

Denny L. Frost
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

OCT 28 1997

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
DULCE, NEW MEXICO 87528

Approved
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-7M
Location: Unit: P Sec. 11 T. 26 N R. 5 W County Rio Arriba
Pit Type: Separator Dehydrator X Other
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 32' width 28' depth 10'
(Attach diagram) Reference: wellhead X other
Footage from reference: 120'
Direction from reference: 45 Degrees East North
 West South

Depth to Ground Water:

(Vertical distance from contaminants 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) 0

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) 0

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) 0

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) 0

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) 0

RANKING SCORE (TOTAL POINTS): 0

RECEIVED
JUL 31 1997

OIL CON. DIV.
DIST. 3

Date Remediation Started: 5/13/97

Date Completed: 6/24/97

Remediation Method:

Excavation X

Approx. Cubic Yards 332

(Check all appropriate sections)

Landfarmed X

Amount Landfarmed (cubic yds): 332

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 of pit was solid sandstone rock.

Ground Water Encountered:

No X

Yes _____

Depth _____

Final Pit Closure Sampling:

Sample Location North, East, South and West side walls.

Sample depth 9'

Sample date 5/13/97

Sample time 1506

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

Sample Results

Soil: Benzene (ppm) ND

Water: Benzene (ppb) _____

Total BTEX (ppm) 0.0015

Toluene (ppb) _____

Field headspace (ppm) 12.6

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 5/22/97

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 _____

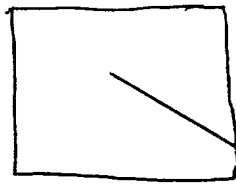
(REASON): _____

SIGNED: Kerr C. Marshall

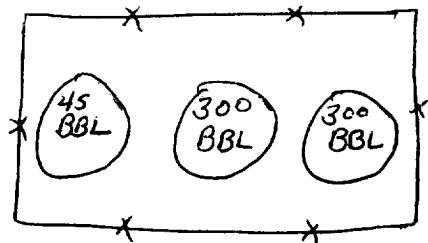
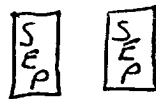
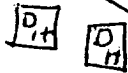
DATE: 5-29-97

Jicarella G-1M
Sec. 11 T26N R5W Unit P
BROG

PNM
Pit



120'



312AR111A 0-111
Sec. 11 T26N R5W Unit A
BROG

32' x 28' x 10'

