

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOC District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐  
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Williams Production Company, LLC. Telephone: 918-573-5314 e-mail address: Olivia.mcnamara@williams.com  
Address: 999 Goddard Ave Ignacio, CO 81137  
Facility or well name: Rosa 233 API #: 30-039-24440 U/L or Qtr/Qtr NWSW Sec 30 T 31N R 5W  
County: Rio Arriba Latitude 36.8682 Longitude -107.4037 NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☐ Production ☐ Disposal ☐

Workover ☒ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 20 mil Clay ☐

Pit Volume 200 bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

50 feet or more, but less than 100 feet

(10 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

No

( 0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

1000 feet or more

( 0 points)

**Ranking Score (Total Points)**

10

**If this is a pit closure:** (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

SEE WILLIAMS CLOSURE PLAN

NO REMEDIATION REQUIRED

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 8/1/2004

Printed Name/Title Olivia McNamara EH&S Specialist

Signature

*Olivia McNamara*

Your certification and NMOC approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title

DEPUTY OIL & GAS INSPECTOR, DIST. 4

Signature

*Dennis Raul*

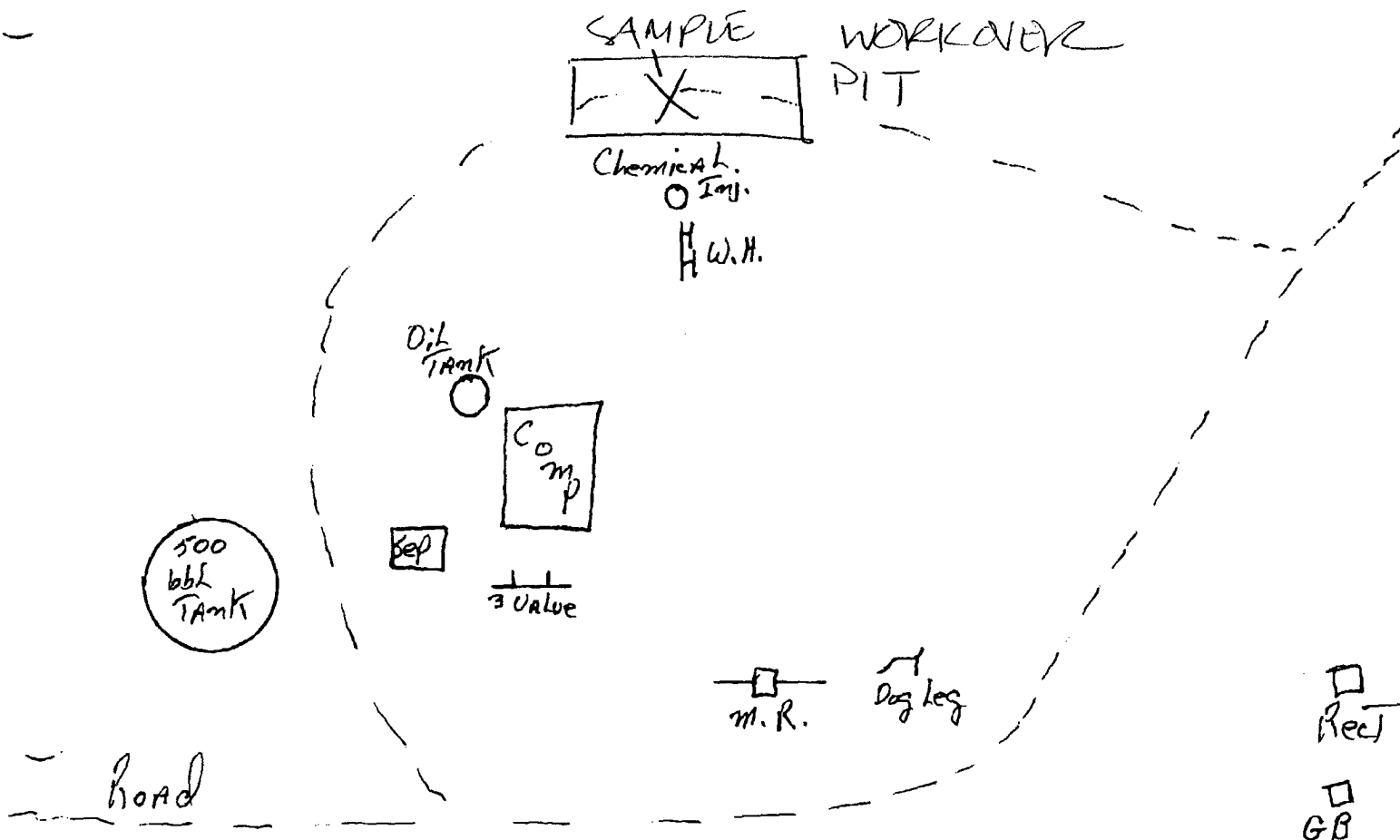
Date:

