

District I  
P.O. Box 1880 Hobbs NM  
District II  
P.O. Drawer DD, Artesia NM 88221  
District III  
1000 Rio Brazos Rd. Aztec NM 87410

*Denny E. Faust*  
**DEPUTY OIL & GAS INSPECTOR**

JUN 23 1998

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

*Approved*  
**PIT REMEDIATION AND CLOSURE REPORT**

**Operator:** PNM Gas Services (Caulkins) **Telephone:** 324-3764

**Address:** 603 W. Elm Street Farmington, NM 87401

**Facility or Well Name:** State A #562

**Location:** Unit H Sec 2 T 26 N R 6 W County Rio Arriba

**Pit Type:** Separator ☒ Dehydrator ☐ Other ☐

**Land Type:** BLM ☒ State ☐ Fee ☐ Other ☐

**Pit Location:** Pit dimensions: length 20 width 20 depth 3

(Attach diagram) Reference: wellhead ☒ other ☐

Footage from reference: 60'

Direction from reference: 40 Degrees ☐ East ☐ North ☐  
of ☒ West ☒ South

**Depth to Ground Water:** Less than 50 feet (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 points) 0

(Vertical distance from contaminants to  
seasonal high water elevation of ground  
water)

**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

**RECEIVED**  
FEB - 3 1998  
**OIL CON. DIV.**  
DIST. 3

**Distance to Surface Water:**

(Horizontal distance to potential axes)

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

**RANKING SCORE (TOTAL POINTS):** 0

RECEIVED  
JAN 10 1964

U.S. DEPARTMENT OF AGRICULTURE  
WASHINGTON, D.C.

State A #562

Date Remediation Started: 9/24/97

Date Completed: 9/24/97

## Remediation Method:

Excavation

☒

Approx. Cubic Yard

216

(Check all appropriate sections)

Landfarmed

☒

Amount Landfarmed (cubic yds)

216

Other

## Remediation Location:

Onsite

☒

Offsite

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

## Backfill Material Location:

## General Description of Remedial Action:

Excavated contaminated soil to pit size of 18' X 18' X 18' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by plowing until soil met regulatory levels.

\*\*\* Bedrock encountered at 35'. See attached risk analysis form and laboratory analysis.

## Ground Water Encountered:

No

☒

Yes

Depth

## Final Pit Closure Sampling:

Sample Location

Bottom of excavation.

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

Sample depth

18'

Sample date

9/24/97

Sample time

9:30:00 AM

## Sample Results

Benzene (ppm) &lt; 1.0000

Total BTEX (ppm) \*\*\* 85.4300

Field headspace (ppm)

TPH (ppm)

126.00

Method

8015A

Vertical Extent (ft) 35'

Risk Assessment form attached

Yes

☒

No

☐

## Ground Water Sample:

Yes

☐

No

☒

(If yes, see attached Groundwater Site Summary Report)

