-May-97* Time: *10:56*
Analyzed by: *HR/DC* Date: *16-May-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	5.0	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: *0519-STD*

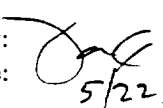
Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	100	104	4.2	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	96	88	(70-130)	9	20%

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

Approved by: 

Date: *5/22/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRIES WITH THE ENVIRONMENT -