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

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

Form C-144
June 1, 2004

**For drilling and production facilities,** submit to appropriate NMOCD 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: Burlington Resources Telephone: (505) 326-9841 e-mail address: LHasely@br-inc.com
Address: 3401 East 30th Street, Farmington, New Mexico, 87402
Facility or well name: San Juan 29-7 Unit 42 API #: 30039075400000 U/L or Qtr/Qtr H Sec 29 T 29N R 7W
County: Rio Arriba Latitude 36.69961 Longitude -107.5894 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

| **Pit** | **Below-grade tank** | | |
|---|---|---|---|
| Type: Drilling ☐ Production ☐ Disposal ☐<br>Workover ☐ Emergency ☐<br>Lined ☐ Unlined ☐<br>Liner type: Synthetic ☐ Thickness _____mil Clay ☐<br>Pit Volume _____bbl | Volume: 40 bbl Type of fluid: Produced Water and Incidental Oil<br>Construction material: Fiberglass<br>Double-walled, with leak detection? Yes ☐ If not, explain why not.<br>No. Tank in place prior to Rule 50. | | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | Less than 50 feet<br>50 feet or more, but less than 100 feet<br>100 feet or more | (20 points)<br>(10 points)<br>( 0 points) | 0 |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | Yes<br>No | (20 points)<br>( 0 points) | 0 |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet<br>200 feet or more, but less than 1000 feet<br>1000 feet or more | (20 points)<br>(10 points)<br>( 0 points) | 20 |
| | **Ranking Score (Total Points)** | | 20 |

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**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 your 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:
Maximum practical extent of excavation reached at 25' depth, encountered sandstone.
BTEX lab analysis is attached.
Landfarm analysis is attached.

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 NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 10/5/06
Printed Name/Title Mr. Ed Hasely, Environmental Advisor Signature E M Hasely

Your certification and NMOCD 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. #3 Signature Brandon Powell Date: OCT 18 2006

CLIENT: Burlington Resources

# ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION NO: _____
C.O.C. NO: _____

## FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: San Juan 29-7 WELL #: 42 PIT:
QUAD/UNIT: H SEC: 29 TWP: 29N RNG: 7W PM: NMPM CNTY: Rio Arriba ST: NM
QTR/FOOTAGE: 1600'N 1100'E CONTRACTOR: L&R / MDM

DATE STARTED: 11/14/05
DATE FINISHED: 11/18/05
ENVIRONMENTAL SPECIALIST: MPM

EXCAVATION APPROX. 40 FT. x 28 FT. x 25 FT. DEEP. CUBIC YARDAGE: 1100 yd³
DISPOSAL FACILITY: On-site REMEDIATION METHOD: Landfarm
LAND USE: _____ LEASE: SF 078945 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 75' FT. 220° FROM WELLHEAD.
DEPTH TO GROUNDWATER: 0 NEAREST WATER SOURCE: 0 NEAREST SURFACE WATER: 20
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

CHECK ONE:
___ PIT ABANDONED
✓ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

11/14 Visible contamination present. Still visible @ 14' depth. Will need further excavation.

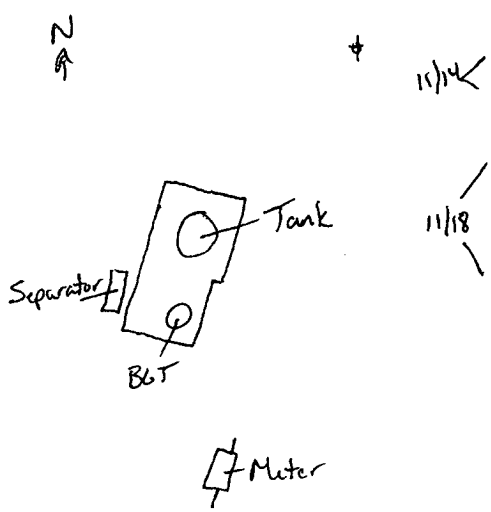
11/18 Contamination traveled mostly vertically. Encountered sandstone @ 25' depth.