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

DATE January 27, 1998

SIGNATURE

PRINTED NAME  
AND TITLEDenver Bearden  
Administrator III

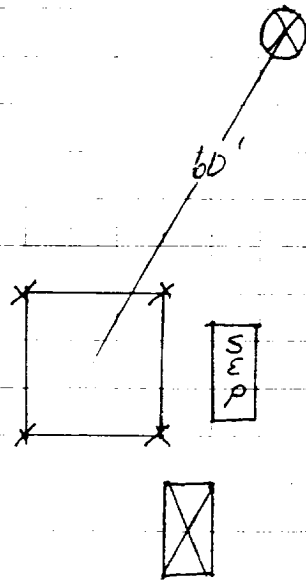
State A # 562

9-24-97

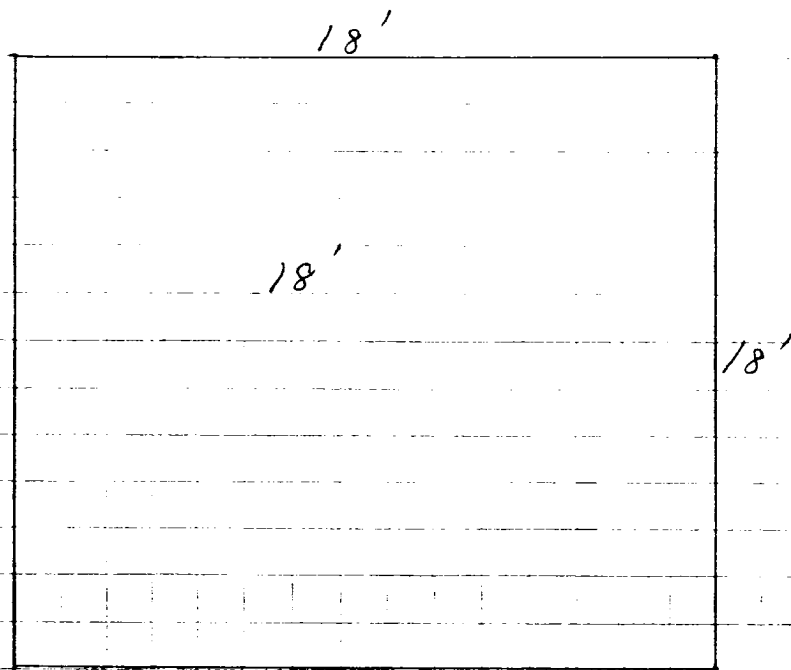
Can/Kins O:1

Sec. 2, 26N, 6W, H

start of excavation :



End of excavation :





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: *30-Sep-97*  
COC No.: *5806*  
Sample No.: *16318*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #562*

Project Location: *9709240930; Bottom @ 18'*

Sampled by: GC Date: *24-Sep-97* Time: *9:30*

Analyzed by: DC Date: *28-Sep-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	1000	ug/kg
<i>Toluene</i>	5605	ug/kg	1000	ug/kg
<i>Ethylbenzene</i>	9081	ug/kg	1000	ug/kg
<i>m,p-Xylene</i>	54965	ug/kg	1000	ug/kg
<i>o-Xylene</i>	15778	ug/kg	1000	ug/kg
	<i>TOTAL</i>	85430		ug/kg

ND - Not Detected at Limit of Quantitation

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

*Denver Bearden*  
*2/30/97*

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: *30-Sep-97*  
COC No.: *5806*  
Sample No.: *16319*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #562*  
Project Location: *9709241000; Walls @ 15'*  
Sampled by: *GC*  
Analyzed by: *HR/DC*  
Sample Matrix: *Soil*

Date: *24-Sep-97* Time: *10:00*  
Date: *30-Sep-97*

#### 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.: 0555-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	205	2.4	15%

