

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 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 30<sup>th</sup> Street, Farmington, New Mexico, 87402  
Facility or well name: Reid No. 18 (Tank A) API #: 30045074490000 U/L or Qtr/Qtr K Sec 18 T 29N R 9W  
County: San Juan Latitude 36.66018 Longitude -107.83193 NAD: 1927 ☒ 1983 ☐  
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☒

| Pit  | Below-grade tank  |
|--|---|
| Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/><br>Workover <input type="checkbox"/> Emergency <input type="checkbox"/><br>Lined <input type="checkbox"/> Unlined <input type="checkbox"/><br>Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/><br>Pit Volume _____ bbl | Volume: <u>60</u> bbl Type of fluid: <u>Produced Water and Incidental Oil</u><br>Construction material: <u>Fiberglass</u><br>Double-walled, with leak detection? Yes <input checked="" type="checkbox"/> If not, explain why not. |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)   | Less than 50 feet (20 points)<br>50 feet or more, but less than 100 feet (10 points)<br>100 feet or more (0 points) 10  |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)  | Yes (20 points)<br>No (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 (20 points)<br>200 feet or more, but less than 1000 feet (10 points)<br>1000 feet or more (0 points) 10  |
| Ranking Score (Total Points) 20  |   |

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:

BG Tank A (located by product tank)

BTEX Lab Analysis Attached.

450 cubic yards will be landfarmed on the same lease

Rock Bottom  
(Reid #7)

Shale  
Bedrock  
Risque

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: 5/5/05

Printed Name/Title Mr. Ed Hasely, Environmental Advisor

Signature Ed 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 \_\_\_\_\_

Signature Denny Zeeb

Date: \_\_\_\_\_

CLIENT \_\_\_\_\_

## ENVIROTECH INC.

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

LOCATION NO \_\_\_\_\_

CELL NO \_\_\_\_\_

## FIELD REPORT: CLOSURE VERIFICATION

PAGE NO: 1 2

LOCATION: NAME ReisWELL #: 18

PIT: \_\_\_\_\_

DATE STARTED 3/29

QUAD/UNIT: \_\_\_\_\_

SEC: \_\_\_\_\_

TWP: \_\_\_\_\_

RNG: \_\_\_\_\_

PM: \_\_\_\_\_

CNTY: \_\_\_\_\_

ST: \_\_\_\_\_

DATE FINISHED 4/11

QTR/FOOTAGE: \_\_\_\_\_

CONTRACTOR: LJRENVIRONMENTAL  
SPECIALIST MPM

EXCAVATION APPROX \_\_\_\_\_ FT. x \_\_\_\_\_ FT. x \_\_\_\_\_ FT. DEEP CUBIC YARDAGE: \_\_\_\_\_

DISPOSAL FACILITY: \_\_\_\_\_ REMEDIATION METHOD: \_\_\_\_\_

LAND USE: \_\_\_\_\_ LEASE: \_\_\_\_\_ FORMATION: \_\_\_\_\_

## FIELD NOTES &amp; REMARKS:

PIT LOCATED APPROXIMATELY 110 FT. 175 FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_ NEAREST WATER SOURCE: \_\_\_\_\_ NEAREST SURFACE WATER: \_\_\_\_\_

NMDCD RANKING SCORE: \_\_\_\_\_ NMDCD TPH CLOSURE STD: 100 PPM

CHECK ONE:

☐ PIT ABANDONED☐ STEEL TANK INSTALLED

## SOIL AND EXCAVATION DESCRIPTION:

**BGTANKA** (Located by # product tank)

From beneath pit, soil is black in color. Odor is very intense. Appeared soil was turning to gray color as digging went down. At 11' started to hit ~~old~~ harder soil. Could not reach any further w/ backhoe. Informed Les Hyman. Tank will have to be reset.

## FIELD 418.1 CALCULATIONS

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

SCALE

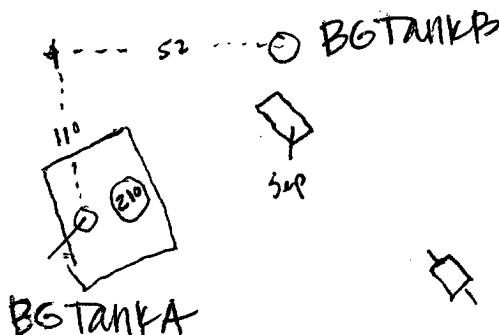


0 FT

## PIT PERIMETER

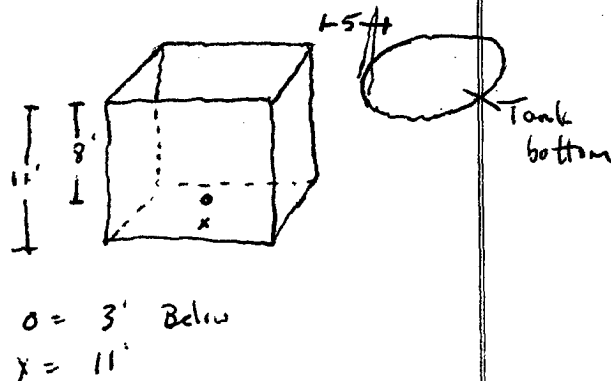
OVM  
RESULTS

## PIT PROFILE



| SAMPLE ID  | FIELD HEADSPACE PID (ppm) |
|------------|---------------------------|
| 1 3' Below | 469 ppm                   |
| 2 11'      | 530 ppm                   |
| 3          |                           |
| 4          |                           |
| 5          |                           |