FIELD 418.1 CALCULATIONS

| TIME | SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | SEE | 418.1 | Analysis | Log | | | |
| | | | | | | | |

SCALE
0 FT

### PIT PERIMETER




### OVM RESULTS

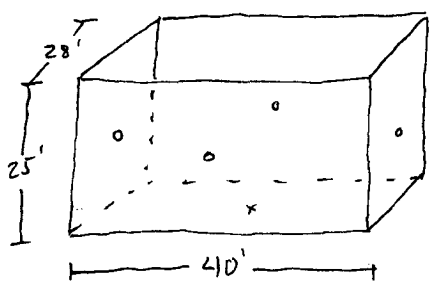
| SAMPLE ID | FIELD HEADSPACE PID (ppm) |
|---|---|
| 1 3' below | 1124 |
| 2 14' depth | 987 |
| 3 | |
| 4 | |
| 5 Bottom 25' | 152 |
| N. Wall | 0 |
| E. Wall | 2 |
| S. Wall | 4 |
| W. Wall | 0 |

11/14
11/18

LAB SAMPLES

| SAMPLE ID | ANALYSIS | ~~TIME~~ |
|---|---|---|
| Bottom 25' | 8021B | 1,390 |

### PIT PROFILE




x = Bottom sample
o = Wall samples

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# Method 418.1 Analysis Log
# Total Petroleum Hydrocarbons

Date 11/18/05 Analyst MPM

Location San Juan 29-7 Unit 42 Instrument Foxboro

Job No. 92115-021-132

| Sample No. | Sample Description | Sample Wt. (g) | Volume Freon (mL) | Dilution Factor | Abs. Reading | TPH (mg/kg) |
|---|---|---|---|---|---|---|
| 1 | Bottom @ 25' | 5 | 20 | 1 | 0.095 | 659 |
| 2 | N. Wall | 5 | 20 | 1 | 0.0032 | 22.2 |
| 3 | E. Wall | 5 | 20 | 1 | 0.0020 | 13.9 |
| 4 | S. Wall | 5 | 20 | 1 | 0.0048 | 33.3 |
| 5 | W. Wall | 5 | 20 | 1 | 0.0012 | 8.33 |
| | | | | | | |

Infrared Spectrophotometer Calibration

New Freon _____

Date Standards Prepared _____

| Standard Concentration (mg/L) | Absorbance |
|---|---|
| 100 | _____ |
| 200 | 0.122 |
| 500 | _____ |
| 1000 | _____ |

I-CAL RF: 1735 C-CAL RF: _____

RSD: _____ % % Difference: _____ %

QA/QC Acceptance Criteria: I-CAL RSD +/- 20% C-Cal Difference +/- 10%

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# EPA METHOD 418.1
# TOTAL PETROLEUM HYDROCARBONS

| | | | |
|---|---|---|---|
| Client: | Burlington Resources | Project #: | 92115-021-132 |
| Sample No.: | 1 | Date Reported: | 11/18/2005 |
| Sample ID: | Bottom, 25' depth, sandstone | Date Sampled: | 11/18/2005 |
| Sample Matrix: | Soil | Date Analyzed: | 11/18/2005 |
| Preservative: | Cool | Analysis Needed: | TPH-418.1 |
| Condition: | Cool and Intact | | |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|---|---|---|
| **Total Petroleum Hydrocarbons** | **659** | **5.0** |

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Wate and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 29-7 Unit 42**

Analyst

Review

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# EPA METHOD 418.1
# TOTAL PETROLEUM HYDROCARBONS

| | | | |
|---|---|---|---|
| Client: | Burlington Resources | Project #: | 92115-021-132 |
| Sample No.: | 2 | Date Reported: | 11/18/2005 |
| Sample ID: | N. Wall, grab sample | Date Sampled: | 11/18/2005 |
| Sample Matrix: | Soil | Date Analyzed: | 11/18/2005 |
| Preservative: | Cool | Analysis Needed: | TPH-418.1 |
| Condition: | Cool and Intact | | |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|---|---|---|
| **Total Petroleum Hydrocarbons** | **22.2** | **5.0** |

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Wate and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 29-7 Unit 42**