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	86	82	(70-130)	5	20%

Method: EPA 821-1-A, EPA 821-1-B, EPA 821-1-C, EPA 821-1-D, EPA 821-1-E, EPA 821-1-F, EPA 821-1-G, EPA 821-1-H, EPA 821-1-I, EPA 821-1-J, EPA 821-1-K, EPA 821-1-L, EPA 821-1-M, EPA 821-1-N, EPA 821-1-O, EPA 821-1-P, EPA 821-1-Q, EPA 821-1-R, EPA 821-1-S, EPA 821-1-T, EPA 821-1-U, EPA 821-1-V, EPA 821-1-W, EPA 821-1-X, EPA 821-1-Y, EPA 821-1-Z, EPA 821-1-AA, EPA 821-1-AB, EPA 821-1-AC, EPA 821-1-AD, EPA 821-1-AE, EPA 821-1-AF, EPA 821-1-AG, EPA 821-1-AH, EPA 821-1-AI, EPA 821-1-AJ, EPA 821-1-AL, EPA 821-1-AM, EPA 821-1-AN, EPA 821-1-AO, EPA 821-1-AP, EPA 821-1-AQ, EPA 821-1-AR, EPA 821-1-AS, EPA 821-1-AT, EPA 821-1-AU, EPA 821-1-AV, EPA 821-1-AW, EPA 821-1-AX, EPA 821-1-AY, EPA 821-1-AZ, EPA 821-1-BA, EPA 821-1-BB, EPA 821-1-BC, EPA 821-1-BD, EPA 821-1-BE, EPA 821-1-BF, EPA 821-1-BG, EPA 821-1-BH, EPA 821-1-BI, EPA 821-1-BJ, EPA 821-1-BL, EPA 821-1-BM, EPA 821-1-BN, EPA 821-1-BO, EPA 821-1-BP, EPA 821-1-BQ, EPA 821-1-BR, EPA 821-1-BS, EPA 821-1-BT, EPA 821-1-BU, EPA 821-1-BV, EPA 821-1-BW, EPA 821-1-BX, EPA 821-1-BY, EPA 821-1-BZ, EPA 821-1-CA, EPA 821-1-CB, EPA 821-1-CC, EPA 821-1-CD, EPA 821-1-CE, EPA 821-1-CF, EPA 821-1-CG, EPA 821-1-CH, EPA 821-1-CI, EPA 821-1-CJ, EPA 821-1-CL, EPA 821-1-CM, EPA 821-1-CN, EPA 821-1-CO, EPA 821-1-CP, EPA 821-1-CQ, EPA 821-1-CR, EPA 821-1-CS, EPA 821-1-CT, EPA 821-1-CU, EPA 821-1-CV, EPA 821-1-CW, EPA 821-1-CX, EPA 821-1-CY, EPA 821-1-CZ, EPA 821-1-DA, EPA 821-1-DB, EPA 821-1-DC, EPA 821-1-DD, EPA 821-1-DE, EPA 821-1-DF, EPA 821-1-DG, EPA 821-1-DH, EPA 821-1-DI, EPA 821-1-DJ, EPA 821-1-DL, EPA 821-1-DM, EPA 821-1-DN, EPA 821-1-DO, EPA 821-1-DP, EPA 821-1-DQ, EPA 821-1-DR, EPA 821-1-DS, EPA 821-1-DT, EPA 821-1-DU, EPA 821-1-DV, EPA 821-1-DW, EPA 821-1-DX, EPA 821-1-DY, EPA 821-1-DZ, EPA 821-1-EA, EPA 821-1-EB, EPA 821-1-EC, EPA 821-1-ED, EPA 821-1-EE, EPA 821-1-EF, EPA 821-1-EG, EPA 821-1-EH, EPA 821-1-EI, EPA 821-1-EJ, EPA 821-1-EL, EPA 821-1-EM, EPA 821-1-EN, EPA 821-1-EO, EPA 821-1-EP, EPA 821-1-EQ, EPA 821-1-ER, EPA 821-1-ES, EPA 821-1-ET, EPA 821-1-EU, EPA 821-1-EV, EPA 821-1-EW, EPA 821-1-EX, EPA 821-1-EY, EPA 821-1-EZ, EPA 821-1-FA, EPA 821-1-FB, EPA 821-1-FC, EPA 821-1-FD, EPA 821-1-FE, EPA 821-1-FF, EPA 821-1-FG, EPA 821-1-FH, EPA 821-1-FI, EPA 821-1-FJ, EPA 821-1-FL, EPA 821-1-FM, EPA 821-1-FN, EPA 821-1-FO, EPA 821-1-FP, EPA 821-1-FQ, EPA 821-1-FR, EPA 821-1-FS, EPA 821-1-FT, EPA 821-1-FU, EPA 821-1-FV, EPA 821-1-FW, EPA 821-1-FX, EPA 821-1-FY, EPA 821-1-FZ, EPA 821-1-GA, EPA 821-1-GB, EPA 821-1-GC, EPA 821-1-GD, EPA 