| LAB SAMPLES |          |      |
|-------------|----------|------|
| SAMPLE ID   | ANALYSIS | TIME |
|             |          |      |
|             |          |      |
|             |          |      |
|             |          |      |
|             |          |      |



TRAVEL NOTES:

CALLOUT: \_\_\_\_\_

ONSITE: \_\_\_\_\_

60

|               |   |  |
|---------------|---|--|
| CLIENT: _____ | <b>ENVIROTECH INC.</b><br><small>ENVIRONMENTAL SCIENTISTS &amp; ENGINEERS<br/>         5796 U.S. HIGHWAY 64-3014<br/>         FARMINGTON, NEW MEXICO 87401<br/>         PHONE: (505) 632-0615</small> | LOCATION NO: _____<br><br>C.O.C. NO: _____ |
|---------------|---|--|

|  |  |   |
|--|--|---|
| FIELD REPORT: CLOSURE VERIFICATION                       |  | PAGE No: <u>2</u> of <u>2</u>                                 |
| LOCATION: NAME: <u>Reid</u> WELL #: <u>12</u> PIT: _____ |  | DATE STARTED: <u>3/29/05</u><br>DATE FINISHED: <u>4/11/05</u> |
| QUAD/UNIT: _____ SEC: _____ TWP: _____                   | RNG: _____ PM: _____ CNTY: _____ ST: _____ | ENVIRONMENTAL SPECIALIST: <u>mpm</u>                          |
| QTR/FOOTAGE: _____ CONTRACTOR: <u>M&amp;M</u>            |  |   |

EXCAVATION APPROX. \_\_\_\_\_ FT. x \_\_\_\_\_ FT. x \_\_\_\_\_ FT. DEEP CUBIC YARDAGE: 450 yds

DISPOSAL FACILITY: \_\_\_\_\_ REMEDIATION METHOD: \_\_\_\_\_

LAND USE: \_\_\_\_\_ LEASE: \_\_\_\_\_ FORMATION: \_\_\_\_\_

|                                  |  |   |
|----------------------------------|--|---|
| FIELD NOTES & REMARKS:           | PIT LOCATED APPROXIMATELY _____ FT. _____ FROM WELLHEAD. |   |
| DEPTH TO GROUNDWATER: _____      | NEAREST WATER SOURCE: _____                              | NEAREST SURFACE WATER: _____  |
| NMOC D RANKING SCORE: _____      | NMOC D TPH CLOSURE STD: <u>100</u> PPM                   | CHECK ONE :<br><input type="checkbox"/> PIT ABANDONED<br><input checked="" type="checkbox"/> STEEL TANK INSTALLED |
| SOIL AND EXCAVATION DESCRIPTION: |  |   |

**BGTANK A:** Jerry Montoya on-site. Did a 4 Pt Comp of walls. The bottom was at a shale layer. Bottom tapered from 11' to 16'. Took a BTEX sample for further closure. Soil will be LF on same lease

SCALE

0 FT

FIELD 418.1 CALCULATIONS

| TIME | SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|------|-------------|---------|------------|-----------|----------|---------|-----------|
| 1135 | 4 Pt Comp   | 1       | 5          | 20        | 1        | 0.014   | 97.2      |
| 1140 | Bottom      | 1       | 5          | 20        | 1        | 0.138   | 958       |

| PIT PERIMETER   | OVM RESULTS<br><table border="1" style="width:100%"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr> <td>1 4 Pt Comp</td> <td>28</td> </tr> <tr> <td>2 Bottom</td> <td>556</td> </tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> </tbody> </table> | SAMPLE ID | FIELD HEADSPACE PID (ppm) | 1 4 Pt Comp | 28   | 2 Bottom | 556 | 3 |  | 4 |  | 5 |  | PIT PROFILE<br><p style="margin-top: 20px;">x = 4 Pt Comp (Walls)<br/>0 = Bottom sample</p> |  |  |  |
|---|---|-----------|---------------------------|-------------|------|----------|-----|---|--|---|--|---|--|---|--|--|--|
| SAMPLE ID   | FIELD HEADSPACE PID (ppm)   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
| 1 4 Pt Comp   | 28  |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
| 2 Bottom  | 556   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
| 3   |   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
| 4   |   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
| 5   |   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
| LAB SAMPLES<br><table border="1" style="width:100%"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> |   |           | SAMPLE ID                 | ANALYSIS    | TIME |          |     |   |  |   |  |   |  |   |  |  |  |
| SAMPLE ID   | ANALYSIS  | TIME      |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
|   |   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
|   |   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
|   |   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |
|   |   |           |                           |             |      |          |     |   |  |   |  |   |  |   |  |  |  |