Analyst

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# EPA METHOD 418.1
# TOTAL PETROLEUM HYDROCARBONS

| | | | |
|---|---|---|---|
| Client: | Burlington Resources | Project #: | 92115-021-132 |
| Sample No.: | 3 | Date Reported: | 11/18/2005 |
| Sample ID: | E. Wall, grab sample | Date Sampled: | 11/18/2005 |
| Sample Matrix: | Soil | Date Analyzed: | 11/18/2005 |
| Preservative: | Cool | Analysis Needed: | TPH-418.1 |
| Condition: | Cool and Intact | | |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|---|---|---|
| **Total Petroleum Hydrocarbons** | **13.9** | **5.0** |

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Wate and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 29-7 Unit 42**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# EPA METHOD 418.1
# TOTAL PETROLEUM HYDROCARBONS

| | | | |
|---|---|---|---|
| Client: | Burlington Resources | Project #: | 92115-021-132 |
| Sample No.: | 4 | Date Reported: | 11/18/2005 |
| Sample ID: | S. Wall, grab sample | Date Sampled: | 11/18/2005 |
| Sample Matrix: | Soil | Date Analyzed: | 11/18/2005 |
| Preservative: | Cool | Analysis Needed: | TPH-418.1 |
| Condition: | Cool and Intact | | |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|---|---|---|
| **Total Petroleum Hydrocarbons** | **33.3** | **5.0** |

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Wate and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 29-7 Unit 42**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# EPA METHOD 418.1
# TOTAL PETROLEUM HYDROCARBONS

| | | | |
|---|---|---|---|
| Client: | Burlington Resources | Project #: | 92115-021-132 |
| Sample No.: | 5 | Date Reported: | 11/18/2005 |
| Sample ID: | W. Wall, grab sample | Date Sampled: | 11/18/2005 |
| Sample Matrix: | Soil | Date Analyzed: | 11/18/2005 |
| Preservative: | Cool | Analysis Needed: | TPH-418.1 |
| Condition: | Cool and Intact | | |

| Parameter | Concentration (mg/kg) | Det. Limit (mg/kg) |
|---|---|---|
| **Total Petroleum Hydrocarbons** | **8.33** | **5.0** |

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Wate and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 29-7 Unit 42**

Analyst

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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021
## AROMATIC VOLATILE ORGANICS

| | | | |
|---|---|---|---|
| Client: | Burlington Resources | Project #: | 92115-021-132 |
| Sample ID: | Bottom @ 25' | Date Reported: | 11-21-05 |
| Laboratory Number: | 35214 | Date Sampled: | 11-18-05 |
| Chain of Custody: | 15146 | Date Received: | 11-18-05 |
| Sample Matrix: | Soil | Date Analyzed: | 11-21-05 |
| Preservative: | Cool | Date Extracted: | 11-21-05 |
| Condition: | Cool & Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|---|---|---|
| **Benzene** | **2.0** | **1.8** |
| **Toluene** | **57.9** | **1.7** |
| **Ethylbenzene** | **652** | **1.5** |
| **p,m-Xylene** | **622** | **2.2** |
| **o-Xylene** | **58.9** | **1.0** |
| **Total BTEX** | **1,390** | |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|---|---|---|
| | **Fluorobenzene** | **98.0 %** |
| | **1,4-difluorobenzene** | **98.0 %** |
| | **Bromochlorobenzene** | **98.0 %** |

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:** **San Juan 29-7 Unit 42.**

Analyst

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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

| | | | |
|---|---|---|---|
| Client: | Burlington Resources | Project #: | 92115-001-1304 |
| Sample ID: | San Juan 29-7 #42 | Date Reported: | 09-26-06 |
| Laboratory Number: | 38602 | Date Sampled: | 09-19-06 |
| Chain of Custody No: | 1304 | Date Received: | 09-25-06 |
| Sample Matrix: | Soil | Date Extracted: | 09-25-06 |
| Preservative: | Cool | Date Analyzed: | 09-26-06 |
| Condition: | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|---|---|---|
| **Gasoline Range (C5 - C10)** | **ND** | **0.2** |
| **Diesel Range (C10 - C28)** | **5.2** | **0.1** |
| **Total Petroleum Hydrocarbons** | **5.2** | **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: **2005 BGT Project Landfarm PID 1.8**

Analyst

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