821-1-GE, EPA 821-1-GF, EPA 821-1-GG, EPA 821-1-GH, EPA 821-1-GI, EPA 821-1-GJ, EPA 821-1-GL, EPA 821-1-GM, EPA 821-1-GN, EPA 821-1-GO, EPA 821-1-GP, EPA 821-1-GQ, EPA 821-1-GR, EPA 821-1-GS, EPA 821-1-GT, EPA 821-1-GU, EPA 821-1-GV, EPA 821-1-GW, EPA 821-1-GX, EPA 821-1-GY, EPA 821-1-GZ, EPA 821-1-HA, EPA 821-1-HB, EPA 821-1-HC, EPA 821-1-HD, EPA 821-1-HE, EPA 821-1-HF, EPA 821-1-HG, EPA 821-1-HH, EPA 821-1-HI, EPA 821-1-HJ, EPA 821-1-HL, EPA 821-1-HM, EPA 821-1-HN, EPA 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821-1-KJ, EPA 821-1-KL, EPA 821-1-KM, EPA 821-1-KN, EPA 821-1-KO, EPA 821-1-KP, EPA 821-1-KQ, EPA 821-1-KR, EPA 821-1-KS, EPA 821-1-KT, EPA 821-1-KU, EPA 821-1-KV, EPA 821-1-KW, EPA 821-1-KX, EPA 821-1-KY, EPA 821-1-KZ, EPA 821-1-LA, EPA 821-1-LB, EPA 821-1-LC, EPA 821-1-LD, EPA 821-1-LE, EPA 821-1-LF, EPA 821-1-LG, EPA 821-1-LH, EPA 821-1-LI, EPA 821-1-LJ, EPA 821-1-LK, EPA 821-1-LM, EPA 821-1-LN, EPA 821-1-LO, EPA 821-1-LP, EPA 821-1-LQ, EPA 821-1-LR, EPA 821-1-LS, EPA 821-1-LT, EPA 821-1-LU, EPA 821-1-LV, EPA 821-1-LW, EPA 821-1-LX, EPA 821-1-LY, EPA 821-1-LZ, EPA 821-1-MA, EPA 821-1-MB, EPA 821-1-MC, EPA 821-1-MD, EPA 821-1-ME, EPA 821-1-MF, EPA 821-1-MG, EPA 821-1-MH, EPA 821-1-MI, EPA 821-1-MJ, EPA 821-1-MK, EPA 821-1-ML, EPA 821-1-MN, EPA 821-1-MO, EPA 821-1-MP, EPA 821-1-MQ, EPA 821-1-MR, EPA 821-1-MS, EPA 821-1-MT, EPA 821-1-MU, EPA 821-1-MV, EPA 821-1-MW, EPA 821-1-MX, EPA 821-1-MY, EPA 821-1-MZ, EPA 821-1-NA, EPA 821-1-NB, EPA 821-1-NC, EPA 821-1-ND, EPA 821-1-NE, EPA 821-1-NF, EPA 821-1-NG, EPA 821-1-NH, EPA 821-1-NI, EPA 821-1-NJ, EPA 821-1-NK, EPA 821-1-NL, EPA 821-1-NM, EPA 821-1-NN, EPA 821-1-NO, EPA 821-1-NP, EPA 821-1-NQ, EPA 821-1-NR, EPA 821-1-NS, EPA 821-1-NT, EPA 821-1-NU, EPA 821-1-NV, EPA 821-1-NW, EPA 821-1-NX, EPA 821-1-NY, EPA 821-1-NZ, EPA 821-1-OA, EPA 821-1-OB, EPA 821-1-OC, EPA 821-1-OD, EPA 821-1-OE, EPA 821-1-OF, EPA 821-1-OG, EPA 821-1-OH, EPA 821-1-OI, EPA 821-1-OJ, EPA 821-1-OK, EPA 821-1-OL, EPA 821-1-OM, EPA 821-1-ON, EPA 821-1-OO, EPA 821-1-OP, EPA 821-1-OQ, EPA 821-1-OR, EPA 821-1-OS, EPA 821-1-OT, EPA 821-1-OU, EPA 821-1-OV, EPA 821-1-OW, EPA 821-1-OX, EPA 821-1-OY, EPA 821-1-OZ, EPA 821-1-PA, EPA 821-1-PB, EPA 821-1-PC, EPA 821-1-PD, EPA 821-1-PE, EPA 821-1-PF, EPA 821-1-PG, EPA 821-1-PH, EPA 821-1-PI, EPA 821-1-PJ, EPA 821-1-PK, EPA 821-1-PL, EPA 821-1-PM, EPA 821-1-PN, EPA 821-1-PO, EPA 821-1-PP, EPA 821-1-PQ, EPA 821-1-PR, EPA 821-1-PS, EPA 821-1-PT, EPA 821-1-PU, EPA 821-1-PV, EPA 821-1-PW, EPA 821-1-PX, EPA 821-1-PY, EPA 821-1-PZ, EPA 821-1-QA, EPA 821-1-QB, EPA 821-1-QC, EPA 