

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, 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

Risk  
Outside VA  
BTEX  
Submit 1 copy to  
appropriate  
District Office  
and 1 copy to  
the Santa Fe Office  
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT 30-045-20533

|                                                                                                                                                        |  |                                            |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|----------------------|
| Operator: <u>Burlington Resources</u>                                                                                                                  |  | Telephone: <u>505-326-9841</u>             |                      |
| Address: <u>3401 East 30th St., Farmington, NM 87402</u>                                                                                               |  |                                            |                      |
| Facility Or: <u>GRENIER</u>                                                                                                                            |  | Well No: <u>21</u>                         | Pit No: <u>2</u>     |
| Well Name                                                                                                                                              |  |                                            |                      |
| Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>13</u> T <u>031N</u> R <u>012W</u> County <u>San Juan</u>                                                |  |                                            |                      |
| Pit Type: <u>vent</u> (Separator, Dehydrator, Tank, Vent, Other)                                                                                       |  |                                            |                      |
| Land Type: <u>Fee</u> (BLM, State, Fee, Other)                                                                                                         |  |                                            |                      |
| Pit Location: Pit Dimension length <u>18</u> width <u>18</u> depth <u>4</u>                                                                            |  |                                            |                      |
| Reference: <u>wellhead</u> Other _____                                                                                                                 |  |                                            |                      |
| Footage from reference: <u>60</u>                                                                                                                      |  |                                            |                      |
| Direction from reference (azimuth): <u>90</u> degrees                                                                                                  |  |                                            |                      |
| Depth To Ground Water:<br>(Vertical distance from<br>contaminants to seasonal<br>high water elevation of<br>ground water.)                             |  |                                            |                      |
|                                                                                                                                                        |  | Less than 50 feet                          | (20 points)          |
|                                                                                                                                                        |  | 50 feet to 99 feet                         | (10 points)          |
|                                                                                                                                                        |  | Greater than 100 feet                      | ( 0 points) <u>0</u> |
| Wellhead Protection Area:<br>(Less than 200 feet from a private<br>domestic water source, or; less than<br>1000 feet from all other water<br>sources.) |  | Yes (20 points)<br>No ( 0 points) <u>0</u> |                      |
| Distance to Surface Water:<br>(Horizontal distance to perennial<br>lakes, ponds, rivers, streams, creeks,<br>irrigation canals and ditches.)           |  | Less than 200 feet                         | (20 points)          |
|                                                                                                                                                        |  | 200 feet to 1000 feet                      | (10 points)          |
|                                                                                                                                                        |  | Greater than 1000 feet                     | ( 0 points) <u>0</u> |
| RANKING SCORE (TOTAL POINTS): <u>0</u>                                                                                                                 |  |                                            |                      |

Date Remediation Started: 3/22/2002

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

Remediation Method:  
(Check all appropriate  
sections.)

Excavation \_\_\_\_\_ Approx. cubic yards: \_\_\_\_\_

Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

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

Onsite \_\_\_\_\_ Offsite \_\_\_\_\_

General Description of Remedial Action: The lab data from the initial assessment of the pit is detailed below. The pit is NOT located inside the OCD defined Vulnerable Area. Based upon the attached RISK ANALYSIS, it is proposed to close the pit by backfilling with clean soils.

Ground Water Encountered: No (yes or no)

Depth: \_\_\_\_\_

Final Pit:

Sample location center of pit

Closure Sampling:

(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)Sample depth 3Sample Date 3/22/2002Sample time 1:30:00 PM

Sample Results:

Benzene(ppm) <5Total BTEX(ppm) 310Field Headspace(ppm) 462TPH 3522Ground Water Sample: No

(If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Date: 2/26/03Signature Ed HaselyTitle: Environmental SpecialistPrinted Name: Ed Hasely

## **RISK ANALYSIS FOR EARTHEN PIT CLOSURE**

Burlington Resources requests closure of the earthen pit at this location using a limited risk analysis based upon the following conditions:

1. The pit is not located inside the NMOCD defined Vulnerable Areas.
2. Groundwater is estimated to be at a depth greater than 100 feet.
3. The pit is not located within the Wellhead Protection Area - within 200 feet of a private domestic water source or within 1000 feet of all other water sources.
4. The pit is located greater than 1000 feet to surface water.
5. The soils from below the pit bottom were analyzed and the only parameter above NMOCD closure guidelines was total BTEX, which exceeded 50 ppm. The benzene and Total Petroleum Hydrocarbons (TPH) levels were within the NMOCD closure guidelines.

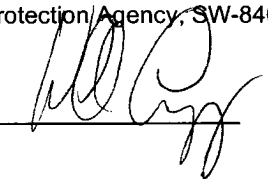
Burlington Resources believes that the earthen pit poses minimal threat to groundwater, human health and the environment.

**Client:** Burlington Resources  
**Project:** Pit Closure  
**Sample ID:** GRENIER 21 VENT PIT 2564301-2  
**Lab ID:** 0302W01158  
**Matrix:** Soil  
**Condition:** Cool/Intact

**Date Reported:** 04/15/02  
**Date Sampled:** 03/22/02  
**Date Received:** 03/25/02  
**Date Extracted:** N/A  
**Date Analyzed:** 04/04/02

| Parameter                             | Analytical Result | PQL | Units |
|---------------------------------------|-------------------|-----|-------|
| <b>BTEX - METHOD 8021B</b>            |                   |     |       |
| Benzene                               | <5                | 5   | mg/Kg |
| Toluene                               | 19                | 5   | mg/Kg |
| Ethylbenzene                          | 39                | 5   | mg/Kg |
| Xylenes (total)                       | 252               | 15  | mg/Kg |
| Total BTEX                            | 310               | 30  | mg/Kg |
| <b>GRO/DRO - METHOD 8015M</b>         |                   |     |       |
| Gasoline Range Organics(C6-C10)       | 3,250             | 50  | mg/Kg |
| Diesel Range Organics (C10 - C22)     | 272               | 50  | mg/Kg |
| Total Petroleum Hydrocarbons (C6-C22) | 3,522             | 100 | mg/Kg |

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB.

Reviewed By: 

Analyst: \_\_\_\_\_