North Wall
Sample 9'
8.4 ppm

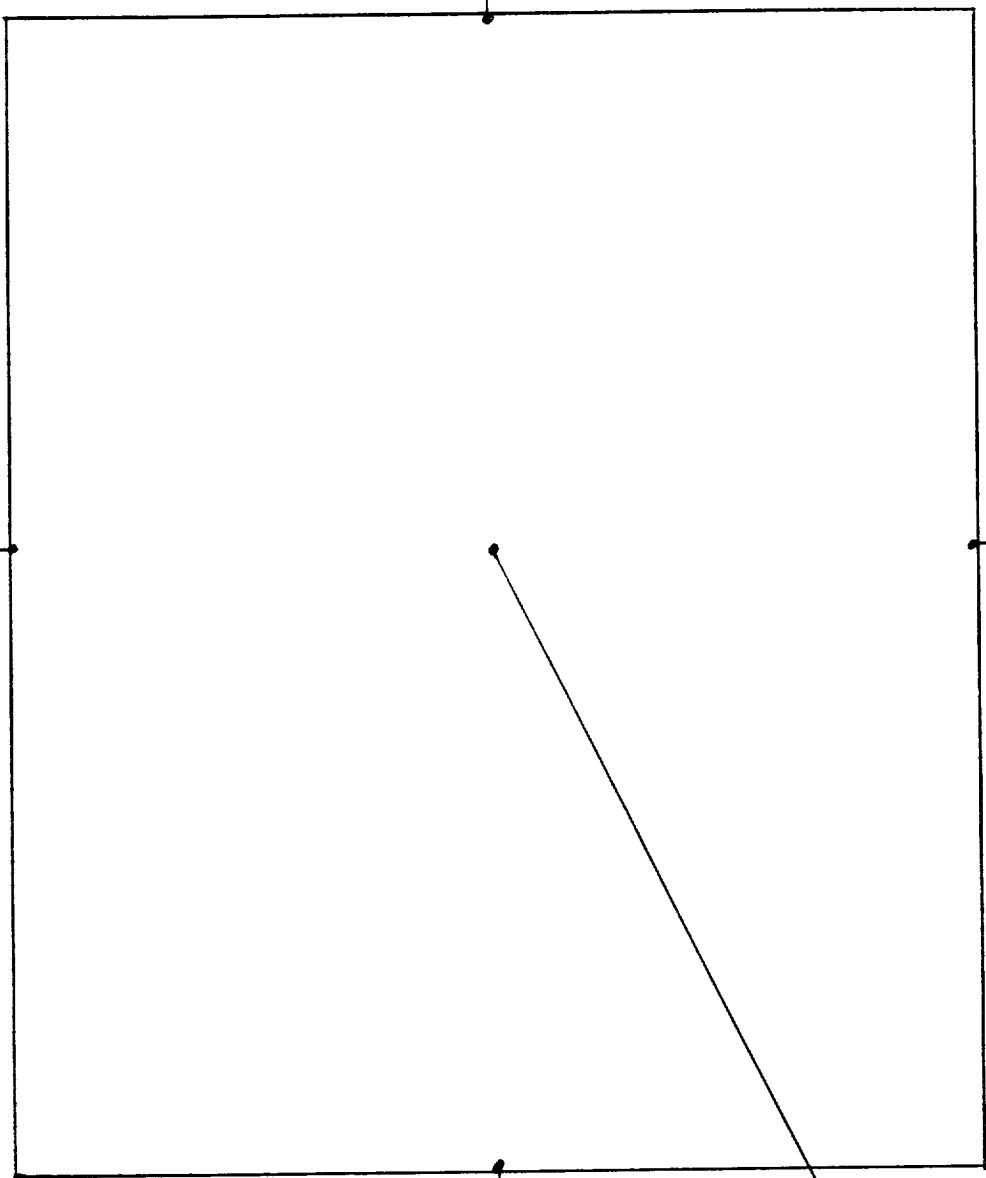
West Wall
Sample 9'
8.1 ppm

East Wall
Sample 9'
9.1 ppm

South Wall
Sample 9'
12.6 ppm

Bottom 10'
Rock

5'-Sample 918 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: *22-May-97*
 COC No.: *5457*
 Sample No.: *14629*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-7M Run 12-21*
 Project Location: *9705131506; 4pt. Composite*
 Sampled by: SA Date: *13-May-97* Time: *15:06*
 Analyzed by: HR/DC Date: *19-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	112	11.2	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	100	100	(70-130)	0	20%

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

Approved by: *[Signature]*
 Date: *5/22/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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.: *5457*
 Sample No.: *14629*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla G-7M Run 12-21*
 Project Location: *9705131506; 4pt. Composite*
 Sampled by: *SA* Date: *13-May-97* Time: *15:06*
 Analyzed by: *DC* Date: *21-May-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	1.0	ug/kg
<i>Toluene</i>	ND	ug/kg	1.0	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1.0	ug/kg
<i>m,p-Xylene</i>	1.5	ug/kg	1.0	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1.0	ug/kg
	<i>TOTAL</i>	1.5		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
 Date: *5/22/97*

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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: Jicarilla G-7m
Location: Unit: P Sec. 11 T. 26 N. R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 5/13/97 Date Completed: 6/11/97
Remediation Method: Landfilled Approx. cubic yards 332
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: 6/11/97 Time 1530
Sampling Results:
Field Heavymetals (ppm) 31.2
TPH (ppm) 17 Method 8015
Other _____

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

DATE 6/20/97 PRINTED NAME Ronald A. Dedrick
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