821-1-QD, EPA 821-1-QE, EPA 821-1-QF, EPA 821-1-QG, EPA 821-1-QH, EPA 821-1-QI, EPA 821-1-QJ, EPA 821-1-QK, EPA 821-1-QL, EPA 821-1-QM, EPA 821-1-QN, EPA 821-1-QO, EPA 821-1-QP, EPA 821-1-QQ, EPA 821-1-QR, EPA 821-1-QS, EPA 821-1-QT, EPA 821-1-QU, EPA 821-1-QV, EPA 821-1-QW, EPA 821-1-QX, EPA 821-1-QY, EPA 821-1-QZ, EPA 821-1-RA, EPA 821-1-RB, EPA 821-1-RC, EPA 821-1-RD, EPA 821-1-RE, EPA 821-1-RF, EPA 821-1-RG, EPA 821-1-RH, EPA 821-1-RI, EPA 821-1-RJ, EPA 821-1-RK, EPA 821-1-RL, EPA 821-1-RM, EPA 821-1-RN, EPA 821-1-RO, EPA 821-1-RP, EPA 821-1-RQ, EPA 821-1-RR, EPA 821-1-RS, EPA 821-1-RT, EPA 821-1-RU, EPA 821-1-RV, EPA 821-1-RW, EPA 821-1-RX, EPA 821-1-RY, EPA 821-1-RZ, EPA 821-1-SA, EPA 821-1-SB, EPA 821-1-SC, EPA 821-1-SD, EPA 821-1-SE, EPA 821-1-SF, EPA 821-1-SG, EPA 821-1-SH, EPA 821-1-SI, EPA 821-1-SJ, EPA 821-1-SK, EPA 821-1-SL, EPA 821-1-SM, EPA 821-1-SN, EPA 821-1-SO, EPA 821-1-SP, EPA 821-1-SQ, EPA 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821-1-VO, EPA 821-1-VP, EPA 821-1-VQ, EPA 821-1-VR, EPA 821-1-VS, EPA 821-1-VT, EPA 821-1-VU, EPA 821-1-VV, EPA 821-1-VW, EPA 821-1-VX, EPA 821-1-VY, EPA 821-1-VZ, EPA 821-1-WA, EPA 821-1-WB, EPA 821-1-WC, EPA 821-1-WD, EPA 821-1-WE, EPA 821-1-WF, EPA 821-1-WG, EPA 821-1-WH, EPA 821-1-WI, EPA 821-1-WJ, EPA 821-1-WK, EPA 821-1-WL, EPA 821-1-WM, EPA 821-1-WN, EPA 821-1-WO, EPA 821-1-WP, EPA 821-1-WQ, EPA 821-1-WR, EPA 821-1-WS, EPA 821-1-WT, EPA 821-1-WU, EPA 821-1-WV, EPA 821-1-WX, EPA 821-1-WY, EPA 821-1-WZ, EPA 821-1-XA, EPA 821-1-XB, EPA 821-1-XC, EPA 821-1-XD, EPA 821-1-XE, EPA 821-1-XF, EPA 821-1-XG, EPA 821-1-XH, EPA 821-1-XI, EPA 821-1-XJ, EPA 821-1-XK, EPA 821-1-XL, EPA 821-1-XM, EPA 821-1-XN, EPA 821-1-XO, EPA 821-1-XP, EPA 821-1-XQ, EPA 821-1-XR, EPA 821-1-XS, EPA 821-1-XT, EPA 821-1-XU, EPA 821-1-XV, EPA 821-1-XW, EPA 821-1-XX, EPA 821-1-XY, EPA 821-1-XZ, EPA 821-1-YA, EPA 821-1-YB, EPA 821-1-YC, EPA 821-1-YD, EPA 821-1-YE, EPA 821-1-YF, EPA 821-1-YG, EPA 821-1-YH, EPA 821-1-YI, EPA 821-1-YJ, EPA 821-1-YK, EPA 821-1-YL, EPA 821-1-YM, EPA 821-1-YN, EPA 821-1-YO, EPA 821-1-YP, EPA 821-1-YQ, EPA 821-1-YR, EPA 821-1-YS, EPA 821-1-YT, EPA 821-1-YU, EPA 821-1-YV, EPA 821-1-YW, EPA 821-1-YX, EPA 821-1-YY, EPA 821-1-YZ, EPA 821-1-ZA, EPA 821-1-ZB, EPA 821-1-ZC, EPA 821-1-ZD, EPA 821-1-ZE, EPA 821-1-ZF, EPA 821-1-ZG, EPA 821-1-ZH, EPA 821-1-ZI, EPA 821-1-ZJ, EPA 821-1-ZK, EPA 821-1-ZL, EPA 821-1-ZM, EPA 821-1-ZN, EPA 821-1-ZO, EPA 821-1-ZP, EPA 821-1-ZQ, EPA 821-1-ZR, EPA 821-1-ZS, EPA 821-1-ZT, EPA 821-1-ZU, EPA 821-1-ZV, EPA 821-1-ZW, EPA 821-1-ZX, EPA 821-1-ZY, EPA 821-1-ZZ