AUG - 6 2004

FROM

Ruin 0452

Rosa Unit #233



# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****TRACE METAL ANALYSIS**

|                    |                     |                  |             |
|--------------------|---------------------|------------------|-------------|
| Client:            | Williams Production | Project #:       | 03020-001   |
| Sample ID:         | Rosa #233           | Date Reported:   | 06-29-04    |
| Laboratory Number: | 29306               | Date Sampled:    | 06-23-04    |
| Chain of Custody:  | 12445               | Date Received:   | 06-24-04    |
| Sample Matrix:     | Soil                | Date Analyzed:   | 06-29-04    |
| Preservative:      | Cool                | Date Digested:   | 06-28-04    |
| Condition:         | Cool & Intact       | Analysis Needed: | RCRA Metals |

| Parameter | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) | TCLP Regulatory<br>Level<br>(mg/Kg) |
|-----------|--------------------------|--------------------------|-------------------------------------|
| Arsenic   | 0.008                    | 0.001                    | 5.0                                 |
| Barium    | 0.242                    | 0.001                    | 100                                 |
| Cadmium   | ND                       | 0.001                    | 1.0                                 |
| Chromium  | 0.001                    | 0.001                    | 5.0                                 |
| Lead      | 0.001                    | 0.001                    | 5.0                                 |
| Mercury   | ND                       | 0.001                    | 0.2                                 |
| Selenium  | 0.005                    | 0.001                    | 1.0                                 |
| Silver    | ND                       | 0.001                    | 5.0                                 |

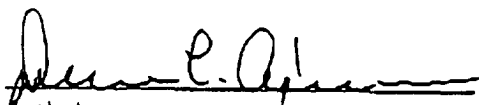
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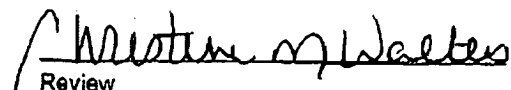
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.  
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, August 24, 1998.

Comments: Rosa Unit.

  
Analyst

  
Review

# ENVIROTECH LABS

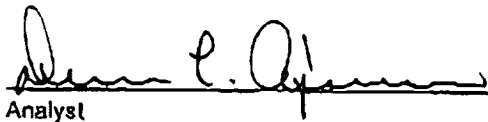
**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EC, SAR, ESP, CI Analysis**

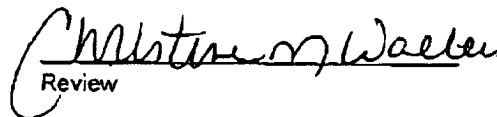
|                    |                     |                 |           |
|--------------------|---------------------|-----------------|-----------|
| Client:            | Williams Production | Project #:      | 03020-001 |
| Sample ID:         | Rosa #233           | Date Reported:  | 06-29-04  |
| Laboratory Number: | 29306               | Date Sampled:   | 06-23-04  |
| Chain of Custody:  | 12445               | Date Received:  | 06-24-04  |
| Sample Matrix:     | Soil                | Date Extracted: | 06-28-04  |
| Preservative:      | Cool                | Date Analyzed:  | 06-29-04  |
| Condition:         | Cool & Intact       |                 |           |

| Parameter                         | Analytical Result | Units    |
|-----------------------------------|-------------------|----------|
| Conductivity @ 25° C              | 0.935             | mmhos/cm |
| Calcium                           | 49.4              | mg/Kg    |
| Magnesium                         | 4.39              | mg/Kg    |
| Sodium                            | 218               | mg/Kg    |
| Sodium Absorption Ratio (SAR)     | 8.0               | ratio    |
| Exchangeable Sodium Percent (ESP) | 9.4               | percent  |
| Chloride                          | 340               | mg/Kg    |

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Rosa Unit.

  
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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

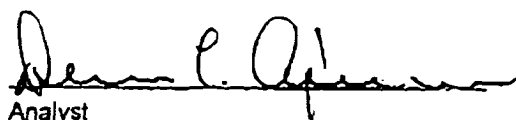
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|----------------------|---------------------|---------------------|-----------|
| Client:              | Williams Production | Project #:          | 03020-001 |
| Sample ID:           | Rosa #233           | Date Reported:      | 06-29-04  |
| Laboratory Number:   | 29306               | Date Sampled:       | 06-23-04  |
| Chain of Custody No: | 12445               | Date Received:      | 06-24-04  |
| Sample Matrix:       | Soil                | Date Extracted:     | 06-28-04  |
| Preservative:        | Cool                | Date Analyzed:      | 06-28-04  |
| Condition:           | Cool and Intact     | Analysis Requested: | 8015 TPH  |

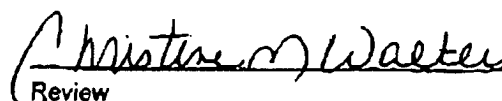
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa Unit.

  
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# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

|                    |                     |                     |           |
|--------------------|---------------------|---------------------|-----------|
| Client:            | Williams Production | Project #:          | 03020-001 |
| Sample ID:         | Rosa #233           | Date Reported:      | 06-29-04  |
| Laboratory Number: | 29306               | Date Sampled:       | 06-23-04  |
| Chain of Custody:  | 12445               | Date Received:      | 06-24-04  |
| Sample Matrix:     | Soil                | Date Analyzed:      | 06-28-04  |
| Preservative:      | Cool                | Date Extracted:     | 06-28-04  |
| Condition:         | Cool & Intact       | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 1.8                      |
| Toluene      | 15.8                     | 1.7                      |
| Ethylbenzene | 11.2                     | 1.5                      |
| p,m-Xylene   | 40.8                     | 2.2                      |
| o-Xylene     | 12.9                     | 1.0                      |

**Total BTEX****Q80.7**

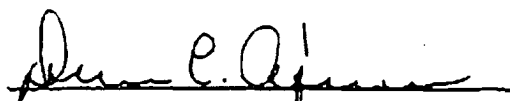
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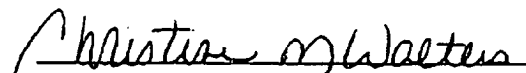
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98 %             |
|                       | 1,4-difluorobenzene | 98 %             |
|                       | Bromochlorobenzene  | 98 %             |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa Unit.

  
Analyst

  
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