TRAVEL NOTES: CALLOUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

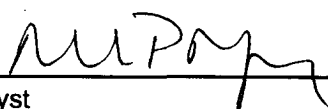
|                |                               |                  |               |
|----------------|-------------------------------|------------------|---------------|
| Client:        | Burlington Resources          | Project #:       | 92115-021-039 |
| Sample No.:    | 2                             | Date Reported:   | 4/18/2005     |
| Sample ID:     | 4 Pt Comp of Walls, BG Tank A | Date Sampled:    | 4/11/2005     |
| Sample Matrix: | Soil                          | Date Analyzed:   | 4/11/2005     |
| Preservative:  | Cool                          | Analysis Needed: | TPH-418.1     |
| Condition:     | Cool and Intact               |                  |               |

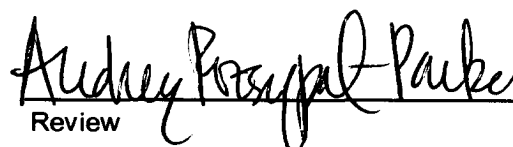
| Parameter                    | Concentration<br>(mg/kg) | Det.<br>Limit<br>(mg/kg) |
|------------------------------|--------------------------|--------------------------|
| Total Petroleum Hydrocarbons | 97                       | 5.0                      |

ND = Parameter not detected at the stated detection limit.

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

Comments: Reid No. 18

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

|                |                               |                  |               |
|----------------|-------------------------------|------------------|---------------|
| Client:        | Burlington Resources          | Project #:       | 92115-021-039 |
| Sample No.:    | 3                             | Date Reported:   | 4/18/2005     |
| Sample ID:     | Bottom @ 16' depth, BG Tank A | Date Sampled:    | 4/11/2005     |
| Sample Matrix: | Soil                          | Date Analyzed:   | 4/11/2005     |
| Preservative:  | Cool                          | Analysis Needed: | TPH-418.1     |
| Condition:     | Cool and Intact               |                  |               |

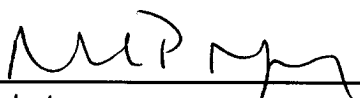
| Parameter | Concentration<br>(mg/kg) | Det.<br>Limit<br>(mg/kg) |
|-----------|--------------------------|--------------------------|
|-----------|--------------------------|--------------------------|

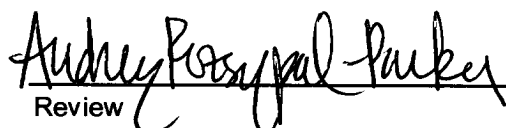
|                                     |            |            |
|-------------------------------------|------------|------------|
| <b>Total Petroleum Hydrocarbons</b> | <b>958</b> | <b>5.0</b> |
|-------------------------------------|------------|------------|

ND = Parameter not detected at the stated detection limit.

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

Comments: **Reid No. 18**

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                      |                     |               |
|--------------------|----------------------|---------------------|---------------|
| Client:            | Burlington Resources | Project #:          | 92115-021-049 |
| Sample ID:         | Bottom 15'           | Date Reported:      | 04-12-05      |
| Laboratory Number: | 32576                | Date Sampled:       | 04-11-05      |
| Chain of Custody:  | 13814                | Date Received:      | 04-11-05      |
| Sample Matrix:     | Soil                 | Date Analyzed:      | 04-12-05      |
| Preservative:      | Cool                 | Date Extracted:     | 04-11-05      |
| Condition:         | Cool & Intact        | Analysis Requested: | BTEX          |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 54.1                     | 2.1                      |
| Toluene      | 465                      | 1.8                      |
| Ethylbenzene | 383                      | 1.7                      |
| p,m-Xylene   | 2,410                    | 1.5                      |
| o-Xylene     | 542                      | 2.2                      |
| Total BTEX   | 3,850                    |                          |

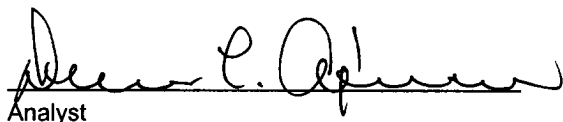
ND - Parameter not detected at the stated detection limit.

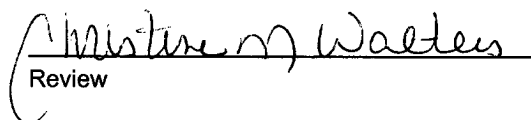
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 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: Reid No 18.

  
Analyst

  
Review