Approved by: *[Signature]*

Date: *9/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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: *29-Sep-97*  
COC No.: *5806*  
Sample No.: *16319*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #562*

Project Location: *9709241000; Walls @ 15'*

Sampled by: GC Date: *24-Sep-97* Time: *10:00*

Analyzed by: DC Date: *26-Sep-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	2	ug/kg
<i>Toluene</i>	6	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	37	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	181	ug/kg	2	ug/kg
<i>o-Xylene</i>	114	ug/kg	2	ug/kg
	<i>TOTAL</i>	338	ug/kg	

ND - Not Detected at Limit of Quantitation

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



↑  
N

10-6-97 @ 1140

State A#562

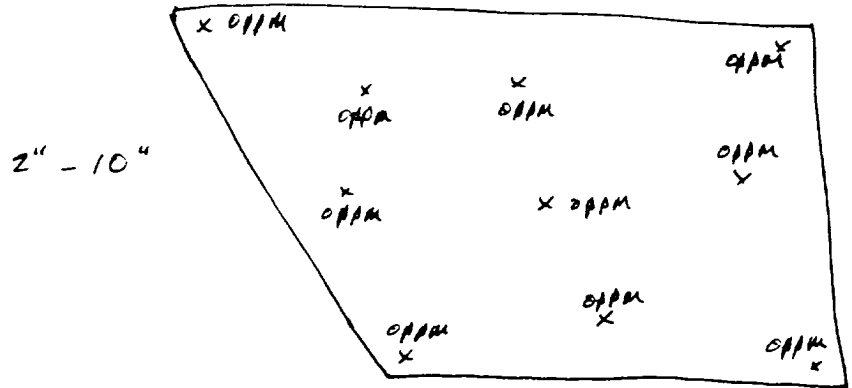
Caulkins

(A) 2-26N-6W

Rio Arriba

Sample # 9710061140

Landfarm field head space: 0.8 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: *8-Oct-97*  
COC No.: *5663*  
Sample No.: *16520*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #562 Landfarm*