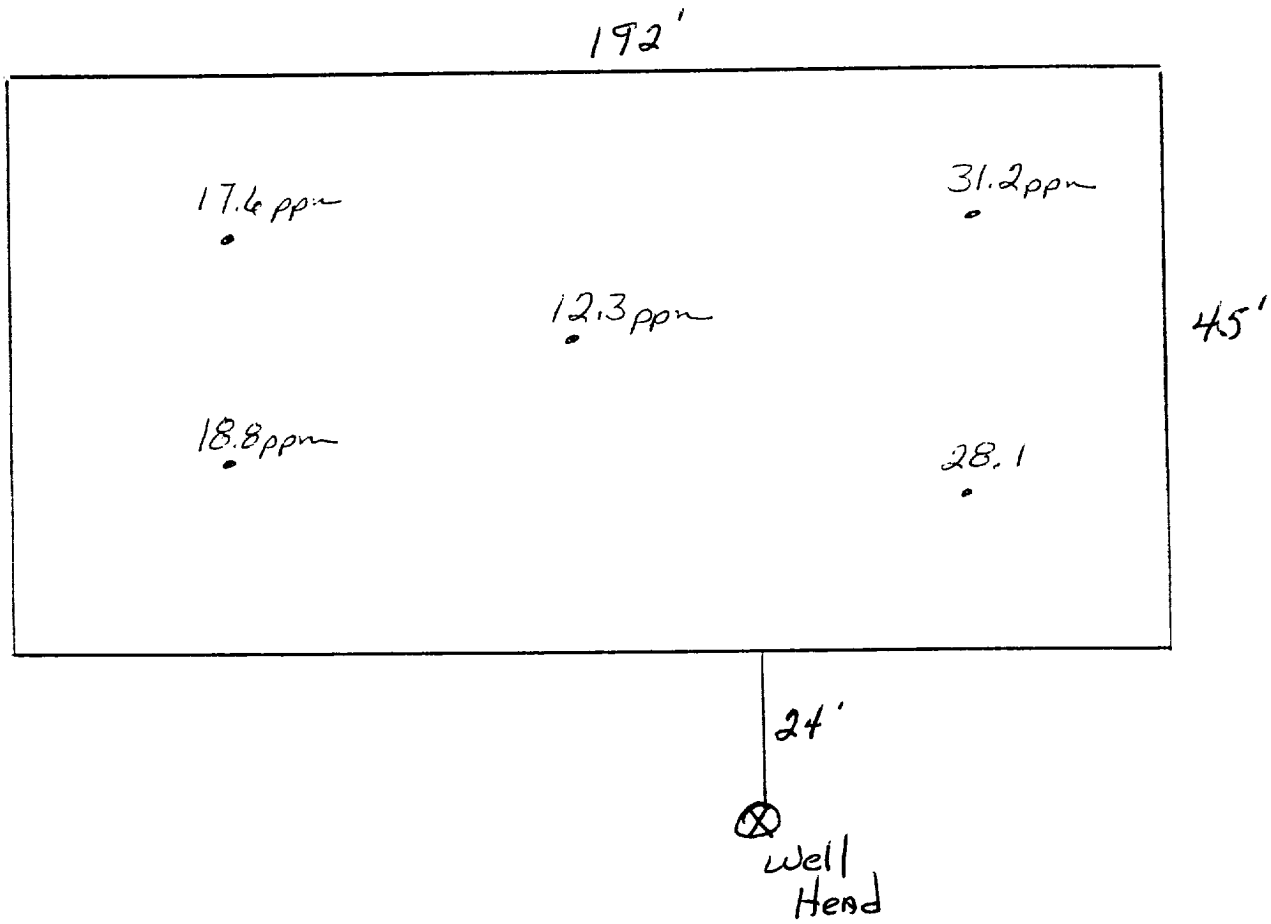
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES NO (REASON) _____

SIGNED: [Signature] DATE: 6-23-97

KARILLA G 111
Sec. 11 T26N R5W Unit P
3 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: *17-Jun-97*
 COC No.: *5486*
 Sample No.: *14927*
 Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla G-7M Landfarm***
 Project Location: ***9706111530; 5pt. Composite***
 Sampled by: *RB* Date: *11-Jun-97* Time: *15:30*
 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>	<i>17</i>	<i>mg/kg</i>	<i>5</i>	<i>mg/kg</i>

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>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>209</i>	<i>4.4</i>	<i>15%</i>

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>88</i>	<i>90</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

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

Approved by: *[Signature]*
 Date: *6/17/97*

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