Project Location: *9710061140; Composite*

Sampled by: *RH* Date: *6-Oct-97* Time: *11:40*

Analyzed by: *DC/HR* Date: *7-Oct-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. 0555-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	214	6.7	15%

### Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	94	86	(70-130)	9	20%

Method: EPA 821-1 (GC/MS) for Diesel Range Organics (C10-C28) in Soil

Approved by: *[Signature]*

Date: *10/6/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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: *26-Nov-97*  
COC No.: *7097*  
Sample No.: *16948*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #562*  
Project Location: *9711241100; 35' depth*  
Sampled by: *GC*  
Analyzed by: *DC/HR*  
Sample Matrix: *Soil*

Date: *24-Nov-97* Time: *11:00*  
Date: *25-Nov-97*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i>28</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.: 0555-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>194</i>	<i>2.8</i>	<i>15%</i>

#### Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	<i>89</i>	<i>92</i>	<i>(70-130)</i>	<i>3</i>	<i>20%</i>

Method: *ASTM D1525-97* (Soil Extractable Petroleum Hydrocarbons by Infrared Spectrometry)

Approved by: *[Signature]*  
Date: *11/26/97*

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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-Dec-97*  
COC No.: *7097*  
Sample No.: *16948*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - State A #562*

Project Location: *9711241100; 35' depth*

Sampled by: *GC*

Date: *24-Nov-97* Time: *11:00*

Analyzed by: *DC*

Date: *26-Nov-97*

Sample Matrix: *Soil*

#### Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>122</i>	<i>ug kg</i>	<i>25</i>	<i>ug kg</i>
<i>Toluene</i>	<i>373</i>	<i>ug kg</i>	<i>25</i>	<i>ug kg</i>
<i>Ethylbenzene</i>	<i>205</i>	<i>ug kg</i>	<i>25</i>	<i>ug kg</i>
<i>m,p-Xylene</i>	<i>1454</i>	<i>ug kg</i>	<i>25</i>	<i>ug kg</i>
<i>o-Xylene</i>	<i>347</i>	<i>ug kg</i>	<i>25</i>	<i>ug kg</i>
<i>TOTAL</i>	<i>2502</i>	<i>ug kg</i>		

ND - Not Detected at Limit of Quantitation

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

*Approved*  
*Date*



Well Name:	State A #562
Well Legals:	Unit H, Sec 2, T26N, R6W
Pit Type:	Separator
Horizontal Distance to Surface Water:	Greater than 1,000 ft
Groundwater Depth:	Greater than 100 ft

### **RISK ANALYSIS**

PNM requests closure of the State A #562 using a limited risk analysis of the site conditions.

1. PNM estimated groundwater to be at a depth of 230 ft. based upon elevation of site to the Largo Wash. (Reference: topographic map.)
2. This site is not located within 200 ft. of a domestic water well and is not within 1,000 ft. of any other water source.
3. Distance from the site to surface water is greater than 1,000 ft.
4. PNM excavated 216 cu. yds. from the former pit. Vertical extent was determined using a hollow stem drilling rig. Bedrock was encountered @ 35 ft. below ground surface.

Based upon the information provided above, PNM believes the State A #562 poses minimal risk to the environment. Subsurface lateral migration is limited based upon PNM's past experience in excavating 800 pits. Source removal minimizes the possibility of surface water contamination. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is highly unlikely.